Water Heater Unit



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

Installation Instructions

Dodge Nitro

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	Model		EG-BE No./ABE
DaimlerChrysler (USA)/Chrysler (USA)		Dodge	Dodge Nitro		e4*2001/116*0122*
Engine type Engine model Output in kW Displacement in cm ³					
51C/52C	Diesel		130	2777	

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	Retail accessories with desired heater control	See price list
1	Installation kit for Dodge Nitro Diesel	1312800A

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 Dodge Nitro 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

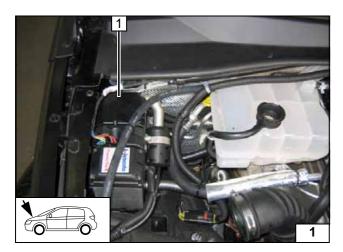
- Torque wrench for 2.0 10 Nm
- Hose clamping pliers
- Metric thread-setter kit

Preliminary Work

WARNING!

- Open fuel tank cap, ventilate tank.
- Close the tank cap again.
- Disconnect the battery "earth" or "ground" connection.
- 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 air filter together with the intake hose.
- Remove the expansion tank of the cooling system.
- Detach the bracket of the hydraulic oil reservoir.
- Remove the right-hand headlight
- Underride protection
- Remove the fuel tank
- Remove the fuel-tank sending unit in accordance with the manufacturers specifications.
- Remove the trim in the right footwell
- Remove the glove compartment.

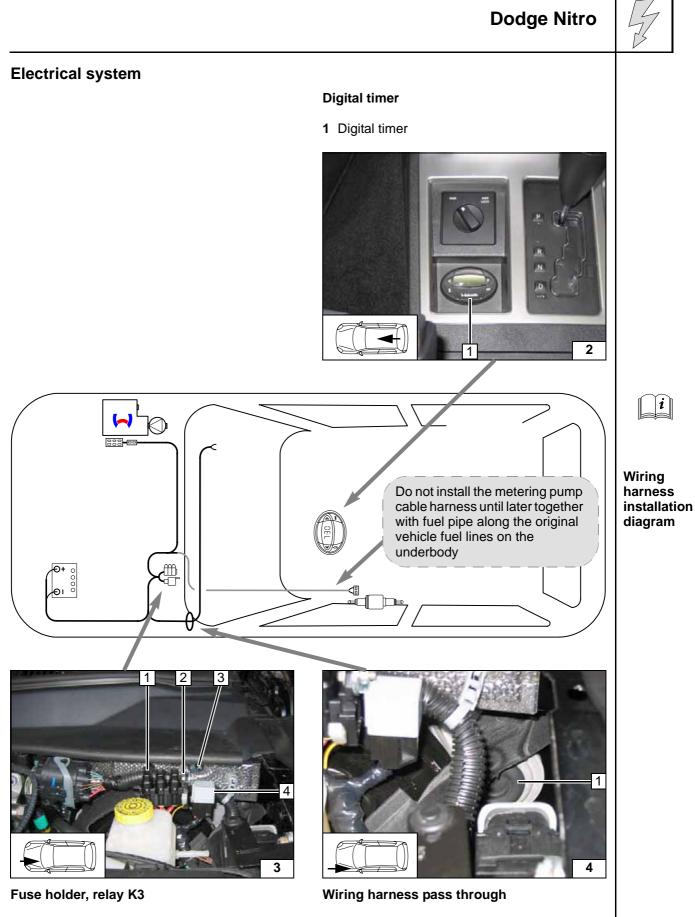
Remove page 24 "Operating Instructions for End Customer" and add to the vehicle operating instructions.



