Water Heater



Thermo Top E Parking Heater *Thermo Top C* Parking Heater *Thermo Top P* Parking Heater

e1
00 0003
e1
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e1
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Installation instructions

Nissan Qashqai / Qashqai +2

1.5I Diesel / DPF from Model Year 2009 Left-hand drive vehicle Gear box



WARNING!

Hazard warning:

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



Specialist company training, technical documentation, specialised tools and equipment are required to install and repair Webasto heating and cooling systems.

Only original Webasto parts must be used. For this, also see the catalog of air and water heater accessories from Webasto.

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

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

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

Table of Contents

Validity	2
Heater/Installation Kit	3
Foreword	3
General Instructions	3
Special Tools	3
Explanatory Notes on Document	4
Preliminary Work	5
Heater installation location	5
Preparing electrical system	6
Electrical Connections	7
Fan controller for manual air conditioning	8
Automatic air-conditioning fan controller	9
Remote option (Telestart)	11

Preparing installation location Preparing heater	12 13
Installing heater	15
Combustion air	16
Coolant circuit	17
Fuel Connection	20
Exhaust system	22
Final Work	24
Operating Instructions for End Customer	25

Validity

Manufacturer	Model	Туре	EG-BE No./ABE
Nissan	Qashqai / Qashqai +2	J10	e11 * 2001/116 * 0295 *
	1= • • •		
Engine type	Engine model	Output in kW	Displacement in cm ³
K9K	Diesel/DPF	76	1461

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/Installation Kit

Quantity	Description	Order No.:
1	Nissan-specific delivery scope	See Nissan price list
1	Installation kit for Nissan Qashqai / Qashqai +2 1.5 I Diesel	1311965B
1	Heater control	See Nissan price list

Heater recommended for the respective vehicle class:

Vehicle	Heater
Compact car	Thermo Top E
Mid-size car, station wagon	Thermo Top C
Full-size car, van, offroader	Thermo Top P

The selection of the heater is based on the passenger compartment size of the vehicle and the level of comfort required by the customer!

Foreword

These installation instructions apply to vehicles Nissan Qashqai / Qashqai +2 1.5l Diesel / DPF - for validity, see page 2 - from model year 2009 and later, assuming technical modifications to the vehicle do not affect installation, any liability claims excluded. Depending on the vehicle version and equipment, modifications may be necessary during installation with respect to 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 must be provided with rub protection (cut-open fuel hose)!

Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K, Order No. 111329).

Special Tools

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

Explanatory Notes on Document

of the individual working steps, you will find an identification a quick overview To pro vide vith mark on

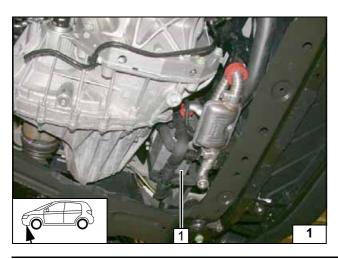
To provide you with a quick overview of the i on the outside top right corner of the page i	individual working steps, you will find an identification mark in question.
Mechanical system	n
Electrical system	
Coolant circuit	
Fuel	
Exhaust gas	
Combustion air	
Special features are highlighted using the	ne following symbols:
	Specific risk of injury or fatal accidents.
	Specific risk of damage to components.
	Specific risk of fire or explosion.
i	Reference to general installation instructions of Webas- to components or to the manufacturer's vehicle-specific documents.
	Reference to a special technical feature.
	The arrow in the vehicle icon indicates the position on the vehicle and the viewing angle.
All dimensions are in mm! Tightening torque of hose clamps = 2.0 Tightening torque of Ejot screws, Ejot st	+ 0.5 Nm! tuds = 10 Nm!

Preliminary Work

WARNING!

- Open fuel tank cap, ventilate 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.
- Remove the battery completely.
- Remove the air filter together with the intake hose
- Remove the engine design cover.
- Remove retaining plate of control units
- Remove the lower engine cover.
- Detach the lower left wheel well trim
- Remove the rear seat cushion.
- Open the fuel sender 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).

