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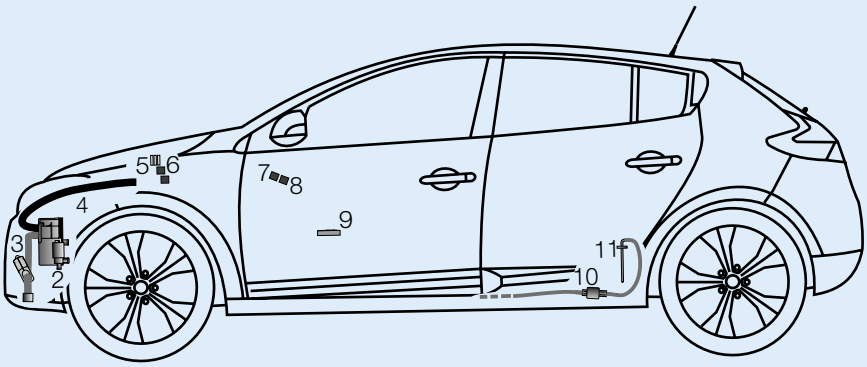
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HYDRONIC D 4 W S in Renault Mégane III (BZ)

from 2008, model 2009
with automatic 2-zone AirCon
with gearbox
with front fog lamps
- **1.9 l cubic capacity / 4 cylinder in-line engine / 96 kW - 130 HP (dCi)**

This installation recommendation is valid for the vehicle described above and is exempt from any liability claims whatsoever. Depending on the version or modification status of the vehicle, differences can result between the vehicle and this installation recommendation.
The installer must check this before installation and, if necessary, take into account the differences compared to this installation recommendation.



1	*HYDRONIC* D 4 W S	7	IPCU module
2	Water pump	8	Additional relay
3	Exhaust pipe with exhaust silencer	9	EasyStart T
4	Combustion air tube	10	Metering pump
5	Fuse bracket	11	Fuel tank extractor
6	Fan relay / Relief relay		

Installation location
HYDRONIC D 4 W S is fastened to the front left corner of the engine compartment.
The exhaust connection faces forwards and the control box upwards.

Installation time: approx. 8 h

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1 Introduction

Important!
Safety instructions for installation and repair!

Improper installation or repair of Eberspächer heaters can cause a fire or result in poisonous exhaust fumes entering the vehicle interior.
This can pose a serious risk to life and limb.

The heater may only be installed according to the specifications in the technical documents and repaired using original spare parts by authorised and trained persons. Installation and repairs by unauthorised and untrained persons, repairs using non-original spare parts and without the technical documents required for installation and/or repair are dangerous and are therefore not permitted.

Please note!

Installation according to this installation recommendation may only be carried out in conjunction with the respective unit type-related technical description, installation instructions, operating instructions and maintenance instructions.
This document must be carefully read through before / during installation and followed throughout.
Particular attention is to be paid to the safety instructions and the general information.
The relevant rules of sound engineering practice and any information provided by the vehicle manufacturer are to be heeded during the installation.
Eberspächer does not accept any liability for defects and damage due to installation by unauthorised and untrained persons.

Accident prevention

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

Installation recommendation validity

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

Engine and gearbox options		
Cubic capacity	kW / HP	Gearbox
1.9 l dCi	96 / 130	6S

6S = 6-gear manual gearbox

Please note!

The installation recommendation is not valid for right-hand drive vehicles.

Vehicle types, engine types and feature options not listed in this installation recommendation have not been tested. Installation according to this installation recommendation can still be possible.

1 Introduction

Parts required for installation

Quantity	Designation	Order No.
1	*HYDRONIC* D 4 W S as complete kit	25 2418 05 00 00
1	Vehicle-specific additional parts	24 8388 00 00 00

In addition, a control is required:

1	EasyStart T timer	22 1000 32 88 00

or

1	EasyStart R radio remote control	22 1000 32 85 00

or

1	EasyStart R+ radio remote control	22 1000 32 80 00

In addition, to be ordered from Renault

1	Locking ring for tank fitting	Renault No. 77.01.207.449

Special tools required

- Torque wrench (5....50 Nm)
- Anti-corrosion agent
- Ejector tool for plug-in contacts
- Step drill
- Spanner for union nut of the tank fitting

Tightening torques

If no tightening torques are specified, tighten the screw connections (hexagon screw and hexagon- nut) according to the following table.

Screwed connections	Tightening torques
M6	10 Nm
M8	20 Nm
M10	45 Nm

Fit all screwed connections, except those of the heater itself (M6 x 97), with a circlip (corrugated ring washer) or a split washer.

Preparation on the vehicle

- Disconnect the battery
- Remove bottom left-hand instrument panel covering
- Remove the AirCon control
- Tip rear seat bench forwards
- Remove battery and battery holder
- Remove top engine panelling
- Remove bottom engine panelling
- Remove front bumper
- Remove front left and right wheel arch housing
- Depressurise the cooling system
- Drain coolant into a clean container

2 Installation - Heater

Prepare the installation position
(see photos 1 and 2)

Cut off the fastening clip at the intake air pipe as shown in the photo.
The fastening clip is no longer required.

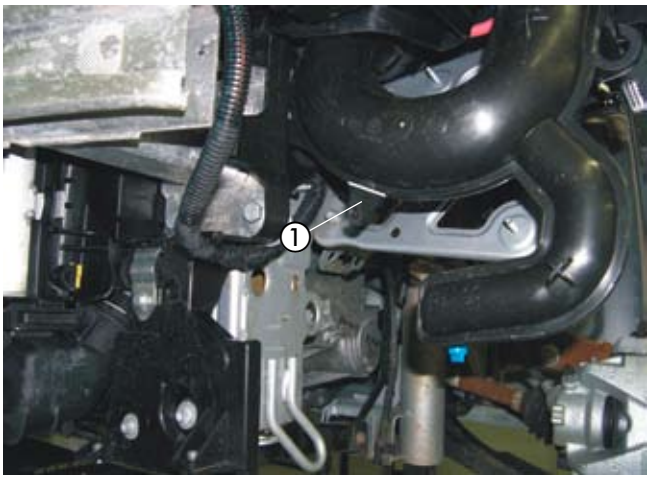


Photo 1

① Fastening clip cut off at the intake air pipe

The existing 6 mm Ø threaded holes are used to fasten the holders (Z-brackets).

Make a 6.5 mm Ø hole in the plastic covering of the left chassis beam according to the dimensions in the photo.

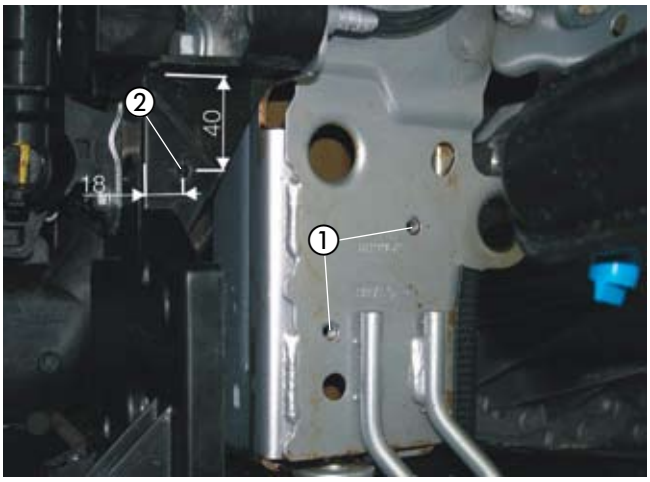


Photo 2

① Existing 6 mm Ø threaded holes
② 6.5 mm Ø hole, drilled

Install unit holder
(see photos 3 to 6)

Mount three holders (Z-brackets) to the existing 6 mm Ø threaded holes and to the drilled 6.5 mm Ø hole, using an M6 x 16 screw in each case.

Align the holders (Z-brackets) as shown in the photo.

Fit the edge protection to the left chassis beam as shown in the photo.

