INSTALLATION RECOMMENDATION
HYDRONIC S3 – B5E IN THE TOYOTA COROLLA HYBRID (ZE1HE)



THIS INSTALLATION RECOMMENDATION APPLIES TO VEHICLES FROM MODEL YEAR 2019 WITH THE FOLLOWING MOTORISATION:

1.8 l cubic capacity / R4 SI engine + electric motor/ 72 kW - 98 HP (HSN: 5013 / TSN: AMU, AMV, AMY, ANL, ANM, ANP)
2.0 l cubic capacity / R4 SI engine + electric motor/ 112 kW - 153 HP (HSN: 5013 / TSN: AMW, AMX, ANH, ANI)

⚠ DANGER!
High voltage - risk of death!
Risk of death by electric shock!
Contact with live high voltage systems or components can result in the risk of death or serious health consequences.

➔ Work on high voltage systems or components may only be carried out by certified persons electrically trained for work on motor vehicles with high voltage systems or by certified electricians for high voltage systems in motor vehicles (specialist companies with staff qualified for work on automotive high voltage systems).

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This installation recommendation documents the installation of the Hydronic S3 heater in a vehicle of model year 2019 with the following equipment:

- **with 2 zone automatic AirCon**
- **with front wheel drive**
- **with automatic gearbox**

The following have not been checked:

- **Interior monitoring**

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.

Installation time: approx. 8 hours

1 INTRODUCTION

SPECIAL TEXT FORMATS, PRESENTATIONS AND PICTURE SYMBOLS

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

SPECIAL TEXT FORMATS AND PRESENTATIONS

- This dot (▪) denotes a list, which is 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 indicates the appropriate precaution to take to avert 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 equipment.

➔ This arrow indicates the appropriate precaution to take to avert the danger.

PLEASE NOTE!

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

SAFETY INSTRUCTIONS FOR INSTALLATION AND REPAIR

DANGER!

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

➔ Only authorised 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 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.

➔ 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 unauthorised 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.

ACCIDENT PREVENTION

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

1 INTRODUCTION

ADDITIONAL INFORMATION ON THE VALIDITY 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

Cubic capacity	kW / HP	Gearbox
1.8 hybrid	72 / 98	AT
2.0 hybrid	112 / 153	AT

AT = CVT automatic gearbox

PLEASE NOTE!

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

INITIAL STARTUP OF THE HEATER OR FUNCTIONAL TEST

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

PARTS REQUIRED FOR INSTALLATION

QUANTITY	DESIGNATION	ORDER NO.
1	Hydronic S3 - B 4 E CS	20 2007 05 00 00
1	Vehicle-specific installation kit	24 8000 30 01 10
	or	
1	Hydronic S3 - B 5 E CS	20 2008 05 00 00
1	Vehicle-specific installation kit	24 8000 30 01 10
EasyStart control unit as chosen:		
1	EasyStart Web	22 1000 34 78 00
1	EasyStart Remote+	22 1000 34 17 00
1	Easy Start Remote	22 1000 34 81 00

SPECIAL TOOLS REQUIRED

- Necessary torque wrench
- Anti-corrosion agent
- Pliers for spring band clamps
- Crimping tool
- Step drill

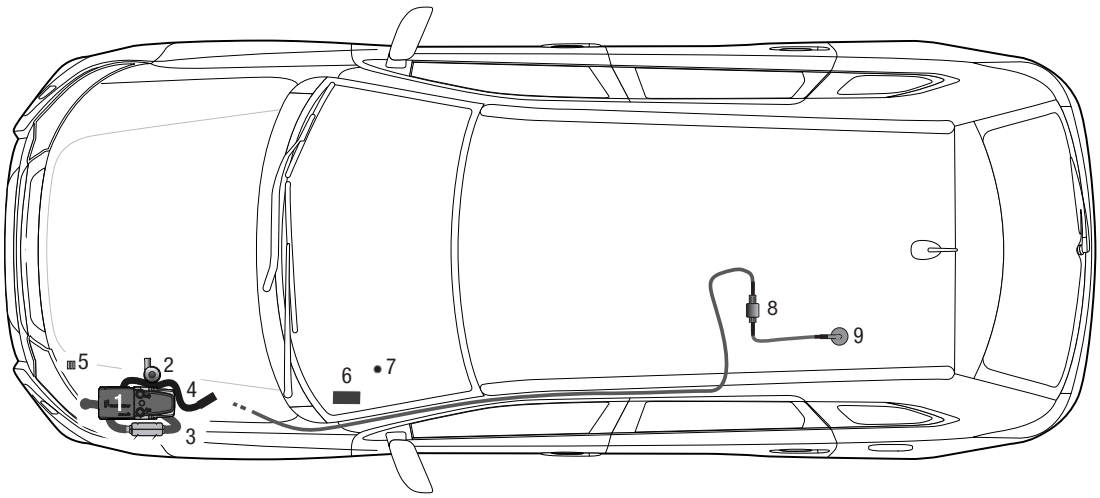
TIGHTENING TORQUES

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

Part name	Tightening torques
Hex screw M6	10 $^{+1}$ Nm
Hex screw M8	20 $^{+2}$ Nm
Hex screw M10	45 $^{+2}$ Nm
Self-threading M6 x 16 Torx screw	6 $^{+0.5}$ Nm
Screw M4 x 16	3 $^{+0.5}$ Nm
Screw M5 x 10	5 $^{+0.5}$ Nm
Pipe clip for exhaust pipe	7 $^{+1}$ Nm
Hose clip for water hose	3 $^{+0.5}$ Nm
Hose clip for combustion air pipe	3 $^{+0.5}$ Nm
Hose clip for fuel pipe	1 $^{+0.2}$ Nm

1 INTRODUCTION

INSTALLATION DRAWING



1 Heater Hydronic S3
2 Water pump
3 Exhaust pipe with exhaust silencer
4 Combustion air tube
5 Fuse holder
6 Receiver EasyStart Remote/Remote+/Web
7 Button EasyStart Remote/Remote+/Web
8 Metering pump
9 Tank extractor

2 PRELIMINARY ASSEMBLY

PREPARATORY WORK ON THE VEHICLE

- Dismantle the front bumper
- Disconnect and remove battery
- Dismantle top and bottom engine cowling
- Remove glove compartment
- Remove rear seat bench
- Remove the service flap over the tank fitting
- Depressurise the cooling system
- Drain coolant into a clean container

PREPARE HEATER
(see Figs. 1 to 3)

Install the elbowed water connection to the heater as shown; see Technical Description, “Installation” chapter, Section: “Installation of the water connection sockets”.

Remove the duplicate nameplate from the heater and adhere it the front top surface of the front crossbeam.

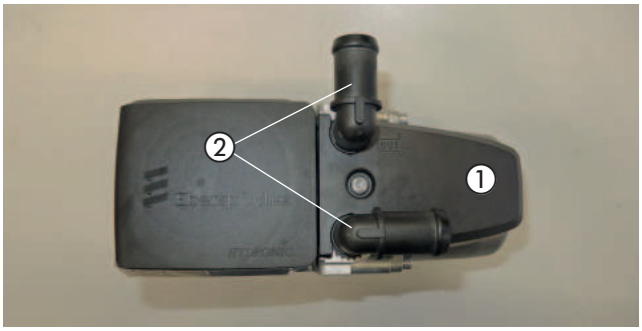


Fig. 1
① Heater
② Mount water connection socket to heater

Installation steps

- Grease the O-ring (5) and insert in the groove at the connection socket.
- Fit the connection socket (3 or 4) in the cut-outs of the sensor cover (2). The collar of the connection socket is above the cover.
- Position the connection socket with the gearing in the sensor cover and fix accordingly.
- Fit the sensor cover on the heater with the connection socket pointing forwards.
- Press the connection socket completely into the corresponding holes on the heat exchanger.
- Adjust the direction for the angled connection socket:
  – Raise the sensor cover up to the collar of the connection socket
  – Turn the connection socket in the required direction
  – Push the sensor cover down and readjust the position of the connection socket so that the gearing engages again
- Fasten sensor cover with M5 x 18 (1) screw
  (tightening torque $6.5^{+0.5}$ Nm).

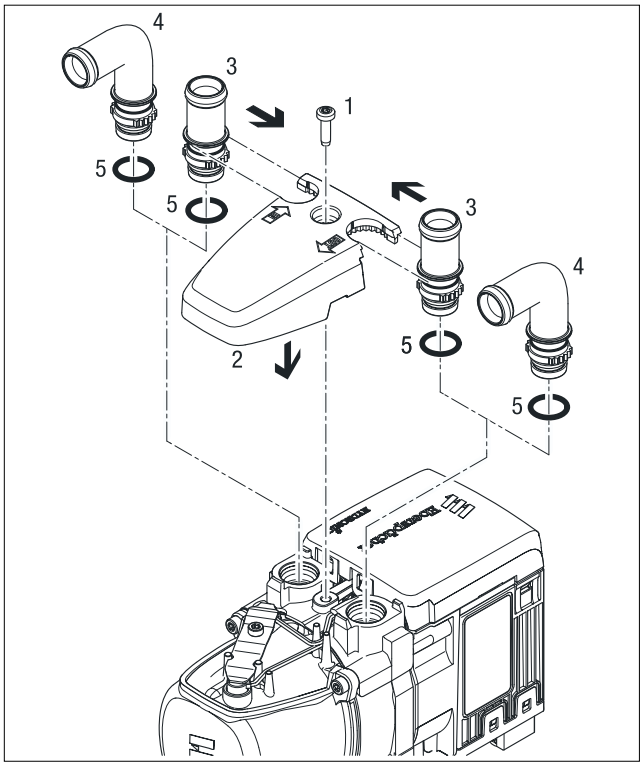


Fig. 2
1 M5 x 18 screw
2 Sensor cover
3 Connection socket, straight
4 Angled connection socket
5 O-ring

2 PRELIMINARY ASSEMBLY

Adhere heat shield material to the heater as shown.

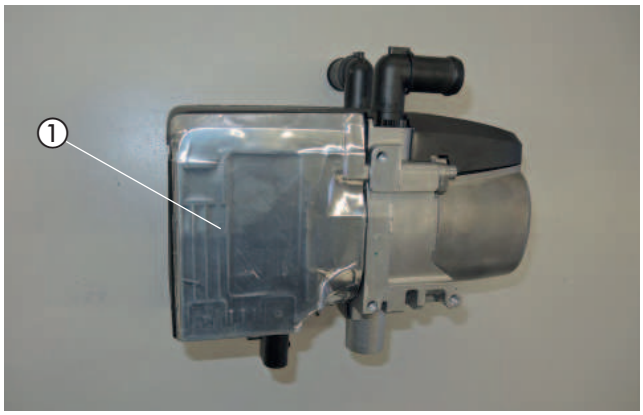


Fig. 3
① Adhere heat shield material to heater

PREPARE HEATER BRACKET
(see Fig. 4)

In the heater bracket, drill open the existing hole to 8.5 mm Ø as shown.