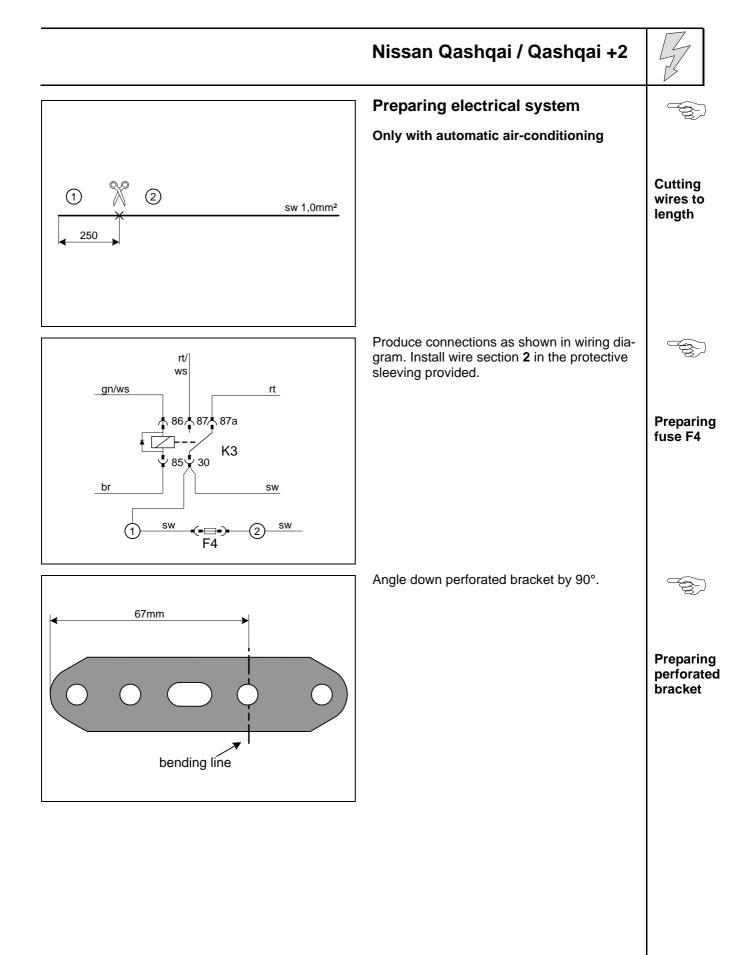
Remove page 25 "Operating Instructions for End Customer" and add to the vehicle operating instructions.