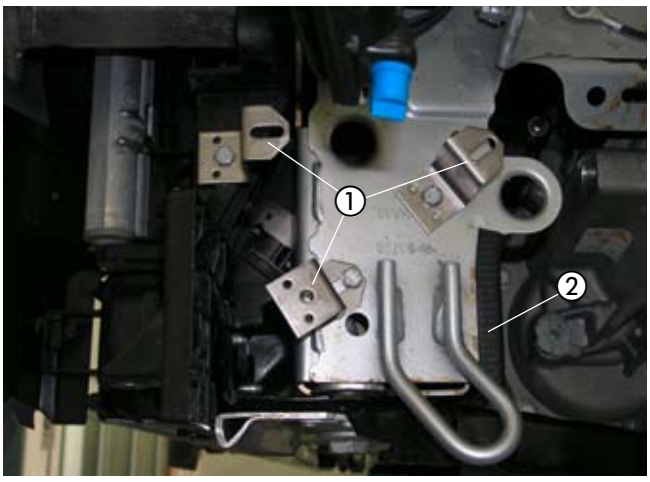


Photo 3

③ 3 x holders (Z bracket), installed
② Edge protection fitted to the chassis beam

Fasten holder 22 1000 50 75 00 to the lower holder (Z bracket) using an M6 x 16 screw.

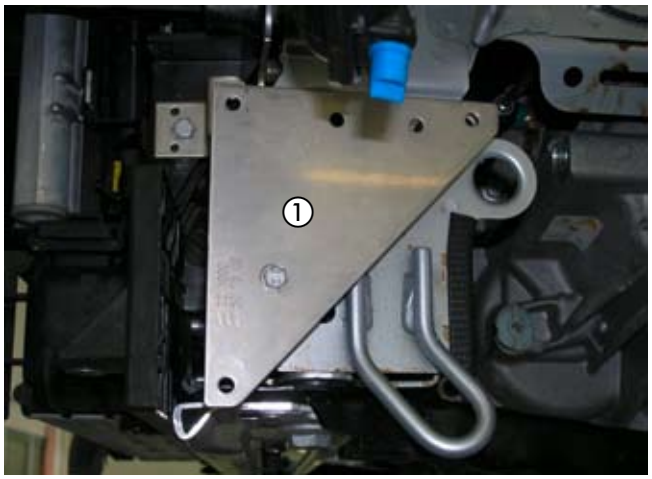


Photo 4

① Holder 22 1000 50 75 00, installed

Prepare the unit holder as shown in the photo. To do so, cut off the upper right fastening clip.



Photo 5

① Prepared unit holder

Mount the prepared unit holder to the holder 22 1000 50 75 00 and to the two upper holders (Z-brackets) using three M6 x 16 screws.



Photo 6

① Unit holder, installed

2 Installation - Heater

Prepare and install the heater
(see photos 7 to 9)

Install the elbowed water pipe sockets of the heater as shown in the photo, see Technical Description, "Installation" chapter, "Installation of the elbowed water pipe sockets" section.



Photo 7

① Elbowed water pipe sockets, installed

Insert the water pump in the rubber holder.

Mount the holder 22 9000 50 70 02 to the rubber holder of the water pump using the M6 x 20 screw and a B6 body washer as shown in the photo.



Photo 8

① Holder 22 9000 50 70 02 mounted to the rubber holder

Remove the duplicate nameplate from the heater.
Deface the inapplicable dates to make them illegible.
Attach the duplicate nameplate in a suitable, clearly visible position in the engine compartment.

Fasten the heater in the lower threaded hole of the unit holder together with the prepared water pump, using the M6 x 97 screw and applying $6^{+0.5}$ Nm.

The water pump intake connection faces downwards and the discharge connection faces to the right.

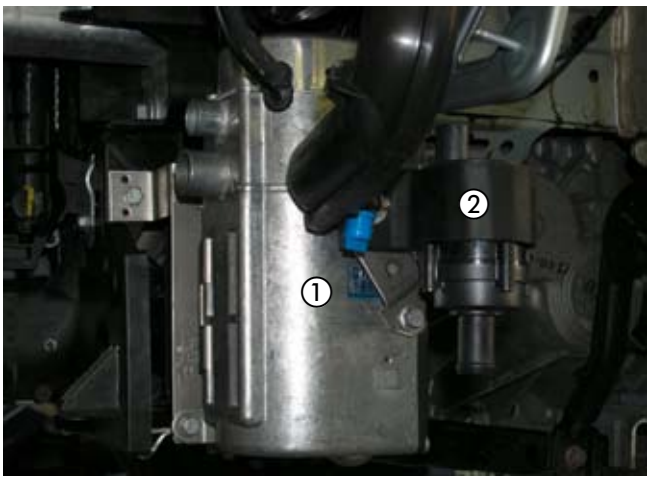


Photo 9

① Heater, installed
② Water pump with holder 22 9000 50 70 02, mounted

Install and connect exhaust silencer 22 1000 40 09 00
(see photos 10 to 14)

On the exhaust silencer, screw the holder 22 1000 50 95 01 with an M6 x 16 screw and a B6 body washer as shown in the photo.

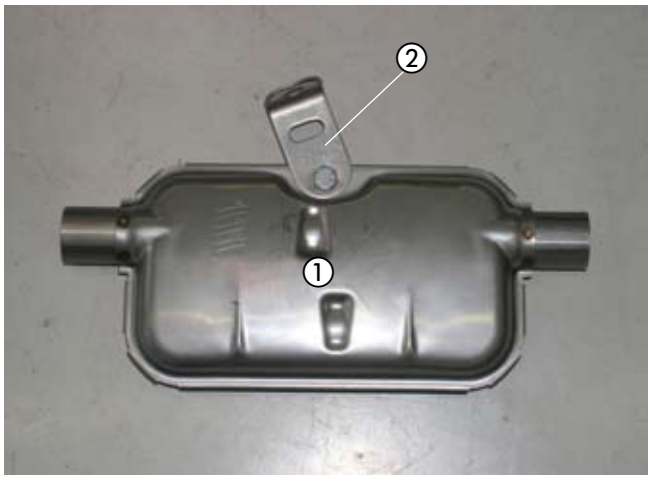


Photo 10

① Exhaust silencer 22 1000 40 09 00
② Holder 22 9000 50 95 01, mounted

Make a 6.5 mm Ø hole in the plastic covering of the left chassis beam according to the dimensions in the photo.

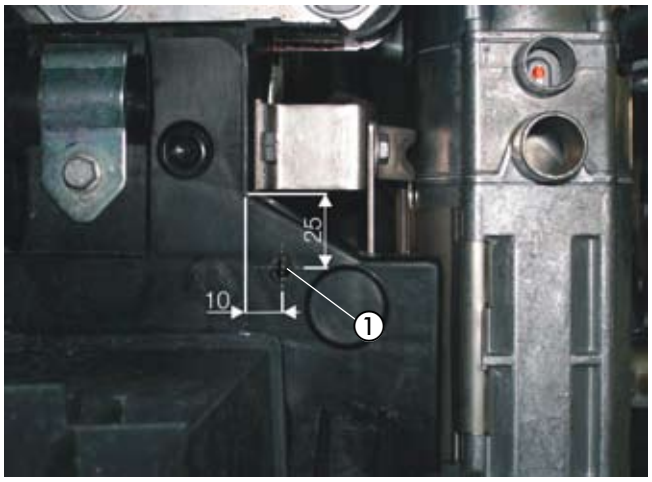


Photo 11

① 6.5 mm Ø hole, drilled

Fit the premounted exhaust silencer in the drilled hole with an M6 x 16 screw.
Align the exhaust silencer as shown in the photo.
The arrow on the exhaust silencer faces to the left.



Photo 12

① Exhaust silencer 22 1000 40 09 00, mounted

3 Exhaust and combustion air system

Cut the exhaust pipe to a length of 320 mm and push on a piece of exhaust insulation.

Connect the exhaust pipe with a pipe clamp to the outlet connection of the heater and lay it in the elbow to the intake connection of the exhaust silencer.
Connect the exhaust pipe with a pipe clamp to the intake connection.



Photo 13

① Exhaust pipe, connected

Cut the exhaust pipe end to a length of 140 mm.

Connect the exhaust pipe end with a pipe clamp to the outlet connection of the exhaust silencer and shape it in the elbow downwards as shown in the photo.



Photo 14

① Exhaust end pipe, connected

Please note!

When laying the exhaust pipes, ensure they are at a sufficient distance from adjacent body components.

Install grommet for exhaust pipe
(see photo 15)

Make a 38 mm Ø hole in the bottom bumper panelling according to the dimensions shown in the photo.

