HYDRONIC

Installation Recommendations

Eberspächer

J. Eberspächer
GmbH & Co. KG
Eberspächerstr. 24
D - 73730 Esslingen

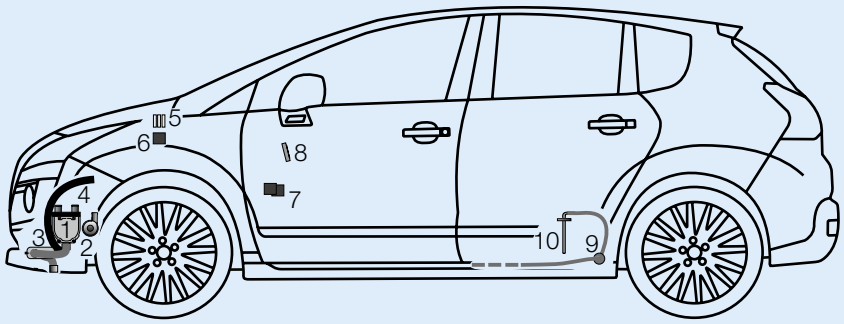
Service Hotline
+49 (0)1805 - 26 26 26
Facsimile
+49 (0)1805 - 26 26 24

New vehicle-specific installation kit + heater

Hydronic D 4 W S in Peugeot 3008 (0U)

2009 model
2.0 l cubic capacity HDi FAP / 4 cylinder in-line engine / 110 kW (AJH)
- **with manual AirCon or**
- **with automatic AirCon**
- **with manual gearbox**
- **with fog lamps**

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	6	Additional relay
2	Water pump	7	IPCU + cut-off relay
3	Exhaust pipe with exhaust silencer	8	EasyStart T
4	Combustion air tube	9	Metering pump
5	Fuse holder	10	Fuel tank extractor

Installation location
The Hydronic D 4 W S is fastened horizontally to the lower left chassis beam before the gearbox.
The exhaust connection faces downwards and the control box to the right.

Parts needed for installation:
(1) Vehicle-specific installation kit
(2) D 4 W S
(3) EasyStart T control or as chosen
(4) AirCon kit

Installation time: approx. 6.5 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 repair are dangerous and therefore are 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
2.0 l (HDI FAP)	110 / 150	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) Vehicle-specific installation kit	
1 Vehicle-specific installation kit *	24 8462 00 00 00
(2) Heater	
1 Hydronic D 4 W S	25 2355 05 00 00
(3) EasyStart control unit as chosen	
1 EasyStart T	22 1000 32 88 00
1 Console	22 1000 51 32 00
or	
1 EasyStart R+ radio remote control	22 1000 32 80 00
or	
1 EasyStart R radio remote control	22 1000 32 85 00
(4) AirCon kit	
Order the following additional components for vehicles with manual AirCon:	
1 AirCon kit	24 8467 00 00 00
Order the following additional components for vehicles with automatic AirCon:	
1 AirCon kit	24 8468 00 00 00

**** Important:*** *The new vehicle-specific installation kit contains* ***all*** *parts needed for installation.*

Special tools required

- Torque wrench (5....50 Nm)
- Anti-corrosion agent
- Pliers for spring band clamps
- Ejector tool for plug-in contacts
- Crimping tool

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

Preparation on the vehicle

- Disconnect the battery
- Tip up the rear seat bench on the right
- Remove the AirCon control
- Remove the lower panelling of the instrument panel on the left
- Dismantle the upper and lower cowling
- Remove battery and battery holder
- Dismantle the air filter box
- Remove the underbody panelling on the left
- Drain coolant into a clean container

2 Installation - Heater

Prepare the installation position
(see photo 1)

Drill two 7 mm Ø holes in the holder of the ABS control unit according to the dimensions shown in the photo.
Fasten the Z-bracket (20 1533 88 00 07) to the chassis beam using an M6 x 16 screw as shown in the photo.

Please note!

Deburr all finished holes and treat with anti-corrosion agent.

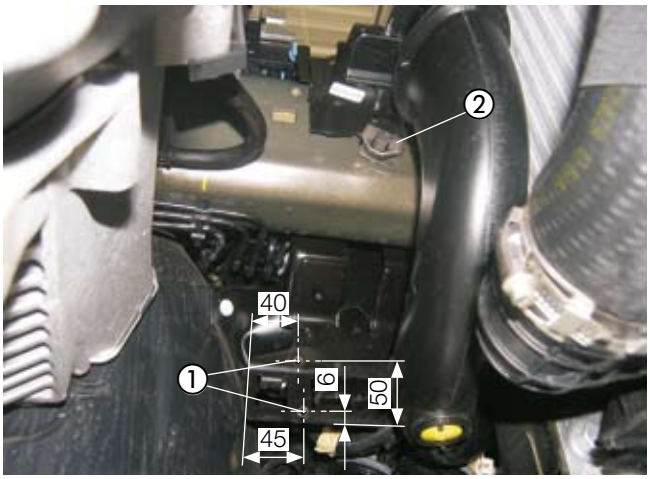


Photo 1

① 7 mm Ø holes, drilled
② Z-bracket (20 1533 88 00 07)

Install water pump
(see photo 2)

Insert the water pump in the rubber holder and fasten to the holder on the left next to the battery in the existing oblong hole, using an M6 x 30 screw and a B6 body washer.



Photo 2

① Water pump

Premount unit holder
(see photo 3 and diagrams 1 and 2)

Prepare two holders 93 06 according to the diagram.

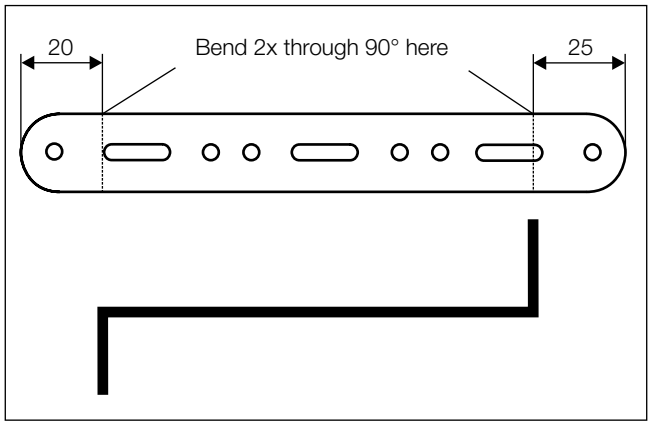


Diagram 1

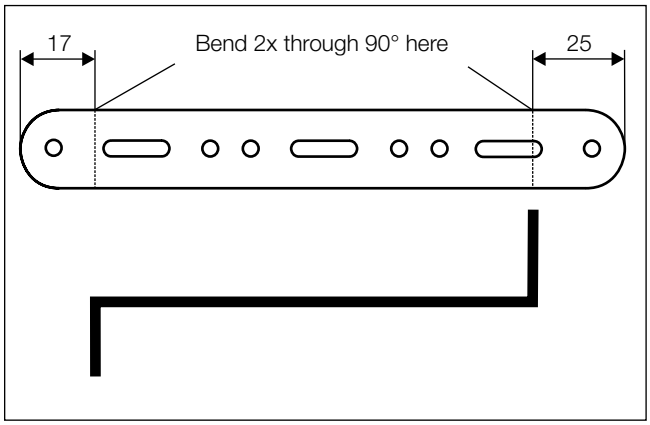


Diagram 2

2 Installation - Heater

Mount the prepared holders 93 06 to the unit holder using two screws M6 x 16 in each case, as shown in the photo.
Fasten the holder 93 05 to the right legs of holder 93 06 using two M6 x 16 screws and fit the edge protection to the front edge.

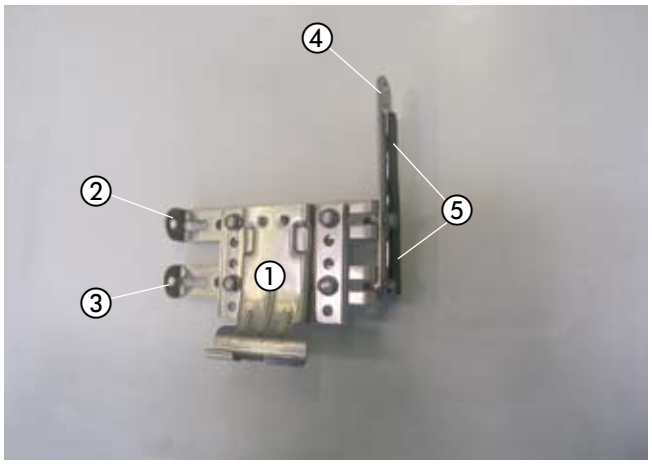


Photo 3

① Unit holder
② Holder 93 06 (diagram 1)
③ Holder 93 06 (diagram 2)
④ Holder 93 05
⑤ Edge protection

Mount unit holder
(see photo 4)

Mount the premounted unit holder to the drilled 7 mm Ø holes and the Z-bracket (20 1533 88 0007) using three M6 x 16 screws as shown in the photo.



Photo 4

① Unit holder, installed

Premount the heater
(see photos 5 and 6)

Install the elbowed water intake connection to the heater as shown in the photo, see Technical Description, "Installation" chapter, "Installation of the elbowed water connection" section.