Shorten the water pump holder as show.

Mount holder 9303 and the shortened water pump holder to the heater bracket using an M6 x 12 screw in each case and align.

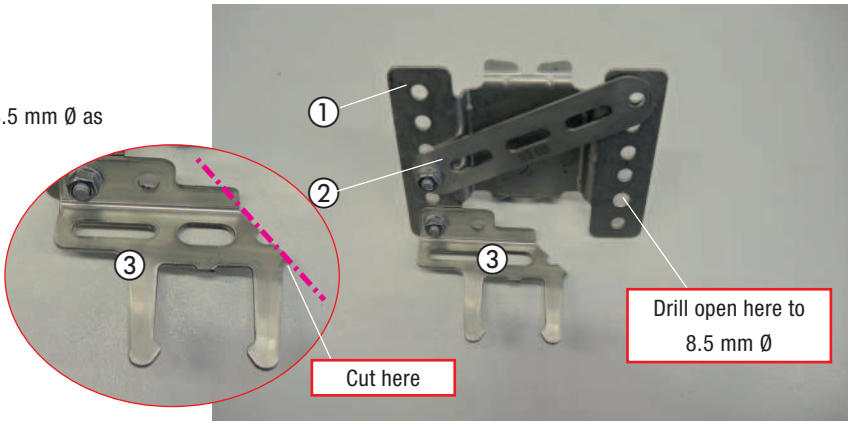


Fig. 4
① Heater bracket
② Bracket 9303
③ Holder, water pump

2 PRELIMINARY ASSEMBLY

PREPARE EXHAUST SYSTEM
(see Figs. 5 and 6)

Mount the exhaust silencer holder to the exhaust silencer using an M6 x 12 screw and align as shown.

Cut the exhaust pipe to a length of L = 230 mm and use a clamp to fasten it to the outlet connection of the exhaust silencer.
Push exhaust insulation L = 180 mm onto the exhaust pipe.

Cut the exhaust pipe end to a length of L = 120 mm and use a clamp to fasten it to the outlet connection of the exhaust silencer.
Push exhaust insulation L = 70 mm onto the exhaust pipe end.

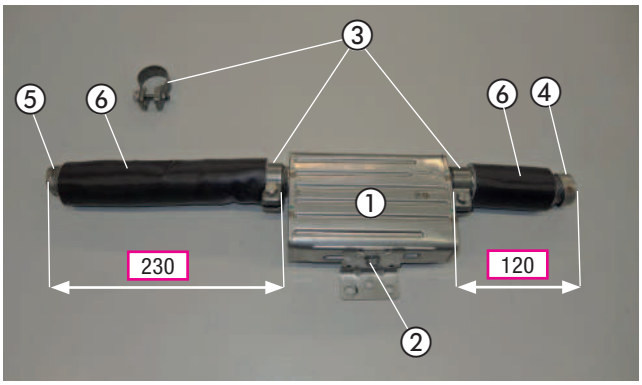


Fig. 5
① Exhaust silencer
② Exhaust silencer bracket
③ Clamp
④ Exhaust pipe L = 230 mm
⑤ Exhaust pipe end L = 120 mm
⑥ Exhaust insulation

Shape the exhaust pipe and the exhaust pipe end as shown.

Push another clamp onto the exhaust pipe.

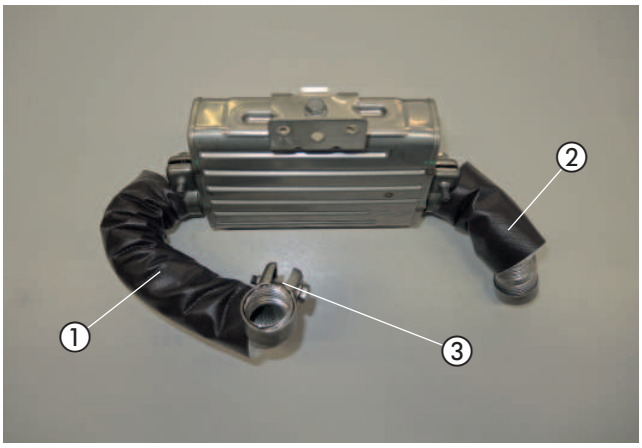


Fig. 6
① Shape exhaust pipe
② Shape exhaust pipe end
③ Push on clamping clip

2 PRELIMINARY ASSEMBLY

PREPARE WATER HOSES
IN VEHICLES WITH 2 L CAPACITY
(see Fig. 7)

Prepare water hoses 1 to 3 as shown.

PLEASE NOTE!

The water hoses are connected “inline” to the water circuit, refer to the Technical Description, in the chapter on “Installation” and here the section on “Connection to the Cooling Water Circuit”.

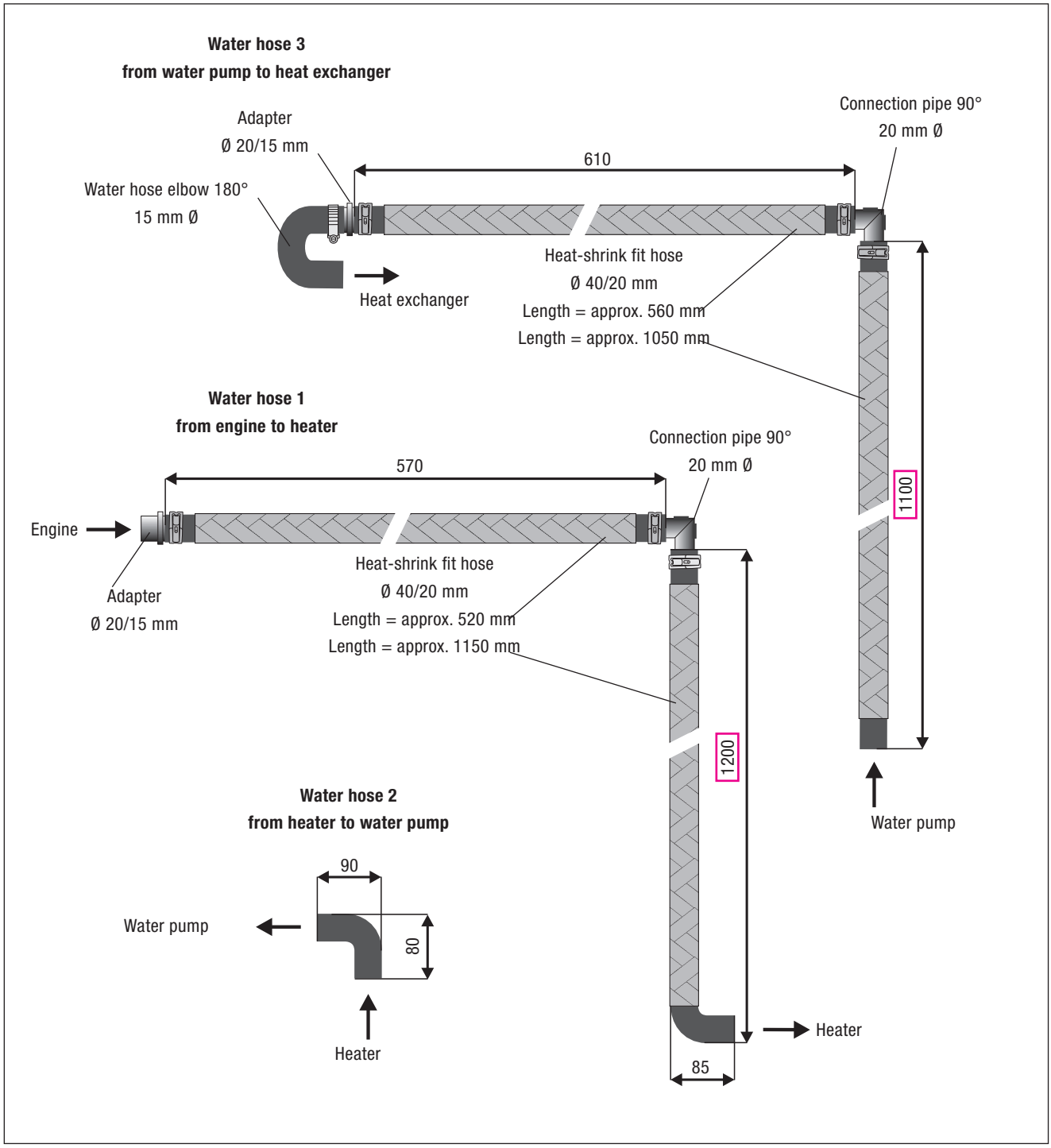


Fig. 7

2 PRELIMINARY ASSEMBLY

PREPARE WATER HOSES
IN VEHICLES WITH 1.8 L CAPACITY
(see Fig. 8)

Prepare water hoses 1 to 3 as shown.

PLEASE NOTE!

The water hoses are connected “inline” to the water circuit, refer to the Technical Description, in the chapter on “Installation” and here the section on “Connection to the Cooling Water Circuit”.