Heater unit installation location

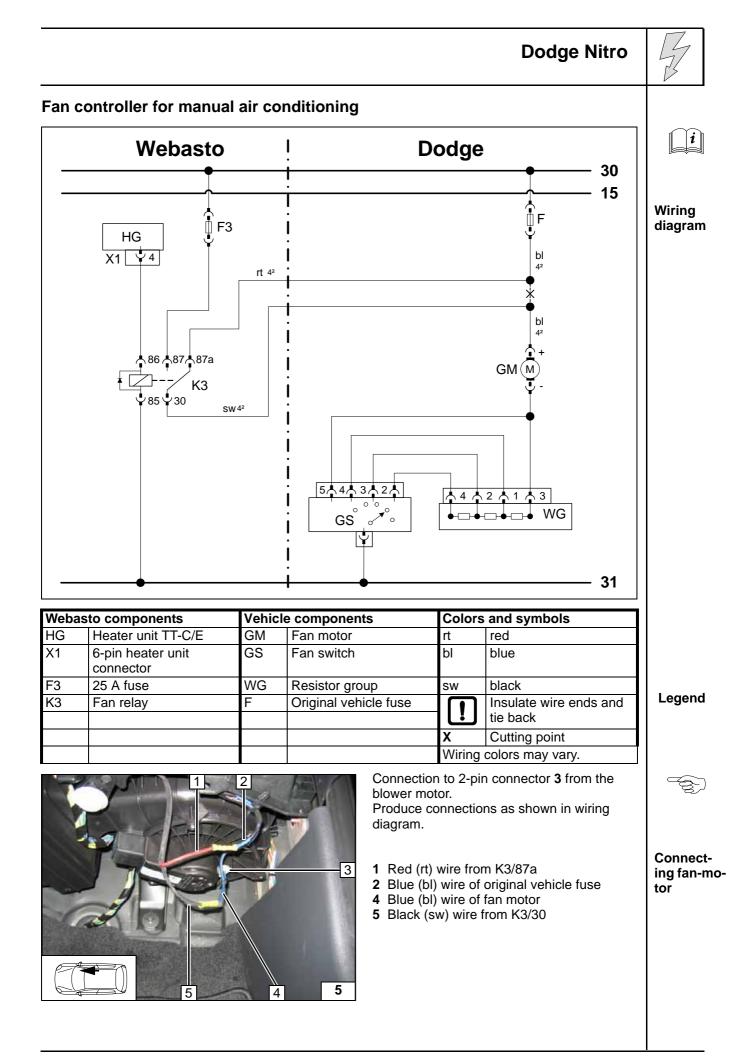
1 Heater unit

Installation location



- 1 Fuse holder
- 2 Retaining plate of fuse holder, M5x16 bolt, washers, angle bracket, K3 relay 4, M5 flanged nut
- 3 Original vehicle nut

1 Protective rubber plug



Remote option (Telestart) i 1 Receiver with adhesive tape on body Installing receiver Installing antenna

Temperature sensor for HTM100 only

1 Fasten temperature sensor with adhesive tape

> Installing temperature sensor

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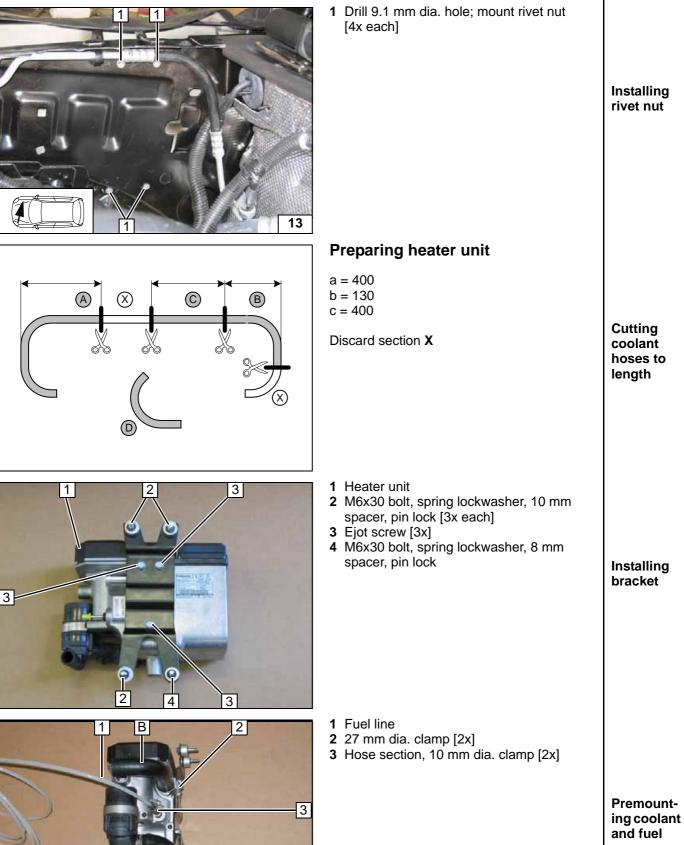
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1 Antenna

	Dodge Nitro	
20	Preparing bracket 1 Bracket	
1		Shortening bracket
	1 7 mm dia. hole [2x]	
4		Drilling bracket
	Preparing installation location	
	Lay on bracket and copy hole pattern 1 [4x].	Copying hole pattern
	Cut out insulating mat 1 generously.	Removing insulating mat

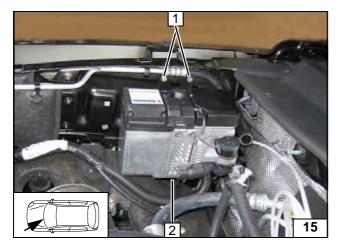
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Installing heater unit

First position premounted heater unit with two lower bolts **2**.

