## 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 Primastar/Renault Trafic**

international

Diesel 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	Primastar/	E4	N003
	Kombi Van	F4	K995
		J4	e2 * 98/14 * 0271 *
Renault	Trafic	X83	K833
		X83	e2 * 98/14 * 0213 *
Engine type	Engine model	Output in kW	Displacement in cm <sup>3</sup>
MAD		00	4005

Engine type	Engine model		Displacement in cm <sup>3</sup>
M9R	Diesel	66	1995
M9R	Diesel	84	1995
G9U	Diesel	107	2464

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

Qu	antity	Description	Order No.:
1		Nissan-specific heater unit delivery scope	See Nissan price list
1		Installation Kit for Nissan Primastar/Renault Trafic from 2001 Diesel	1303346B

#### **Optional heater control either:**

Quantity	Description	Order No.:
1	Heater control	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 Primastar/Renault Trafic 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).

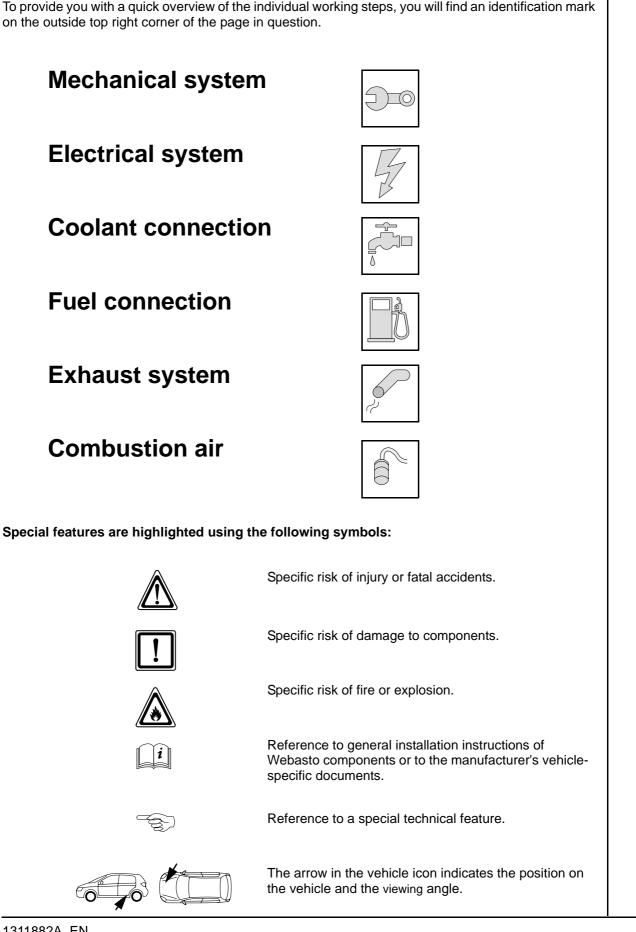
#### **Special Tools**

- Torque wrench for 2.0 10 Nm
- Hose clamping pliers
- Torx E5 nut



#### **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.

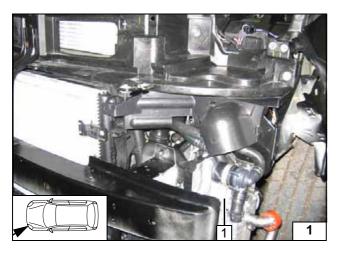


#### **Preliminary Work**

#### 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.
- Remove the entire air filter box together with the intake hose.
- Remove the front apron
- Remove the horn with the bracket
- Remove the left-hand headlight
- Detach and remove the right and left-hand wheel well trim
- Remove the bumper with trim pieces
- Remove the underride protection (2-piece)
- Remove the lower instrument panel trim on the front passenger side
- Take off the left-hand side trim of the instrument panel (only with HTM 100)
- Remove the A-pillar trim in the driver's side footwell (only with Telestart)

Remove page 22 "Operating Instructions for End Customer" and insert with vehicle operating instructions.