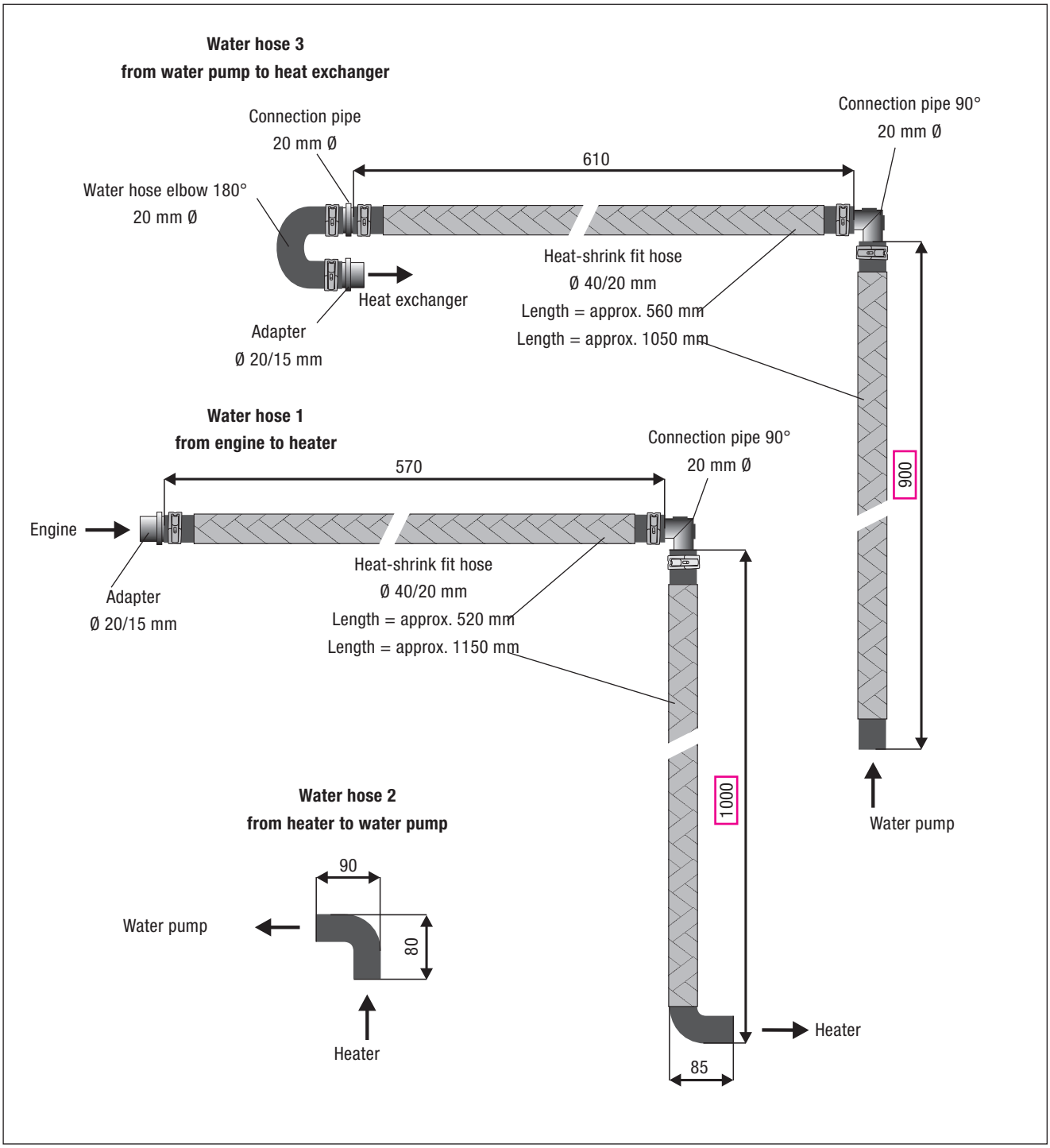


Fig. 8

2 PRELIMINARY ASSEMBLY

PREPARE WATER HOSES
IN VEHICLES WITH 2 L CAPACITY
(see Fig. 9)

The figure shows the prepared water hoses 1 to 3.

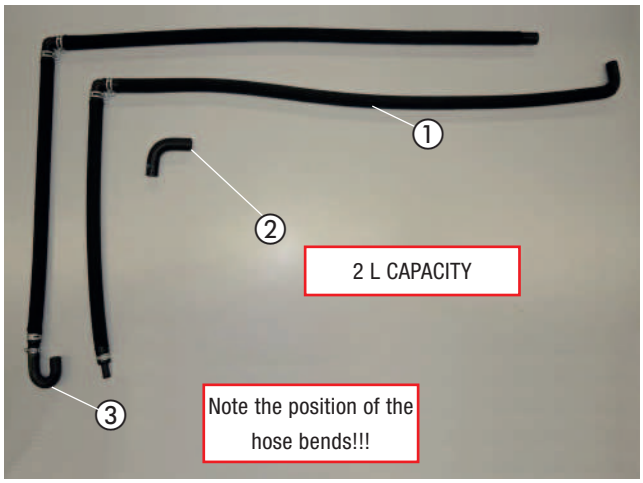


Fig. 9
① Water hose 1
② Water hose 2
③ Water hose 3

PREPARE WATER HOSES
IN VEHICLES WITH 1.8 L CAPACITY
(see Fig. 10)

The figure shows the prepared water hoses 1 to 3.

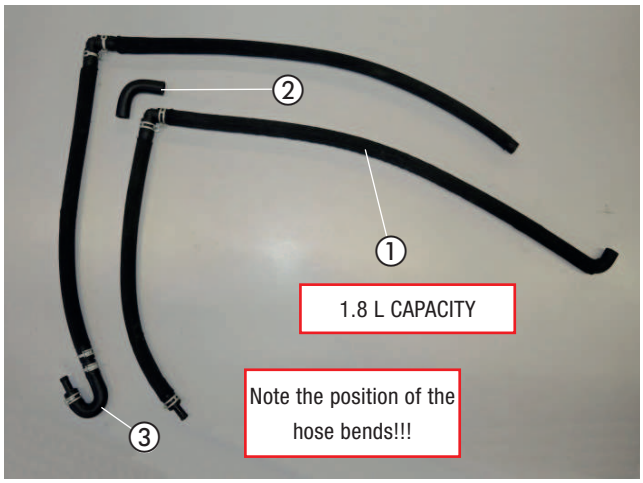


Fig. 10
① Water hose 1
② Water hose 2
③ Water hose 3

2 PRELIMINARY ASSEMBLY

PREMOUNT METERING PUMP
(see Fig. 11)

Insert the metering pump in the rubber bracket as shown.

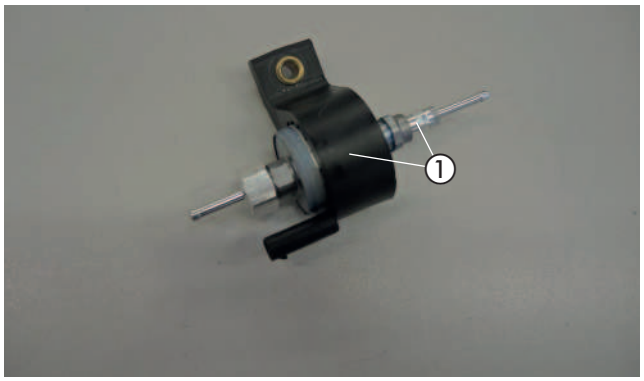
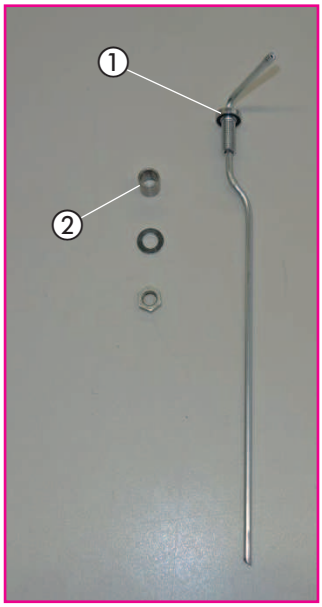


Fig. 11
① Insert metering pump in rubber bracket

TANK EXTRACTOR
(see Fig. 12)

Shape the tank extractor with the dimensions shown.
Remove the Silon inlay from the tank extractor.



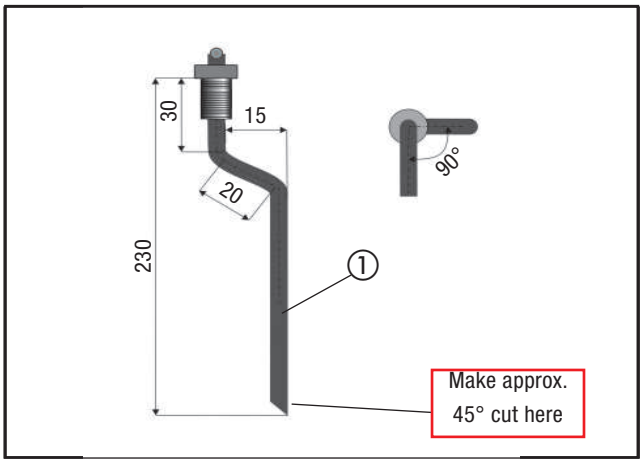


Fig. 12
① Prepare fuel tank extractor
② Make spacer sleeves ready

2 PRELIMINARY ASSEMBLY

PREPARE FUEL PIPE (INTAKE LINE)
(see Fig. 13)

Cut off a length of L = 2.00 m for the intake line from the complete fuel pipe.
The other end acts as delivery line.

Push the 3.5 mm Ø fuel hose onto the 4 x 1 mm Ø fuel pipe and fasten with a 9 mm Ø clip.

Make another 3.5 mm Ø fuel hose and another 9 mm Ø clip ready for installation later on.

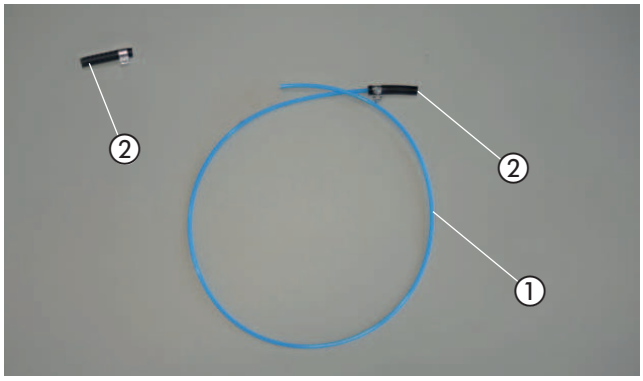


Fig. 13
① Prepare fuel pipe (intake line)
② Fuel hose 3.5 mm Ø

PREPARE FUEL PIPE (DELIVERY LINE)
(see Fig. 14)

The other end of fuel pipe length
L = approx. 6 m acts as delivery line.

Fasten the metering pump cable of the main cable loom to the fuel pipe (delivery line) using insulating tape.
Fasten the 4.5 x 3.5 mm Ø fuel hose to the fuel pipe (delivery line) and fasten to the 3.5 mm Ø with the 9 mm Ø clip.