Insert the 41 mm Ø grommet in the drilled hole and take the exhaust pipe end through the grommet.

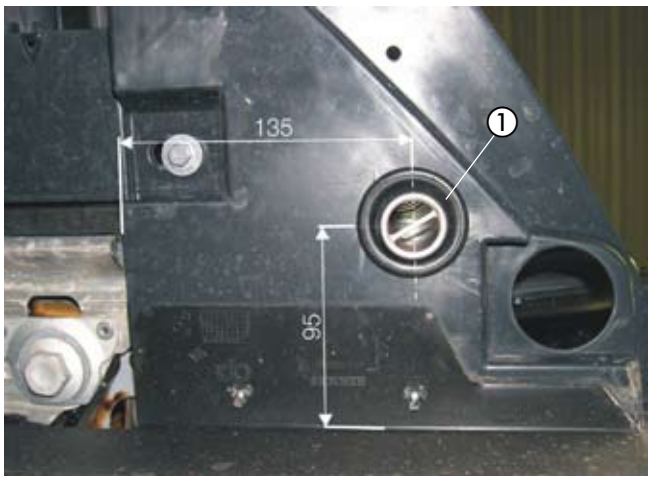


Photo 15

① Grommet for exhaust pipe, installed

Install and connect exhaust silencer 22 1000 40 19 00
(see photos 16 to 19)

On the exhaust silencer, screw the holder 22 1000 50 70 02 with an M6 x 16 screw as shown in the photo.

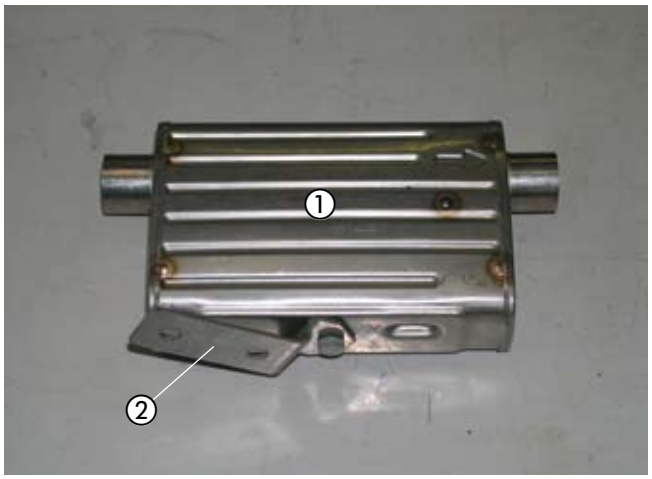


Photo 16

① Exhaust silencer 22 1000 40 19 00
② Holder 22 9000 50 70 02, installed

Install the exhaust silencer to the lower left radiator fastening using the existing M6 screw.
Align the exhaust silencer as shown in the photo.
The arrow on the exhaust silencer faces to the left.



Photo 17

① Exhaust silencer 22 1000 40 19 00, installed

Cut the exhaust pipe to a length of 340 mm and push on a piece of exhaust insulation.

Connect the exhaust pipe with a pipe clamp to the outlet connection of the heater and lay it in the elbow to the intake connection of the exhaust silencer.
Connect the exhaust pipe with a pipe clamp to the intake connection.



Photo 18

① Exhaust pipe, connected

3 Exhaust and combustion air system

Cut the exhaust pipe end to a length of 240 mm.

Connect the exhaust pipe end with a pipe clamp to the outlet connection of the exhaust silencer and shape it in the elbow downwards as shown in the photo.



Photo 19

① Exhaust end pipe, connected

Please note!

When laying the exhaust pipes, ensure they are at a sufficient distance from adjacent body components.

Install grommet for exhaust pipe
(see photo 20)

Make a 38 mm Ø hole in the bottom bumper panelling according to the dimensions shown in the photo.

Insert the 41 mm Ø grommet in the drilled hole and take the exhaust pipe end through the grommet.

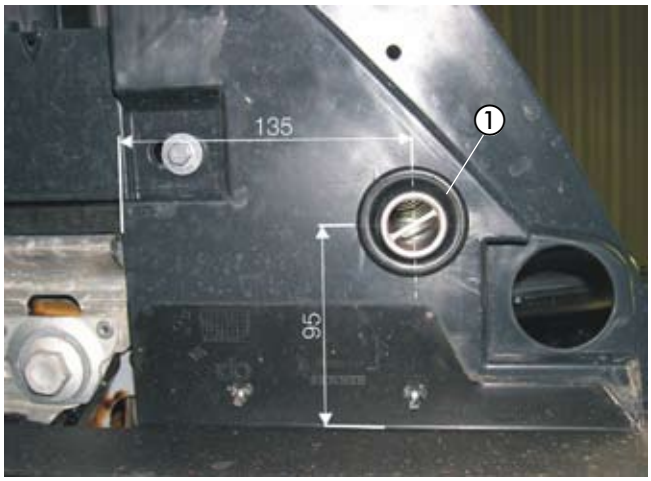


Photo 20

① Grommet for exhaust pipe, installed

Install combustion air pipe
(see photo 21)

Connect the combustion air pipe to the heater using a 16-25mm Ø hose clip, lay upward in the elbow and in the protected section of the left wheel arch housing.

Use cable ties to fix the combustion air pipe in suitable places.

Make a drain hole 2 mm Ø for condensation at the lowest point of the laid combustion air pipe.

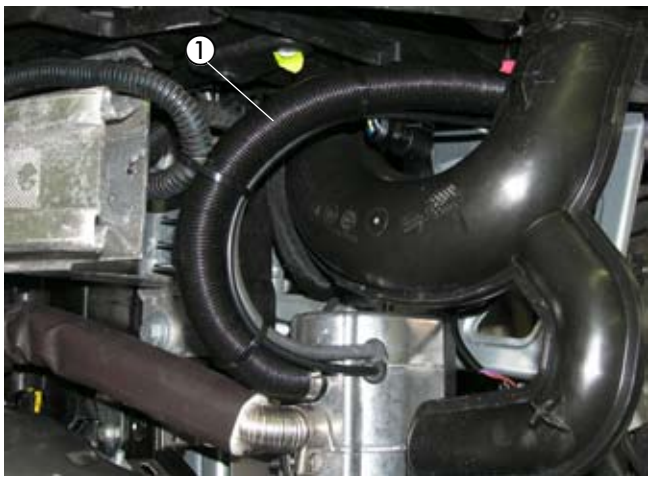


Photo 21

① Combustion air pipe, connected and laid

Please note!

Lay the combustion air pipe so that only clean, dry combustion air can be drawn in through the heater.

4 Water circuit

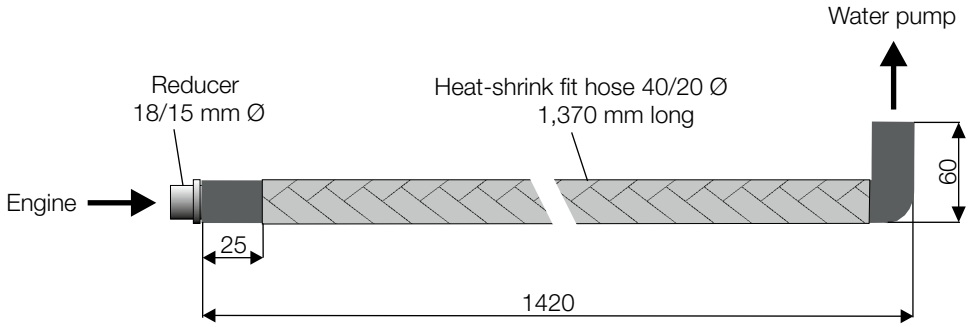
Prepare the water hoses
(see diagram 1)

Cut the water hoses according to the dimensions in the diagram and prepare.

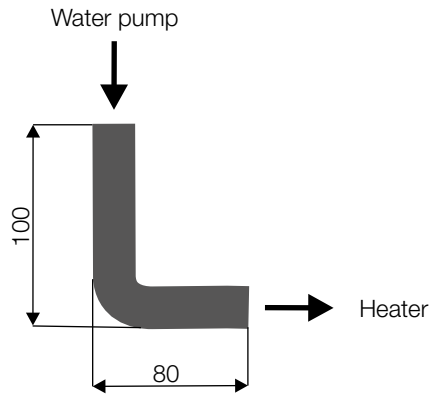
Please note!

