Water Heater



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



Installation Documentation

Nissan NV200

Petrol

from model year 2010 Left-hand drive vehicle Manual air-conditioning Automatic air-conditioning Manual transmission Front fog light



WARNING!

Hazard warning:

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.



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

Only use genuine Webasto parts. See the Webasto air and water heaters accessories catalogue for this purpose.

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.

The initial startup is to be executed with the Webasto Thermo Test Diagnosis.

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	NV200	AM20	e11 * 2007 / 46 * 0016 *
	F	F	
Engine type	Engine model	Output in kW	Displacement in cm ³
HR16	Petrol	81	1598

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

The installation location of the digital timer must be coordinated with the end customer before the installation!

Heater / Installation Kit

Quantity	Designation	Order No.:
1	Basic delivery scope of Thermo Top E / C	See Price list
1	Installation kit for Nissan Note / NV200 2010 Petrol	1310821B
1	Heater control	See Price list

Heater recommended for the respective vehicle class:

Vehicle	Heater
Compact car	Thermo Top E
Mid-size car, estate car	Thermo Top C

Foreword

This installation documentation applies to Nissan NV200 Petrol vehicles - for validity, see page 2 - from model year 2010 and later, assuming technical modifications to the vehicle do not affect installation, any liability claims excluded. Depending on the vehicle version and equipment, modifications may be necessary during installation with respect to this installation documentation.

However, the stipulations in this "installation documentation" and "operating instructions" and the "installation instructions" for the *Thermo Top E* / C should 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. Insulate loose wires and tie back. Connectors on electronic components have to audibly click into place during installation.

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

Check or adjust the corresponding settings before installation when installing an IPCU.

Special Tools

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

Explanatory Notes on Document

To provide you with a quick overview of the individual working steps, you will find an identification mark on the outside top right corner of the page in question.

on the edicide top right contor of the page if	quoonom			
Mechanical system				
Electrical system	F			
Coolant circuit				
Fuel				
Exhaust gas				
Combustion air				
Software				
Special features are highlighted using the following symbols:				
	Specific risk of injury or fatal accidents.			
	Specific risk of damage to components.			

Specific risk of fire or explosion.

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

Reference to a special technical feature.

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

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

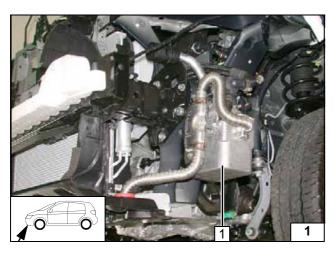
All dimensions are in mm! Tightening torque of hose clamps = 2.0 + 0.5 Nm! Tightening torque of Ejot screws, Ejot studs = 10 Nm!

Preliminary Work

WARNING!

- Open the fuel tank cap, ventilate the tank.
- Close the fuel tank cap again.
- Disconnect the battery.
- Depressurise 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.
- Disconnect the battery and remove it completely with the box.
- Remove the air filter housing.
- Remove the left front wheel.
- Detach the wheel well trim on the left and right.
- Remove the front bumper cover.
- Remove the rear bench seat.
- Remove the fuel-tank in accordance with the manufacturer's instructions.
- Remove the instrument panel trim on the driver's side.
- Remove the fuse and relay carrier on the driver's side.
- Remove the lower instrument panel trim on the driver's side and front passenger's side (only with automatic air-conditioning).
- Remove the radio and A/C control panel according to the manufacturer's instructions (only with automatic air-conditioning).

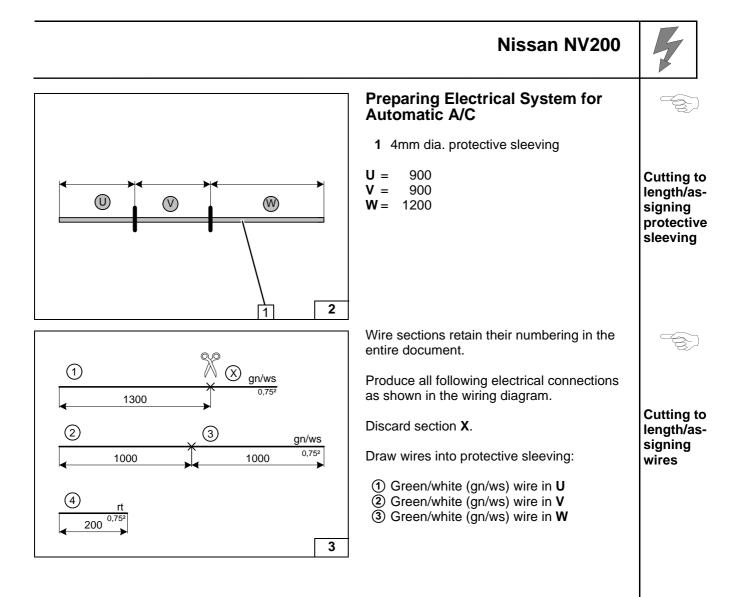
Remove page 28 "Operating Instructions for End Customer" and add to the vehicle operating instructions.