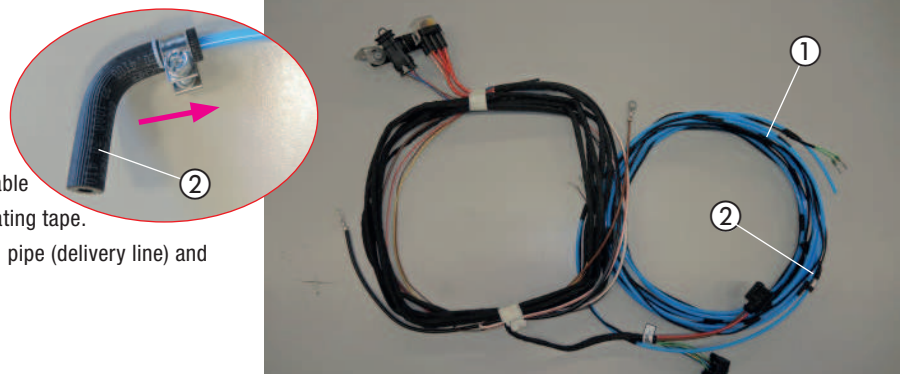


Fig. 14
① Premount fuel pipe (delivery line) length L = 6 m with metering pump cable
② Fuel hose 4.5 x 3.5 mm Ø

⚠ CAUTION!
Push the 4.5 x 3.5 mm Ø fuel hose with the white marked side onto the fuel pipe (delivery line). Connect the unmarked side to the heater.

PREASSEMBLE FUSE BLOCK
(see Fig. 15)

Use an M6 x 12 screw and a M6 nut to mount the holder 9501 to the holder for the fuse block holder and align as shown.

Fasten the fuse block to the fuse block holder using two M4 plastic rivets.

Slot the connector holder in the hole drilled in the fuse holder.
Fasten the diagnostic connector in the connector holder.

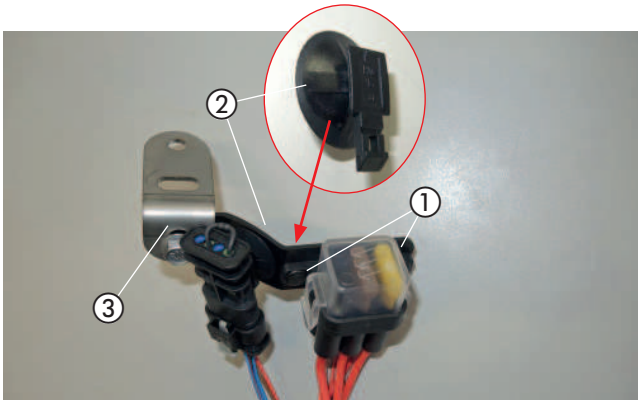


Fig. 15
① Mount the fuse block on the holder
② Connector holder with diagnostic connector
③ Bracket 9501

2 PRELIMINARY ASSEMBLY

PREASSEMBLE THE STATIONARY PART OF THE EASYSTART REMOTE/ REMOTE+
(see Fig. 16)

Use two M4 x 10 screws to install the stationary part of the EasyStart Remote/Remote+ to the 90° holder and mount with two M4 nuts as shown.

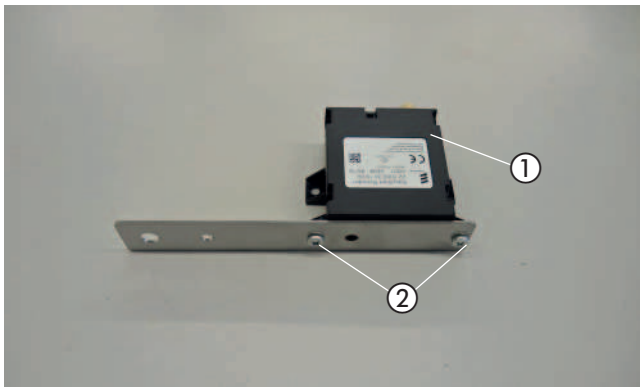


Fig. 16
① Holder for stationary part of EasyStart Remote/Remote+
② Mount the stationary part of the EasyStart Remote/Remote+

PREMOUNT STATIONARY PART OF EASYSTART WEB
(see Fig. 17)

Fasten the stationary part of the EasyStart Web to the 90° holder using two M4 x 10 screws and two M4 nuts as shown.

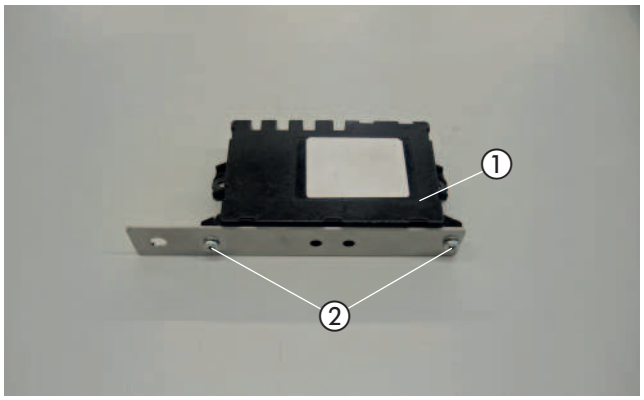


Fig. 17
① Prepare holder for the stationary part of the EasyStart Web
② Install stationary part of the EasyStart Web

3 INSTALLATION

PREPARE THE INSTALLATION POSITION
(see Fig. 18)

The installation position for the heater is on the outside of the left chassis beam.
The figure shows the existing threaded hole M8 (1st fastening point) and the existing oblong hole (2nd fastening point).

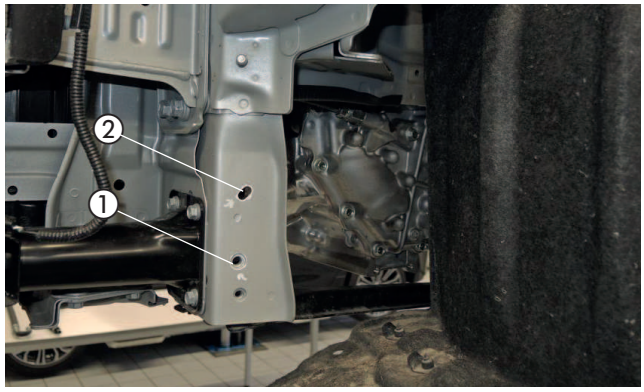


Fig. 18
① Existing M8 threaded hole (1st fastening point)
② Existing oblong hole (2nd fastening point)

MOUNT UNIT BRACKET
(see Figs. 19 and 20)

Position the unit bracket to the outer edge of the left chassis beam as shown and fasten with an M6 x 16 screw (1st fastening point).
At the 2nd fastening point, fasten the unit bracket and the 9303 holder with an M6 x 16 screw and an M6 nut.

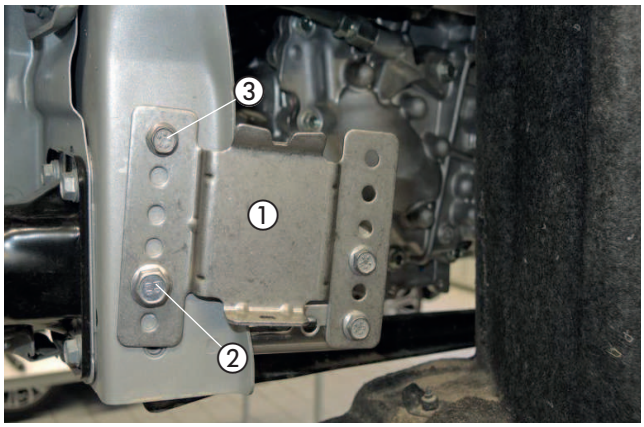


Fig. 19
① Position unit bracket
② Screw M8 x 16 (1st fastening point)
③ Screw M6 x 16 (2nd fastening point)

The figure shows the mounted unit bracket and the 9303 holder from the inside of the left chassis beam.

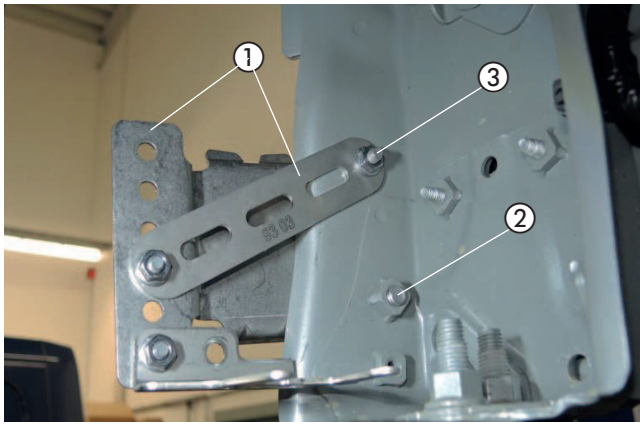


Fig. 20
① Premounted unit bracket and holder 9303
② Screw M8 x 16 (1st fastening point)
③ Screw M6 x 16 (2nd fastening point)

3 INSTALLATION

INSTALL WATER PUMP
(see Fig. 21)

Insert the water pump into the ready mounted water pump holder as shown.

The discharge end points to the right and the intake end points upwards.

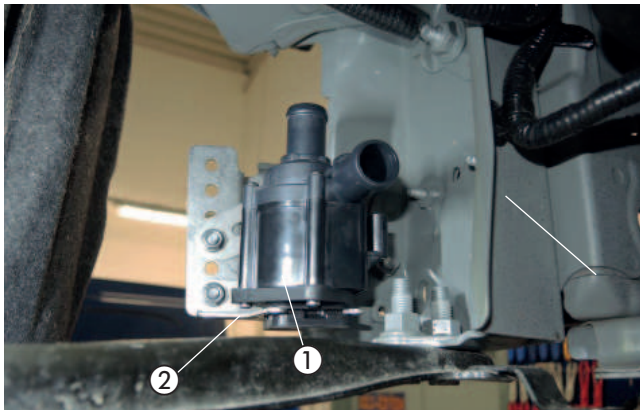


Fig. 21
① Water pump
② Premounted water pump holder

INSTALL HEATER
(see Fig. 22)

Fasten the heater with two self-threading M6 x 16 screws to the heater bracket from behind as shown.



Fig. 22
① Prepared heater
② Self-threading Torx screw M6 x 16

MOUNT AND LAY COMBUSTION AIR PIPE
(see Fig. 23)

Use a 16 - 25 mm Ø hose clip to connect the combustion air pipe to the heater and lay in the protected area of the left wheel arch.

Use cable ties to secure the combustion air pipe.

⚠ CAUTION!
Lay the combustion air silencer so that only clean, dry combustion air can be drawn in through the heater.

