INSTALLATION RECOMMENDATION
PLUGTRONIC
Peugeot Boxer/Citroen Jumper 3.0 Diesel 2016 – (TH13) V.2



THIS INSTALLATION RECOMMENDATION APPLIES TO VEHICLES FROM PRODUCTION YEAR 2016 TO THE UPCOMING MODEL CHANGE.

3,0 cc Diesel Engine



OPTIONS

- Fog lights
- Headlight washer
- Automatic aircondition
- Automatic transmission
- Manual transmission

Installation time approx. 3 hours

CONTENTS

CHAPTER	DESCRIPTION	PAGE
1	Introduction	3
2	Preparation	6
3	Installation	12
4	Battery charger(Option)	18
5	Heater fan / Climate Control	19
6	After installation	21

PLEASE NOTE!

This installation recommendation is valid for the above mentioned vehicle to the exclusion of all liability claims.

Deviating model years and/or deviating equipment may result in modifications to this installation recommendation.

It is therefore mandatory to check the feasibility of installing the heater in the vehicle before starting work.

All liability claims resulting from modifications to the vehicle are excluded.

1 INTRODUCTION

SPECIAL TEXT FORMATS, PRESENTATIONS AND PICTURE SYMBOLS

In this installation recommendation, special text formats and picture symbols are used to emphasize different contents. Please refer to the following examples for their meanings and appropriate action.

SPECIAL TEXT FORMATS AND PRESENTATION

- This dot (•) denotes a list, which ist started by a heading.
  - If an indented dash (-) follows a «dot», this list is a sub- section of the black dot.

PICTURE SYMBOLS

DANGER!
This information points out a potential serious or fatal danger. Ignoring this information can result in severe injuries.

→ This arrow refers to precautions that can be taken to reduce the danger.

CAUTION!
This information points out a dangerous situation for a person and / or the product. Ignoring this information can result in injuries to people and / or damage to machinery.
→ This arrow refers to precautions that can be taken to reduce the danger.

PLEASE NOTE!
These remarks contain recommendations for use and useful tips for the operation, installation and repair of the heater.

ACCIDENT PREVENTION

General accident prevention regulations / health and safety regulations and the corresponding workshop, company and operating safety instructions are to be observed.

SAFETY INTRODUCION FOR INSTALLATION AND REPAIR

DANGER!
Improper installation or repair of Eberspächer heaters can cause a fire or result in toxic exhaust entering the inside of the vehicle.
This can cause serious and even fatal risks.

→Only authorized and trained persons may install the heater according to the specifications in the technical documents or repair it using original spare parts.

→Installation and repairs by unauthorized and untrained persons, repairs using non-original spare parts and without the technical documents required for installation and repair are dangerous and therefore are not permitted.

→Installation according to this installation recommendation may only be carried out in conjunction with the respective unit-related technical description, installation instructions, operating instructions and maintenance instructions. This document must be carefully read through before / during installation and repair and followed throughout. Particular attention is to be paid to the official regulations, the safety instructions and the general information.

PLEASE NOTE!
- The relevant rules of sound engineering practice and any information provided by the vehicle manufacturer are to be observed during the installation and repair.
- When carrying out electric welding on the vehicle, the positive cable at the battery should be disconnected and earthed to protect the control box.

LIABILITY CLAIM / WARRANTY

Eberspächer does not accept any liability for defects and damage, which are due to installation or repair by unauthorized and untrained persons. Compliance with the official regulations and the safety instructions is prerequisite for liability claims. Failure to comply with the official regulations and safety instructions leads to exclusion of any liability of the heater manufacturer.

1 INTRODUCTION

ADDITIONAL INFORMATION ON THE ALIDITY OF THE INSTALLATION RECOMMENDATION

The installation recommendation is valid for the vehicle with the engine and gearbox options listed in the following.

ENGINE AND GEARBOX OPTIONS

Cc	kW / hk	Transmission
3,0	130 KW	Manuell

5 S = 5 gear manual box
6 S = 6 gear manual box

PLEAS NOTE!