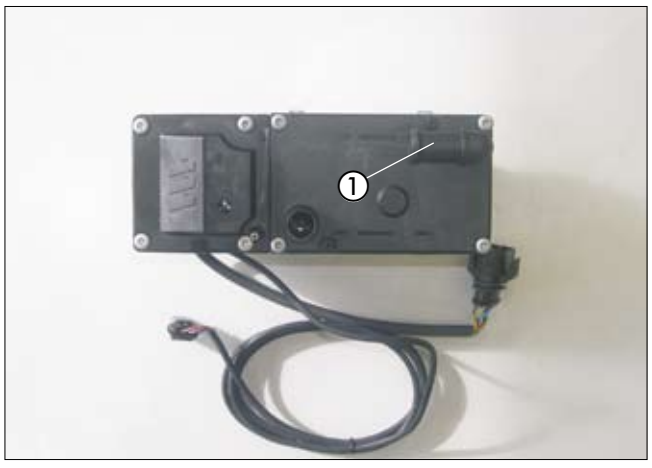


Photo 5

① Elbowed water intake connection

2 Installation - Heater

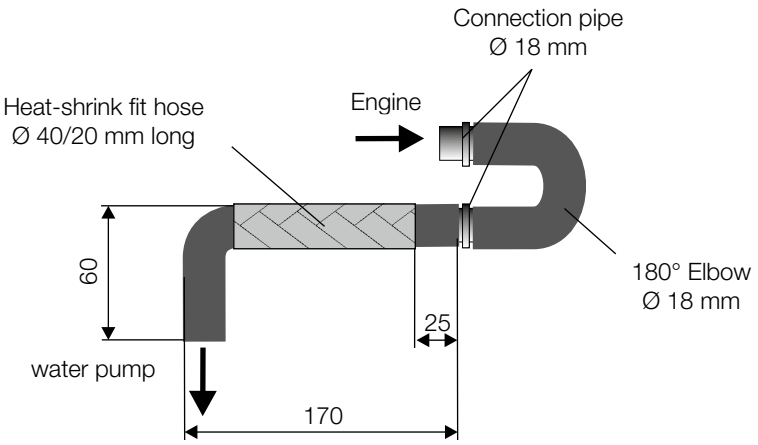
Prepare the water hoses
(see diagram 3)

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

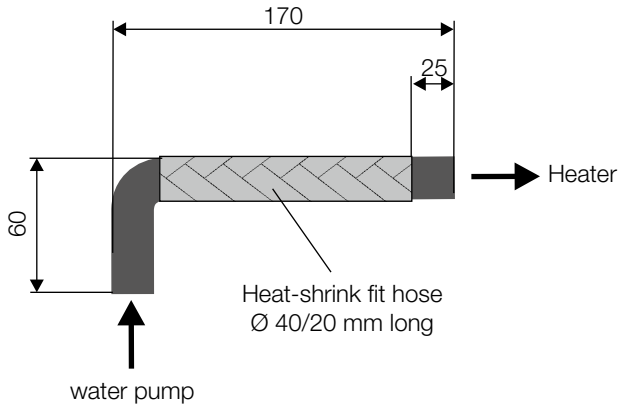
Please note!

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

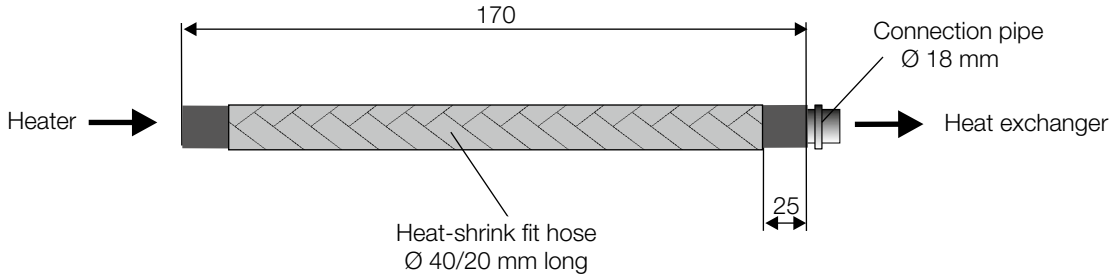


Diagram 3

2 Installation - Heater

Premount the heater
(see photo 6 and diagram 3)

Fasten the combustion air pipe to the heater with a 16 - 25 mm Ø hose clip.

Connect the water hose ② to the heater's water inlet connection.
Connect the water hose ③ to the heater's water outlet connection.

Connect the 4 x 1.25 mm Ø fuel pipe to the heater with the 3.5 x 3 mm Ø fuel hose, length 50 mm.

Fasten the metering pump cable to the fuel pipe with insulating tape.

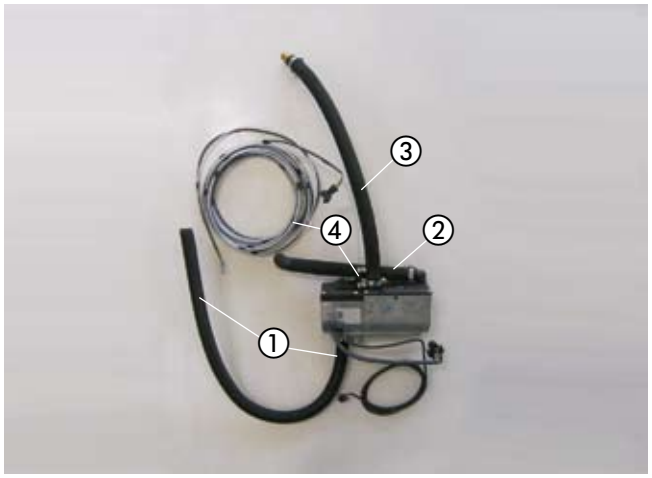


Photo 6

① Combustion air pipe
② Water hose ②
③ Water hose ③
④ Fuel pipe, 4 x 1.25 mm Ø connected with fuel hose, 3.5 x 3 mm Ø, length 50 mm

Install heater
(see photo 7)

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.

Insert the premounted heater in the unit holder and fix in the right threaded hole using the M6 x 95 screw with $6^{+0.5}$ Nm.



Photo 7

① Heater, installed

Laying the combustion air pipe
(see photo 8)

Lay the combustion air pipe upwards in the elbow in the protected section behind the vehicle radiator.
Use cable ties to fix the combustion air pipe in suitable places.
Make a 2 mm Ø drain hole for condensation at the lowest point of the laid combustion air pipe.

Please note!

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



Photo 8

① Combustion air pipe, laid

Install and connect exhaust silencer
(see photos 9 to 11)

Make a 7 mm Ø hole in the lower crossrail with the dimensions shown in the photo.

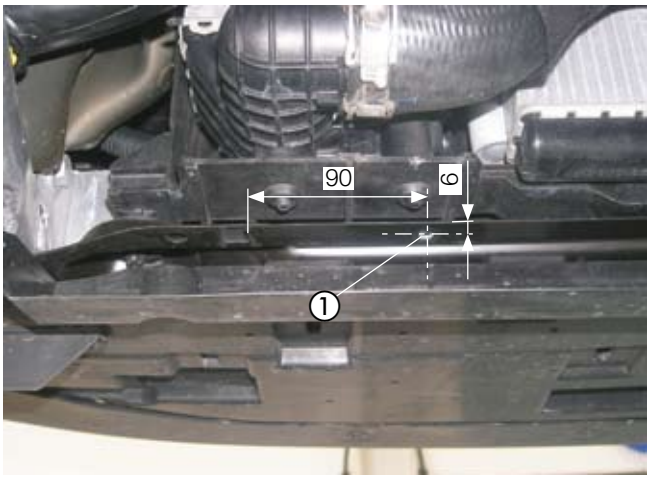


Photo 9

① 7 mm Ø hole

Mount holder 93 01 to the exhaust silencer with an M6 x 16 screw and a B6 body washer.

Cut the exhaust pipe to a length of 200 mm, shape as shown in the photo and connect to the intake connection of the exhaust silencer using a pipe clamp.

Cut the exhaust end pipe to a length of 150 mm, push a spacer rubber profile onto the pipe and position as shown in the photo.
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.

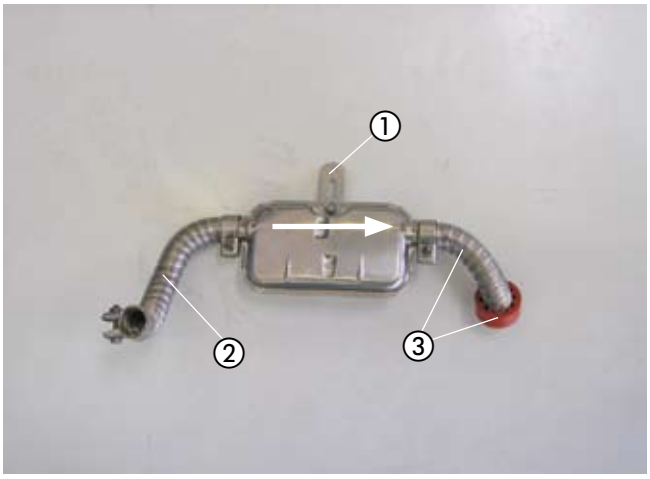


Photo 10

① Holder 93 01
② Exhaust pipe
③ Exhaust pipe end with spacer rubber profile

Fit the premounted exhaust silencer in the drilled hole in the lower crossrail using an M6 x 16 screw.

The arrow on the exhaust silencer marks the direction of flow and points to the right.

Please note!