1 Upper fastening point

Installing heater unit

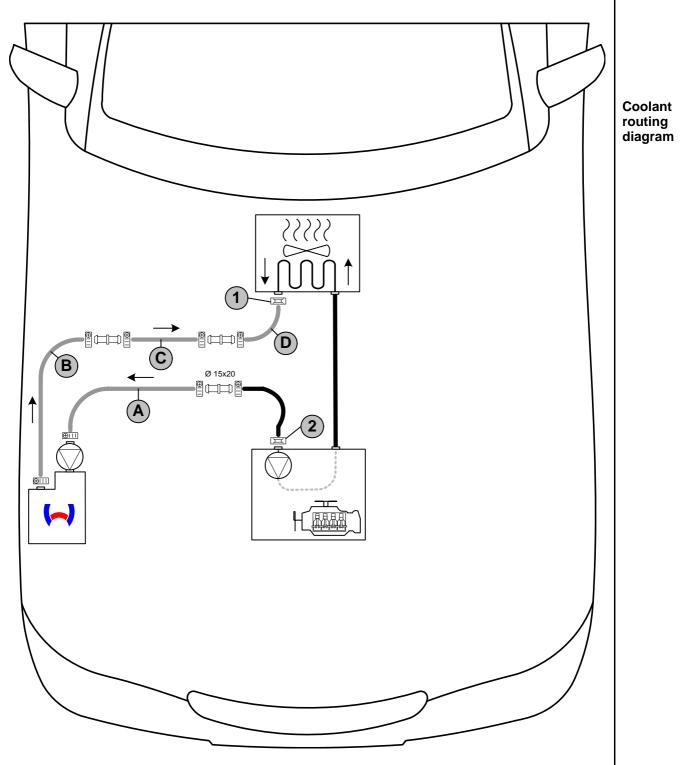
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Coolant connection

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 unit must be filled with coolant.

The connection should be "inline" based on the following diagram:



1 Spring clip $\square = 22$ mm dia. 2 = Original vehicle spring clip. All connecting pipes without a specific designation $\square \square =$ dia. 20x20. All hose clamps without a specific designation $\bigcirc \square \square =$ 20-27 mm dia.

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	Dodge Nitro	
	Remove heat shield and original vehicle hose 1 . This will be reused. Discard clamp on engine outlet.	
		Cutting point
	 Original vehicle hose Original vehicle clamp 	
		Installing original vehicle hose
		Connect- ing engine outlet
	1 Mount original vehicle heat shield	Heat shield of hose A
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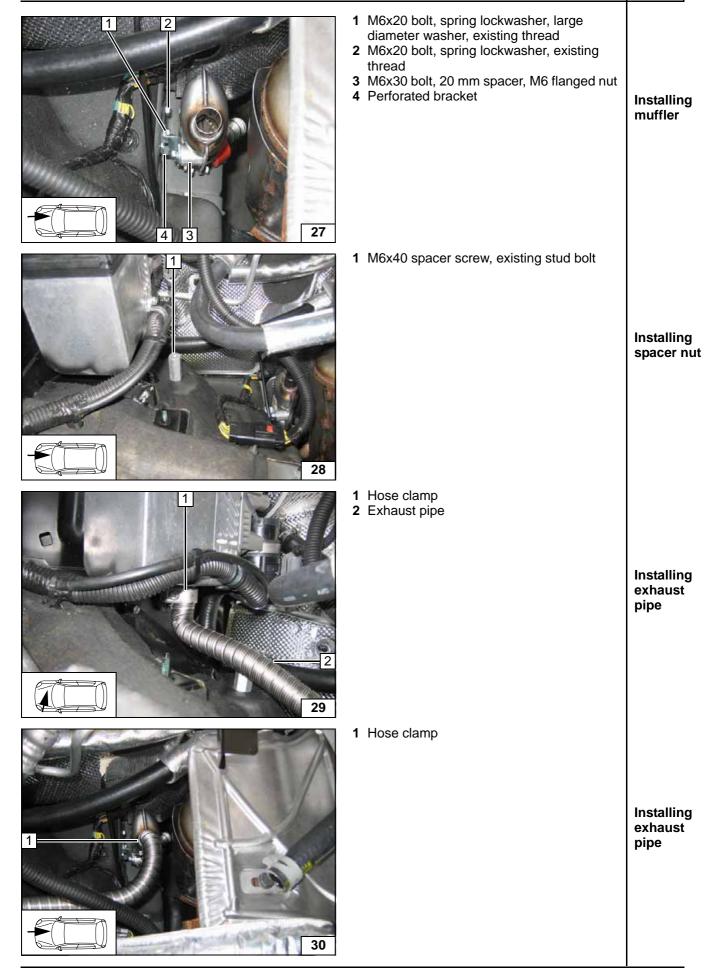
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	Dodge Nitro	
		Shortening hose D
1 Heat shield		Premount- ing hose C and D
		Connec- tion on heat ex- changer in- let
		Connec- tion to heater unit