- The installation recommendation is not valid for right-hand drive vehicles.
- Vehicle models, engine types and featurs options not listed in this recommendation, have not been tested. Installation acccording to this installation recommendation can still be possible

INITIAL STARTUP OF THE HEATER OR FUNCTIONAL TEST

- After installation or carrying out a repair on the heater, the coolant circuit must be carefully vented.
  Comply with the instructions issued by the vehicle manufacturer
- Open all heating circuits before the trial run (set the temperaturecontroller to "hot").
- During the heater trail run, all water connections must be checked for leaks and secure, tight fit.
- If a fault occur while the heater is running, use a diagnostic unit to correct the cause of the fault.

PARTS REQUIRED FOR INSTALLATION

QUANTITY	DESCRIPTION	PART NO.
1	Plugtronic Standard	Partno. depending on country.
	EU/SWE	29.2498.89.0006
	NO	29.2498.89.0040
	DK	29.2498.89.0013
1	Plugtronic Cable 0,5M	2480046
1	Plugtronic Adapterkit	29.2498.89.0021
	OPTION	
1	Plugtronic Batterycharge	29.2498.89.0038

SPECIAL TOOLS REQUIRED

- Torque wrench (5…50 Nm)
- Anti-corrosion agent
- Pliers for spring band clamps
- Crimping tool
- Step drill

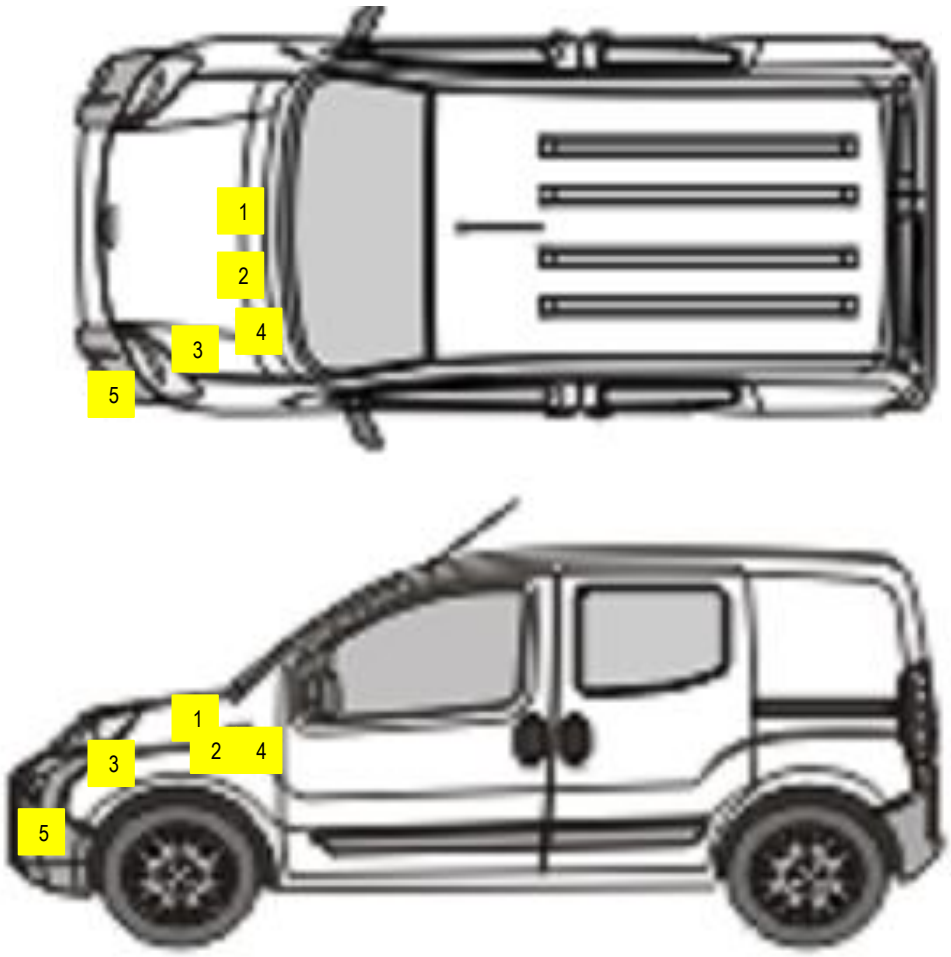
TIGHTENING TORQUES

If no tightening torques are specified, tighten the screw connections according the following table:

BOLT SIZE	TIGHTENING TORQUE
M4	$3^{+0,5}$ Nm
M5	$5^{+0,5}$ Nm
M6	10^{+1} Nm
M8	20^{+2} Nm
M10	45^{+2} Nm
TRX M6	$6^{+0,5}$ Nm
Hoseclamp	$3^{+0,5}$ Nm

1 INTRODUCTION

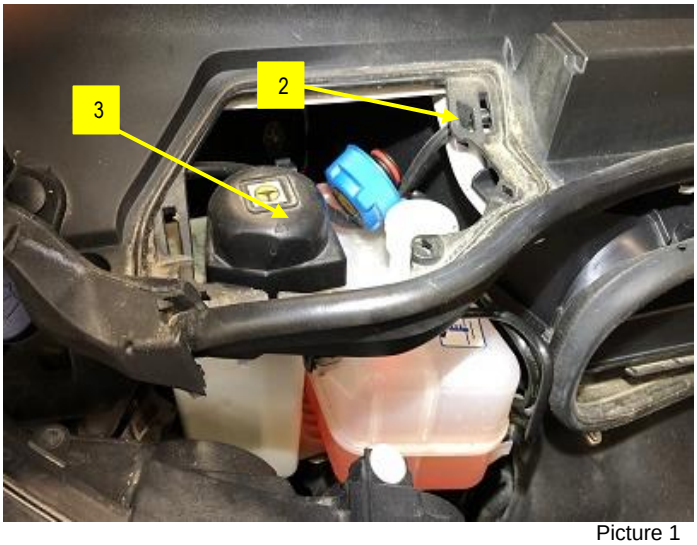
INSTALLATION OVERVIEW



1. Plugtronic heater
2. Waterpump
3. Battery charger
4. Cable grommet
5. 230V connection plug

2 PREPARATION

1. Diconnect battery.
2. Dismantle lid over colant reservoar.
3. Release pressure from coolingsystem.



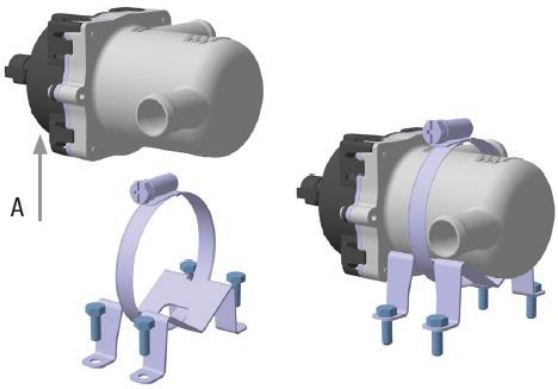
Picture 1

Picture of Heater and Waterpump assembly parts.



Picture 2

Install the Plugtronic in the mounting bracket.



Picture 3

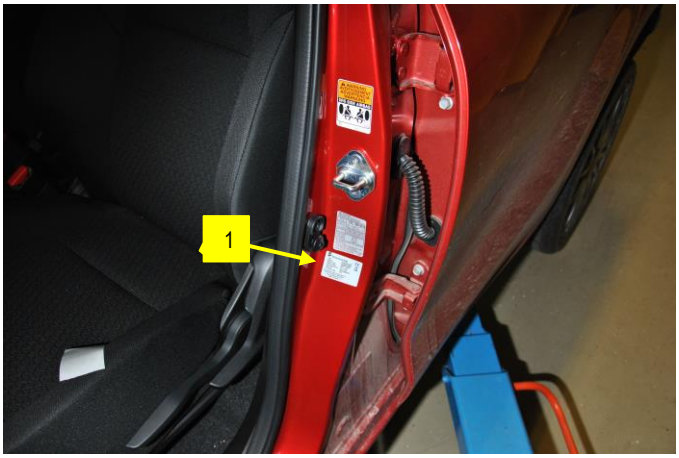
2 PREPARATION

Assembly the waterpump with mounting rubber.