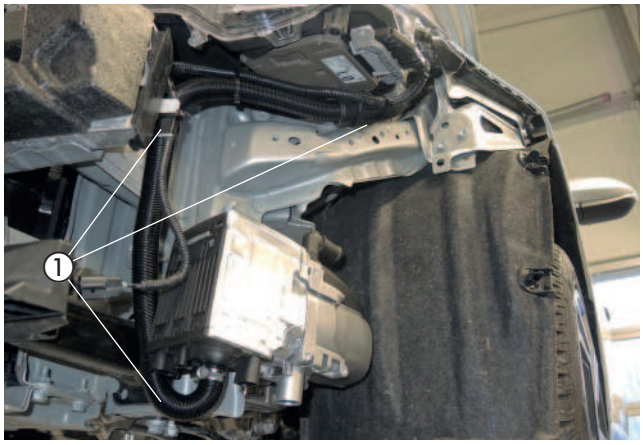


Fig. 23
① Connect and lay combustion air pipe

3 INSTALLATION

MOUNT EXHAUST SYSTEM
(see Figs. 24 and 25)

Mount the prepared exhaust silencer to the heater jacket using a self-threading M6 x 16 screw and align as shown.

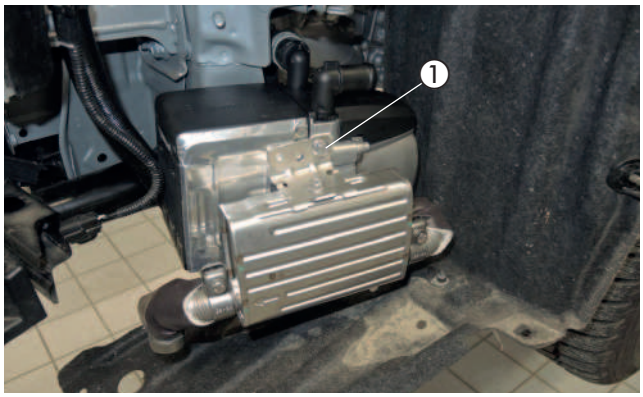


Fig. 24
① Mount the exhaust silencer

Use a clip to connect the exhaust pipe to the exhaust connection of the heater.

Align the rubber spacer profile as shown

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

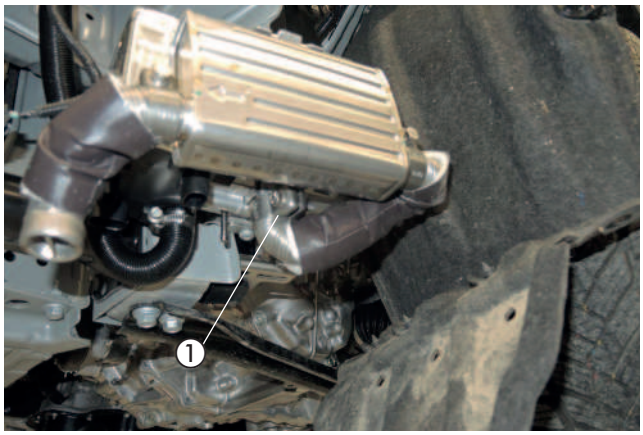


Fig. 25
① Connect the exhaust pipe
② Align rubber spacer

MOUNT EXHAUST GROMMET
(see Fig. 26)

Drill a 38 mm Ø hole on the left side of the cowling with the dimensions as shown.

Insert the exhaust grommet in the drilled hole.

Take the exhaust pipe end through the ready fitted exhaust grommet.

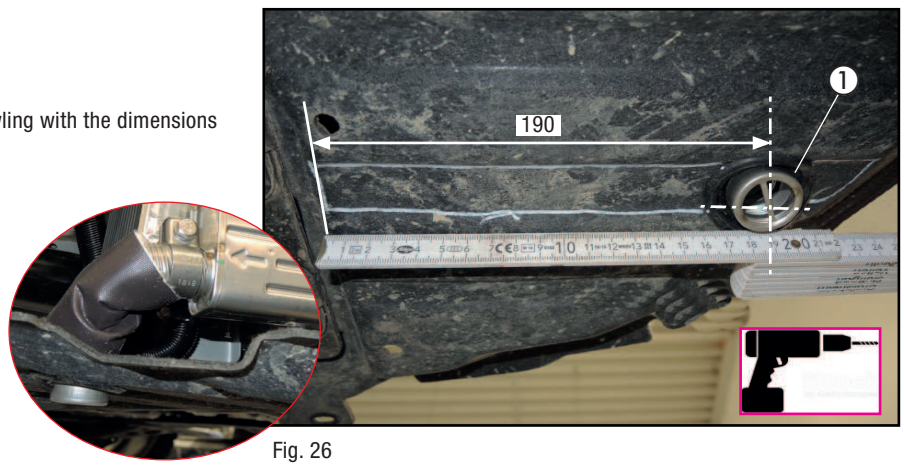


Fig. 26
① Mount exhaust grommet
② Guide the exhaust pipe end through the exhaust grommet

3 INSTALLATION

CUT WATER FLOW HOSE
IN VEHICLES WITH 2 L CAPACITY
(see Fig. 27)

Pull the water flow hose (left water hose at the heat exchanger) from the water connection socket of the engine after loosening the spring band clamp as shown.

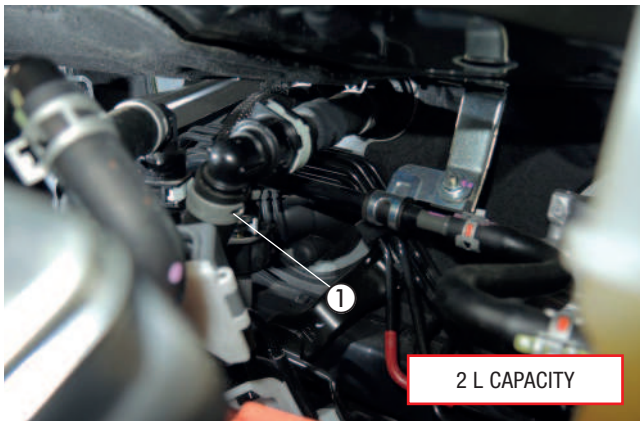


Fig. 27
① Cutting point in the water flow hose

CUT WATER FLOW HOSE
IN VEHICLES WITH 1.8 L CAPACITY
(see Fig. 28)

Cut the water flow hose (the left water hose at the heat exchanger) according to the dimensions shown.

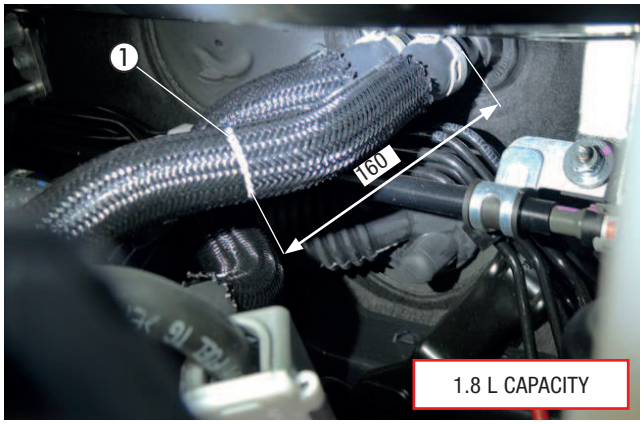


Fig. 28
① Cutting point in the water flow hose

CONNECT AND LAY WATER HOSES
(see Figs. 29 to 33)

Connect water hose 2 to the water outlet connection of the heater and to the intake end of the water pump with a hose clip in each case.

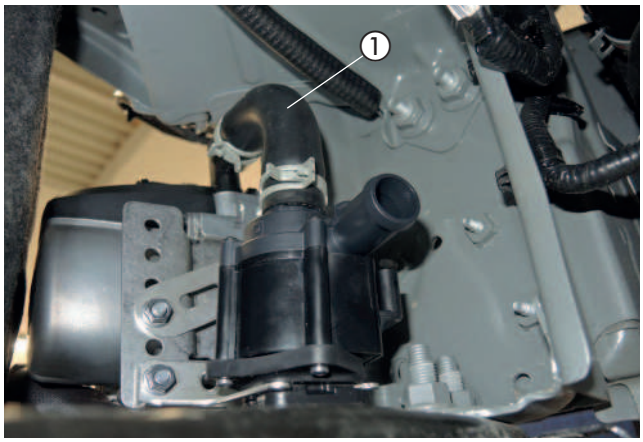


Fig. 29
① Connect water hose 2

3 INSTALLATION

Connect water hose 1 at the water intake connection of the heater and lay it into the engine compartment on the right.

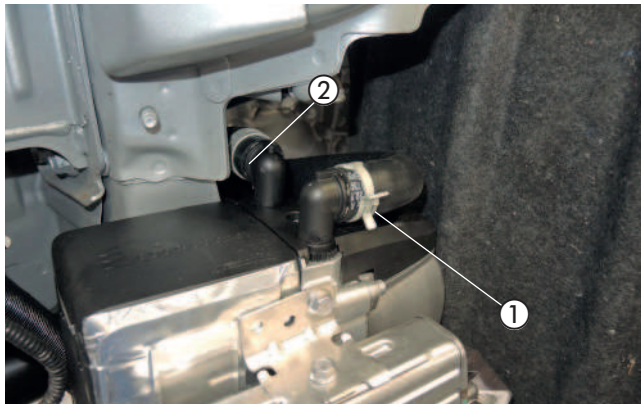


Fig. 30
① Connect water hose 1
② Water hose 2

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

Connect water hose 3 to the discharge end of the water pump.

Lay water hoses 1 and 3 together to the right and on upwards along the radiator into the engine compartment.

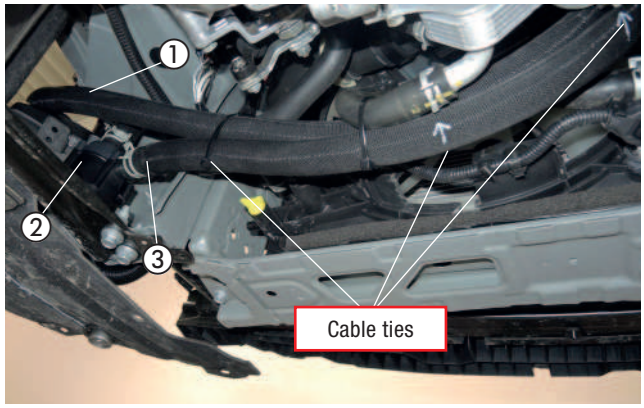


Fig. 31
① Lay water hose 1
② Water pump
③ Connect and lay water hose 3

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

Fasten water hoses 1 and 3 to the vehicle's cables using cable ties as shown.