The water hoses are connected to the water circuit "inline", refer to the Technical Description, "Installation" chapter, "Connection to the Cooling Water Circuit" section.

Water hose ①
from the engine to the water pump



Water hose ②
from the water pump to the heater



Water hose ③
from the heater to the heat exchanger

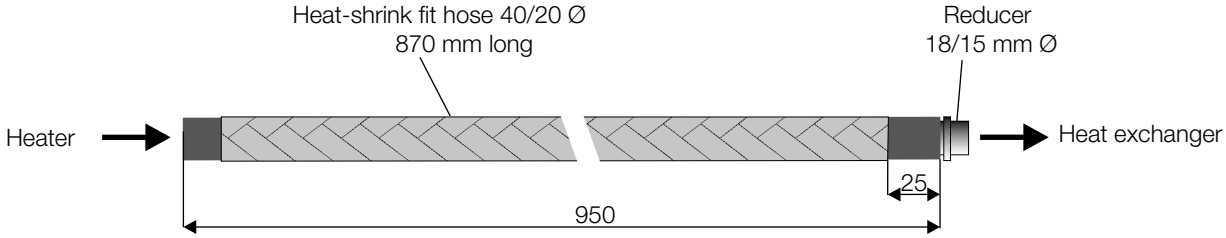
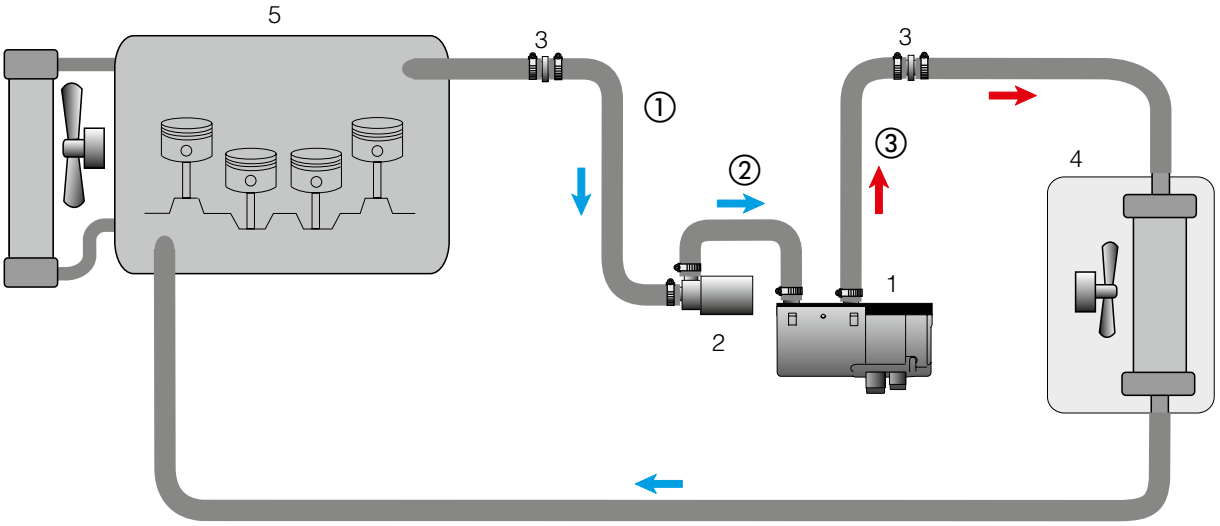


Diagram 1

4 Water circuit



1 - Heater
2 - Water pump
3 - Vehicle T-piece and reducer Ø 18/15 mm
4 - Vehicle heat exchanger
5 - Engine
- Hose clip, Ø 20 – 32 mm

Diagram 2

Cut water flow hose
(see photo 22)

Cut the water flow hose from the engine to the heat exchanger at the EGR valve according to the dimensions in the photo.



Photo 22

① Cutting point in the water flow hose

Lay and connect water hoses
(see photos 23 to 27 and diagrams 1 and 2)

Connect the water hose ② to the heater's water inlet connection and to the discharge connection of the water pump.

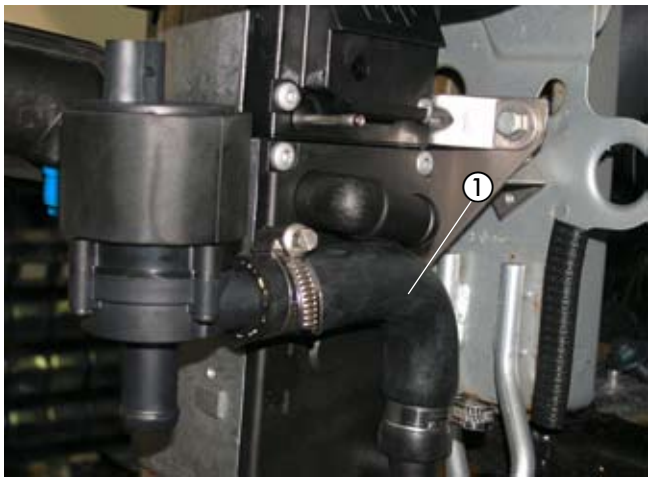


Photo 23

① Water hose ②

Connect the water hose ① to the intake connection of the water pump.

Connect the water hose ③ to the heater's water outlet connection.

Use two rotatable hose holders to secure the water hoses ① and ③ with each other.

Lay the two water hoses upwards along the charge-air hose to the disconnection point at the water flow hose.

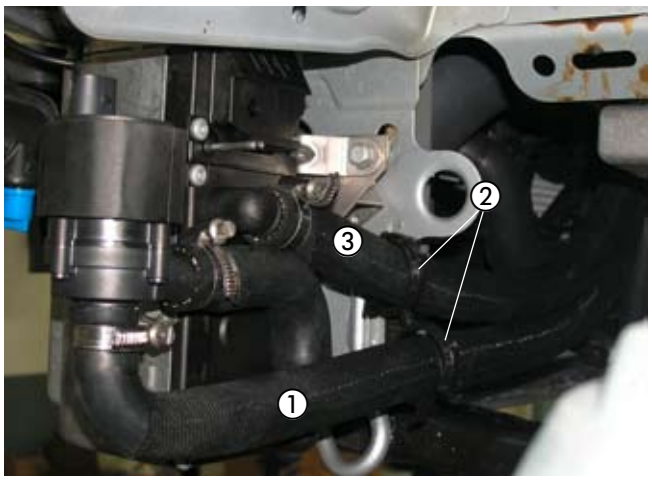


Photo 24

① Water hose ①
② 2 x rotatable hose holders
③ Water hose ③

Connect the water hose ① with the 18/15 mm Ø reducer to the water hose piece of the EGR valve.



Photo 25

① Water hose ①

Connect the water hose ③ with the 18/15 mm Ø reducer at the cut water flow hose to the heat exchanger.

Use two cable ties to secure the water hoses ① and ③ to the charge-air pipe as shown in the photo.

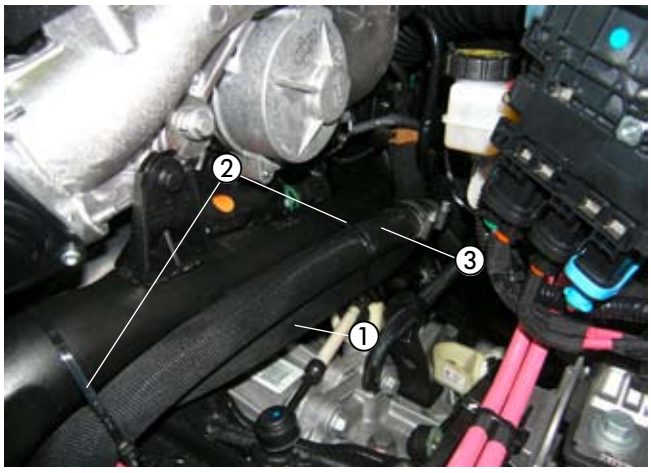


Photo 26

① Water hose ①
② 2 x cable ties, mounted
③ Water hose ③

Use three rotatable hose holders to secure the water hoses ① and ③ to each other and to the vehicle's water hose.