Heater installation location

1 Heater

Installation location

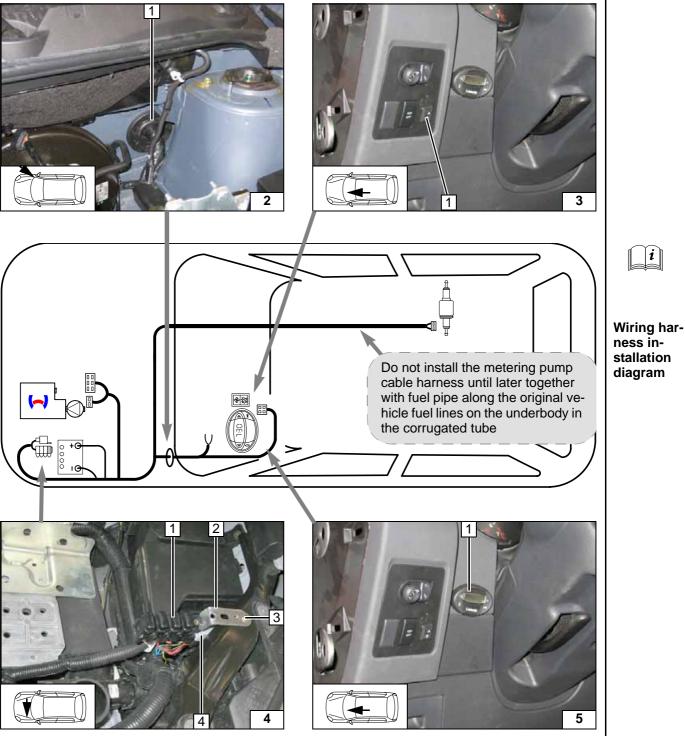


Electrical Connections Wiring harness pass through

1 Protective rubber plug

Summer/winter switch option

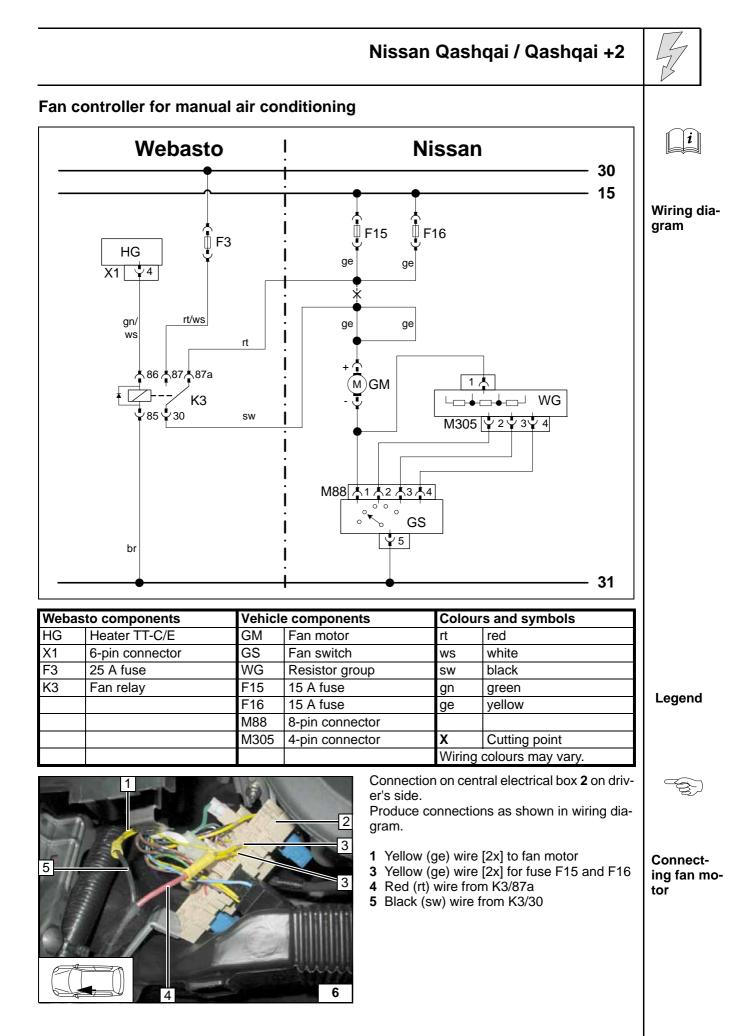
1 Summer/winter switch, drilled hole 12 mm dia.



Fuse holder, K3 relay

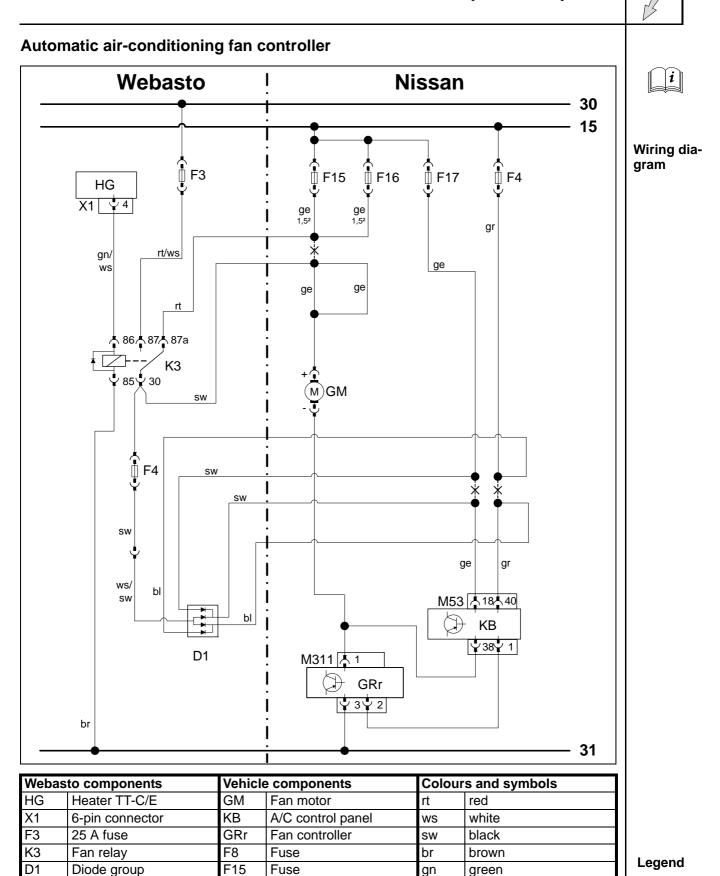
- 1 Fuse holder retaining plate, M5x20 bolt, washers, M5 nut
- 2 Perforated bracket angled down
- **3** M6x20 bolt, washer, M6 flanged nut, original vehicle hole
- 4 Fan relay K3