Picture 4

Affix the heaters duplicate nameplate (1) to the B-column in a clearly visible position.



Picture 5

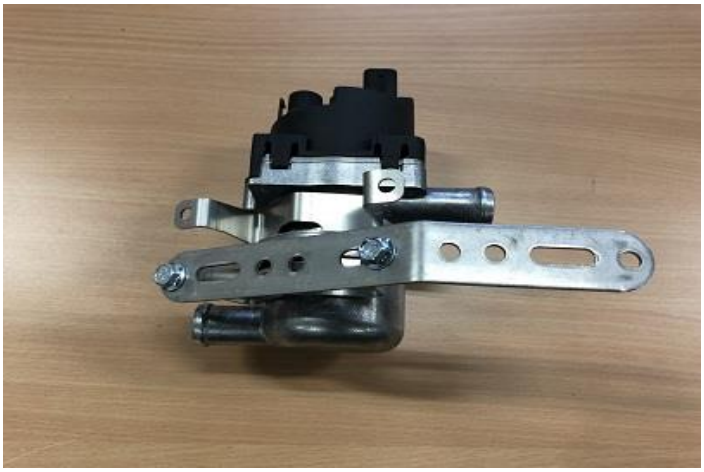
Bend the bracket according to the picture.



Picture 6

2 PREPARATION

Install bracket on the heater according to the picture.



Picture 7

Bend the second Bracket 90’ According to the picture.

(Waterpump mount, to be used in picture 16.)



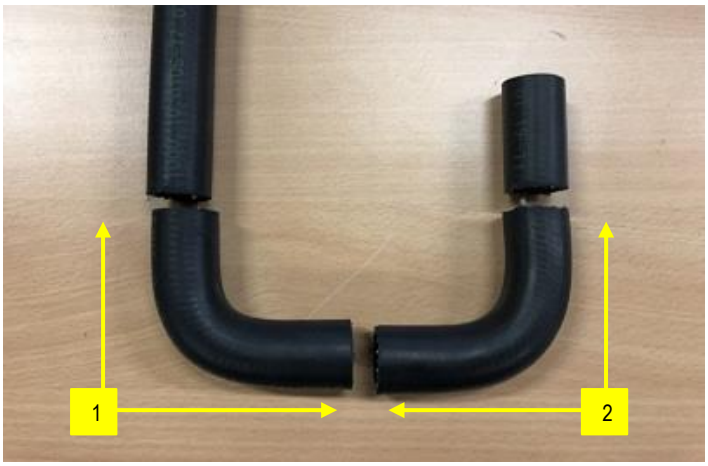
Picture 8

2 PREPARATION

WATER HOSES:

Cut the hose according to measurement below.

1. 60 - 100 mm
2. 60 - 100 mm



Picture 9

Connect the two 60-100mm Hoses together with the 100mm sides. Connect with connectionpipe Ø20/20mm and secure with hose clamps as shown in the picture.

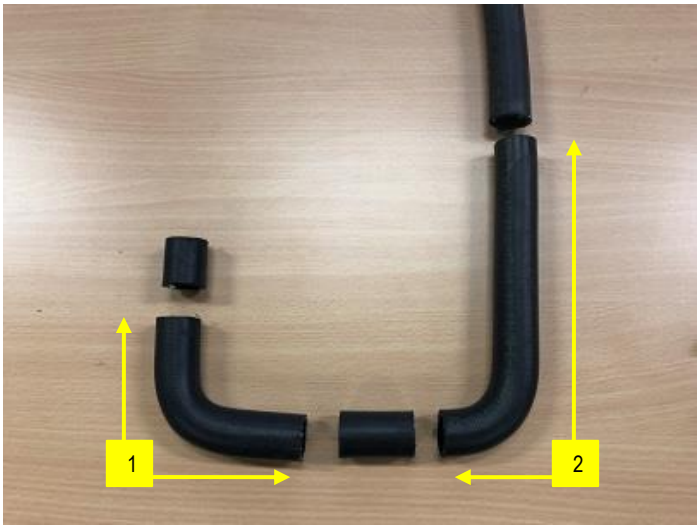
Mount an Ø18/20 connection pipe at one of the ends.(1)



Picture 10

Cut the hose according to measurement below.