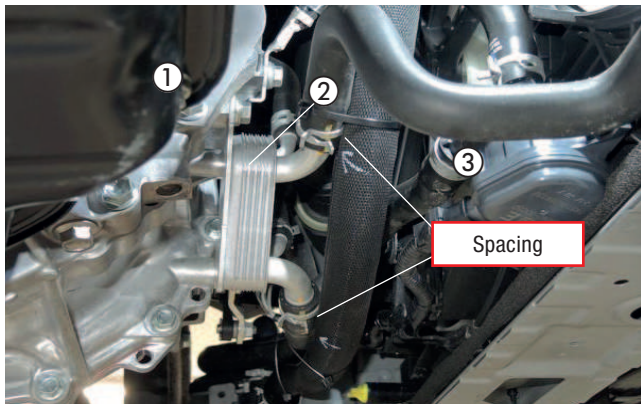


Fig. 32
① Lay and fasten water hose 1 and 3

CAUTION!
Lay the water hoses with sufficient clearance to the vehicle's water hose clips.

3 INSTALLATION

Continue to lay water hoses 1 and 3 in the engine compartment as shown.

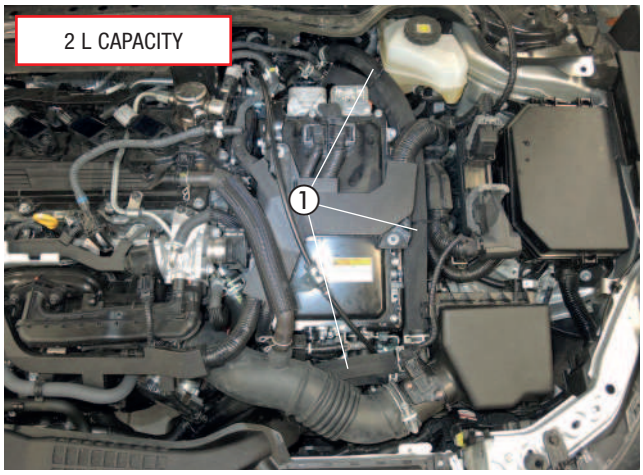


Fig. 33
① Lay water hoses 1 and 3

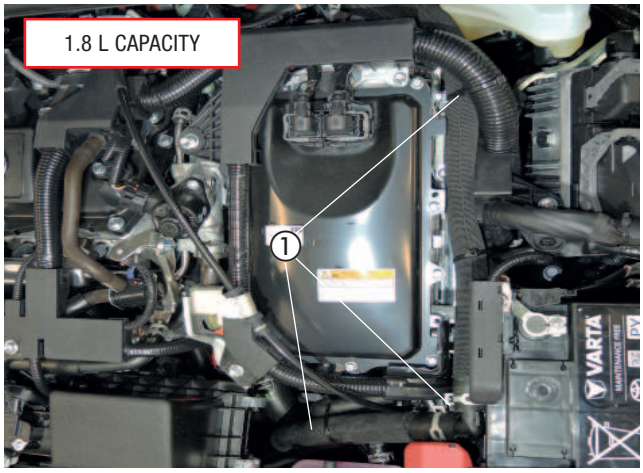


Fig. 34
① Lay water hoses 1 and 3

CONNECT WATER FLOW HOSE
IN VEHICLES WITH 2 L CAPACITY
(see Fig. 35)

Connect water hose 1 (with the 180° water hose bend) at the water connection socket to the heat exchanger using a hose clip.
Connect water hose 3 to the removed water flow hose from the engine using a hose clip.

CONNECT WATER FLOW HOSE
IN VEHICLES WITH 1.8 L CAPACITY
(see Fig. 36)

Connect water hose 1 at the cut through water flow hose to the heat exchanger with a hose clip.
Connect water hose 3 to the cut through water flow hose from the engine using a hose clip.

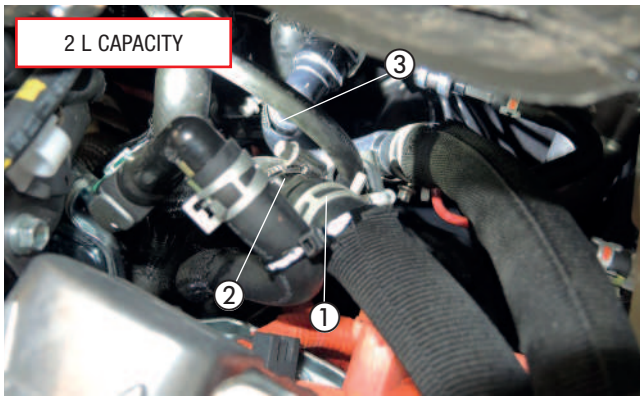


Fig. 35
① Connect water hose 1
② Removed water flow hose
③ Connect water hose 3

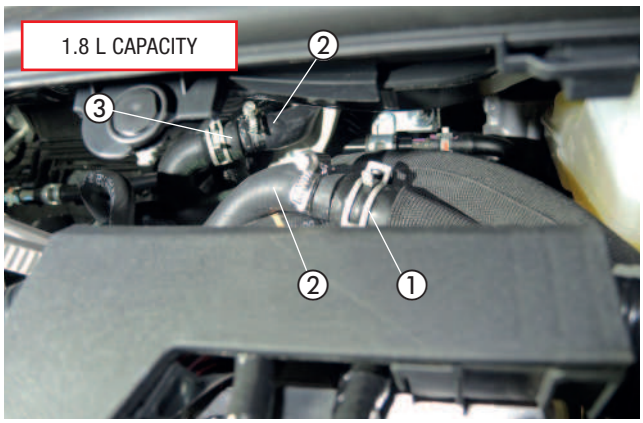
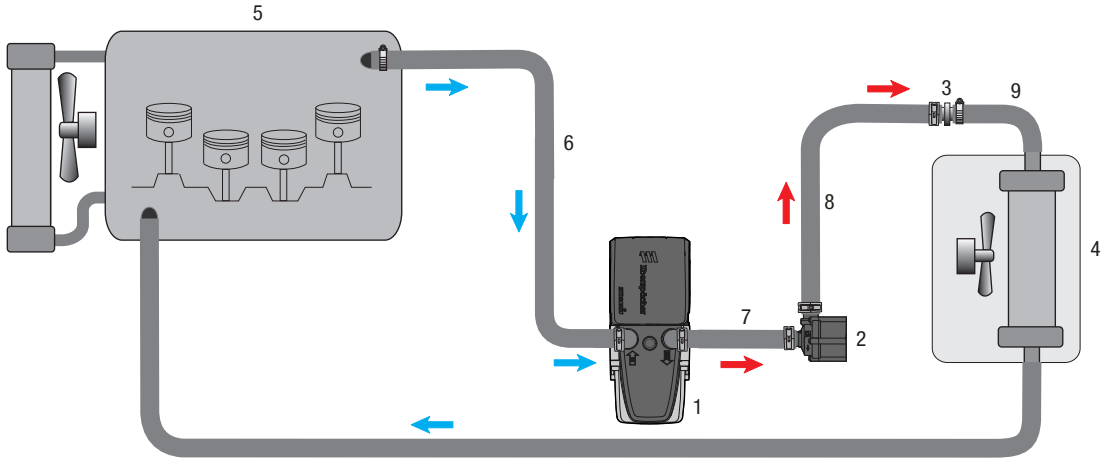


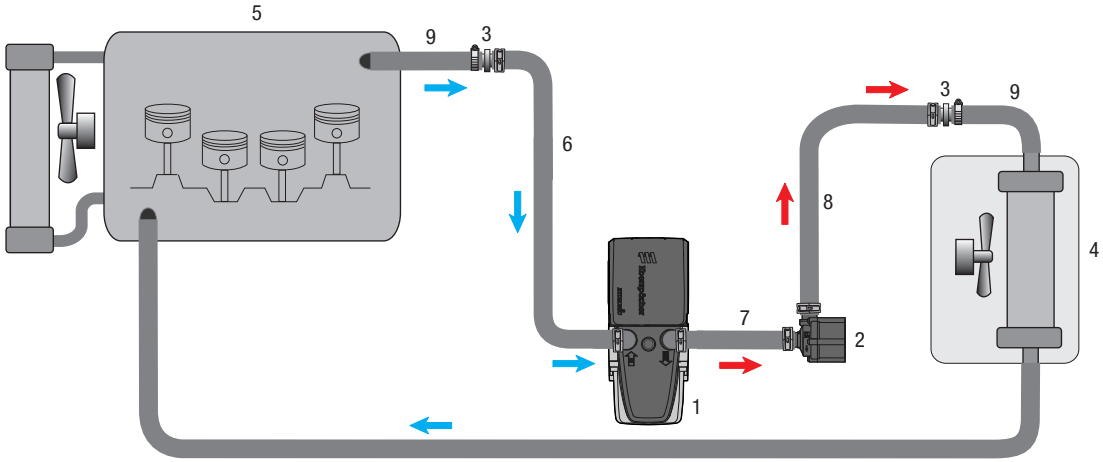
Fig. 36
① Connect water hose 1
② Water flow hose, cut through
③ Connect water hose 3

3 INSTALLATION

2 L CAPACITY



1.8 L CAPACITY



1 - Heater Hydronic S3
2 - Water pump
3 - Adapter 20/18 mm Ø
4 - Vehicle heat exchanger
5 - Engine
6- Water hose 1
7- Water hose 2
8- Water hose 3
9- Vehicle water flow hose
- Spring band clip
- Hose clip, 20 – 32 mm Ø

Fig. 37

3 INSTALLATION

MAKE TANK CONNECTION
(see Figs. 38 to 40)

Dismantle the tank fitting and remove the plug-in connection from the tank fitting.
At the top surface of the tank fitting, remove the web on the marked surface as shown, flatten the surface, position the washer of the tank extractor as a drilling template and mark a drilling point. Drill an 8 mm Ø hole here in the tank fitting and insert the tank extractor.

CAUTION!
Make sure no impurities enter the tank when drilling the tank fitting. The tank fitting should not be removed for longer than 10 minutes because of expansion of the fuel tank!

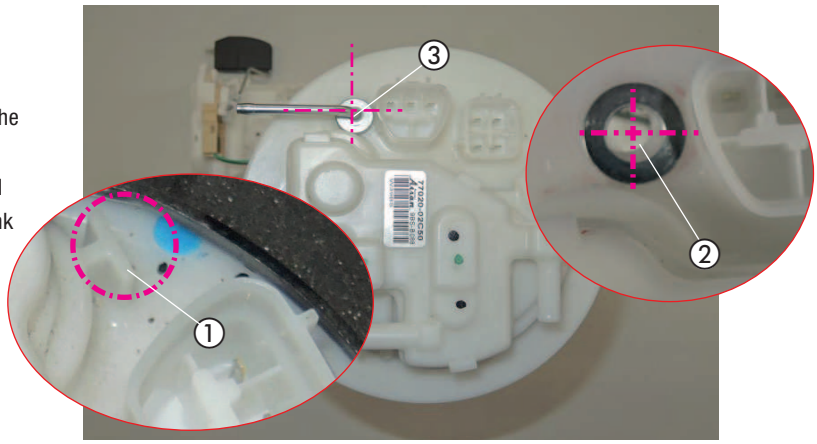


Fig. 38
① Remove web and flatten surface
② Drill 8 mm Ø hole for tank extractor
③ Insert tank extractor

Take the prepared tank extractor through the hole, align as shown and screw firmly with the M8 nut, the B8 washer and the spacer sleeve from below.