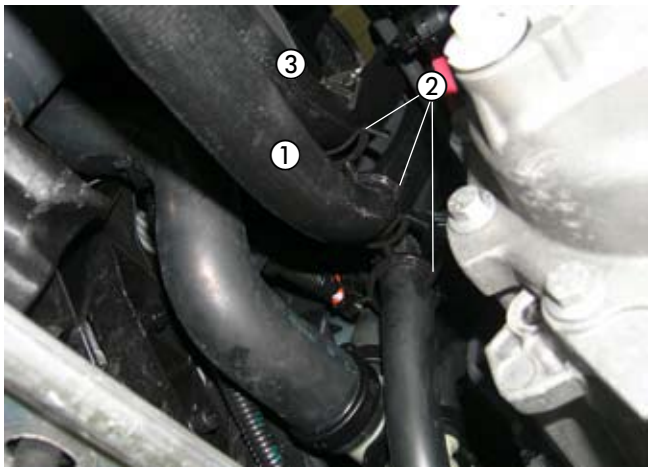


Photo 27

① Water hose ①
② 3 x rotatable hose holders
③ Water hose ③

Please note!

Secure all hose connections with hose clips.
Protect the water hoses against chafing and use cable ties to secure in suitable positions.

Install fuel tank extractor
(see photos 28 to 30 and diagram 3)

Prepare the riser pipe of the fuel tank extractor as shown in the diagram.
Cut off the lower end of the fuel tank extractor at an angle of 45°.

Remove the tank fitting, loosening the plug connection and the fuel pipes at the tank connection.
Remove the tank fitting by loosening the union nut.

Please note!

The tank fitting should not be removed for longer than 10 minutes because of expansion of the tank!
When drilling, ensure that no dirt gets into the the tank or supply lines.

Make an 8 mm Ø hole in the top part of the tank fitting with the dimensions shown in the photo.
Take the fuel tank extractor from above through the prepared hole in the tank fitting and screw tight with the M8 nut and B8 washer.
Align the fuel tank extractor as shown in the photo.

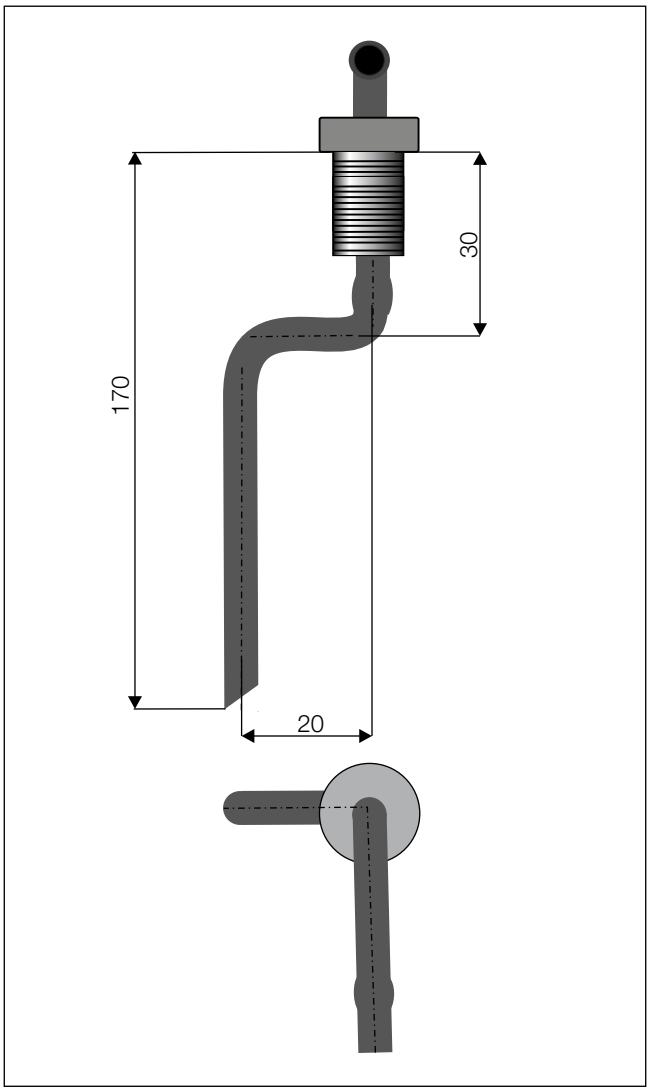


Diagram 3

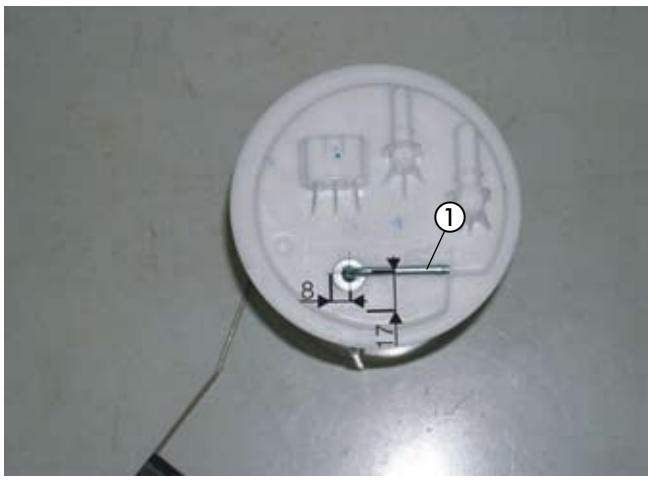


Photo 28

① Fuel tank extractor, installed

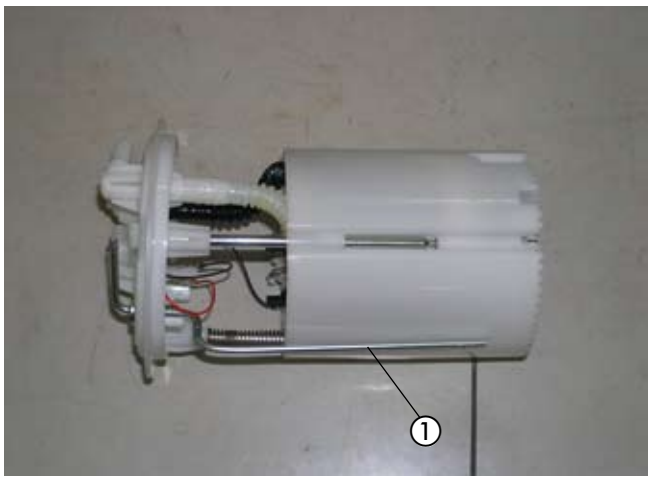


Photo 29

① Fuel tank extractor, installed

Insert the tank fitting with a new seal and fasten with the locking ring; ensure the seal fits properly.
At the intake connection of the fuel tank extractor, connect the 4 x 1 mm Ø fuel pipe with a 3.5 x 3 mm Ø fuel hose, 50 mm long.
Cover the 4 x 1 mm Ø fuel pipe with foam rubber hose and lay to the installation position of the metering pump next to the tank on the right.
Connect the plug-in connection and the fuel line to the upper part of the tank fitting.



Photo 30

① Fuel tank extractor, connected

Install and connect metering pump
(see photos 31 and 32)

Insert the metering pump in the rubber holder and fit the 90° angle from the installation kit using the M6 x 20 screw and B6 body washer.
Fasten the premounted metering pump to the free hole in the right rear axle holder next to the tank as shown in the photo, using an M6 x 16 screw and a B6 body washer.
Ensure it is installed with at least 15° rising gradient on the discharge side.
The discharge connection of the metering pump points towards the front.
Cut the 4 x 1 mm Ø fuel pipe from the fuel tank extractor to the metering pipe and connect with 3.5 x 3 mm Ø fuel hose, 50 mm long, on the intake side.

At the main cable harness, pull off the mating plug of the metering pump connection and push on the plug of the enclosed metering pump cable.

Connect the 4 x 1.25 mm Ø fuel pipe to the heater with a 3.5 x 3 mm Ø fuel hose. Lay the fuel pipe together with the metering pump cable along the fuel lines on the vehicle underbody on the right to the metering pump and connect with the 3.5 x 3 mm Ø fuel hose, 50 mm long, on the discharge side.