1. 85 – 85 mm
2. 50 – 200 mm



Picture 11

2 PREPARATION

Mount the 2 hoses on the waterpump as shown here.



Picture 12

Mount the hoses and the waterpump together with the Plugtronic as shown here, secure with hose clamps.

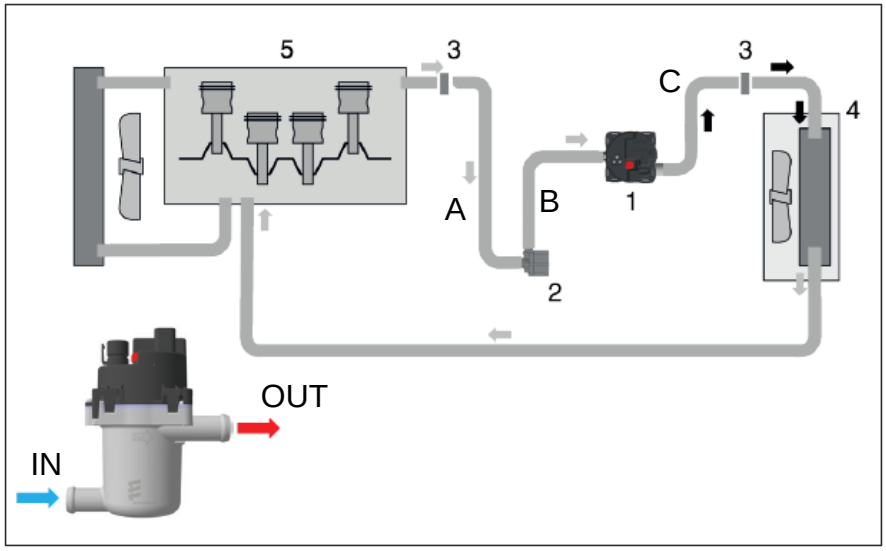


Picture 13

2 PREPARATION

WATER CIRCUIT

1 Plugtronic Heater
2 Waterpump
3 Water connections
4 Vehicle Heatexchanger
5 Engine
A Water hose
B Water hose
C Water hose



3 INSTALLATION

Remove engine lift bracket (1)



Picture 14



Picture 15

Mount the 90’ bracket from picture 8 with the original nut as shown in this picture.



Picture 16

3 INSTALLATION

Lokate the stud on the torpedo wall.



Picture 17

Mount heater and waterpump assembly according to picture.



Picture 18

Block the water hose inlet to HVAC heatexchanger element.



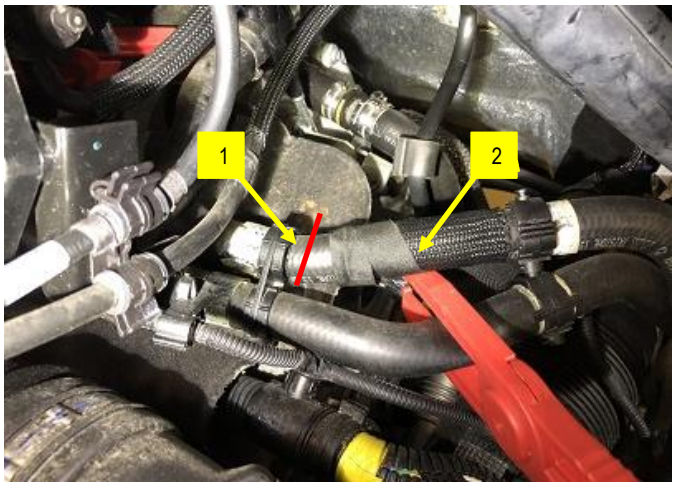
Picture 19

3 INSTALLATION

Block the return hose according to picture.