#### Heater unit installation location

1 Heater unit

Installation location

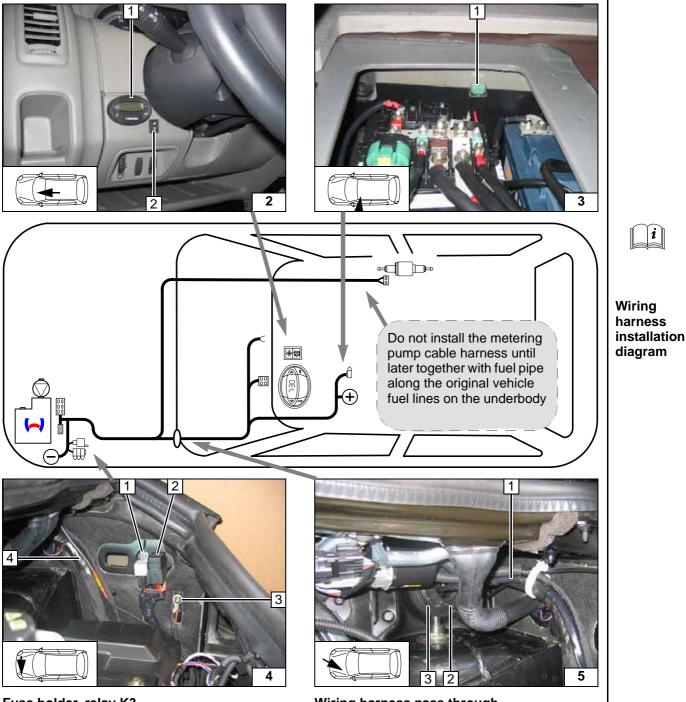
### **Electrical Connections**

# Digital timer and summer/winter switch option

- 1 Digital timer
- 2 Summer/winter switch, drilled hole 12 mm dia.

#### Additional fuse F4

Connect red (rt) positive wire,  $4mm^2$ , to positive support point. Fasten retaining plate of fuse holder with 3x9 self-tapping screw on battery carrier. Mount fuse, F4 30 A **1**.

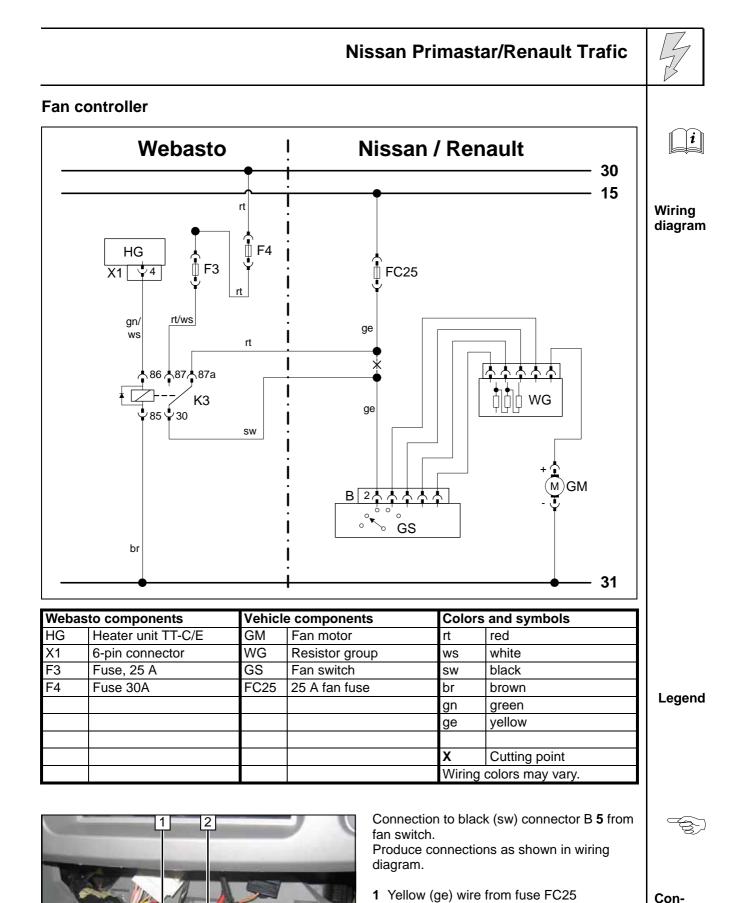


Fuse holder, relay K3

- 1 4 mm dia. hole, 5.5x13 self-tapping screw; K3 relay
- **2** 4 mm dia. hole, 5.5x13 self-tapping screw; retaining plate, fuse holder
- 3 Ground wire on ground support point
- 4 Extend positive wire with connector and red (rt) wire, 4mm<sup>2</sup> (crimp and shrink)