Dodge Nitro	
 Exhaust gas 1 Exhaust pipe a = 450 2 Exhaust end section b = 450 Discard section X 	Preparing exhaust pipe
 Ejot screw 18 mm dia. rubber-coated p-clamp Original vehicle wiring harness 	Fastening wiring harness
 Perforated bracket prepared Perforated bracket angled down 	Angling down perforated bracket
 Muffler Exhaust end section Position red (rt) rubber profile Hose clamp 	Preassem- bling muf- fler

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- 1 M6x20 bolt, spring lockwasher2 P-clamp

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Fastening exhaust pipe

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1 Push on red (rt) rubber isolator and position

Installing exhaust end section

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Fuel

CAUTION!

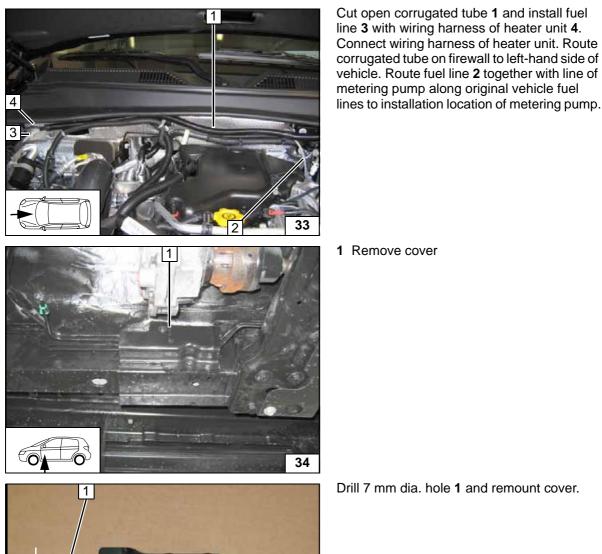
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

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.



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Installing lines



Installation location of metering pump

Drilling cover



1 Metering pump 2 Rubber-coated p-clamp, silent block, flanged nut [2x]

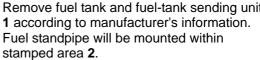


Installing metering pump

Check the position of the components; adjust

Connecting to metering pump

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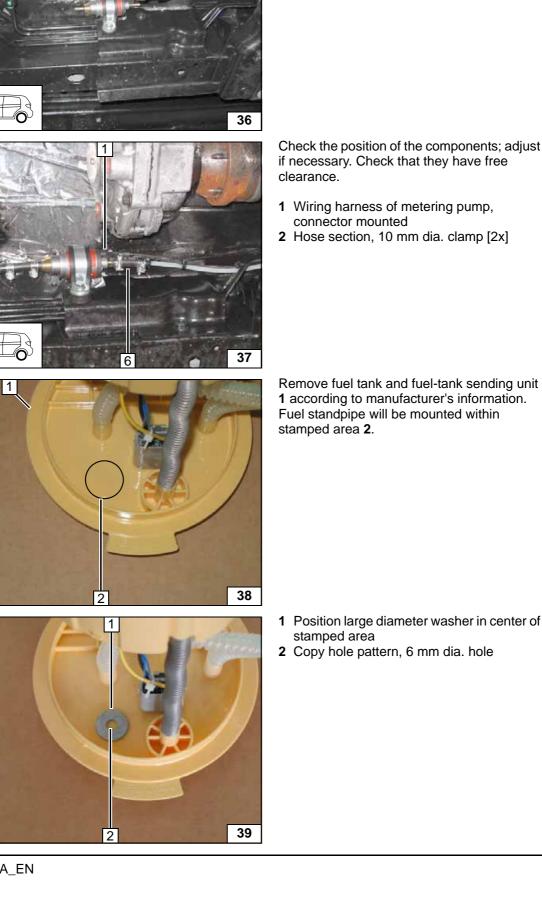