Slot the plug-in contacts of the metering pump cable into the mating connector without noting the polarity.
Connect the connector to the metering pump.

Use cable ties to secure the 4 x 1.25 mm Ø fuel pipe and the metering pump cable at suitable points.



Photo 31

① Metering pump with rubber holder, installed

Please note!

Use a sharp knife to cut the fuel pipe to length.
Secure all hose connections with hose clips.
When laying fuel lines, always ensure they are at an adequate distance from hot vehicle and heater parts.



Photo 32

① Fuel pipe and cable, laid

Install the fuses, fan relay and relief relay
(see photo 33 and diagram 4)

Screw holder 22 9000 50 21 03 to the front left wing fastening using the existing M6 screw.

Connect the 8 pin connector of the main cable harness with the 8 pin flat connector housing of the heater's cable loom.

Insert the 4 mm² rt/ws cable from the relay block of relay 2.5.7 into the still free slot of the fuse block.

Lay the 1 mm² sw/rt cable from the prefabricated IPCU block from the interior through the existing cable grommet into the engine compartment as shown in photo 34.

Crimp cables 4 mm² sw and 4 mm² sw/vi from the relay block of relay 2.5.7.
Fit the 4 mm²sw cable to the crimped out 4 mm² sw cable at the triple distributor.

Latch the free 4 mm² sw cable with the bushing connector into the relay block of relay 2.5.7 in slot 87a.
Fit the 4 mm²sw/vi cable to the crimped out 4 mm² sw/vi cable at the triple distributor.

Latch the free 4 mm² sw/vi cable with the bushing connector into the relay block of relay 2.5.7 in slot 30. Disconnect the bushing connectors at the 0.5 mm² sw/rt and 0.5 mm² br cables of the main cable harness.

Attach the 1 mm² br cable from the relief relay together with the 0.5 mm² br cable of the main cable harness in a new bushing connector and latch the bushing connector into the relay block of relay 2.5.7 at slot 85.

Fit the 1 mm² sw/rt cable from the prefabricated IPCU block, the 1 mm² sw/rt cable from the relief relay and the 0.5 mm² sw/rt cable from the main cable harness together in a new bushing connector and insert in the relay block of relay 2.5.7.

Screw the fuse bracket with two M4 x 16 screws and the relay block of relay 2.5.7 to holder 22 1000 51 21 00 using an M5 x 12 screw.
Screw holder 22 1000 51 21 00 to the ready mounted holder 22 9000 50 21 03 using an M6 x 16 screw as shown in the photo.



Photo 33

① Fuse bracket, installed
② Fan relay and relief relay, installed

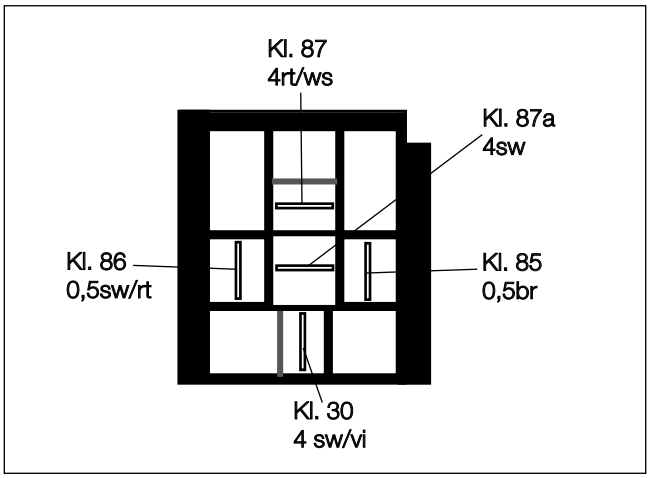


Diagram 4

View of the relay block from the cable inlet side

Cable laying
(see photo 34)

Lay the "control unit" and "fan control" cable loom through the existing cable grommet on the left side of the engine partition into the interior.



Photo 34

① Existing cable grommet

Please note!

When laying the cable looms, ensure they are at an adequate distance from hot vehicle and heater parts.
Use cable ties to fix the cable looms in suitable places.

Fan control
(see photos 35 to 38 and diagram 5)

Mount the prefabricated IPCU and additional relay block to the instrument panel support with an M6 x 16 screw as shown in the photo.

Fasten the 1 mm² br cable from the additional relay block to the left lower screwed connection of the instrument panel support.

Insert the additional relay and the IPCU in the corresponding block.



Photo 35

① IPCU module and additional relay, installed
② Cable 1 mm² br connected

At the 4-pin black plug at the brake light switch, disconnect the 0.5 mm² ge PIN 2 cable and integrate the 1 mm² rt/ws cable from the additional relay block with a 0.5 - 1.5 mm² butt-type connector.

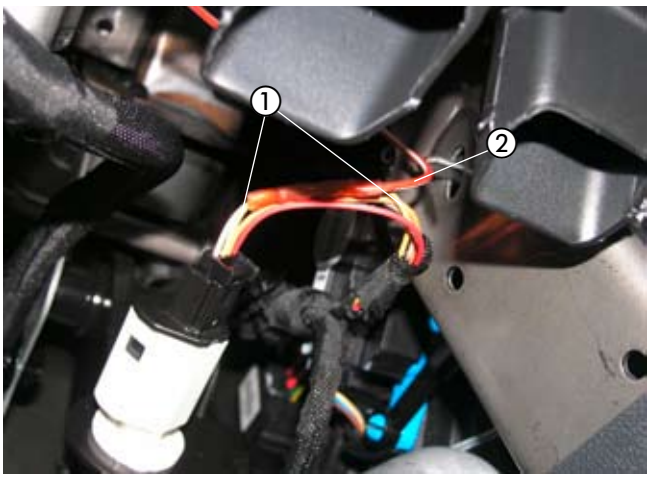


Photo 36

① 0.5 mm² ge cable, disconnected
② Cable 1 mm² rt/ws, integrated

At the 40-pin grey plug at the AirCon control, disconnect the 0.5 mm² ge PIN 19 cable and integrate the 1 mm² sw/ws cable from the additional relay block with a 0.5 - 1.5 mm² butt-type connector.

Please note!

Make sure that the battery is disconnected before disconnecting the 0.5 mm² ge cable at the AirCon control.

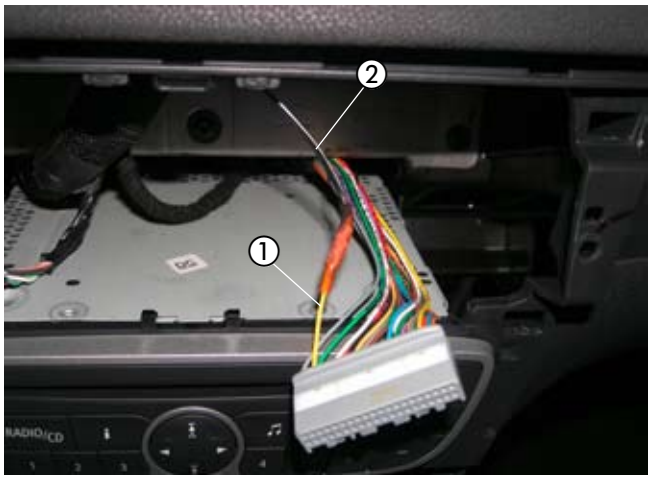


Photo 37

① 0.5 mm² ge cable, disconnected
② Cable 1 mm² sw/ws, integrated

Lay the "Fan control" cable loom to the central fuse box in the driver's footwell.

Disconnect the 4 mm² rt cable at the outlet of the F40/40A fuse and integrate the 4 mm² sw and 4 mm² sw/vi cables with 4 - 6 mm² butt-type connectors as shown in the circuit diagram.