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

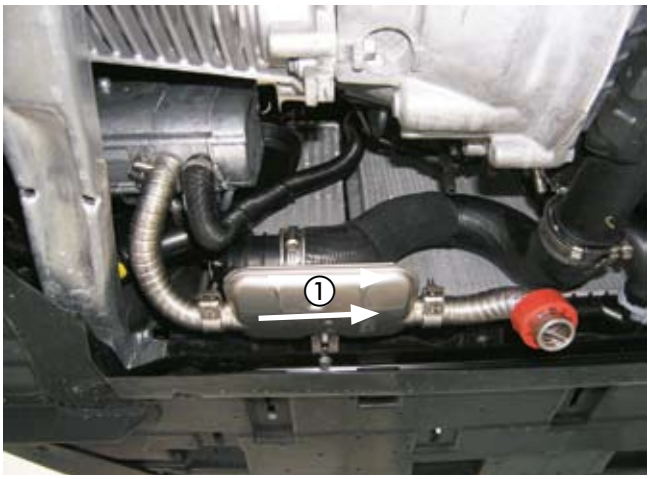
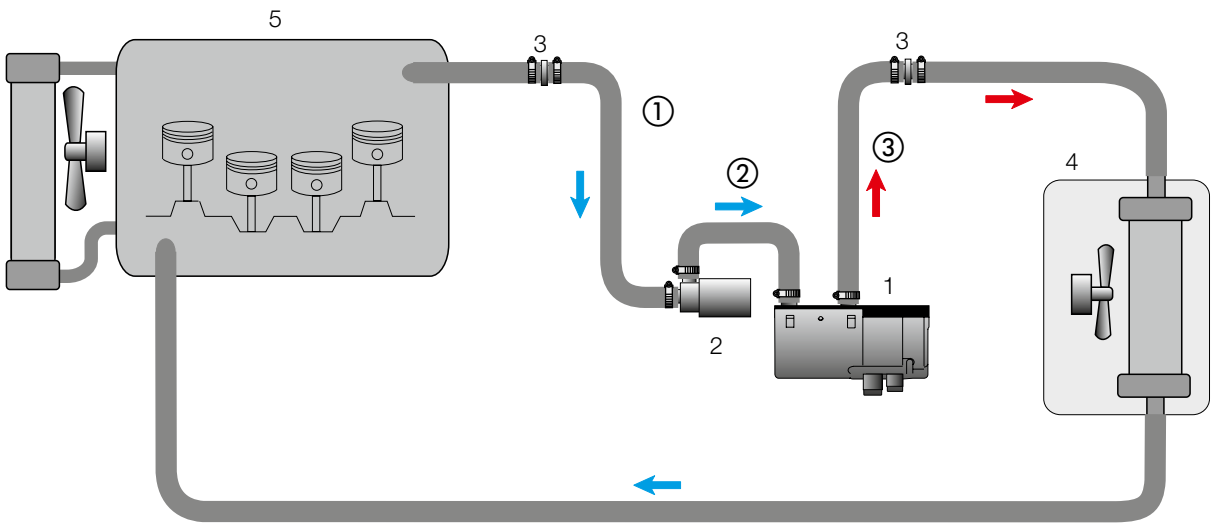


Photo 11

① Exhaust silencer

4 Water circuit



1 - Heater
2 - Water pump
3 - Connection pipe Ø 18 mm
4 - Vehicle heat exchanger
5 - Engine
- Hose clip, Ø 20 – 32 mm

Diagram 4

Cut water flow hose
(see photo 12)

Remove the water flow hose from the engine to the heat exchanger (the left bottom water hose at the heat exchanger) and disconnect according to the dimensions shown in the photo.

Fit the disconnected water flow hose back in position again.

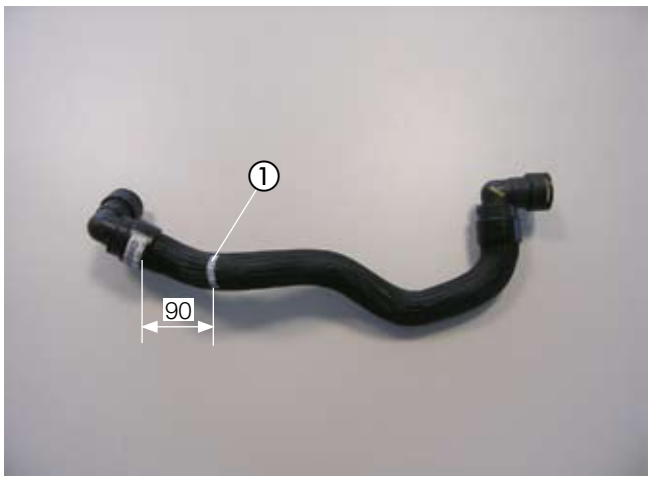


Photo 12

① Cutting point in the water flow hose

Lay and connect water hoses
(see photos 14 to 15 and diagram 4)

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

Connect the water hose ② to the discharge connection of the water pump.

Lay the water hoses ① and ③ in the bend upwards to the separation point.

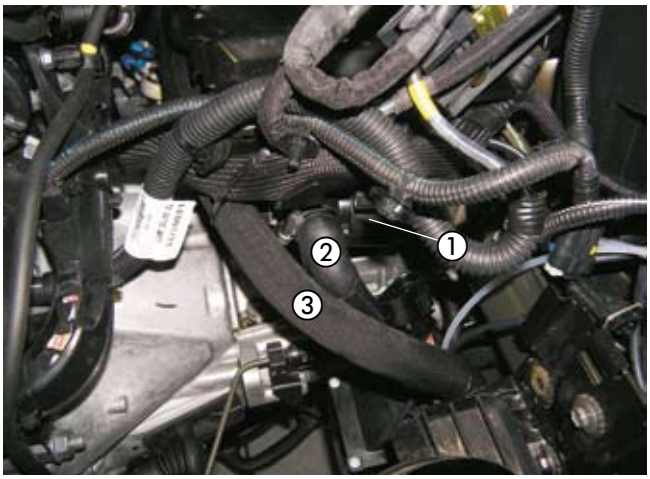


Photo 13

① Water pump
② Water hose ②
③ Water hose ③

Connect the water hose ① to the water flow hose piece from the engine, using the 18 mm Ø 180° elbow.

Connect the water hose ③ to the water flow hose pipe piece to heat exchanger, using the 18 mm Ø connection pipe.

Use a cable tie to secure the water hoses ① and ③ to each other and to the battery holder.

Please note!

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

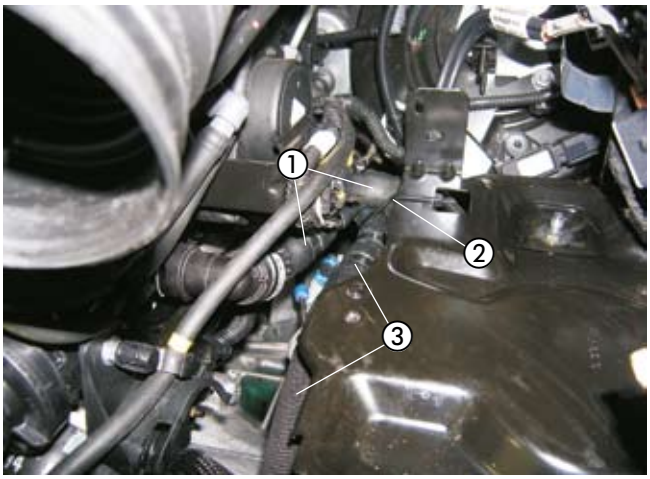


Photo 14

① Water hose ①
② Cable ties
③ Water hose ③

5 Fuel supply

Install fuel tank extractor
(see Photos 15 to 17 and Sketch 5)

Prepare the riser pipe of the fuel tank extractor as shown in the diagram.
Cut off the bottom end of the riser pipe to the correct length, at an angle of approx. 45°.

Remove the cover above the tank fitting.
Undo the plug-in connection and the fuel lines at the tank connection.
Remove the tank fitting from the tank opening by loosening the universal nut.

Please note!

The tank fitting should not be removed for longer than 10 minutes because of expansion of the tank!

Drill an 8 mm Ø hole in the pre-marked position in the upper section of the tank fitting.
Guide the fuel tank extractor through the prepared hole, screw tight with the M8 nut and align as shown in the photos.

Please note!

When drilling, ensure that no dirt gets into the the tank or supply lines.