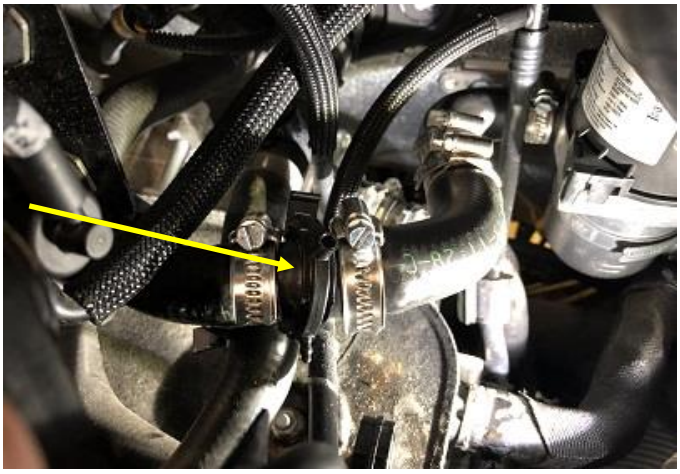
Cut inlet hose att marking. (1)

Remove hose from pipe and discard. (2)



Picture 20

Connect hose from heater to the inlet hose.
Mount the plastic clips hose support between outlet and heater hose.



Picture 21

Mount waterpump to the 90’ bracket and connect to steel pipe.



Picture 22

3 INSTALLATION

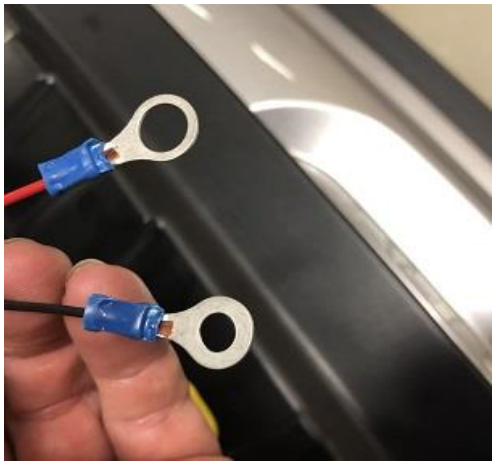
⚠ **CAUTION!**
Pay attention so the water hose does not rub against vacuum hose of the brake assist. If necessary make some adjustments.



Picture 23

Cut cable loom to estimated length and attach cable shoes:

- Ø8mm to red (+)
- Ø6mm to black (+)



Picture 24

Demount the fusebox lid in the engine compartment.
Connect the (BAT +) lead to the accessorie stud.



Picture 25

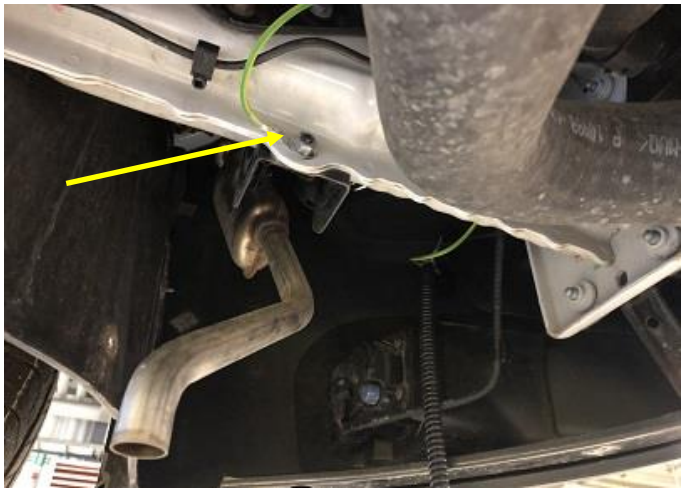
3 INSTALLATION

Connect the (GND –) lead to the bracket nut showed in picture.
Wrap up all excessive cables and attach it in the clamp as showed in this picture.