#### Wiring harness pass through

- 1 Wiring harness of fan controller, wiring harness of digital timer
- 2 Route extended positive wire in protective sleeving to battery box and connect to fuse F4
- 3 Protective rubber plug



2 Red (rt) wire to K3/87a

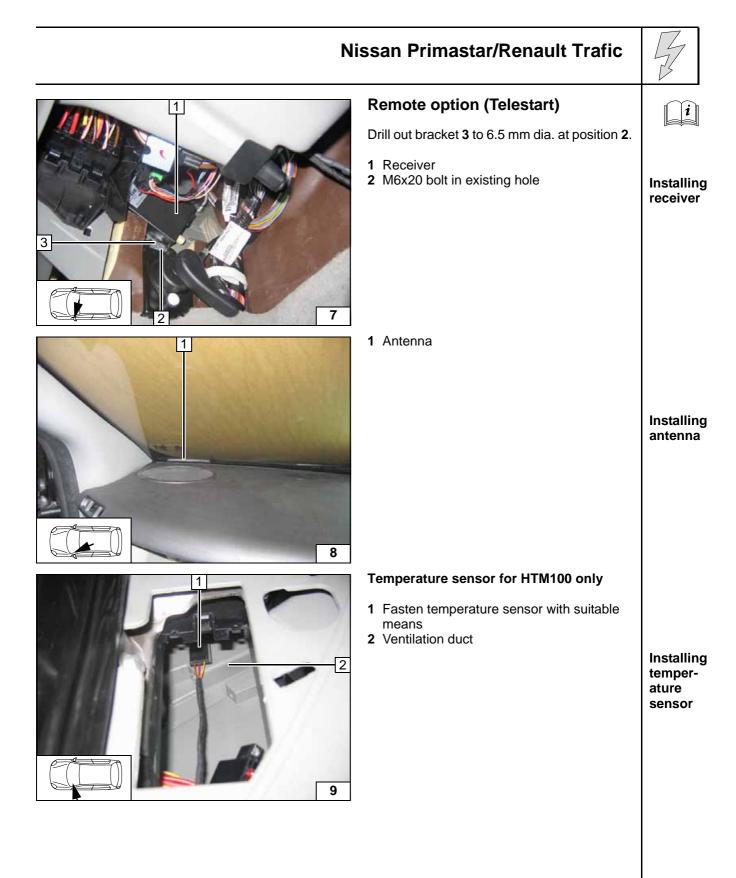
1 Black (sw) wire from K3/30

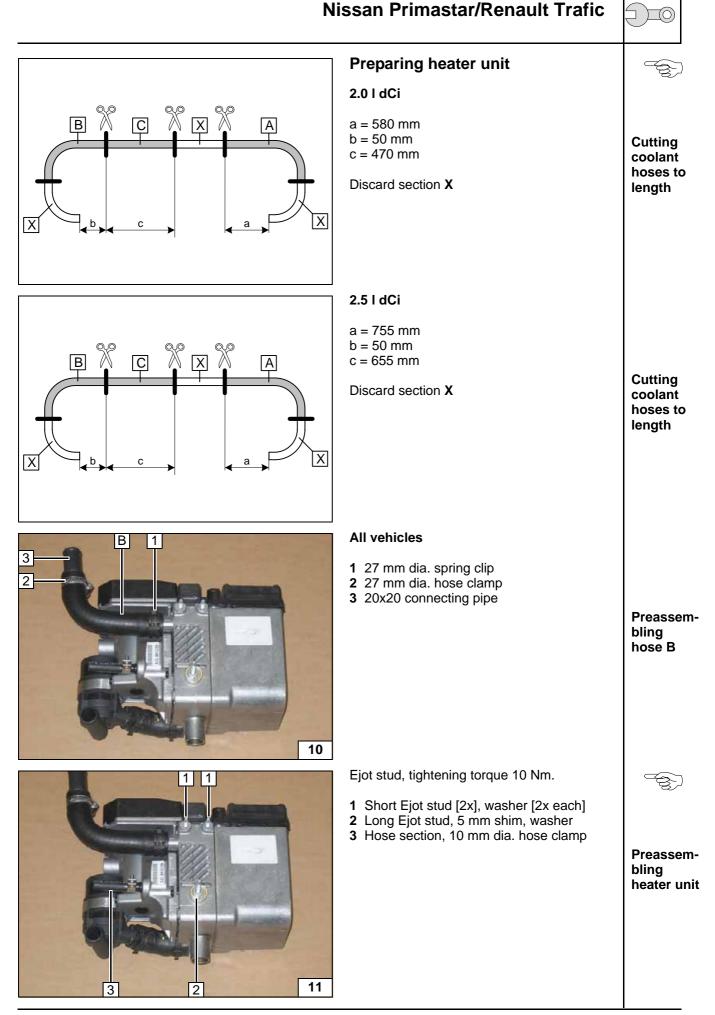
4 Yellow (ge) wire to connector B, Pin 2

3

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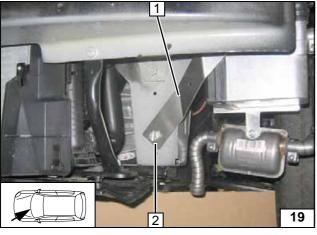
Connection of fan switch

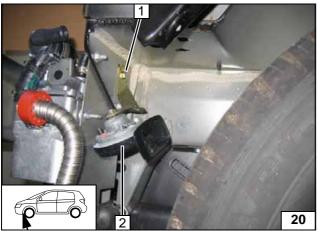