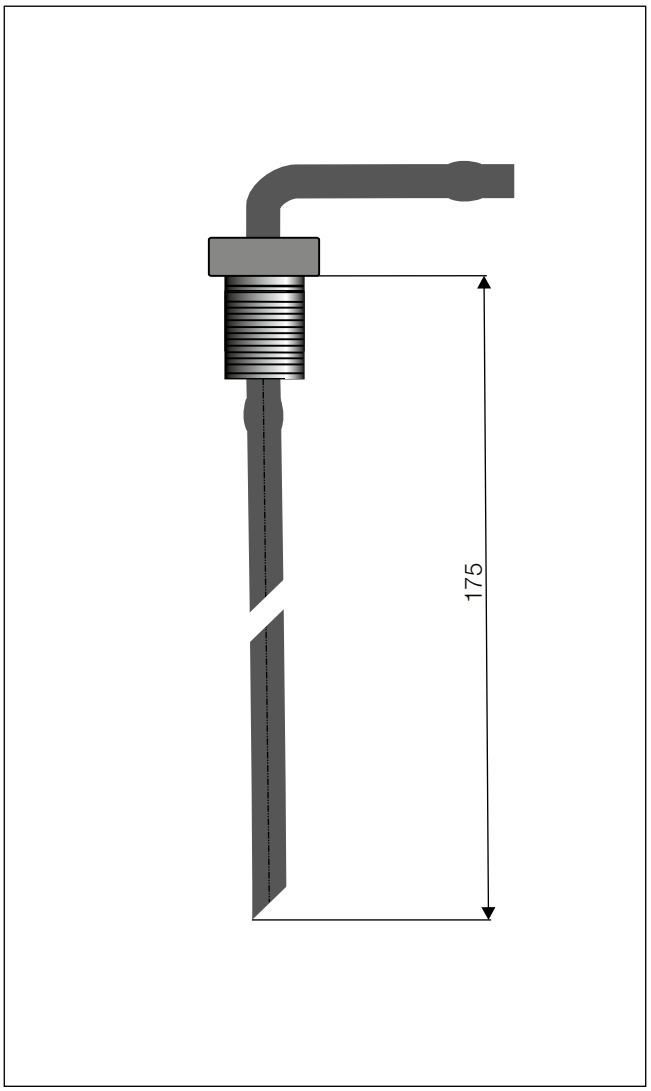


Diagram 5

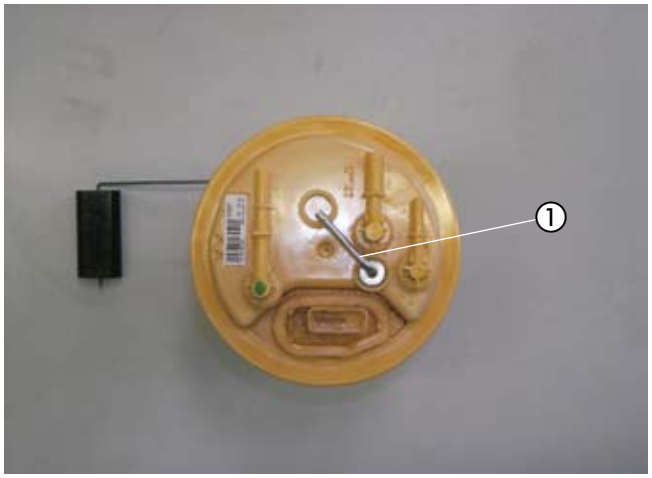


Photo 15

① Fuel tank extractor, installed

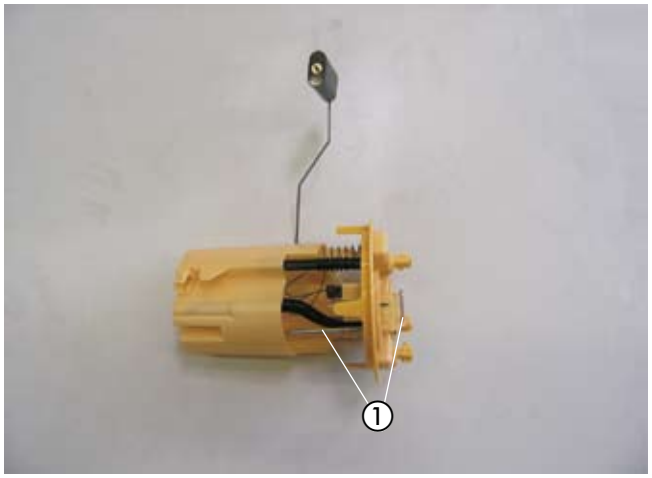


Photo 16

① Fuel tank extractor, installed

Insert the tank fitting back in the tank and ensure the seal fits properly.
Reconnect the plug-in connection and the fuel lines at the tank fitting.

Connect the 4 x 1 mm Ø fuel pipe with 3.5 x 3 mm Ø fuel hose, length 50 mm, to the intake connection of the fuel tank extractor and lay to the installation position of the metering pump on the left before the tank.

Secure the connection points with 9 mm Ø hose clips.
Put the cover back over the tank.

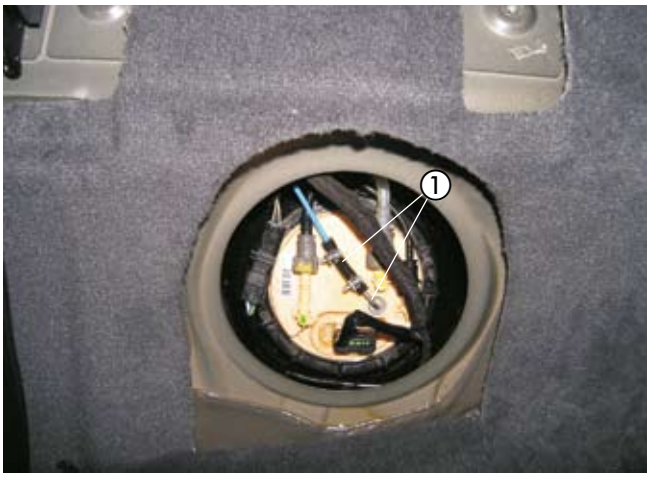


Photo 17

① Fuel tank extractor, connected

Install and connect the metering pump
(see photos 18 and 19)

Insert the metering pump in the rubber bracket and fasten to the 90° bracket (20 1348 03 0002) using an M6 x 20 screw and B6 body washer.
Using the 90° bracket, mount the metering pump to the underbody plate on the left of the tank to the existing stud bolt, using a plastic nut Dm 5.
Ensure it is installed with at least 15° rising gradient on the discharge side.
The discharge connection of the metering pump points towards the right.
Cut the 4 x 1 mm Ø fuel pipe from the fuel tank extractor to the metering pump and connect to the 3.5 x 3 mm Ø fuel hose, length 50 mm at the intake connection of the metering pump.

Lay the fuel pipe Ø 4 x 1.25 mm from the heater together with the metering pump cable through the vehicle's own cable duct on the right-hand underside of the vehicle to the metering pump.
Cut the 4 x 1.25 mm Ø fuel pipe to the correct length, connect to the discharge connections of the metering pump and fix with cable ties.
Remove the mating connector of the metering pump connection at the main cable harness.
Remove the dummy plugs from the mating connector.
Plug the connector of the supplied metering pump cable into the metering pump connection of the main cable harness.

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.

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.

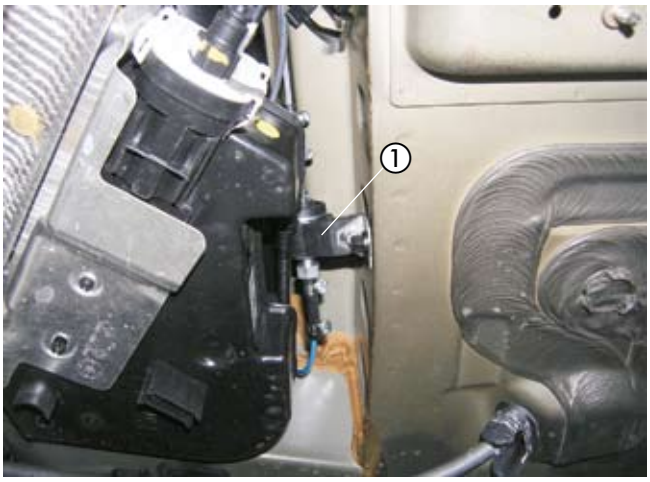


Photo 18

① Metering pump, installed



Photo 19

① Fuel pipe, 4 x 1.25 mm Ø and metering pump cable, laid

Mount the fuses and fan relay for vehicles with manual AirCon
(see photo 20 and diagrams 6 and 7)

Prepare the holder for the fuse and relay block as shown in the diagram.

Fasten the fuse holder with two M4 x 16 screws and the relay block with one M5 x 10 screw to the holder for the fuse and relay block.

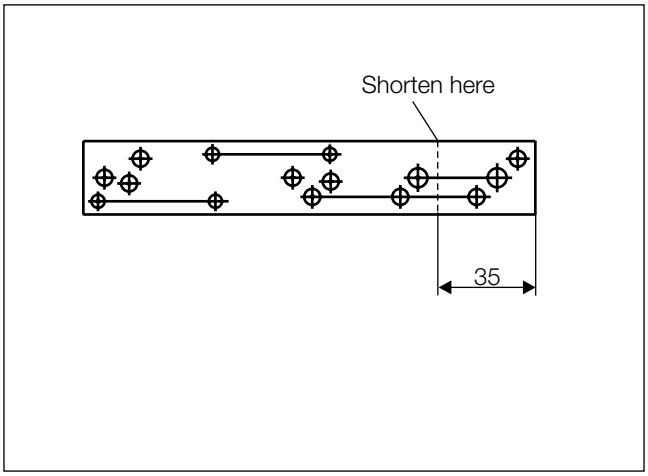


Diagram 6

Fit the holder of the fuse and relay block to the existing M5 Torx screw of the brake fluid header tank.

Remove the dummy plugs from the fuse base.
Latch the cable 4 mm² rt/ws from the relay base into the still free slot of the fuse base.

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

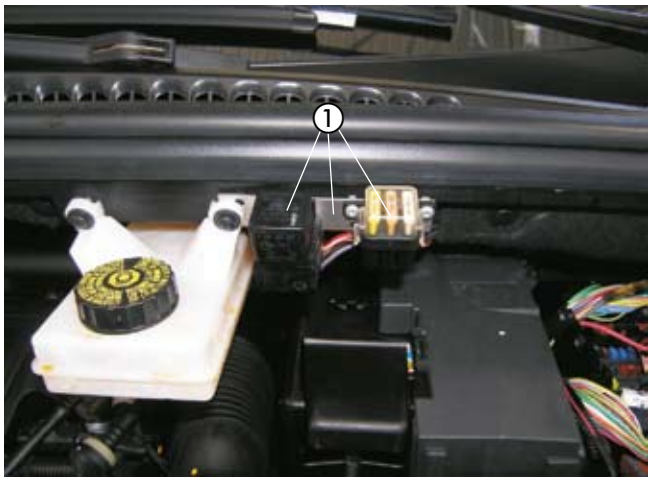


Photo 20

① Holder with fuses and fan relay, installed

Insert the 0.5 mm² br cable of the main cable harness in the relay block to terminal 2 (85) as shown in the diagram.

Lay the 1 mm² sw/rt cable from the IPCU block from the passenger compartment through the grommet into the engine compartment and to the relay.
Fit the 1 mm² sw/rt cables from the IPCU module and 0.5 mm² sw/rt cables from the main cable harness in a joint bushing connector and insert in the relay block at terminal 1 (86).