- **Digital timer**
- 1 Digital timer



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Nissan Qashqai / Qashqai +2



1 A fuse

F16

F17

M53

M311

Fuse

Fuse

40-pin connector KB

4-pin connector, GRr

bl

ge

gr

Х

blue

gray

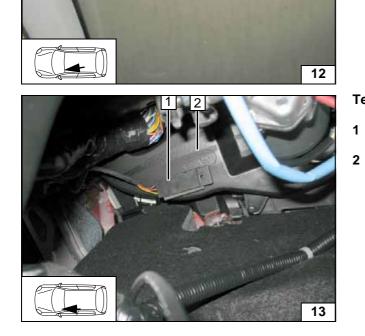
yellow

Cutting point Wiring colours may vary.

F4

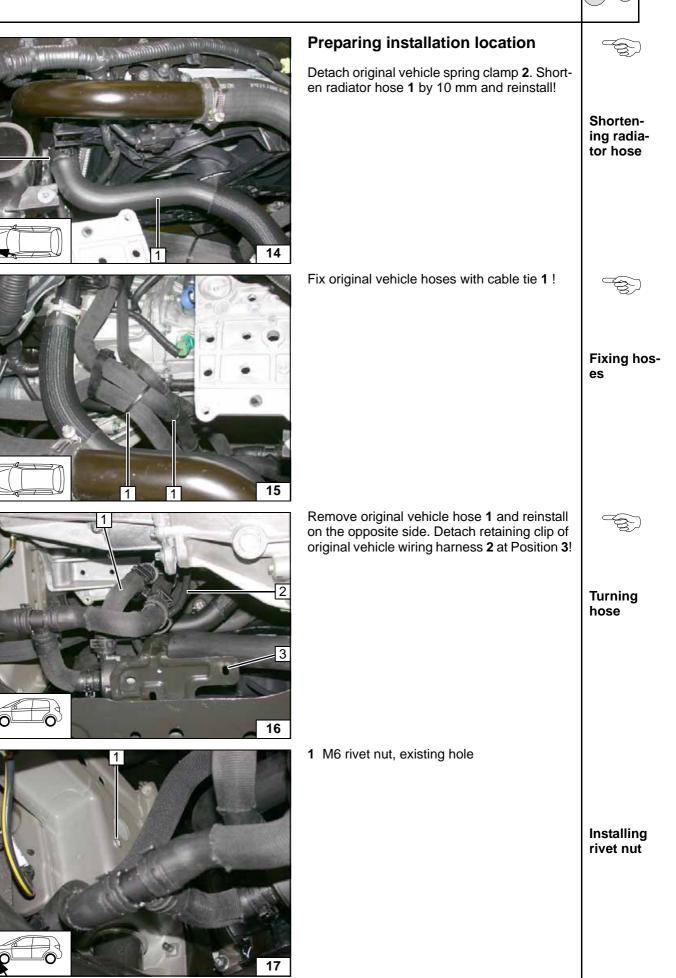
	Nissan Qashqai / Qashqai +2	Z
	Connection on central electrical box 2 on driver's side. Produce connections as shown in wiring diagram.	
	 Yellow (ge) wire [2x] to fan motor Yellow (ge) wire [2x] for fuse F15 and F16 Red (rt) wire from K3/87a Black (sw) wire from K3/30 	Connec- tion for fan motor
	Connection to 40-pin connector M53 2 from A/C control panel. Produce connections as shown in wiring dia- gram. Watch direction of flow of diode group D1 3 .	- fig
	 1 Black (sw) wire of F4 4 White/black (ws/sw) of D1 	Connect- ing A/C control panel
	 Produce connections as shown in wiring diagram. 1 Gray (gr) wire of F4 2 Yellow (ge) wire of F17 3 Gray (gr) wire of connector M53/40 KB 4 Yellow (ge) wire of connector M53/18 KB 	Connect- ing A/C control panel
	Connector imprint may differ from wiring diagram! 1 Connector M53 on line side	
		View of connector M53
10		

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Remote option (Telestart) Fasten receiver 1 with suitable means.	i
	Installing receiver
1 Antenna	
	Installing antenna
Temperature sensor for HTM100 only	
 Fasten temperature sensor with suitable means Air duct on driver's side 	
	Installing tempera- ture sensor