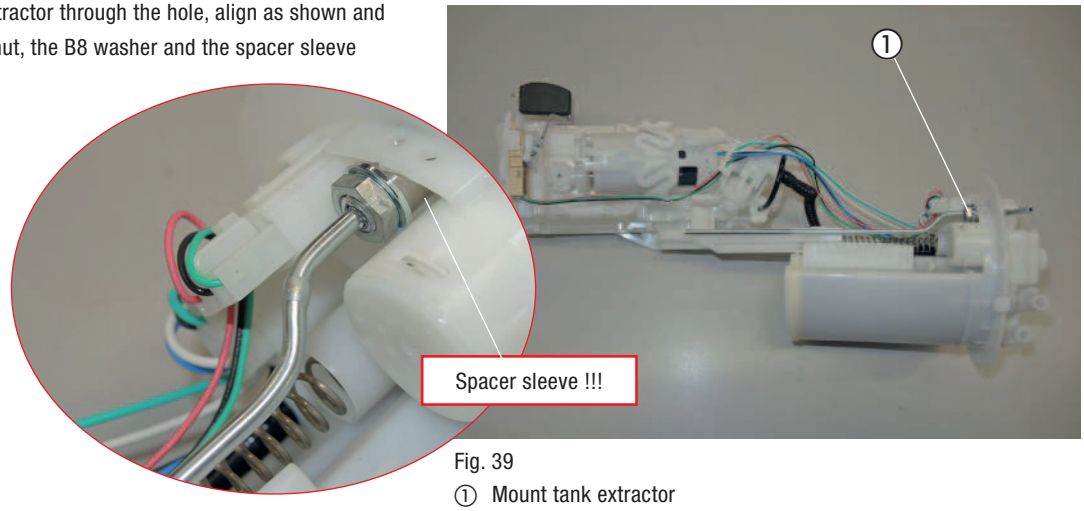


Fig. 39
① Mount tank extractor

Insert the new seal for the tank fitting.
Insert the tank fitting back into the tank and fasten with the locking ring; ensure the seal fits properly.
Connect the fuel lines and the plug-in connection at the top of the tank fitting.
At the intake connection of the tank extractor, connect the fuel pipe (intake line) with the 3.5 x 3 mm Ø fuel hose.

PLEASE NOTE!
Secure all connection points with clamps.

DANGER!
Risk of fire and explosion from leaking fuel and fuel vapours

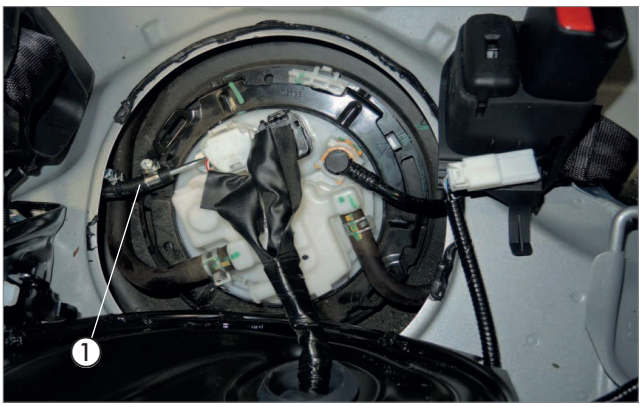


Fig. 40
① Connect fuel pipe (intake line)

3 INSTALLATION

LAYING THE FUEL PIPE
(see Fig. 41)

Lay the fuel pipe (delivery line) together with the metering pump cable next to the vehicle's cable duct from the heater along to the installation position of the metering pump and fasten to the right underbody shield using cable ties.

Install the fuel pipe (delivery line) with the 4.5/3.5 Ø mm adapter to the fuel connection of the heater.

Plug in the connector of the main cable harness, the water pump cable loom and the power supply cable loom to the heater.

⚠ CAUTION!
When laying fuel lines, always ensure they are at an adequate distance from hot vehicle and heater parts.

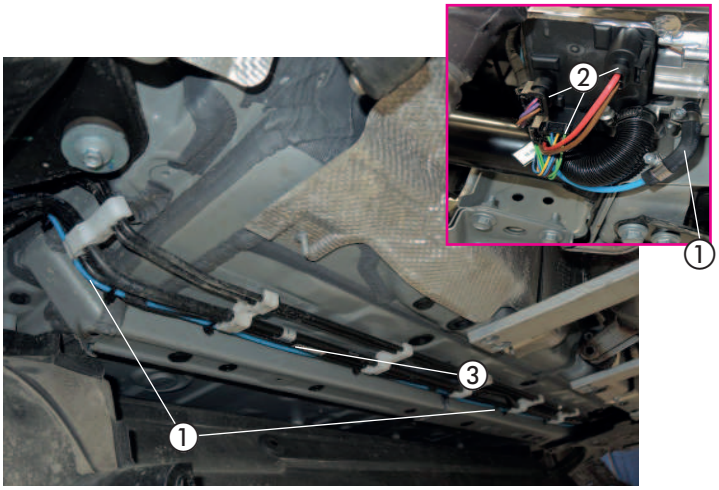


Fig. 41
① Mount and lay fuel pipe (delivery line) with 4.5/3.5 mm Ø adapter to heater
② Plug in electrical connections at heater
③ Lay fuel pipe (delivery line)

INSTALL AND CONNECT THE METERING PUMP
(see Fig. 42)

Insert an M6 blind rivet nut in the existing hole on the left side behind the tank as shown.
Mount the premounted metering pump to the mounted M6 blind rivet nut with an M6 x 16 screw.
Ensure it is installed with at least a 15° rising gradient on the pressure side.
Cut the fuel pipe from the tank extractor to the metering pump to length (intake line) and connect with the 3.5 x 3 mm Ø fuel hose to the intake connection of the metering pump.

Cut the fuel pipe from the heater (delivery line) to length and connect to the discharge end of the metering pump using the 3.5 x 3 mm Ø fuel hose.
Slot the plug-in contacts of the metering pump cable into the mating connector regardless of polarity.
Connect the connector to the metering pump.

⚠ CAUTION!
Use a sharp knife to cut the fuel pipe to length.
Secure all hose connections with hose clips.

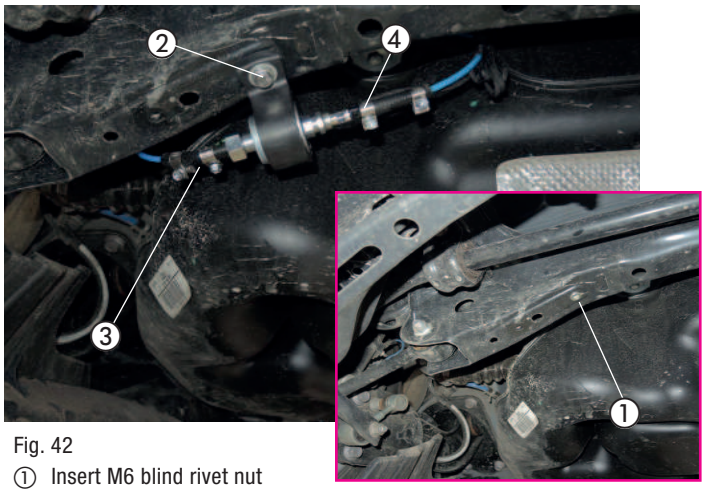
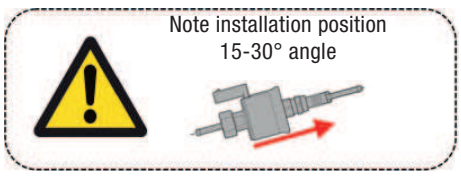


Fig. 42
① Insert M6 blind rivet nut
② Install and connect the metering pump
③ Metering pump intake end
④ Metering pump discharge end



3 INSTALLATION

INSTALL FUSE HOLDER
(see Fig. 43)

Slot the premounted holder with fuse block holder to the existing Bowden cable clip holder of the bonnet release behind the left headlight.

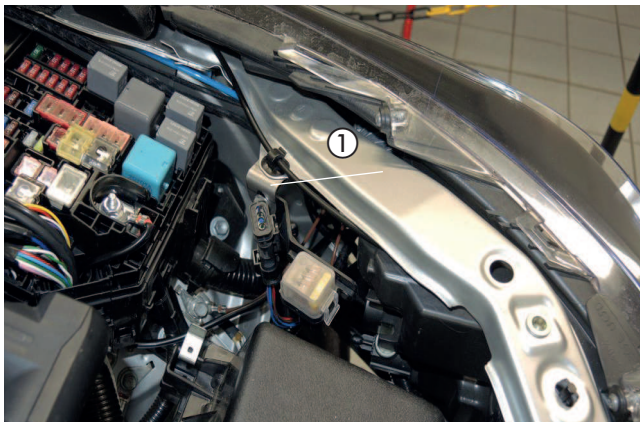


Fig. 43
① Mount the premounted bracket with fuse holder

CABLE LAYING
(see Fig. 44)

Take the vehicle interior cable loom consisting of:
- 4 mm² ws/rt and 0.5 mm² sw/rt cable
- 3-wire control unit cable loom
- 4-pin fan control box cable loom

through the existing cable grommet into the interior of the vehicle.

⚠ CAUTION!
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.

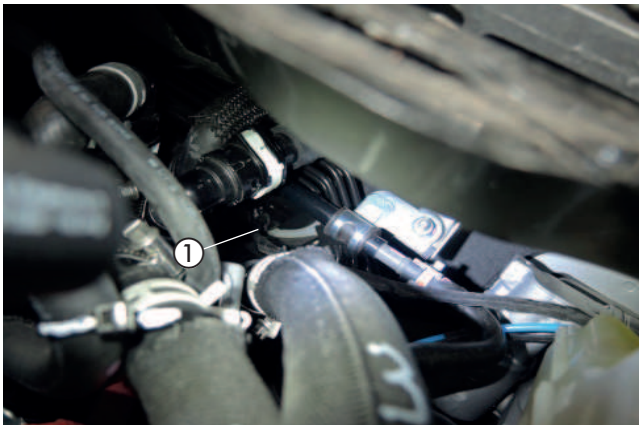


Fig. 44
① Vehicle's cable grommet

POWER SUPPLY
(see Fig. 41)

Take the 4 mm² rt positive cable to the fuse box and connect to the positive terminal in the fuse box using the A6 cable lug.