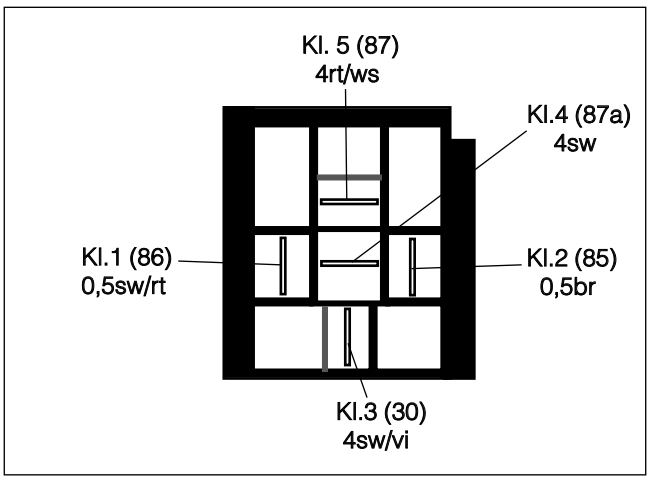


Diagram 7

View of the relay block from the cable inlet side

Cable laying
(see photo 21)

Take the "control unit" cable loom through the vehicle's cable grommet in the engine partition, to the left next to the brake servo respectively left behind the steering column, from the engine compartment into the passenger compartment.



Photo 21

① Cable grommet

Power supply
(see photos 22 and 23)

Crimp the A8 cable lug to the 4 mm² rt positive cable.
Take the 4 mm² rt positive cable to the positive connection point in the central fuse box and connect using the A8 cable lug.

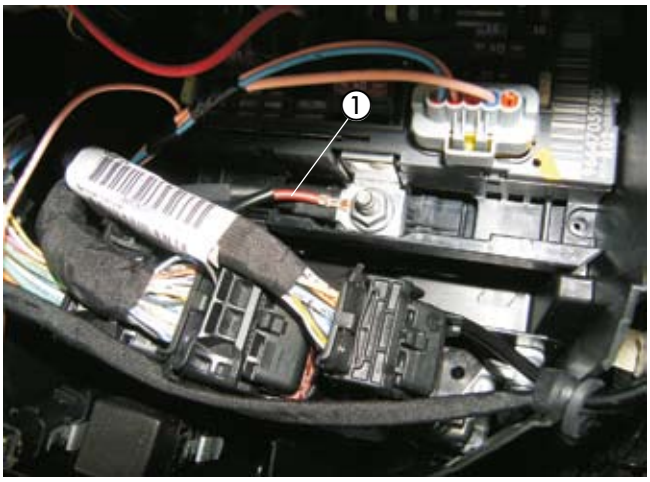


Photo 22

① Positive cable, connected

Take the 2.5 mm² br earth cable to the left to the wing support and connect to the existing earth point using the A6 cable lug.



Photo 23

① Earth cable, connected

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
in vehicles with manual AirCon
(see photos 24 to 27 and diagram 8)

Lay the "fan control" cable loom to the central fuse box on the left-hand side in the engine compartment.

Cut through the 4 mm² ws cable (PIN 2) at the 2-pin black connector and integrate the 4 mm² sw and 4 mm² sw/vi cables using yellow 4-6 mm² butt-type connectors according to the circuit diagram.

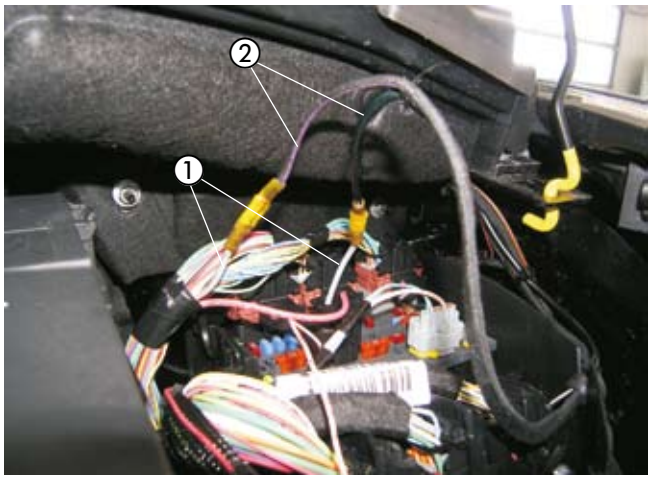


Photo 24

① 4 mm² ws cable (PIN 2), disconnected
② 4 mm² sw and 4 mm² sw/vi cables, integrated

Mount the connector block of the IPCU module to the supporting strut on the right in the driver's footwell, above the air duct, in the upper oblong hole using an M5 x 10 screw and a B5 body washer.
Insert the IPCU module in the connector block.

Connect the IPCU's 1 mm² br earth cable with the A6 cable lug to the existing M6 screw as shown in the photo.

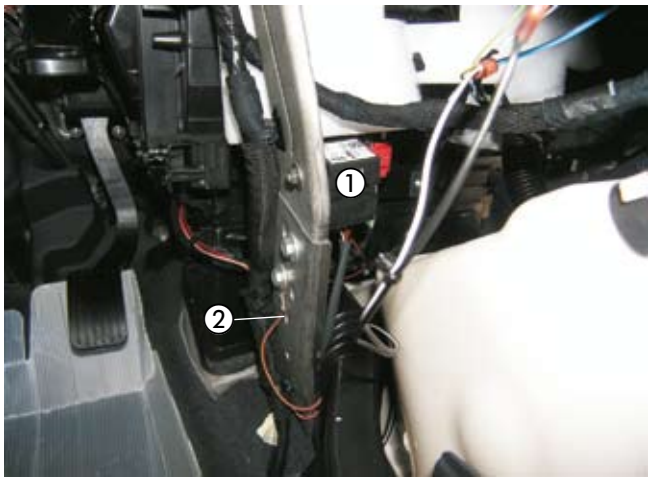


Photo 25

① Connector block with IPCU module
② Earth cable 1 mm² br

Disconnect the 0.35 mm² gn cable (PIN 3) at the 4-pin green connector of the brake light switch and integrate the 1 mm² rt/ws cable from the IPCU module using an 0.5 - 1.5 mm² butt-type connector, as shown in the circuit diagram.

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.

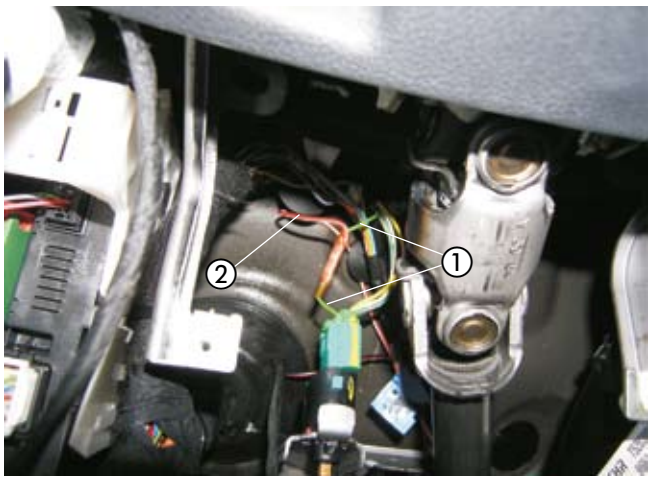


Photo 26

① 0.35 mm² gn cable, disconnected
② Cable 1 mm² rt/ws, integrated

Disconnect the 0.35 mm² ge cable (PIN 5) at the 6-pin black connector of the control unit and integrate the 1 mm² sw and 1 mm² sw/ws cables using 0.5 - 1.5 mm² butt-type connectors as shown in the circuit diagram.

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.