1

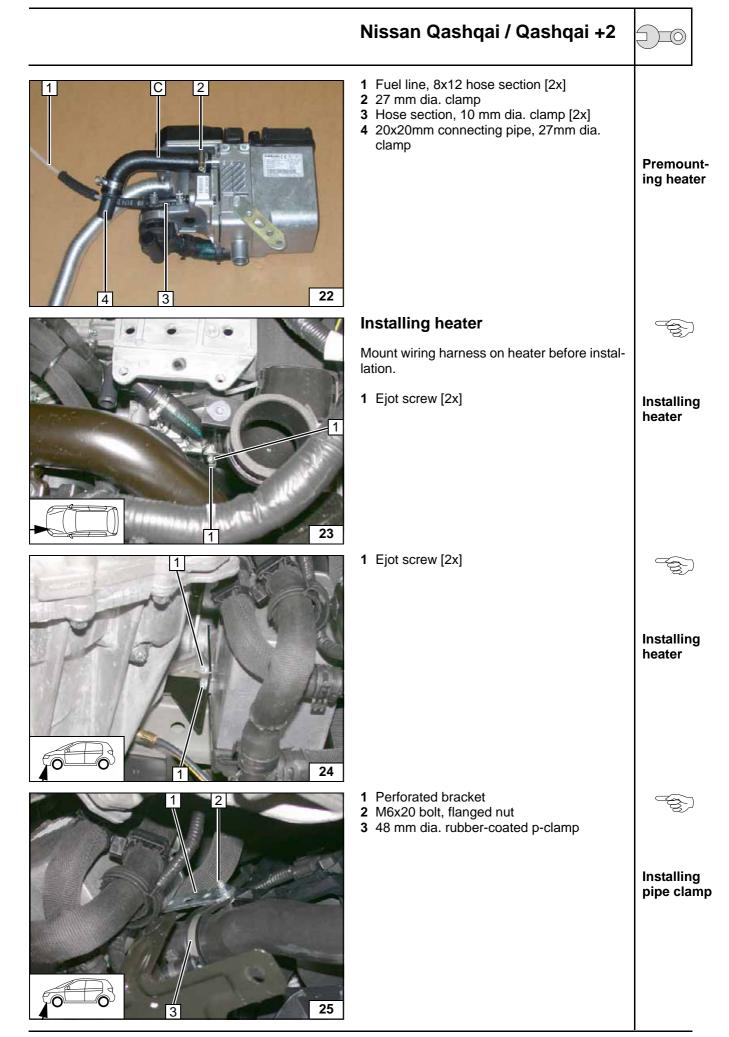
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Nissan Qashqai / Qashqai +2	
1 M6 rivet nut, existing hole	Installing rivet nut
 Original vehicle bolt Bracket Part A 	Mount bracket Part A loosely
 Bracket Part B M6x20 bolt, spring lockwasher, large diameter washer 	Mount bracket Part B loosely
Preparing heater	
Discard section X	
1 Combustion air pipe a = 250	Cutting combus- tion air pipe to length

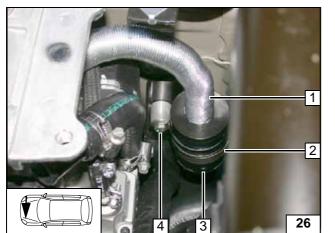
Nissan Qashqai / Qashqai +2	0-C
 Combustion air pipe 27 mm dia. clamp Ejot screw Perforated bracket 	Premount- ing heater
Shorten hose $A = 180^{\circ}$, moulded hose Discard section X B = 380 C = 110 D = 435	Cutting hoses to length
 Push braided protection hose onto hose B and D and cut to length. Cut heat shrink plastic tubing to length. 1 50 mm heat shrink plastic tubing [4x] 	Preparing hoses
 Push braided protection hose onto hose B and D and cut to length. Cut heat shrink plastic tubing to length. 1 Slide on black (sw) rubber isolator 2 20x20mm connecting pipe, 27 mm dia. spring clips 	Preparing hoses



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Installing muffler



Combustion air

Tighten all loose screw joints (bracket **A** and **B**)!