Picture 26

Ground the 230Volt socket (Yellow/Green cable) in existing bolt for heater exhaust.



Picture 27

Drill the hole for cable socket according to picture.
Make sure it clears the bumper steel insert.

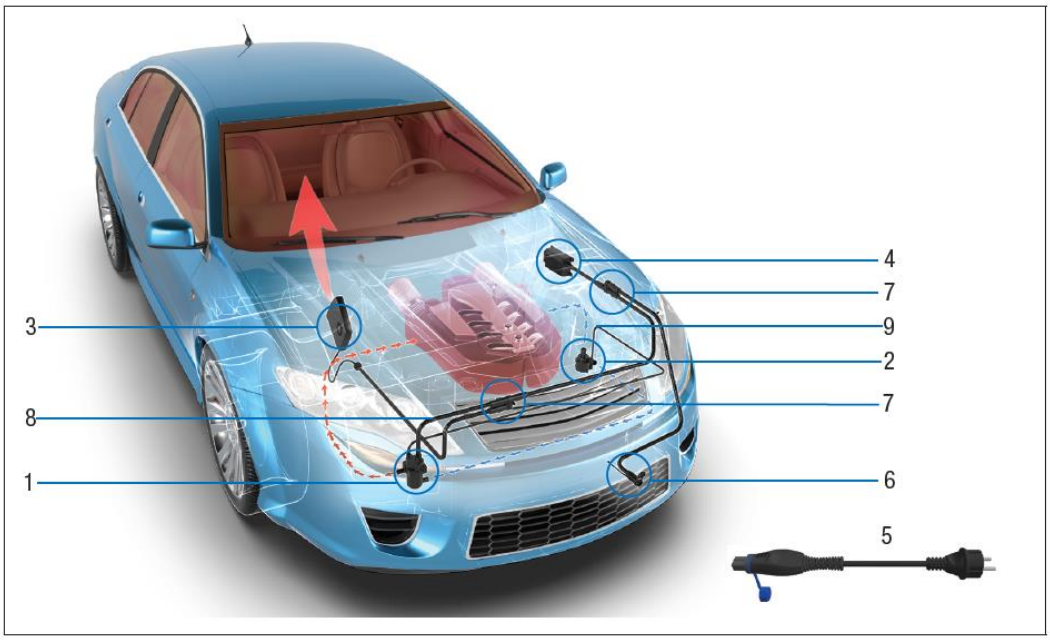
CAUTION!
Check inside before drillig. Make sure there is no risk of damaging other components



Picture 28

3 INSTALLATION

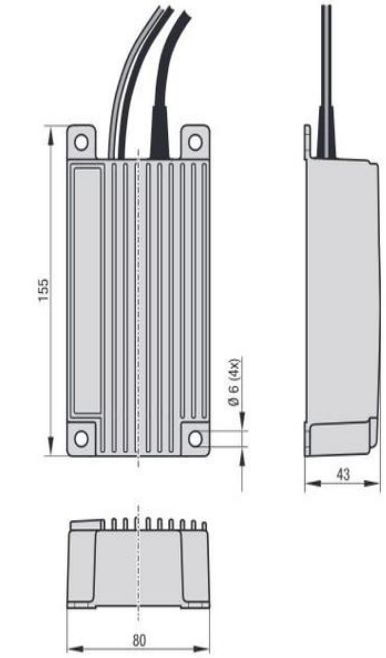
Install the 230Volt cables and components according to the Plugtronic technical docomentation.



1 Engine heater
2 Water pump
3 Compartment heater
4 Battery charger
5 Connection cable
6 Inlet cable
7 Split contact
8 Extension cable
9 Pump cable

4 BATTERY CHARGER (Option)

- A Battery charger is possible to add to the system
- Part no. 292498890038 add on kit for 12V plugtronic.







Install the batterycharger in an suitable area inside the enginecompartment.