Removing fuel

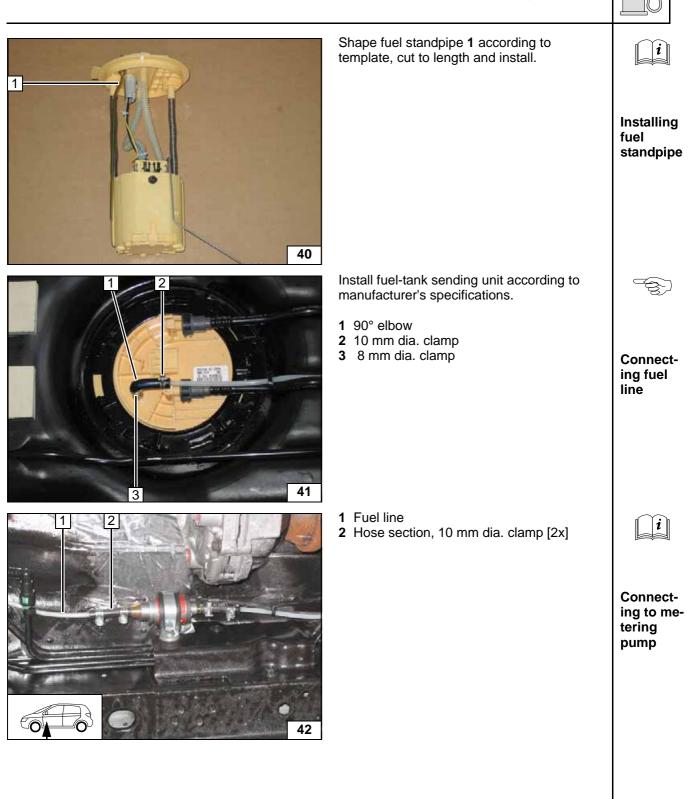
1 Position large diameter washer in center of stamped area

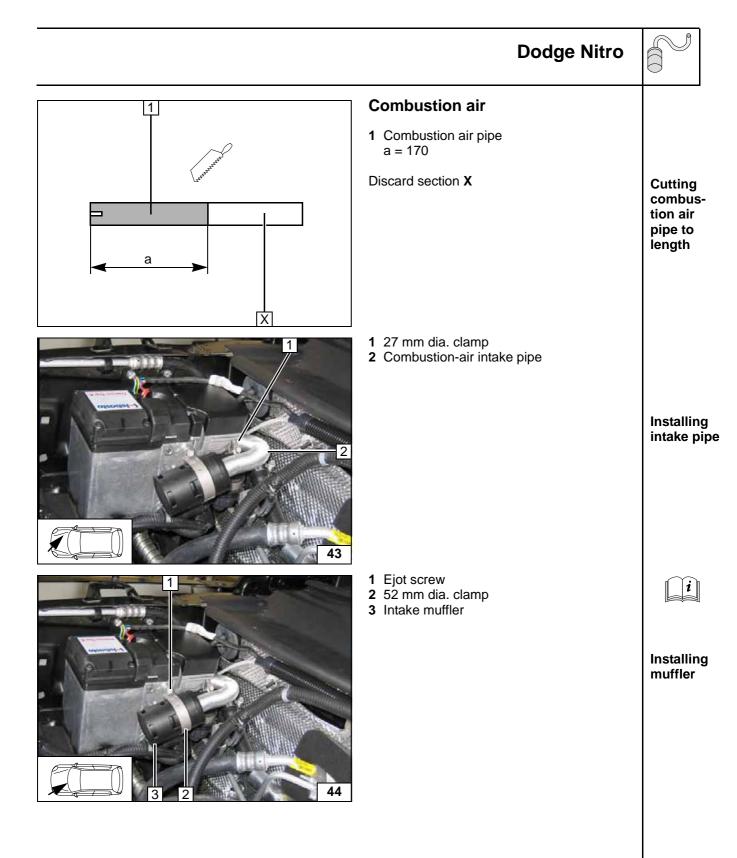


Removing fuel



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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 on A/C control panel 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. 	r".
 1 Underride protection 2 42 mm dia. hole 	Cutting out underride protection
Cut out insulation 1 in area of hole.	Cutting out insulation
Align exhaust end section 2 flush on red rubber isolator 1.	Mounting rubber isolator

- 1 Punch through perforation, mount cable tie with clip
- 2 Coolant hose

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Fastening coolant hose

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Printed in Germany

01/2008

Printing: Steffen

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.

Before parking the vehicle, make the following settings:



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

Manual air conditioning

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Template for Fuel Standpipe