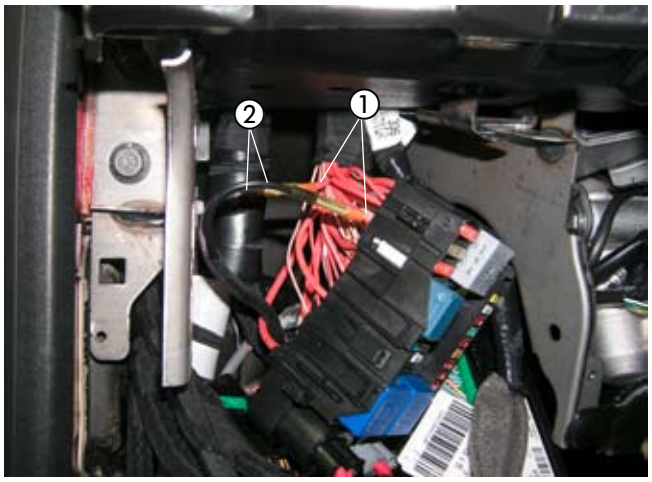


Photo 38

① 4 mm² rt cable, disconnected
② 4 mm² sw and 4 mm² sw/vi cables, integrated

Power supply
(see photo 39)

Take the 4 mm² rt cable to the positive terminal post of the battery and connect it there.

Take the 2.5 mm² br negative cable to the negative terminal post of the battery and connect it there.

Please note!

When laying the cable looms, ensure they are at an adequate distance from hot vehicle and heater parts.
Use cable ties to fix the cable looms in suitable places.

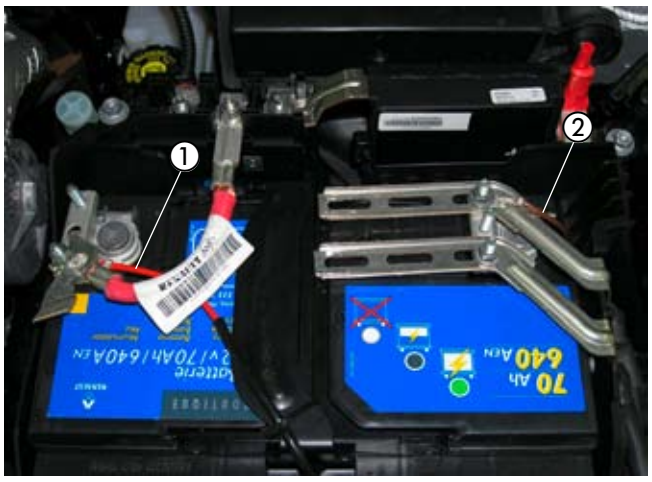
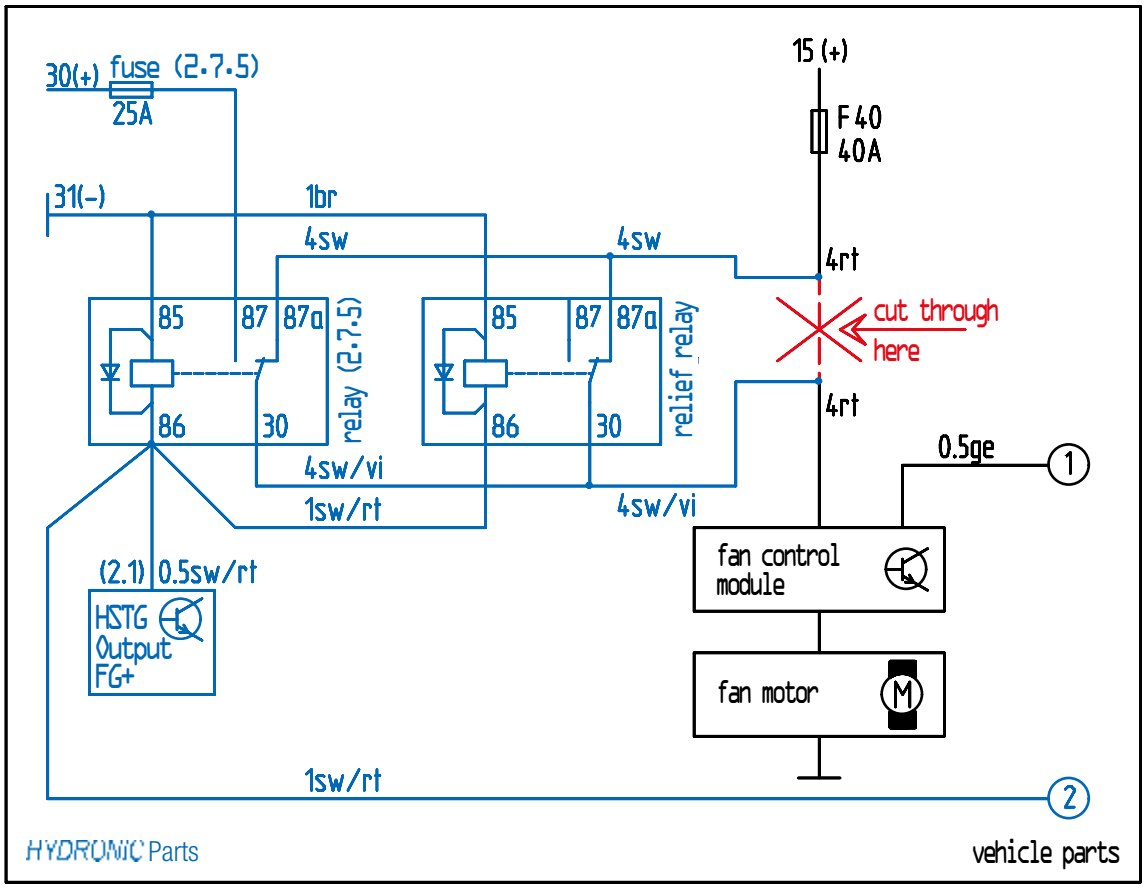


Photo 39

① Power supply plus
② Power supply minus


30(+) fuse (2.7.5)
25A
31(-)
1br
4sw
4sw
15 (+)
F40
40A
4rt
cut through
here
4rt
85
87
87a
86
30
relay (2.7.5)
85
87
87a
86
30
relief relay
4sw/vi
1sw/rt
4sw/vi
0.5ge
1
(2.1) 0.5sw/rt
HSTG
Output
FG+
fan control
module
fan motor
M
1sw/rt
2
HYDRONIC Parts
vehicle parts