### **Nissan Primastar/Renault Trafic** Before installing, insert M8x20 bolt 1 in 2 2 3 1 bracket 3. 2 Flanged nut (3x) Preassembling bracket on heater unit 12 1 Exhaust pipe 2 1 a = 330 mm 2 Exhaust end section b = 140 mm Discard section X Preparing exhaust pipe а b Х 1 Exhaust muffler 1 2 M6x20 bolt, flanged nut Preassembling exhaust muffler 13 1 Hose clamp [3x]2 Exhaust end section 1 2 3 Exhaust pipe 4 Red (rt) rubber isolator Preassembling exhaust system 1 14 3 Δ

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1 Remove		emoving im
1 M8x20 be existing h	Ins	stalling eater unit





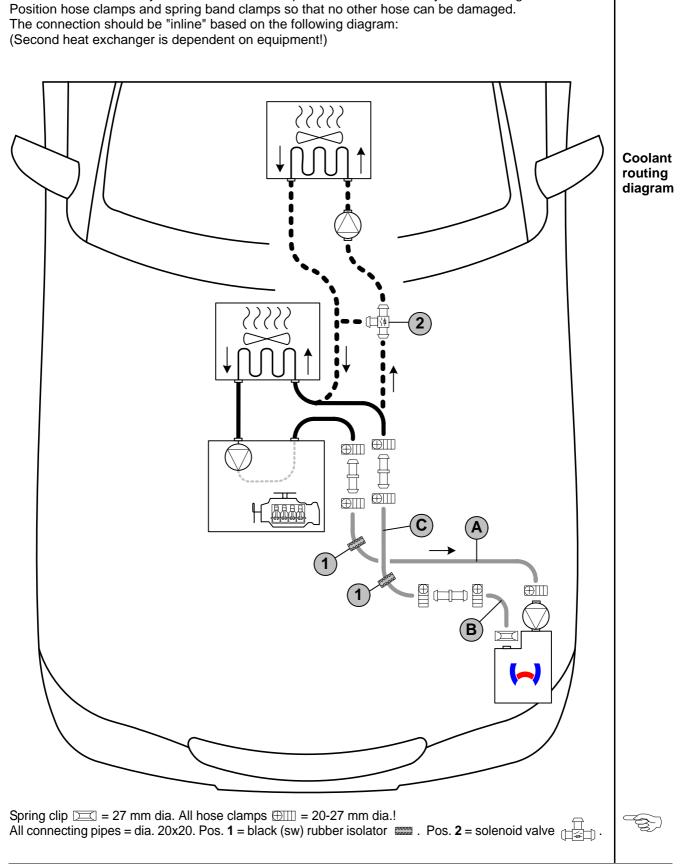
Tighten Ejot screws on heater unit, tightening torque 10 Nm. Connect wiring harness on heater unit.