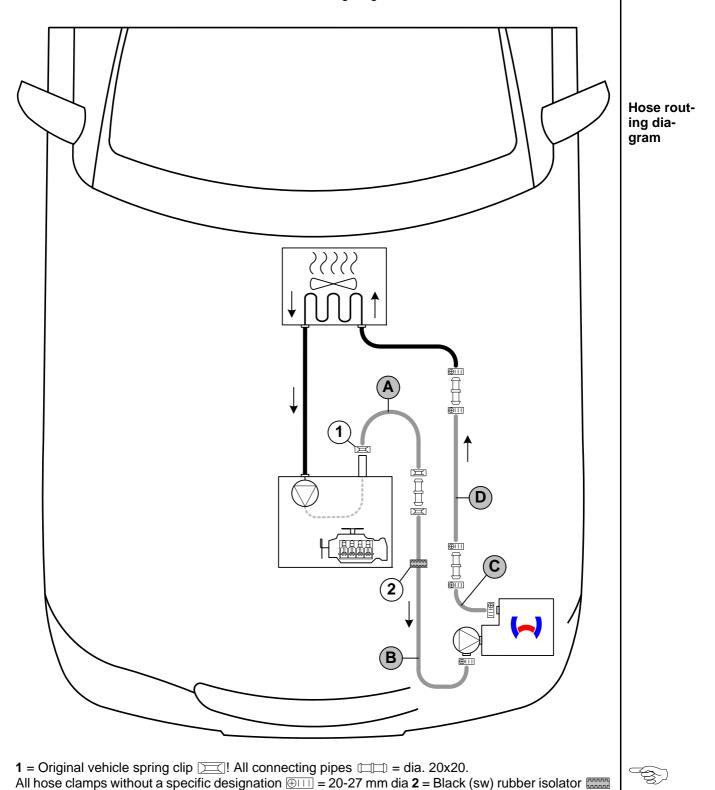
- 1 Combustion air pipe
- 2 48 mm dia. clamp
- 3 Muffler
- 4 M6x35 bolt, spring lockwasher, 20 mm shim



Coolant circuit

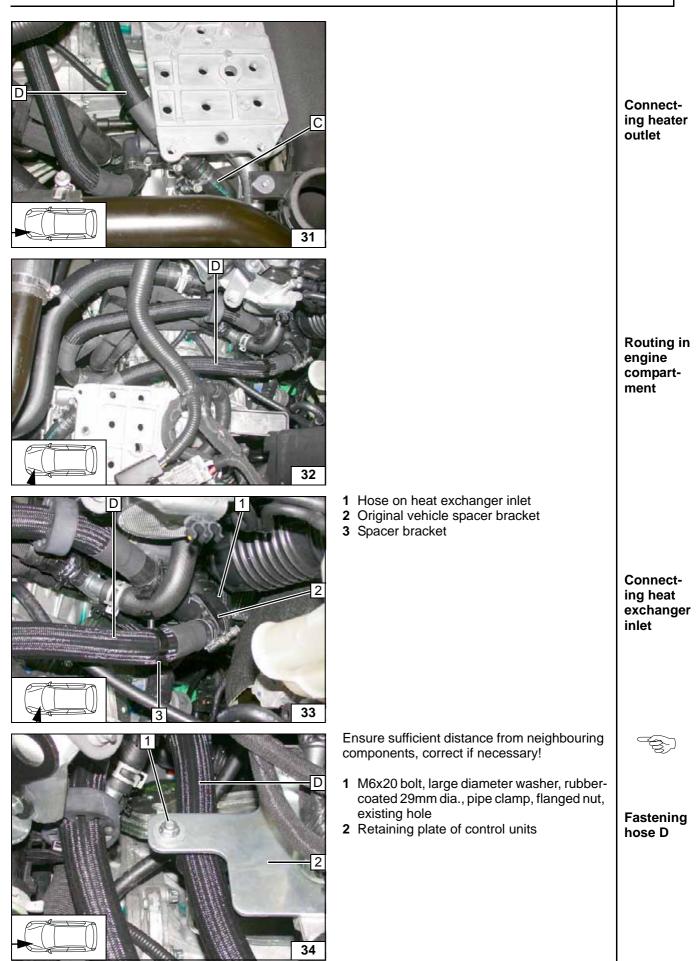
WARNING!