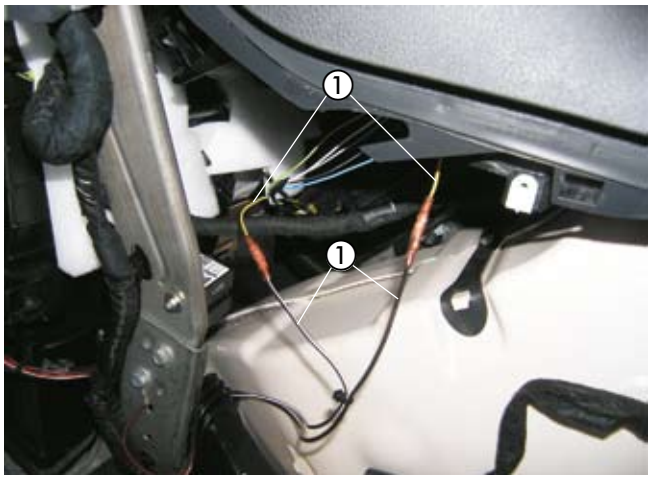


Photo 27

① 0.35 mm² ge cable, disconnected
② 1 mm² sw and 1 mm² sw/ws cables, integrated

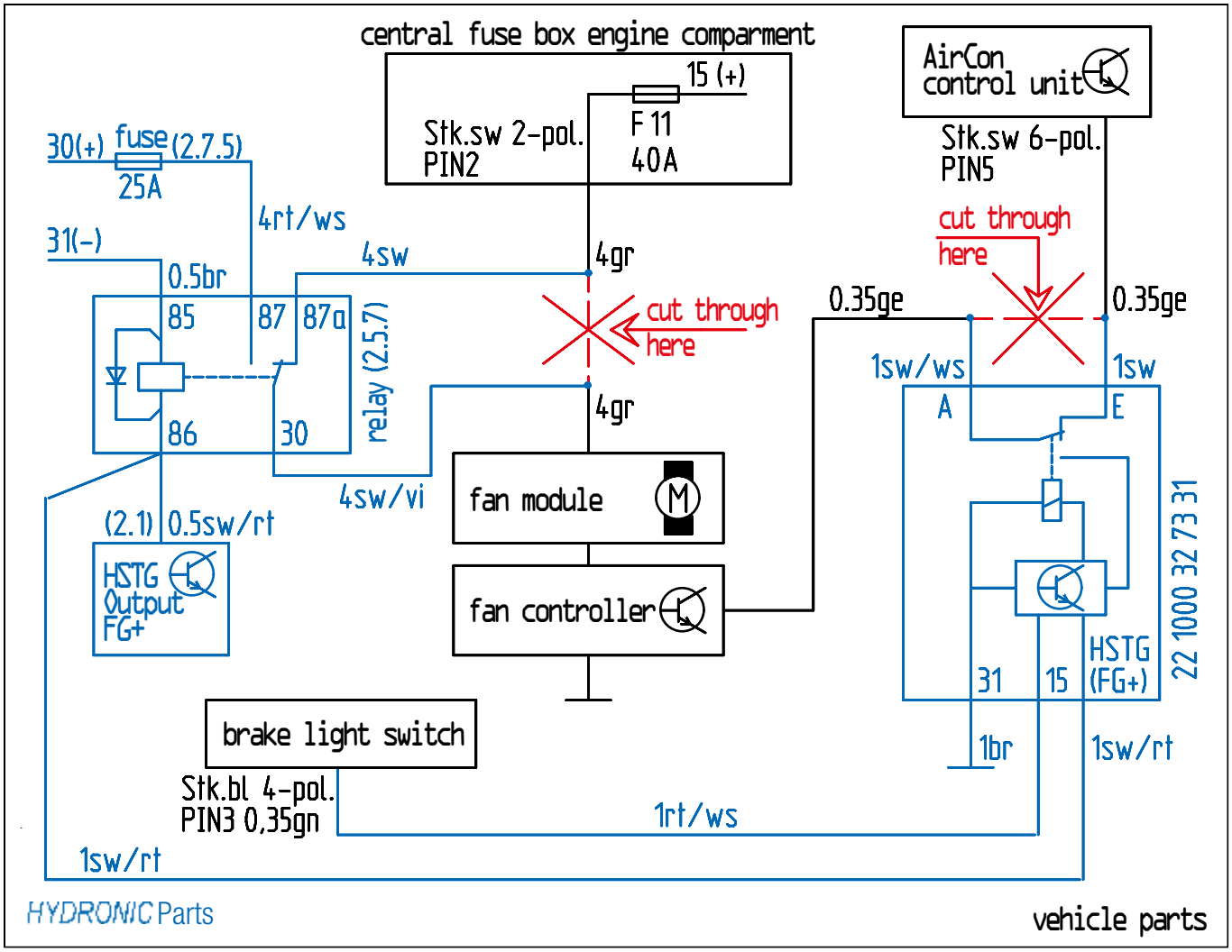


Diagram 8

Mount fuses and additional relay for vehicles with automatic AirCon
(see photo 28 and diagrams 9 and 10)

Prepare the holder for the fuse and relay block as shown in the diagram.

Fasten the fuse holder with two M4 x 16 screws and the relay block with one M5 x 10 screw to the holder for the fuse and relay block.

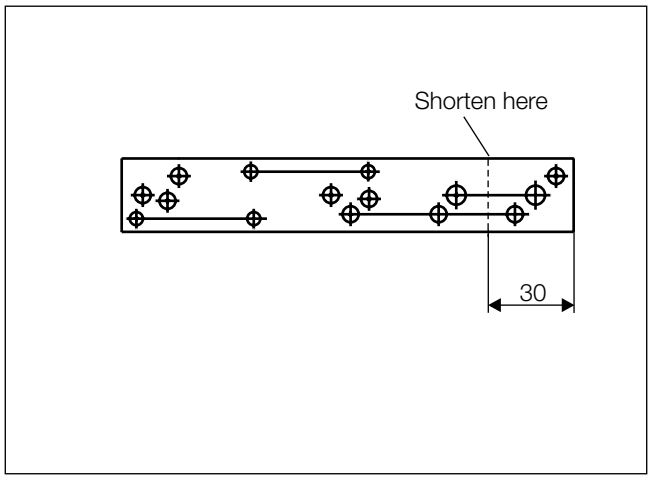


Diagram 9

Fit the holder of the fuse and relay block to the existing M5 Torx screw of the brake fluid header tank.

Remove the dummy plugs from the fuse base.
Latch the cable 4 mm² rt/ws from the relay base into the still free slot of the fuse base.

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

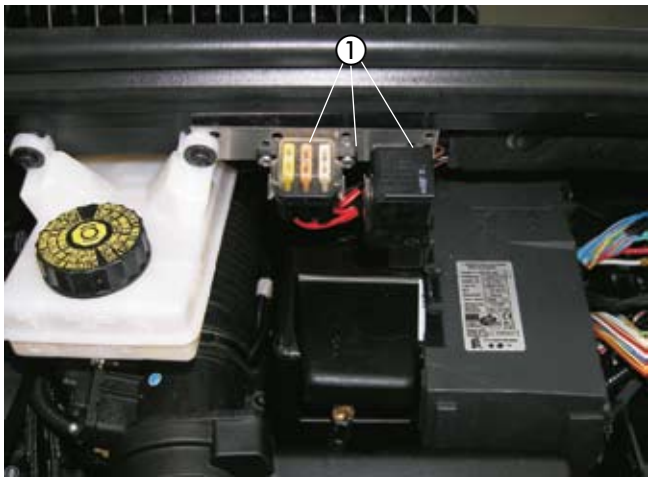


Photo 28

① Holder with fuses and additional relay, installed

Insert the 0.5 mm² br cable of the main cable harness in the relay block to terminal 2 (85) as shown in the diagram.

Lay the 1 mm² sw/rt cable from the IPCU block from the passenger compartment through the grommet into the engine compartment and to the relay.
Fit the 1 mm² sw/rt cables from the IPCU module and 0.5 mm² sw/rt cables from the main cable harness in a joint bushing connector and insert in the relay block at terminal 1 (86).

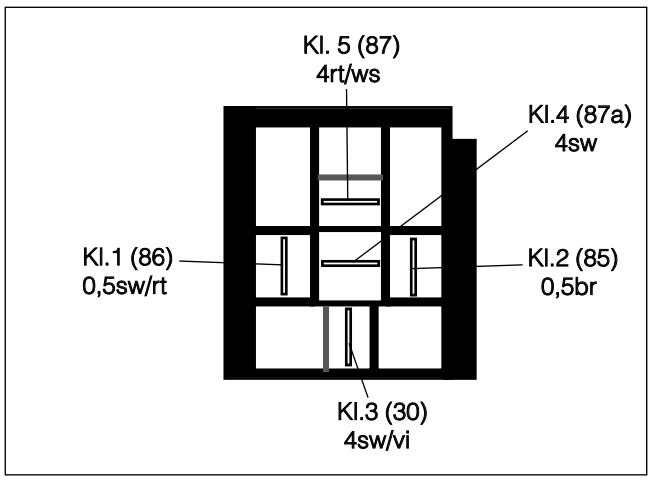


Diagram 10

View of the relay block from the cable inlet side

Cable laying
(see photo 29)

Take the "control unit" cable loom through the vehicle's cable grommet in the engine partition, to the left next to the brake servo respectively left behind the steering column, from the engine compartment into the passenger compartment.



Photo 29

① Cable grommet

Power supply
(see photos 30 and 31)

Crimp the A8 cable lug to the 4 mm² rt positive cable.
Take the 4 mm² rt positive cable to the positive connection point in the central fuse box and connect using the A8 cable lug.

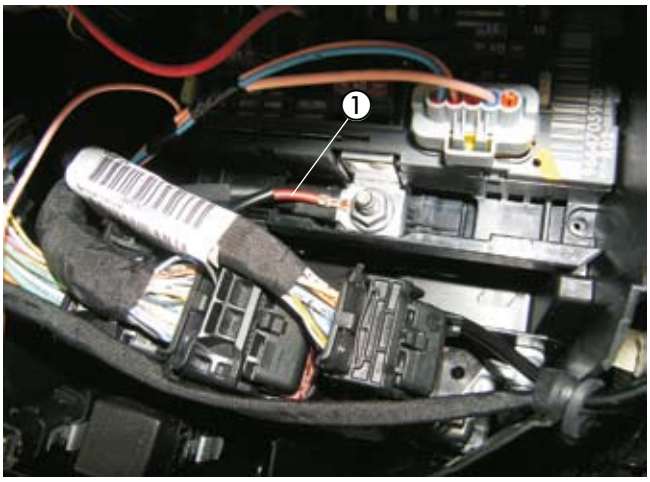


Photo 30

① Positive cable, connected

Take the 2.5 mm² br earth cable to the left to the wing support and connect to the existing earth point using the A6 cable lug.



Photo 31

① Earth cable, connected

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
for vehicles with automatic AirCon
(see photos 32 to 35 and diagrams 11 and 12)

Lay the "fan control" cable loom to the central fuse box on the left-hand side in the engine compartment.

Cut through the 4 mm² ws cable (PIN 2) at the 2-pin black connector and integrate the 4 mm² sw and 4 mm² sw/vi cables using 4-6 mm² butt-type connectors according to the circuit diagram.

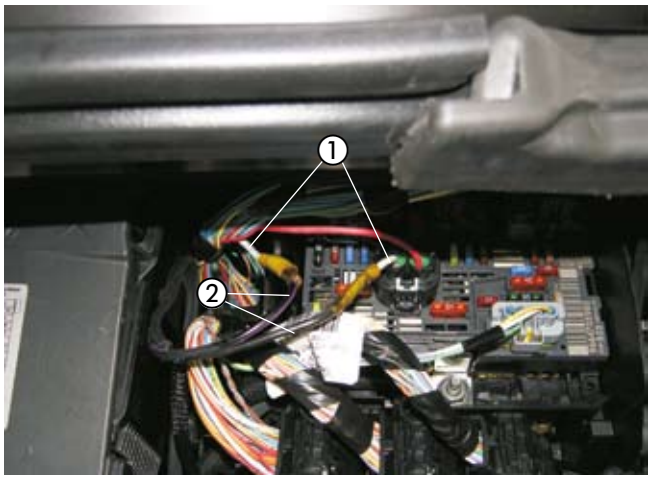


Photo 32

① 4 mm² ws cable (PIN 2), disconnected
② 4 mm² sw and 4 mm² sw/vi cables, integrated

Mount the connector block of the IPCU module and the connector block of the cut-off relay to the supporting strut on the right in the driver's footwell, above the air duct, in the upper oblong hole using an M5 x 10 screw and a B5 body washer.
Insert the IPCU module and the cut-off relay in the connector block.