- Premounted strut
   M10x16 bolt, spring lockwasher in existing threaded hole Installing bracket

Ensure sufficient distance to neighboring components.

- M8x12 bolt in existing threaded hole
   Horn with bracket

Installing horn



#### **Coolant connection**

#### WARNING!

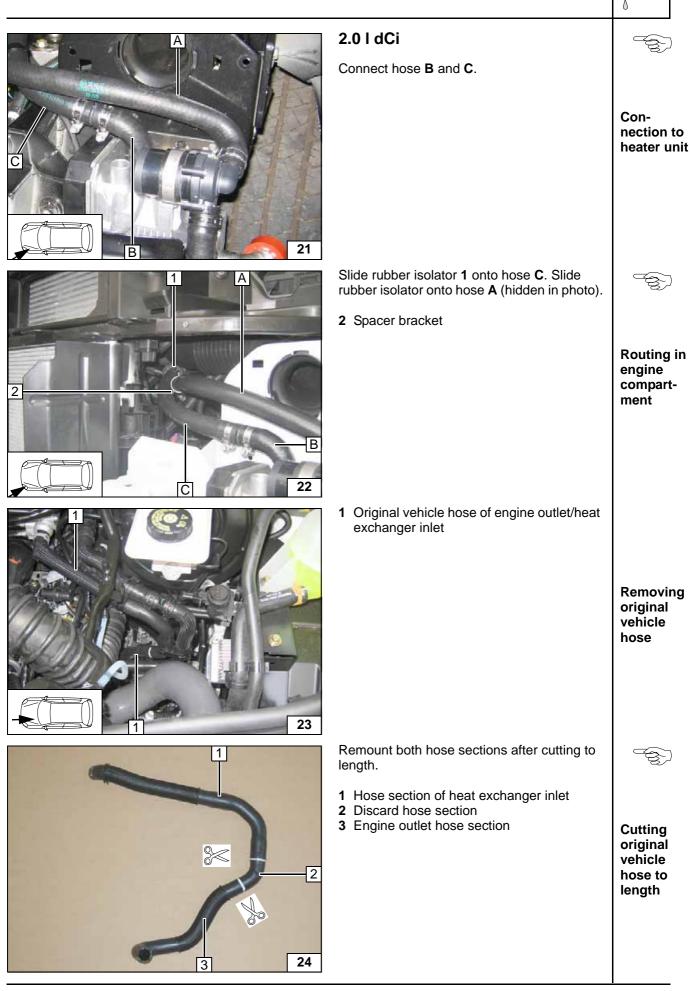
Tighten all hose clamps to 2.0 + 0.5 Nm.

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.