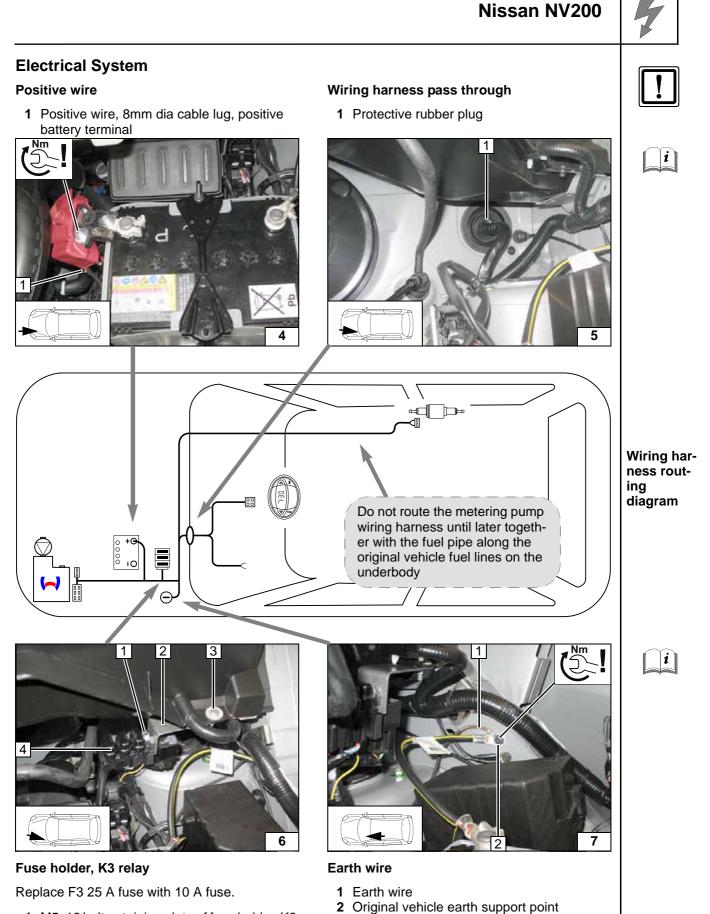


Heater Installation Location

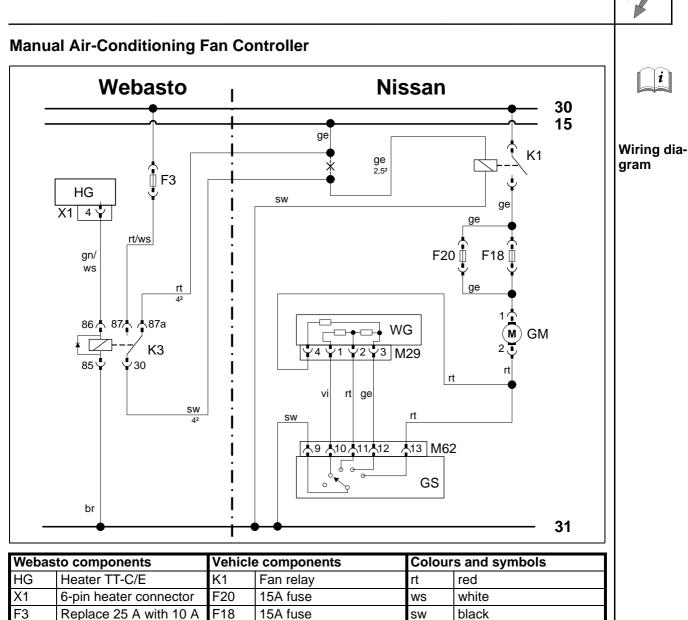
1 Heater

Installation location

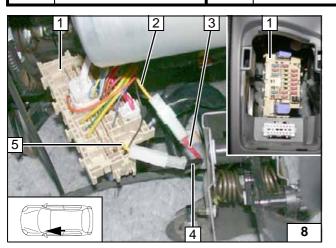




- 1 M5x16 bolt, retaining plate of fuse holder, K3 relay, washer, flanged nut
- 2 Drill out bracket to 7 mm dia. at position 3.
- **3** Original vehicle clip removed, M6x20 bolt, large diameter washer, flanged nut
- 4 F1-3 fuses mounted



Legend



GM

WG

M29

GS

M62

Fan motor

Fan switch

Resistor group

4-pin connector WG

15-pin connector GS

Connection at original vehicle fan relay K1.

brown

green

yellow

Cutting point Wiring colours may vary.

- 1 Passenger compartment central electrical box, detached
- 2 Yellow (ge) wire (Terminal 15)
- 3 Red (rt) wire from K3/87a