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



Nissan Qashqai / Qashqai +2 Pull hose of engine outlet **2** off connection piece. Original vehicle spring clamp will be re-used. Remove original vehicle spacer bracket 3, will be reused! Cutting point 3 27 1 Original vehicle spring clip В Connecting engine outlet 28 Fasten black (sw) rubber isolator **1** with cable S tie 2 on the original vehicle bracket! Routing in engine compartment 29 Connecting heater inlet 30 В





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Fuel Connection

CAUTION!

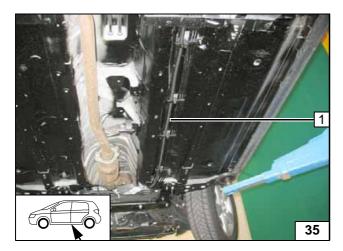
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

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.



Route fuel line from heater and wiring harness of metering pump in corrugated tube **1** as shown and secure with cable ties.





Installing lines

Check the position of the components; adjust
if necessary. Check that they have free clear-
ance.

- 1 Original vehicle bolt for fastening fuel tank, angle bracket on short leg drilled out to 10.5 mm dia
- 2 Rubber-coated p-clamp, silent block, flanged nut [2x]
- 3 Metering pump



Connect fuel line 3 from heater on pressure side of metering pump 1 [side with connector].
Check the position of the components; adjust if necessary. Check that they have free clearance.
2 Hose section, 10 mm dia. clamp [2x]
4 Wiring harness of metering pump, connector mounted

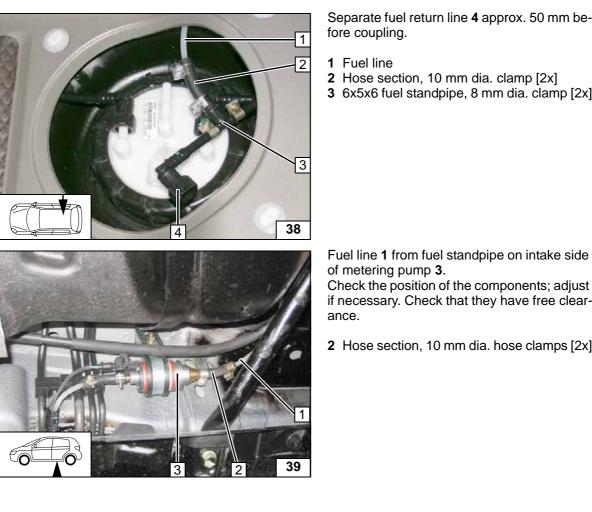


Installing metering pump



Connecting to metering pump





Separate fuel return line 4 approx. 50 mm be-

- **2** Hose section, 10 mm dia. clamp [2x]
- **3** 6x5x6 fuel standpipe, 8 mm dia. clamp [2x]

i

Removing fuel

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

2 Hose section, 10 mm dia. hose clamps [2x]

Connecting to metering pump

Nissan Qashqai / Qashqai +2	
 Exhaust system 1 Exhaust pipe a = 430 2 Exhaust end section b = 100 Discard section X 	Preparing exhaust pipe
 Push on red (rt) rubber isolator [2x] Exhaust pipe Hose clamp 	Preparing exhaust pipe
 Tighten hose clamp Align red (rt) rubber isolator Align exhaust pipe 	Installing exhaust pipe
 Insert 20 mm shim between exhaust muffler 1 and cross member! 2 Align red (rt) rubber isolator 3 Exhaust pipe 4 Hose clamp 5 M6x35 bolt, spring lockwasher, 20 mm shim, flanged nut, existing hole 	Installing muffler

Nissan Qashqai / Qashqai +2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
 Hose clamp M6x20 bolt, spring lockwasher, 5 mm shim, flanged nut, existing hole Exhaust end section 	Installing exhaust end sec- tion
 Underride protection 50 mm dia. hole 	Cutting out underride protection
Position exhaust end section 3 at centre of hole and align with underride protection. En- sure sufficient distance from neighbouring components, correct if necessary!	Installing exhaust end sec- tion

Final Work

WARNING!

Mount removed parts in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Secure all loose cables using cable ties. Only use manufacturer-approved coolant. Spray the heater components with anti-corrosion wax (Tectyl 100K, Order No. 111329).

- Connect the battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.
- Adjust digital timer, try out Telestart
- Make settings on A/C control panel according to the "Operating Instructions for End Customer".
- Check the proper operation of the parking heater, see the operating instructions/installation instructions.
- Apply the label "Switch off parking heater before refilling" in the area of the filling neck



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