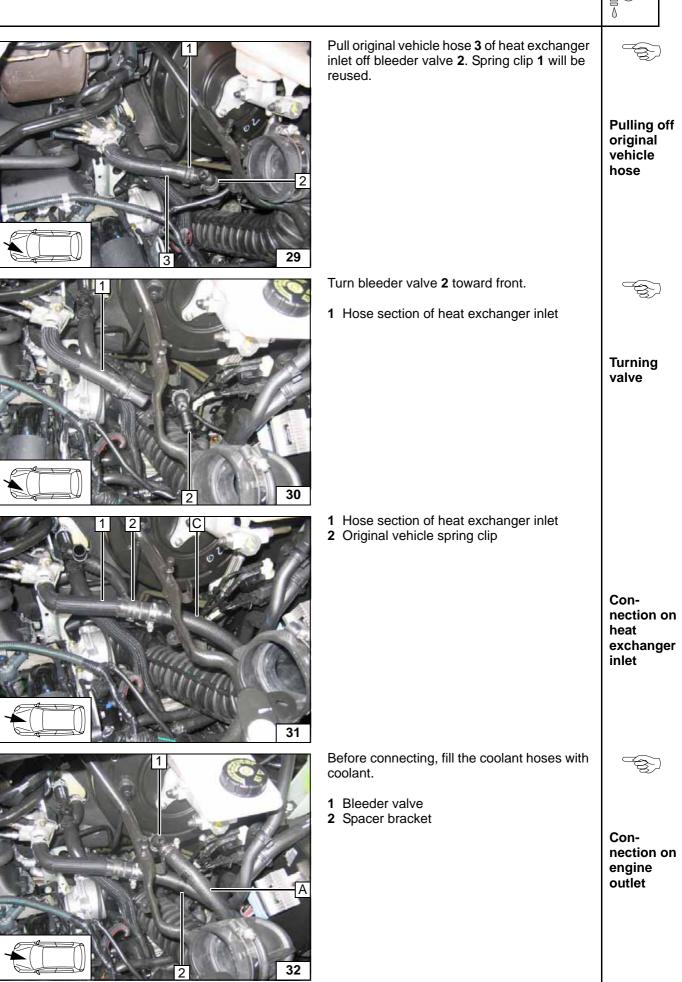


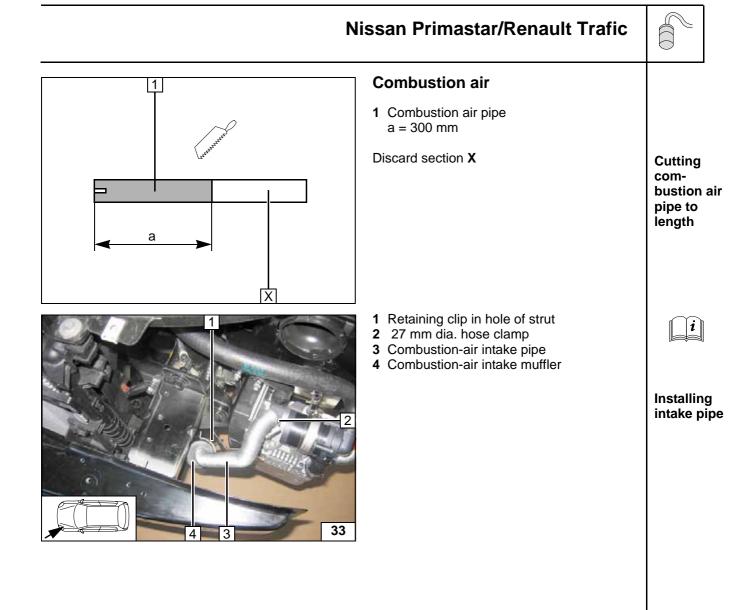


# **Nissan Primastar/Renault Trafic** 1 Engine-outlet hose section Connection on engine outlet 25 Before connecting, fill the coolant hoses with coolant. Position rubber isolator on hose **A** and **C** on original vehicle wiring harness. **1** Hose section of heat exchanger inlet Connection on heat exchanger inlet 26 2.5 | dCi Connect hose **B** and **C**. 1 Spacer bracket Connection to heater unit 27 Slide rubber isolator 1 [2x] onto hose A and **C**. 1 Spacer bracket 2 Cable tie **Routing in** engine compartment 28

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#### **Fuel Connection**

#### CAUTION!

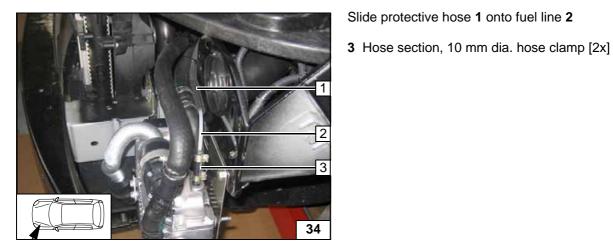
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

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.

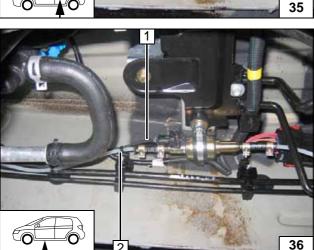


Remove original vehicle bolt at position **1** and discard.