br

gn

ge

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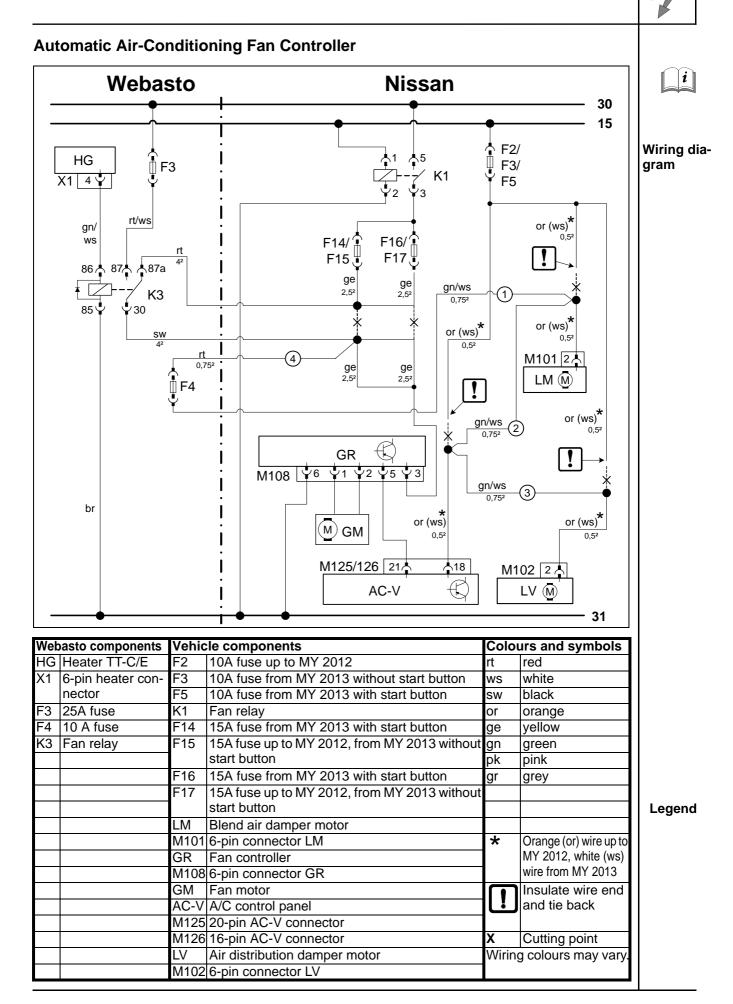
- 4 Black (sw) wire from K3/30
- 5 Yellow (ge) wire to fan relay K1

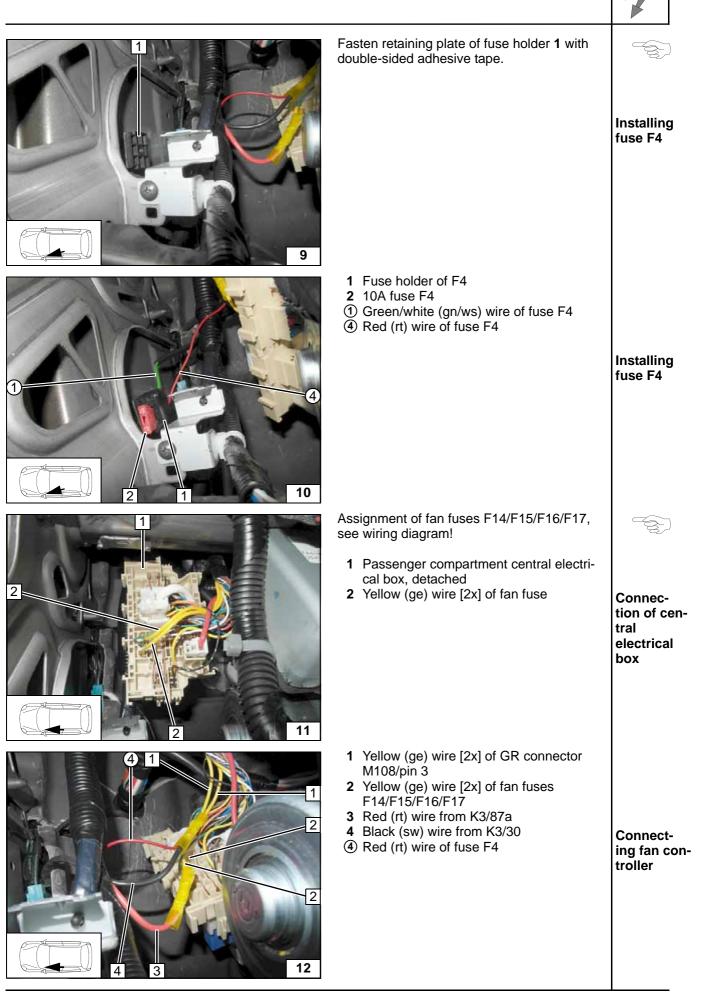
Connection of central electrical box

fuse.

Fan relay

K3





1 Fuse holder of F4 in retaining plate 2 Central electrical box

> Installing central electrical box

Connec-

tor

tion to temperature

damper mo-

Connect-

panel

distribu-

motor

tion damper

Insulate orange (or) or white (ws)* wire 2 of fuses F2/F3/F5 and tie back.

1 6-pin connector M101 LM

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- 3 Orange (or) or white (ws)* wire of connector M101/pin 2
- 1 Green/white (gn/ws) wire of fuse F4
- ② Green/white (gn/ws) wire of connector M125 AC-V

M101 connector on wiring side



Insulate orange (or) or white (ws)* wire 3 of fuses F2/F3/F5 and tie back.