Connect the 1 mm² br earth cable of the IPCU and of the cut-off relay with the A6 cable lug to the existing M6 screw as shown in the photo.

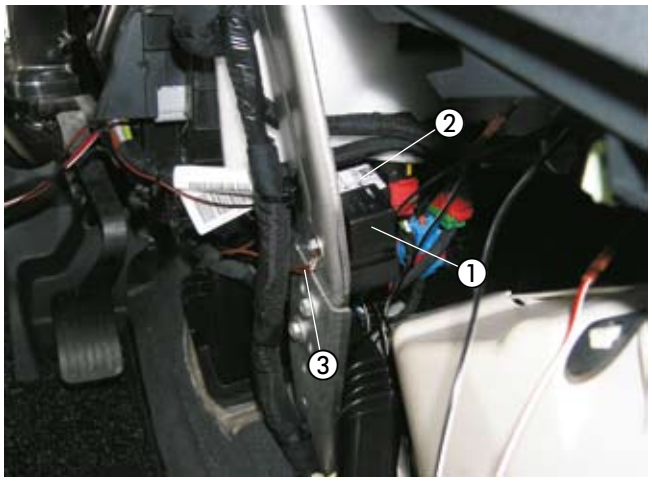


Photo 33

① Connector block with IPCU module
② Connector block with cut-off relay
② 2 x earth cable 1 mm² br

Disconnect the 0.35 mm² gn cable (PIN 3) at the 4-pin green-and-blue connector of the brake light switch and integrate the 1 mm² rt/ws cable from the IPCU module and 1 mm² sw/rt cable from the cut-off relay using a butt-type connector, as shown in the circuit diagram.

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.

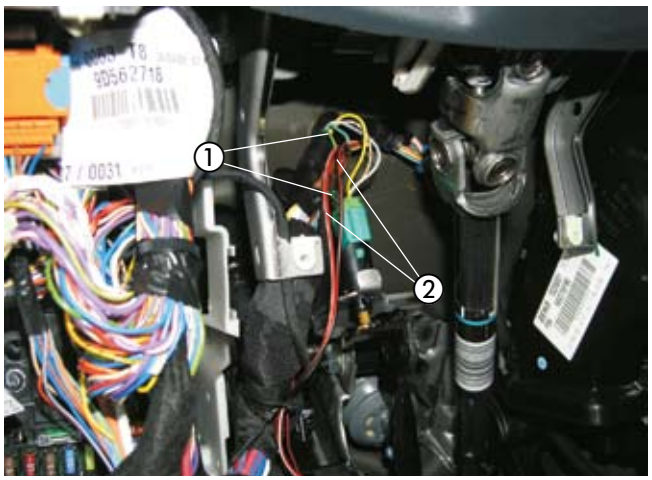


Photo 34

① 0.35 mm² gn cable, disconnected
② Cable 1 mm² rt/ws and sw/rt, integrated

Cut through the 0.5 mm² ge cable (PIN 13) at the 40-pin black connector of the control unit and integrate the 1 mm² sw and 1 mm² sw/ws cables from the IPCU unit using 0.5 - 1.5 mm² butt-type connectors as shown in the circuit diagram.
Cut through the 0.5 mm² vi cable (PIN 1) at the 6-pin black connector of the control unit and integrate the 1 mm² rt/sw and 1 mm² sw/ws cables from the cut-off relay using 0.5 - 1.5 mm² butt-type connectors as shown in the circuit diagram.

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.

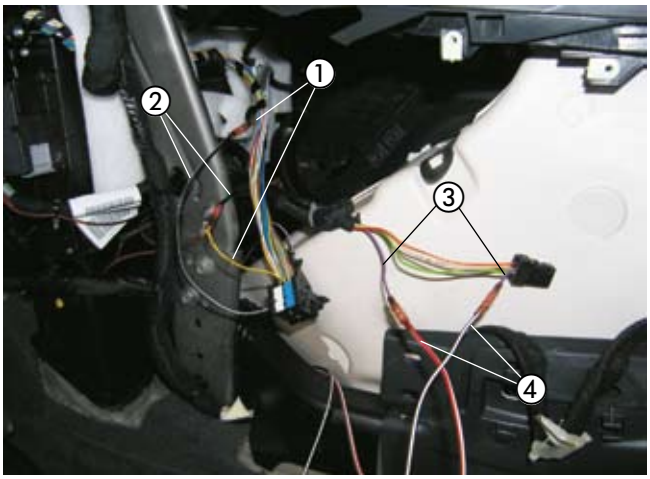


Photo 35

① 0.5 mm² ge cable, disconnected
② 1 mm² sw and 1 mm² sw/ws cables, integrated
③ 0.5 mm² rt cable, disconnected
④ 1 mm² rt/ws and 1 mm² sw/ws cables, integrated