1 Silentblock

Installing

silent block



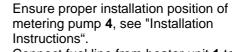
ジャ源一		
State State State	Route fuel line <b>1</b> and wiring harness of metering pump <b>2</b> along original vehicle fuel lines on underbody to installation location of metering pump.	(fig
		Installing lines







Connection to heater unit



Connect fuel line from heater unit **1** to pressure side of metering pump [end with connector].

- 2 Wiring harness of metering pump, singlewire seal, tab connector, connector housing
- 3 Flanged nut

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1

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- 5 Rubber-coated pipe clamp
- 6 Hose section, 10 mm dia. hose clamp [2x]

Disconnect fuel supply line at position **4**. Fuel line **2** on intake side of metering pump [side without connector].

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

- **1** Hose section, 10 mm dia. hose clamp [2x]
- 3 Hose section, 10 mm dia. hose clamp [2x]
  4 8x5x8 fuel standpipe, 10 mm dia. hose clamp [2x]



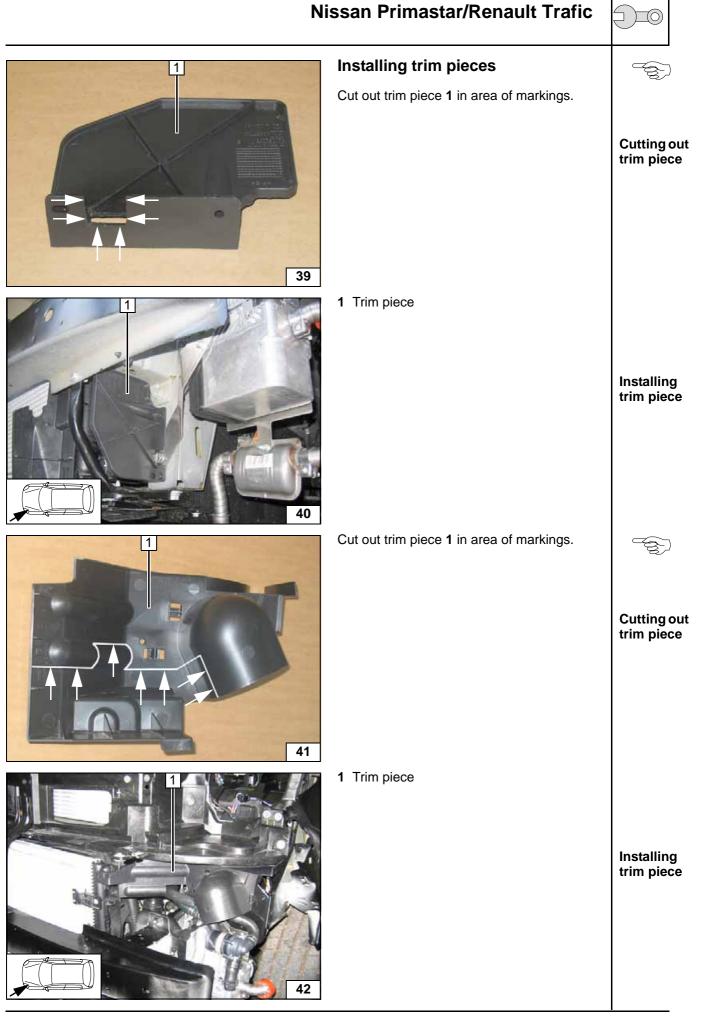
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Installing metering

pump

Removing fuel





#### **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.
- Set the manual air conditioning or automatic air conditioning according to the "operating instructions for the 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.

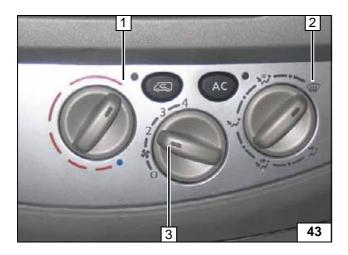
#### Note:

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  $\Im$  heat or in the position Summer  $\Im$ .

Before parking the vehicle, make the following settings:



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

Manual air conditioning