- 1 Orange (or) or white (ws)* wire of connector M125/pin 18
- 2 20-pin connector M125 AC-V
- ② Green/white (gn/ws) wire of connector M101 LM
- ing A/C ③ Green/white (gn/ws) wire of connector M102 LV control

Connector M125 on wiring side:

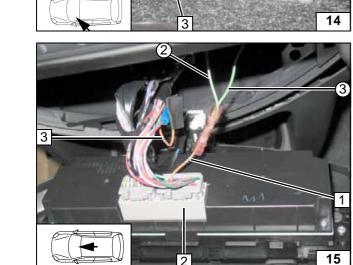
										_
	2	3	4	5	6			9	10	
11	12				16		18	19	20	

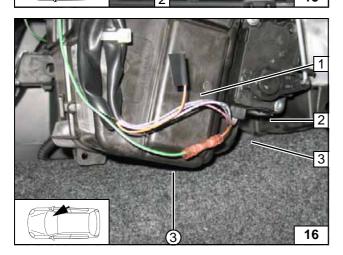
Insulate orange (or) or white (ws)* wire 1 of fuses F2/F3/F5 and tie back.

- 2 6-pin connector M102 LV
- 3 Orange (or) or white (ws)* wire of connector M102/pin 2
- Connec-3 Green/white (gn/ws) wire of connector M102 LV tion of air-

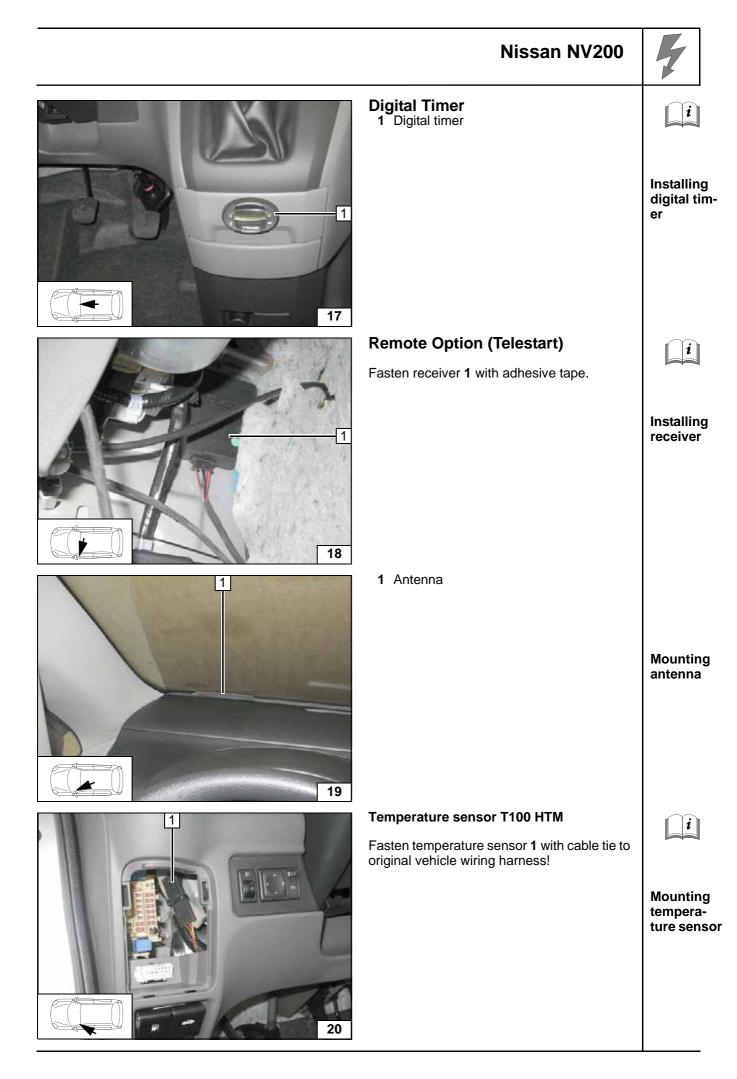
Connector M102 on wiring side:

4	1
	2
6	3

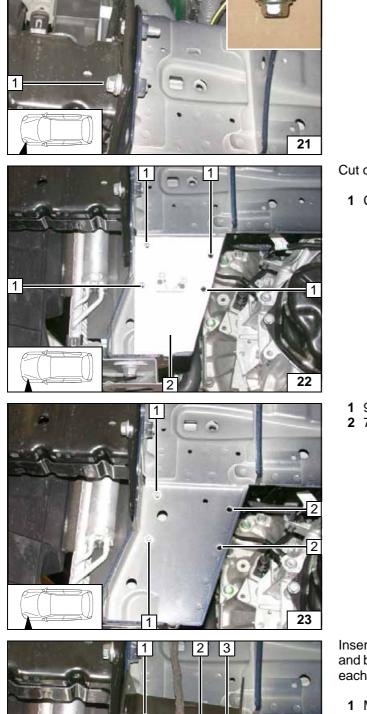




Ident. No.: 1315809C_EN

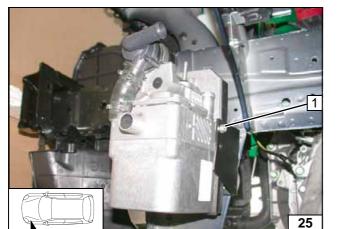


NISSAIT NV200	
Preparing Installation Location	
Remove original vehicle bolt 1 , insert six plain washers of 10.5mm dia and reinstall.	
	Inserting washers
Cut out template 2 lay it on top!	
1 Copy hole pattern [4x]	
	Copying hole pat- tern
 1 9.1 mm dia. hole, rivet nut [2x] 2 7 mm dia. hole [2x] 	
	Installing rivet nut
Insert one washer each between bracket 2 and body at position 1 as well as two washers each at positions 3 and 4 !	
 M6x20 bolt, spring lockwasher, large diameter washer [2x each] M6x20 bolt, large diameter washer [2x], flanged nut M6x20 bolt, large diameter washer [3x], flanged nut 	Installing bracket



1

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Installing Heater

Connect wiring harness for heater prior to installation.