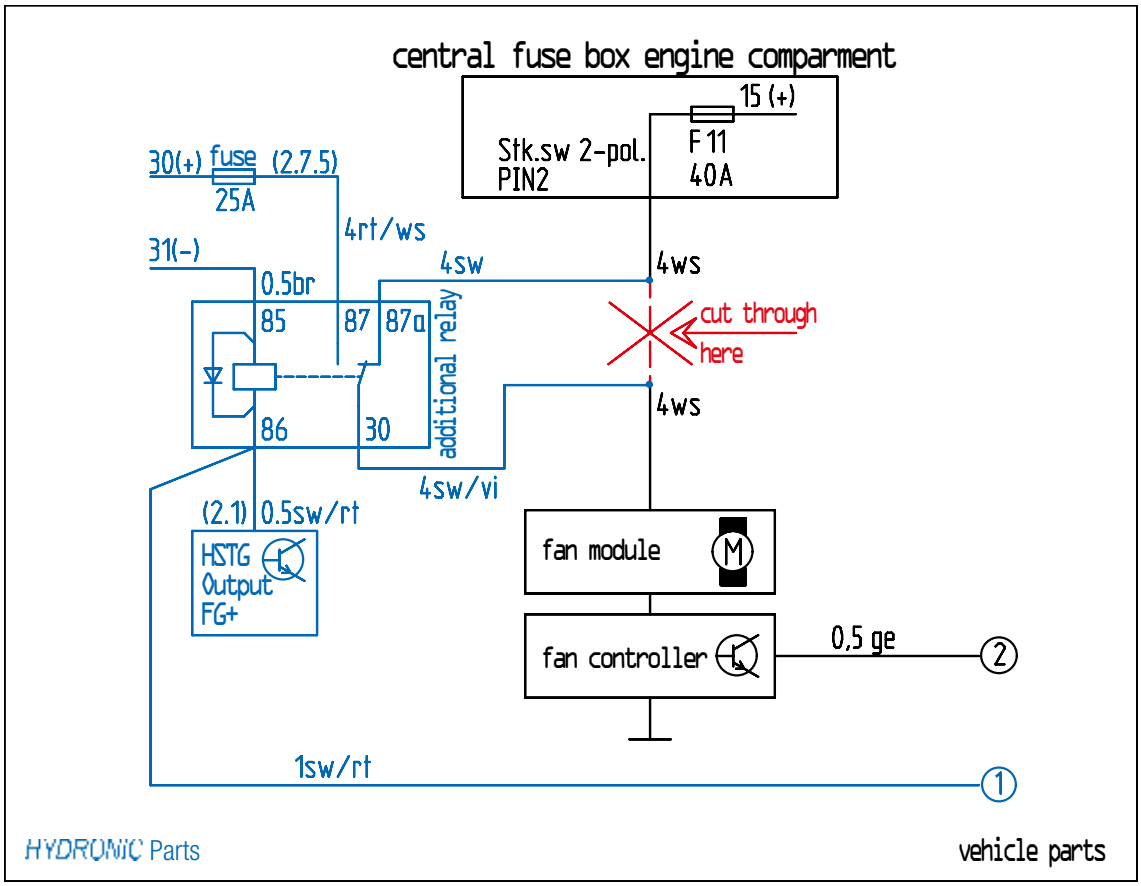


Diagram 11

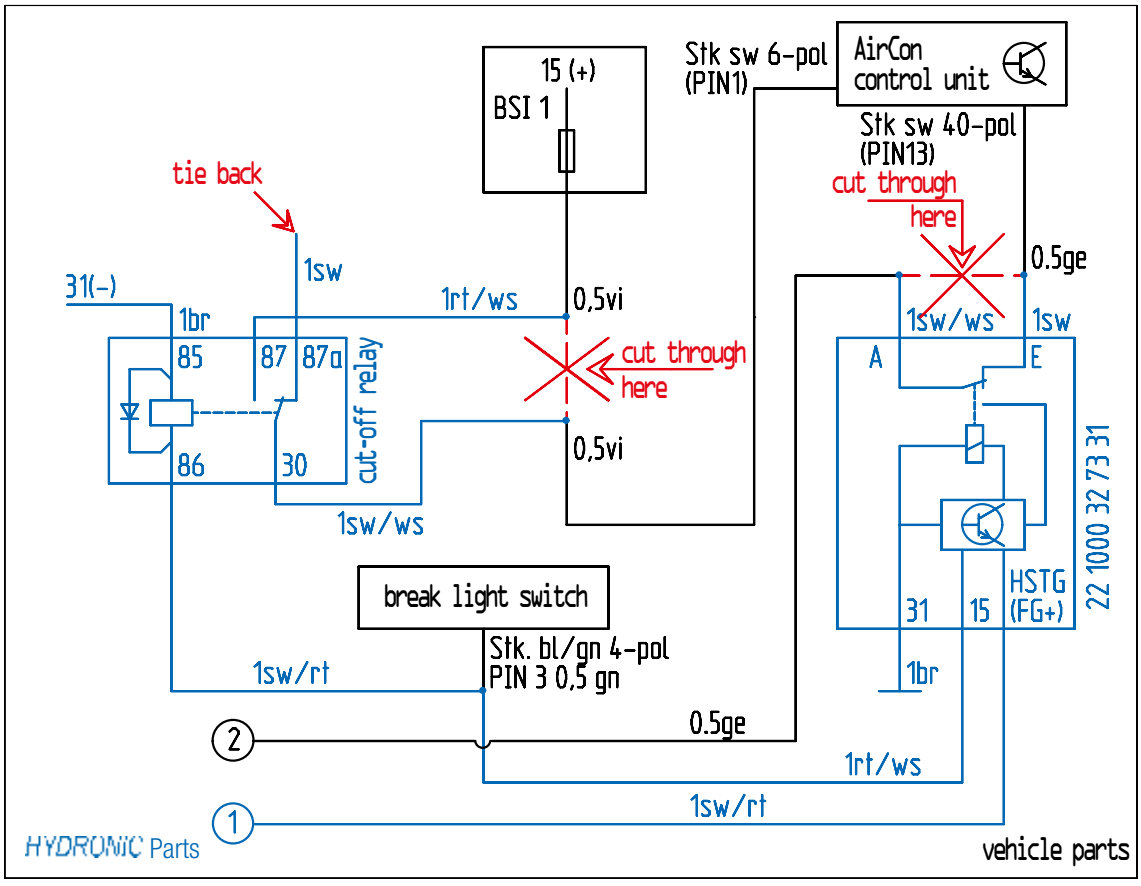


Diagram 12

Install EasyStart T
(see photo 36)

The EasyStart T is installed according to the "EasyStart T" installation instruction.

Mount the EasyStart T timer with the console to the left upper instrument panel covering.
To do so, adapt the console to the camber of the covering.

Align the console on the mounting surface and trace the drillholes onto the mounting surface.
Make the Ø 3 mm and Ø 8 mm holes.
Remove the drilling template after making the holes.
Fix the console using the B 3.5 x 19 fixing screws supplied.

Take the "control" lead harness through the 8 mm Ø hole and use the expansion plug to premount the timer in the 6.5 mm Ø hole.
Push or screw the fixing screw into the expansion plug and use it to fix the timer.

Insert the flat connector from the "Control" lead harness into the 9 pin flat connector housing and insert the ready mounted bushing connectors in 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 36

① EasyStart T, installed

Please note!

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

Install EasyStart R/R⁺ radio remote control
(Alternative suggestion - consult with the customer)
(see photos 37 to 38 and diagram 13)

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 to the cover on the left next to the gearshift lever.
To do so, make an 8 mm Ø hole and fit the button in the hole.



Photo 37

① EasyStart R/R⁺ button, installed

Prepare the holder for the stationary part of the EasyStart R/R+ as shown in the diagram.

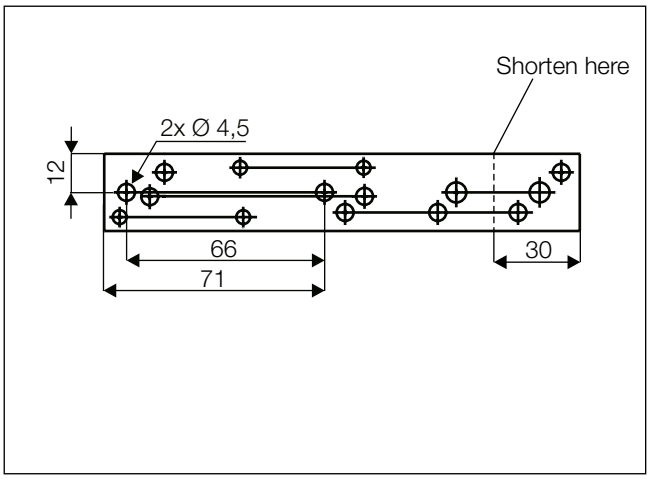


Diagram 13

Mount the stationary part of the EasyStart R/R+ with holder to the right supporting strut behind the steering column in the existing oblong hole using an M6 x 16 screw and B6 body washer.

Attach the temperature sensor of the EasyStart R/R+ in a suitable position to the panelling in the driver's footwell.

Connect the antenna cable of the EasyStart R/R+ to the stationary part, take it to the left and lay it in the rubber door seal on the driver's side.

Lay the cables from the installed button and temperature sensor together with the "Control" cable loom to the installed position of the stationary part and connect to the stationary part.

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 38

① EasyStart R/R+ stationary part, installed

7 After installation

Install grommet for exhaust pipe
(see photo 39)

Mount the lower cowling and take the exhaust pipe end through the opening as shown in the photo.

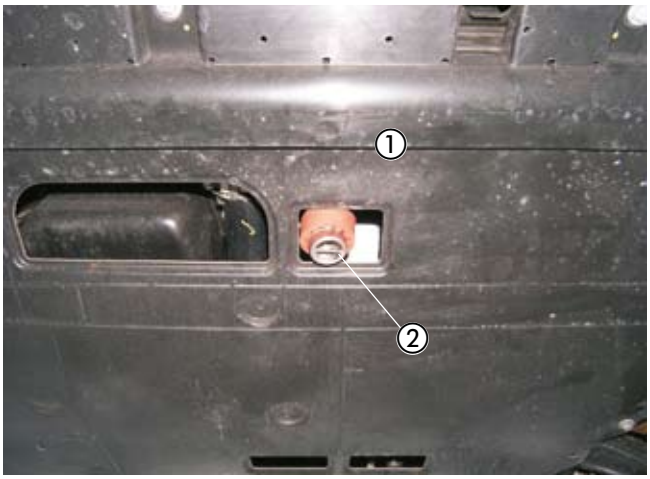


Photo 39

① Underbody covering, mounted
② Exhaust end pipe

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 time.
- If necessary, enter the radio code.
- Start the engine, vent the cooling system and check for leaks, top up any missing coolant 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 Instructions 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

No.	Designation	Quantity	Order number
1	Vehicle-specific installation kit		24 8462 00 00 00
	Heater holder, new	1	
	Hexagon screw M6 x 95	1	
	Lead harness, heater	1	
	Holder, fuse	1	
	Exhaust silencer	1	
	Exhaust pipe, L = 300 mm	1	
	Holder, water pump	1	
	Hose, shaped, 18 mm Ø	1	
	Hose clip, 16 - 25 mm Ø	1	
	Hose clip, 20 - 32 mm Ø	6	
	Pipe clamp, 26 - 28 mm Ø	3	
	Holder, metering pump	1	
	Lead harness, metering pump	1	
	Fuel hose, 3.5 x 3 mm Ø, L = 50 mm	3	
	Hose clip, one-piece with clamping jaws	6	
	Fuel pipe, 4 x 1 mm Ø	2 m	
	Fuel pipe, 4 x 1.25 mm Ø	5 m	
	Cable tape, 2.5 x 100 mm	10	
	Cable tape, 5.0 x 200 mm	20	
	Cable tie with internal toothing	5	
	Hexagon screw M4 x 16	2	
	Hexagon nut M4	2	
	Hexagon screw M5 x 10	1	
	Hexagon nut M5	1	
	Hexagon screw M6 x 16	5	
	Hexagon screw M6 x 20	1	
	Hexagon screw M6 x 30	1	
	Hexagon nut M6	7	
	Holder 93 06	2	
	Holder 93 05	1	
	Holder 93 01	1	
	Z-bracket	1	
	90° bracket	1	
	Holder R+	1	
	Hexagon screw M6 x 16	7	
	Hexagon nut M6	7	
	Body washer B6	1	
	Plastic nut DM5	1	
	Hexagon screw M5 x 10	1	
	Hexagon nut M5	1	
	Body washer B5	1	
	Hexagon screw M4 x 16	2	
	Hexagon nut M4	2	
	A8 cable lug, 2.5 mm^2	1	
	Butt-type connector, ge	2	
	Bushing connector	1	
	Exhaust pipe	0.35 m	
	Spacer rubber profile	1	
	Heat-shrink fit hose 40/20 mm Ø	1 m	
	180° elbow, 18 mm Ø	1	
	Connection pipe, 18 mm Ø	3	

8 Parts Overview

No.	Designation	Quantity	Order number
1	Vehicle-specific installation kit		24 8462 00 00 00
	Hose clip, 20 - 32 mm Ø	4	
	Angled neck	1	
	Fuel hose, 3.5 x 3 mm Ø	1	
	Clamp, 9 mm Ø	2	
	Fuel tank extractor	1	
	Fan loom	1	
	Relay	1	
	Edge protection	0.2 m	

9 Leaflet for the customer

Before switching on
in vehicles with manual AirCon
(see photo 1)

- Before switching on or pre-programming heating mode with the ignition switched on, set the vehicle's temperature controller ① to "Hot" (maximum setting).
- Switch the controller for the air system ② to Defroster. Maximum air directed to the front windscreen.
- The fan speed does not need to be pre-selected.



Photo 1

① Temperature controller
② Air system controller

Before switching on
in vehicles with automatic AirCon
(see photo 2)

- Before switching on or pre-programming the heating mode with the ignition switched on, set the vehicle's temperature controller ① to "HI" (maximum setting).
- Switch the button for the air system ② to Defroster. Maximum air directed to the front windscreen.
- The fan speed does not need to be pre-selected.



Photo 2

① Temperature controller
② Button for the air system