5 HEATER FAN / CLIMATE CONTROL

Locate the rubber gromet on the bulkhead.
Carefully cut a hole and insert the cable for the compartment heater.



Bilde 12

Disconect the fusebox inside the car and get axess to the bulkhead.
Route the cable down and tie it properly away from the pedals and assure that it can connect to the compartment heater.



Bilde

Make sure to seal the gromet properly with silicone from the inside.



Bilde

5 HEATER FAN / CLIMATE CONTROL

- Drill holes through the compartment lid with help of the drill template.
- Mount the compartment heater in a way that the airflow is not directed to the seats.



Bilde

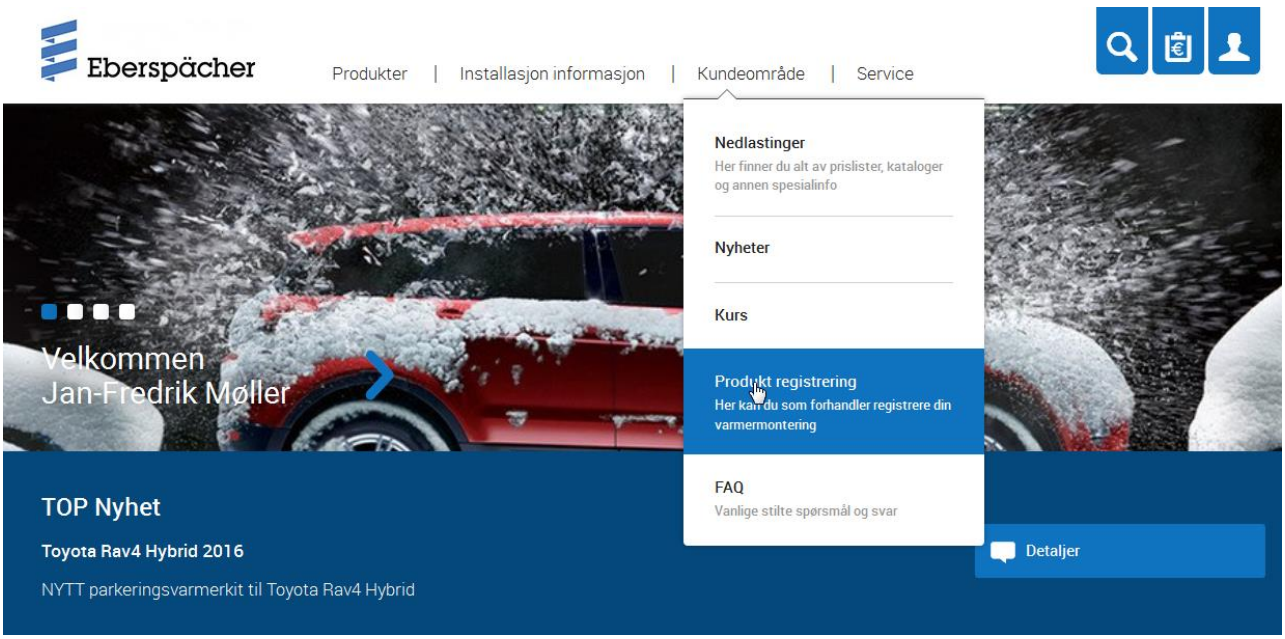
6 AFTER INSTALLATION

COMPLETE THE VEHICLE



- ✓ Install all the removed parts in the reverse order.
- ✓ Reconnect the battery
- ✓ Check that the hoses, hose clips, and pipe clamps as well as all electrical connections are fitted securely
- ✓ Use cable ties to secure all loose cables, lines, etc.
- ✓ Restore all the vehicle's programmed settings (radio, window lift, etc.)
- ✓ Fill the cooling system, start the engine, vent the cooling system and check for leaks, to up any missing cooland liquid.
- ✓ Please also note and follow the vehicle manufacturer's information on filling and venting the cooling system.
- ✓ Read and observe all official regulations and safety instructions in the Technical Description.
- ✓ Do a test run and check for leaks

REGISTER THE HEATER IN THE PARTNERPORTALE!



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