1 Ejot screw

1 Ejot screw [2x]

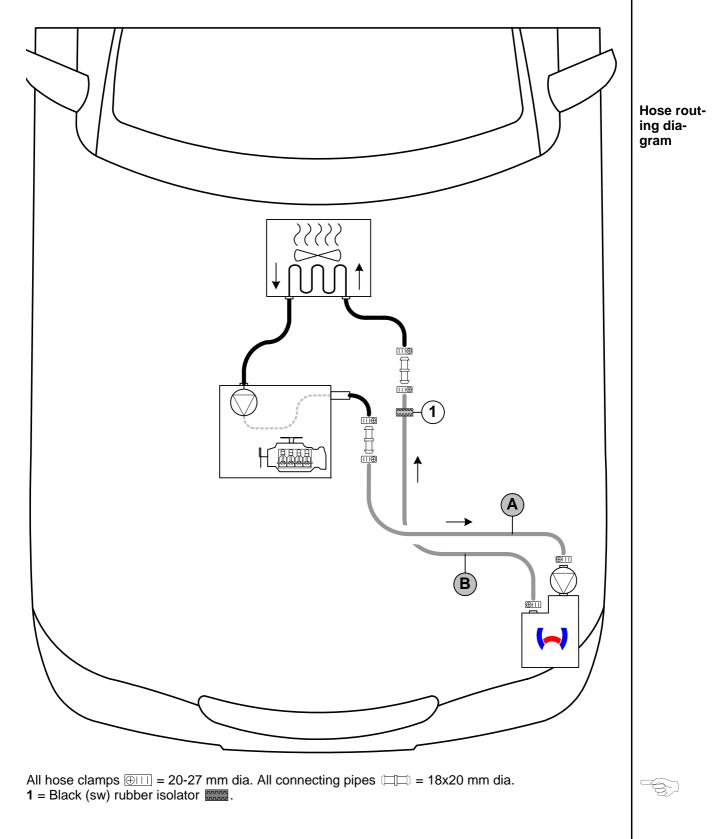
Installing heater

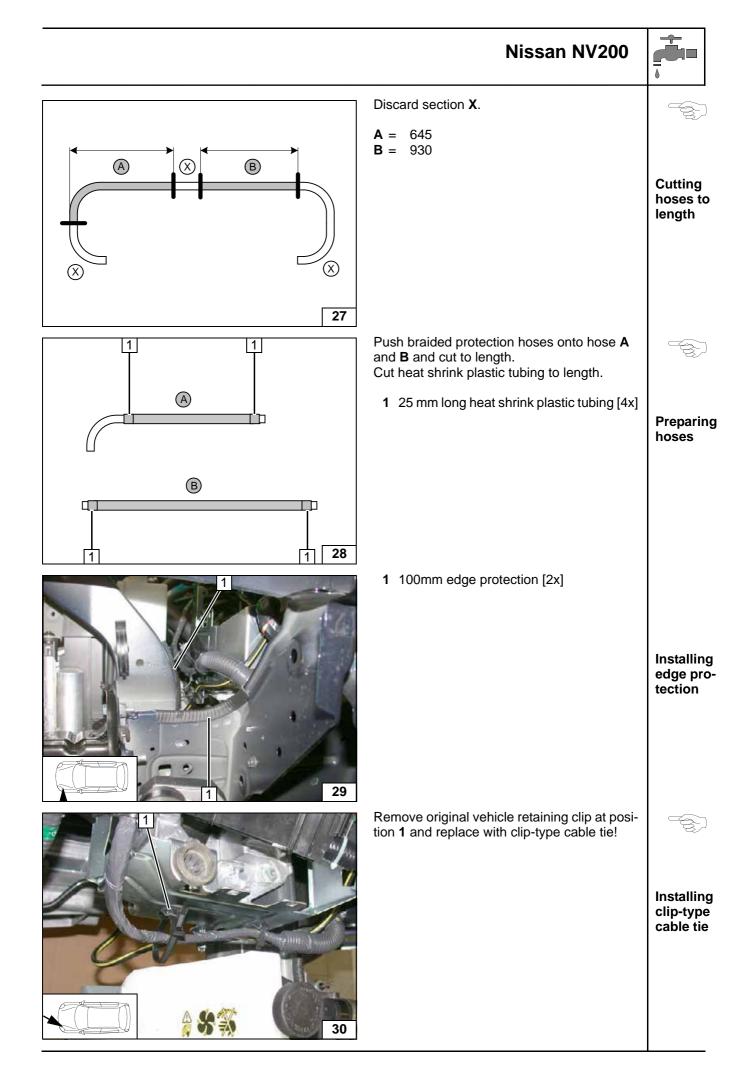
Installing heater

Coolant Circuit

WARNING!