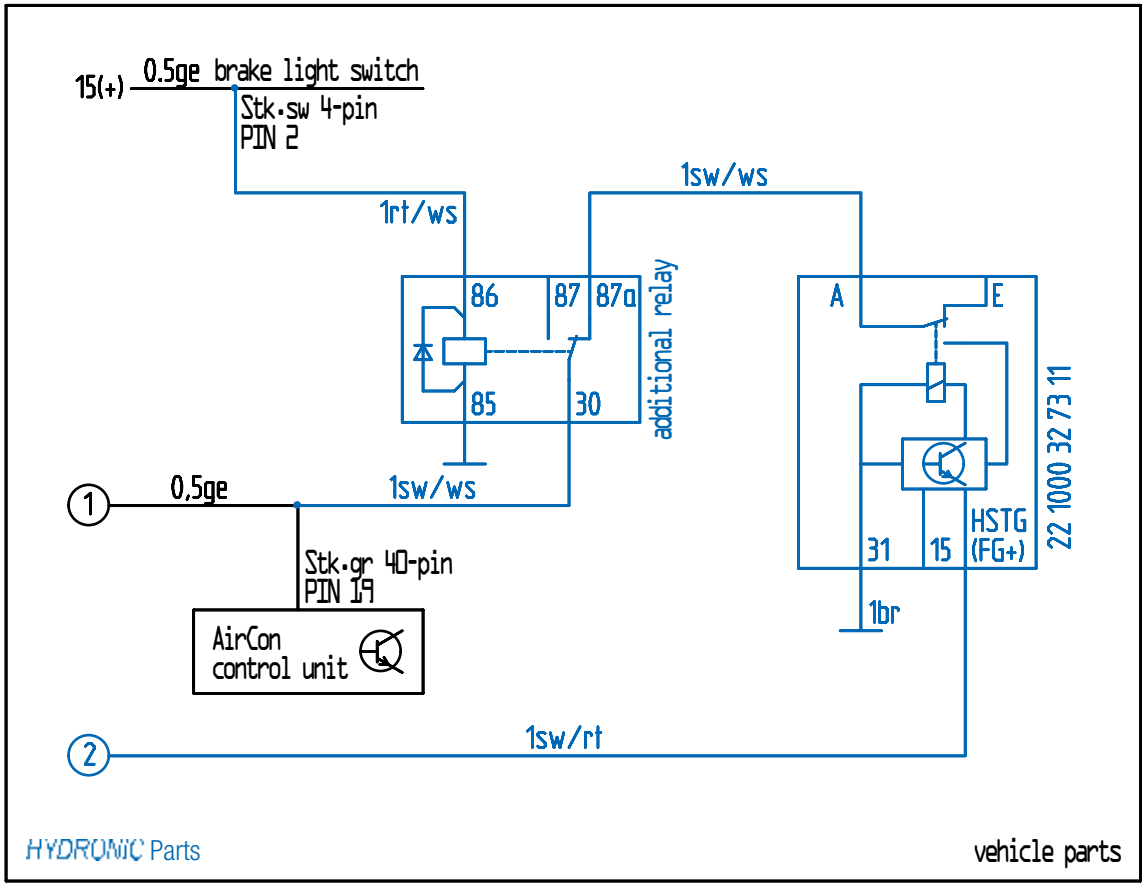

15(+)
0.5ge brake light switch
Stk.sw 4-pin
PIN 2
1sw/ws
1rt/ws
86
87
87a
85
30
additional relay
A
E
22 1000 32 73 11
1
0,5ge
1sw/ws
Stk.gr 40-pin
PIN 19
AirCon
control unit
31
15
HSTG
(FG+)
1br
2
1sw/rt
HYDRONIC Parts
vehicle parts

Diagram 5

Install EasyStart T timer
(see photo 40)

The EasyStart T timer is installed according to the "EasyStart T" installation instruction.
Fit the EasyStart T timer to the gearshift lever cover.
Use the supplied self-adhesive drilling template to position and drill the holes for fixing the timer and the heater lead harness.
Make the Ø 6.5 mm and Ø 8 mm holes.
Remove the drilling template after making the holes.
If necessary, the foam template can be used to level out the unevenness.
To do this, pull off the protective film and stick the base onto the timer.
Guide the timer lead harness through the 8 mm Ø hole and use the expansion plug to premount the timer in the 6.5 mm Ø hole.
If the foam film is used, pull off the second protective film too.
Push or screw the fixing screw into the expansion plug and use it to fix the timer.
Attach the flat connector from the timer lead harness at the 9 pin flat connector housing and the already installed bushing connectors on the bushing connector housing.
Push the fuse clasp into the flat connector housing.
Pull off the protective film of the cover cap and glue in the cover cap.



Photo 40

① EasyStart T, installed

Please note!

Do not decide on the installation location of the timer until after consulting the customer.

Install EasyStart R/R+ radio remote control (Alternative suggestion - consult with the customer)
(see photos 41 to 42 and diagram 6)

The EasyStart R/R+ is installed according to the Technical Description for the EasyStart R/R+ Radio Remote Control; see the "Installation Instruction" section.
Install the EasyStart R/R+ button on the panelling as shown in the photo.
To do so, make an 8 mm Ø hole and fit the button in the hole.



Photo 41

① EasyStart R/R+ button, installed

Prepare the holder as shown in the diagram.
Use two M4 x 10 screws to fix the stationary part to the holder.
Fit the stationary part of EasyStart R/R+ with holder to the existing M8 threaded bolt of the steering column fastening.
Attach the temperature sensor of the EasyStart R/R+ in a suitable position to the panelling in the driver's footwell.
Lay the cable from the installed button and temperature sensor together with the "Control" cable loom to the installed position of the stationary part.
Cut the cables to the correct length, crimp the bushing connectors, attach the bush housing B7 and connect to the stationary part.
Connect the antenna cable of the EasyStart R+ to the stationary part, take it to the left and lay it in the rubber door seal on the driver's side.

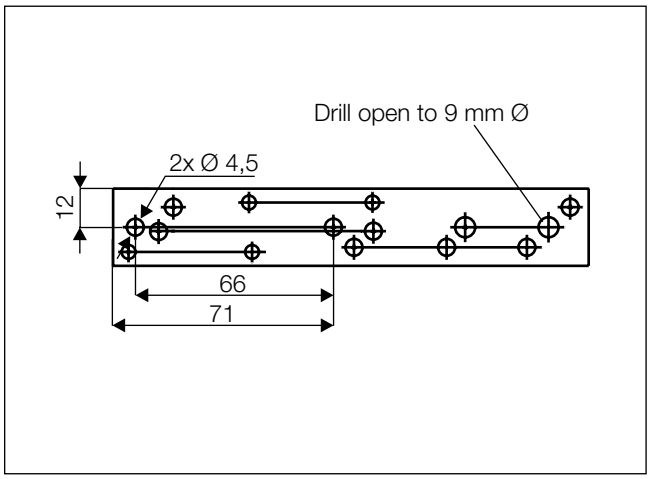


Diagram 6

Please note!

Avoid contact with metal parts at the uninsulated end of the antenna cable.
Use cable ties to fix any excessive length of antenna cable underneath the instrument panel.

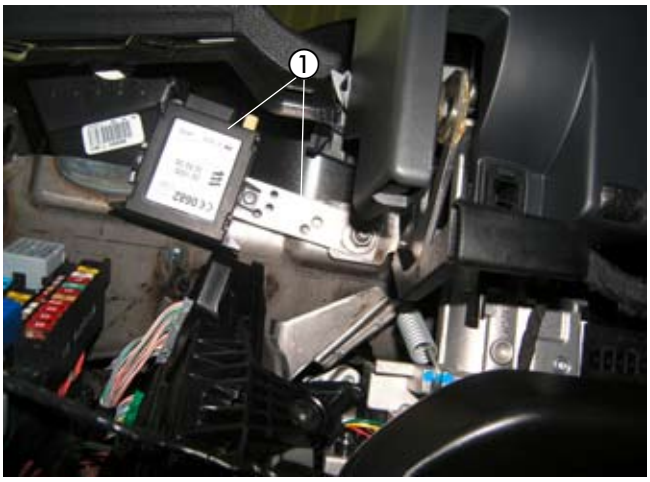


Photo 42

① Stationary part of the EasyStart R/R+, installed with holder

7 After installation

Complete the vehicle

- Install all 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.
- Set the clock.
- Fill the cooling system, start the engine, vent the cooling system and check for leaks, top up any missing cooling liquid up to the marking (arrow).
- 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.
- Program the control and place the Operating Instruction together with the leaflet for the customer in the glove compartment.

Please note!

Fill the cooling system only with the coolant liquid specified by the vehicle manufacturer.

Starting up the heater

- Switch on the heater at the control.
  See Operating Instructions - Control.

8 Parts Overview

Item	Designation	Quantity	Order number
1	Vehicle-specific additional parts Containing:	1	24 8388 00 00 00
	Bracket, heater	1	
	Holder 20 1533 88 00 07	2	
	Holder 22 9000 50 95 01	1	
	Holder 22 9000 50 70 02	2	
	Holder 22 9000 50 21 03	1	
	Holder 22 1000 51 21 00	1	
	Hexagon screw M6 x 16	2	
	Spring lock washer B6	2	
	Body washer B6	4	
	Fillister-head screw M4 x 10	2	
	Hexagon nut M4	2	
	Spring lock washer B4	2	
	Fillister-head screw M5 x 10	1	
	Hexagon nut M5	1	
	Spring lock washer B5	1	
	Butt-type connector, yellow 4-6 mm²	2	
	Butt-type connector, red0.5-1.5 mm²	2	
	Exhaust insulation	1	
	Grommet	1	
	Reducer 18/15 mm Ø	2	
	Hose clip, 16 - 25 mm Ø	2	
	Hose holder, rotatable	5	
	Relay, changeover contact 12V 20/30A	1	
	Relief relay kit	1	
	Cable loom, IPCU and additional relay	1	
	IPCU module	1	
	Edge protection	0.1 m	
	Heat-shrink fit hose 40/20 mm Ø	2.3 m	
	Water hose Ø 18 mm	1.0 m	
	Foam rubber hose 5 x 3	6.0 m	



Item 1 Vehicle-specific additional parts 1 set

9 Leaflet for the customer

Before switching on
(see photo 1)

- Before switching on or pre-programming the heating mode with the ignition switched on, set the vehicle's temperature controller ① to "Hot" ("HI" in the display).
- Set the button for the air system ② to maximum air flow for the windscreen.
- Set the fan switch ③ to level 2.



Photo 1

① Temperature controller
② Air system controller
③ Fan controller