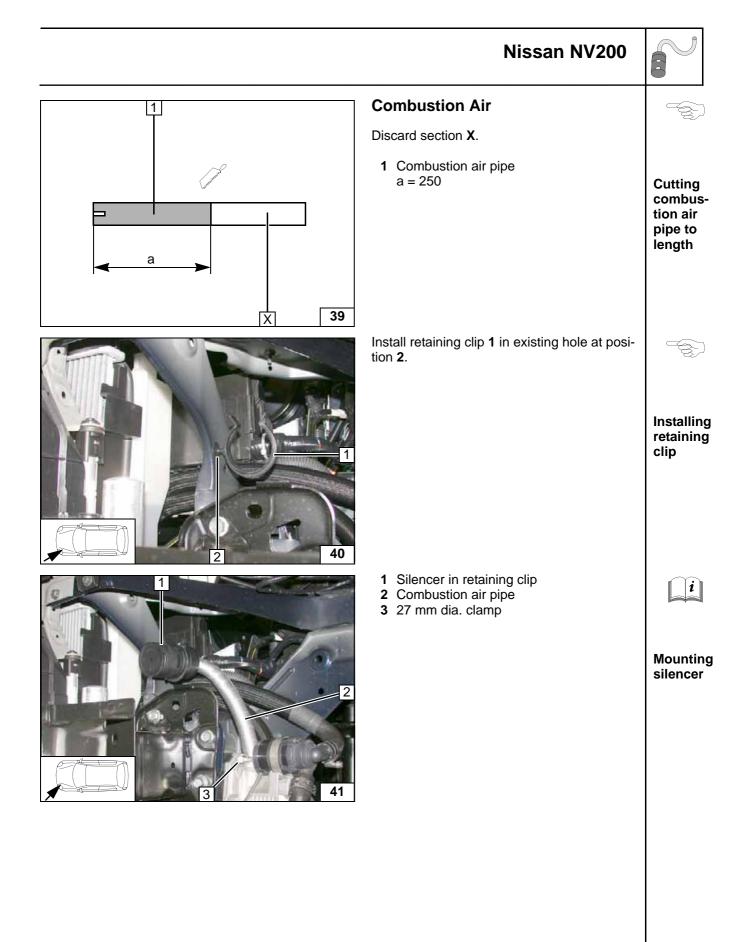
Any coolant running off should be collected in an appropriate container. Route hoses so that they are kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that no other hoses can be damaged. When installing the hoses, the heater must be filled with coolant. The connection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

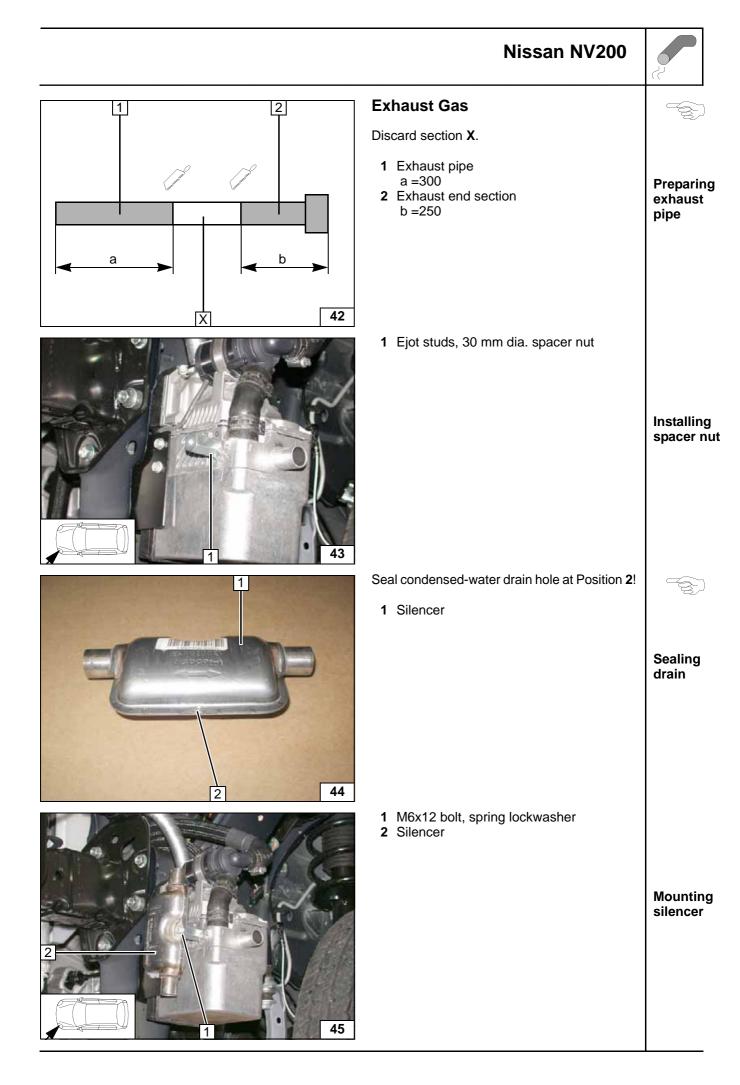




Nissan NV200	
	Connect- ing heater outlet
Route hose B through clip-type cable tie 1 to cutting point!	Routing in engine compart- ment
	Connect- ing heater inlet
 Route hose A over hose B through clip-type cable tie 1 to cutting point! 1 Close clip-type cable tie 2 Cable tie 	Routing in engine compart- ment

	Nissan NV200	
1	Original vehicle hose of heat exchanger out- let / engine inlet has been removed for better display.	
	 Hose section of heat exchanger inlet Engine outlet hose section 	Cutting point
	Turn hose section of engine outlet 2 by approx. 180° forward. Slide on black (sw) rubber isolator 3 on to hose B and position below connection piece of engine outlet!	
	1 Hose on heat exchanger inlet	Connect- ing heat exchanger inlet
A	 Hose on engine outlet turned Cable tie 	
		Connect- ing engine outlet
	Ensure sufficient distance from neighbouring components.	
		Aligning hoses and rubber iso- lator





Nissan NV200 1 Exhaust pipe 2 Hose clamp [2x] Mounting exhaust pipe 46 1 42 mm dia. hole 1 Hole in underride protection 47 1 Hose clamp 2 Exhaust end section 3 Red (rt) rubber isolator with groove Mounting exhaust end section 3 48 Align exhaust end section 2 flush on red rubber isolator **3**. Ensure sufficient distance from neighbouring components. 1 Underride protection Mounting rubber isolator 0 Ô 49

Fuel

CAUTION!

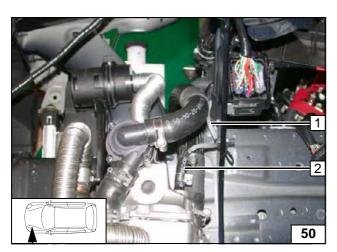
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

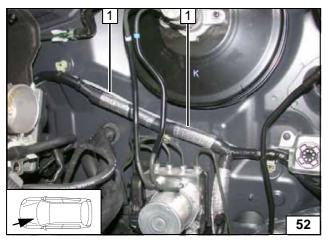
Catch any fuel running off in an appropriate container.

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!

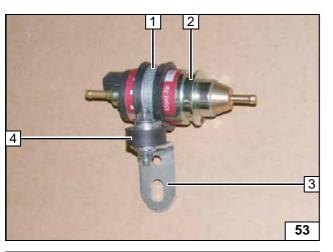
The fuel line and wiring harness are routed to the metering pump as shown in the wiring harness routing diagram.

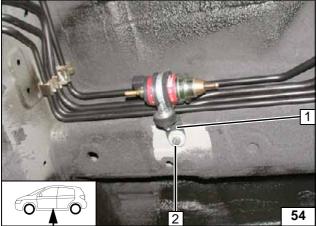


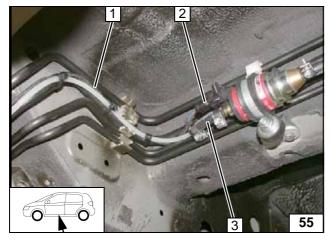


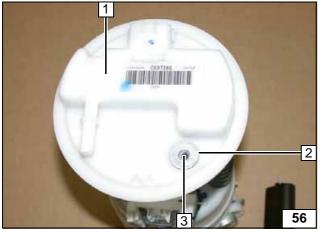
1 Fuel line 2 Hose section, 10 mm dia. clamp [2x] **Connect**ing heater Route fuel line 1 to firewall! Routing line Route fuel line and wiring harness of metering pump 1 to underbody! Routing lines











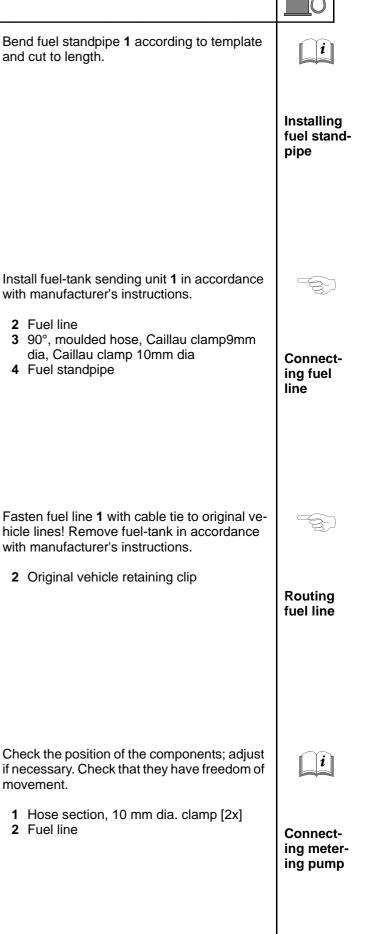
3	Rubber-coated pipe clamp Metering pump Angle bracket Silent block, flanged nut [2x]	Premount- ing meter- ing pump
	Angle bracket M6x20 bolt, large diameter washer, origi- nal vehicle threaded hole	i
		Installing metering pump
2	Fuel line Wiring harness of metering pump, con- nector mounted Hose section, 10 mm dia. clamp [2x]	i Connect- ing meter-
Der		ing pump
maı 2	nove fuel-tank sending unit 1 according to nufacturer's instructions. Large diameter washer, outer dia. d _a =21.6mm	
3	Copy hole pattern, 6 mm dia. hole	Fuel ex- traction

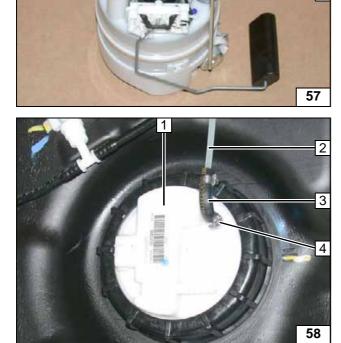


Bend fuel standpipe 1 according to template and cut to length.

1

2 Fuel line







with manufacturer's instructions. 2 Original vehicle retaining clip

Check the position of the components; adjust if necessary. Check that they have freedom of movement.

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

Ident. No.:	1315809C_EN	

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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. Insulate all loose lines and tie back.

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, teach Telestart transmitter.
- Make settings on A/C control panel according to the "Operating Instructions for End Customer".
- Apply the caution label "Switch off parking heater before refuelling" in the area of the filler neck
- See installation instructions for initial start-up and function check

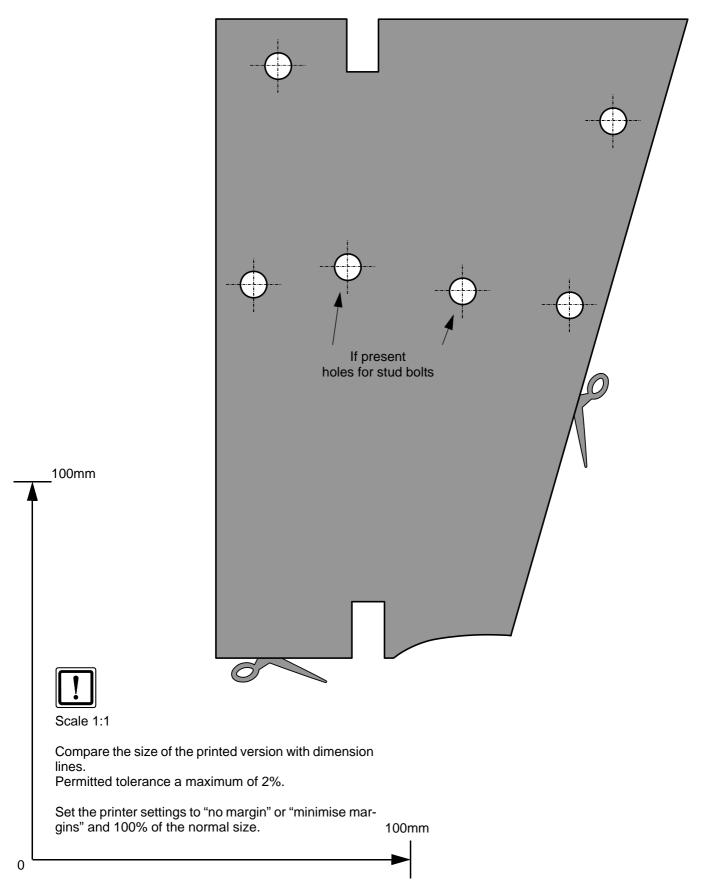


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Webasto Thermo & Comfort SE Postfach 1410 82199 Gilching Germany Internet: www.webasto.com Technical Extranet: http://dealers.webasto.com

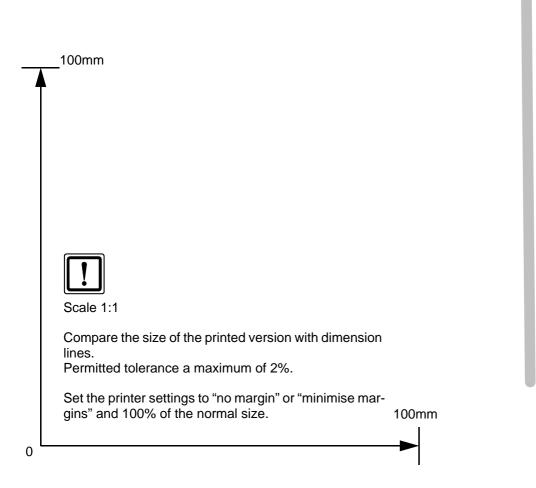


Template for Bracket



Status: 21.05.2015

Template for Fuel Standpipe





Operating Instructions for End Customer

Please remove page and add to the vehicle operating instructions.

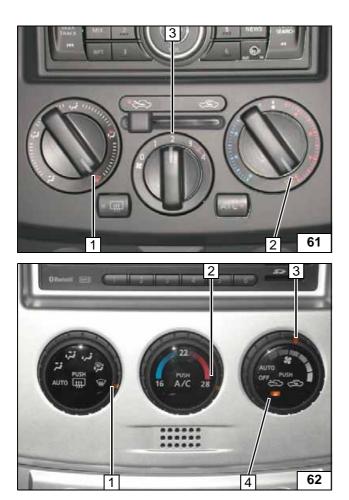
Note:

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.

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

Deactivation instructions can be found in the operating instructions of the vehicle.

Before parking the vehicle, make the following settings:



- 1 Air outlet to windscreen
- 2 Set temperature to "max."

1 Air outlet to windscreen

Set temperature to "max."
 Set fan to level "1" or max. "2"
 Fresh air supply activated

3 Set fan to level "1" or max. "2"

Automatic airconditioning

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Manual aircondition-

ing