Take the 2.5 mm² br earth cable to the earthing point in front of the fuse box and connect to the earthing point with the A6 cable lug.

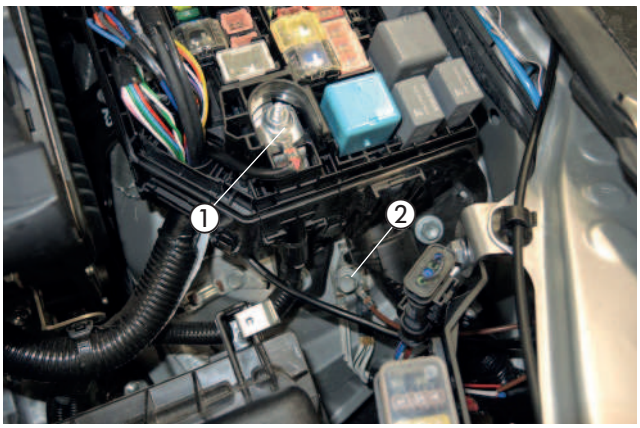


Fig. 45
① Connect positive cable 4 mm² rt
② Connect 2.5 mm² br earth cable

3 INSTALLATION

FAN CONTROL
(see Figs. 46 to 49)

The aircon amplifier is on the right next to the accelerator pedal above the centre tunnel.

Disconnect the white connector from the aircon amplifier.

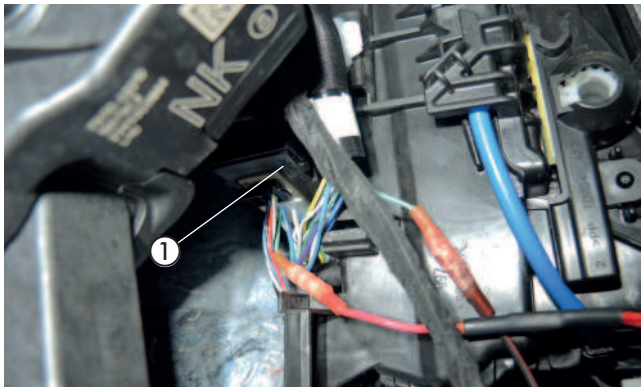
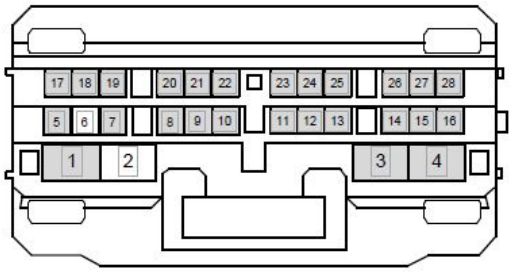


Fig. 46
① Aircon amplifier

Disconnect the 0.35 mm² gn cable (pin 1) in the white connector from the aircon amplifier and connect the 1 mm² rt and 1 mm² sw/rt cables from the diode cable loom using two 0.5-1.5 mm² butt-type connectors as shown in the circuit diagram.

PLEASE NOTE!
The cable colours may vary.



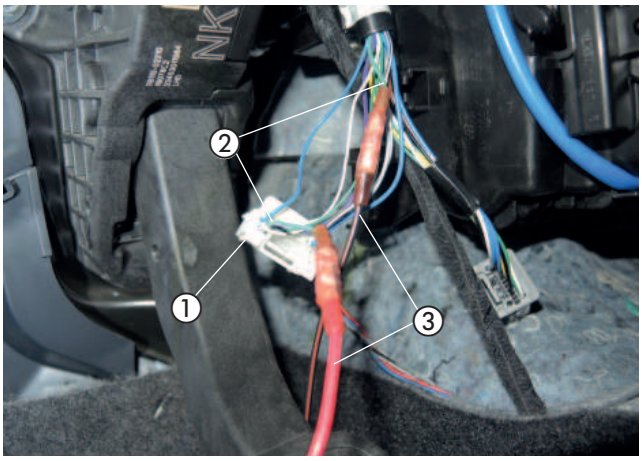


Fig. 47
① White connector from aircon amplifier
② Disconnect 0.35 mm² gn cable (pin 6)
③ Integrate 1 mm² rt and 1 mm² sw/rt cables

Connect the 0.5 mm² sw/rt cable from the “control unit” cable loom with the 1 mm² sw/rt cable from the diode cable loom as shown in the circuit diagram using an 0.5 - 1.5 mm² butt-type connector.

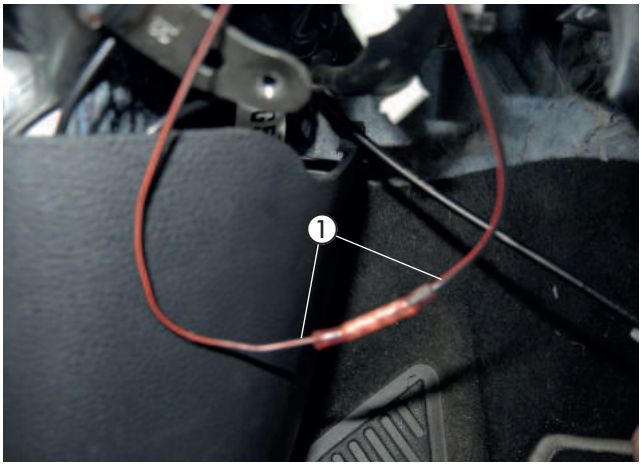


Fig. 48
① Connect 0.5 mm² sw/rt and 1 mm² sw/rt cables

3 INSTALLATION

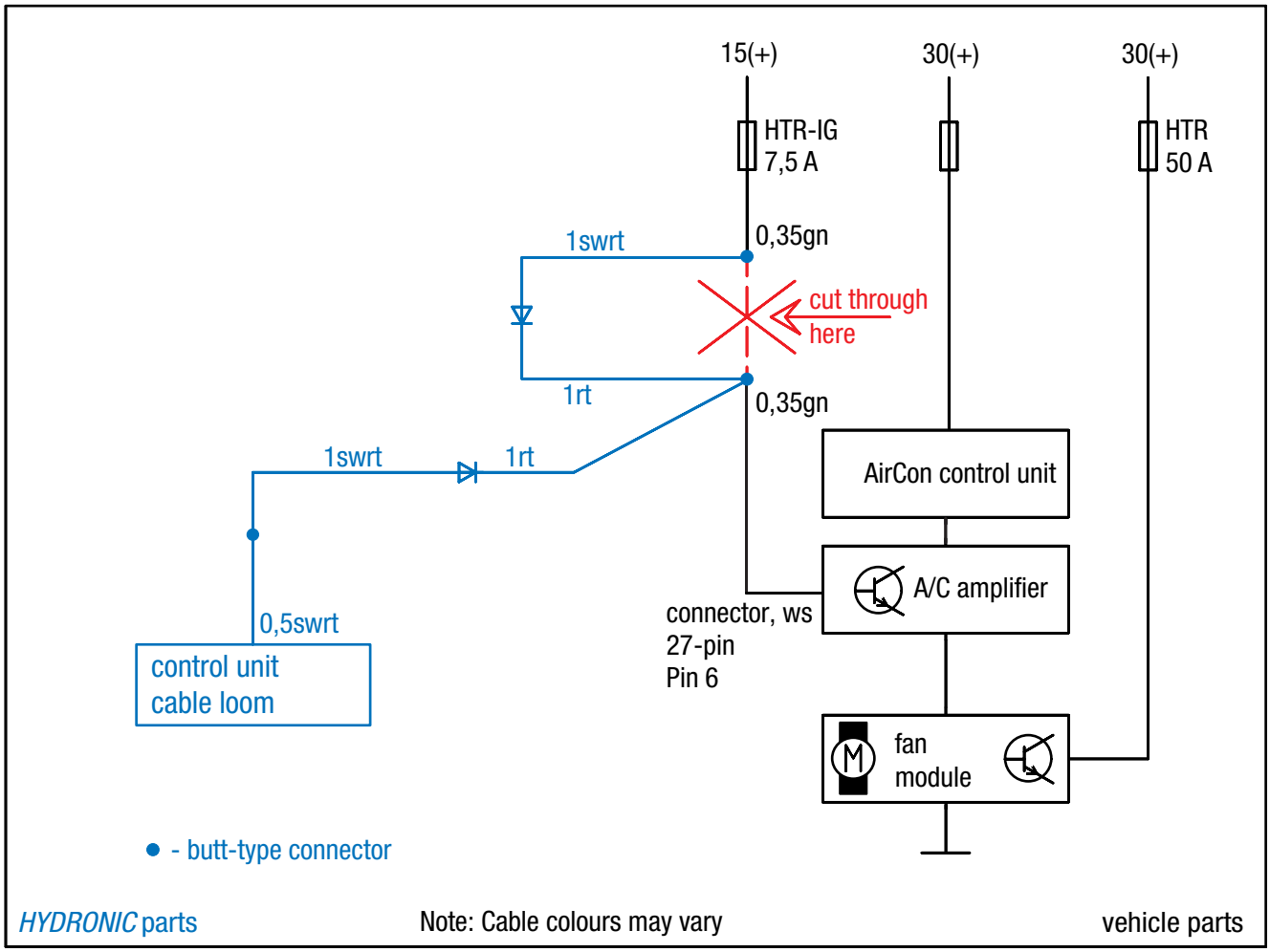


Fig. 49

3 INSTALLATION

INSTALL EASYSTART REMOTE/REMOTE+/WEB RADIO REMOTE CONTROL
(Alternative suggestion - consult with the customer)
(see Figs. 50 to 52)

The EasyStart Remote/Remote+/Web is installed according to the Technical Description for the EasyStart Remote/Remote+/Web Radio Remote Control, refer to the “Installation Instructions” section.

Mount the button of the EasyStart Remote/Remote+/Web to the free surface of the centre console.
To do so, drill a 10 mm Ø hole and insert the button in the drilled hole.



Fig. 50
① Mount the button of the EasyStart Remote/Remote+/Web

Fit the EasyStart Remote/Remote+/Web temperature sensor to the trim moulding of the B-pillar on the driver's side.

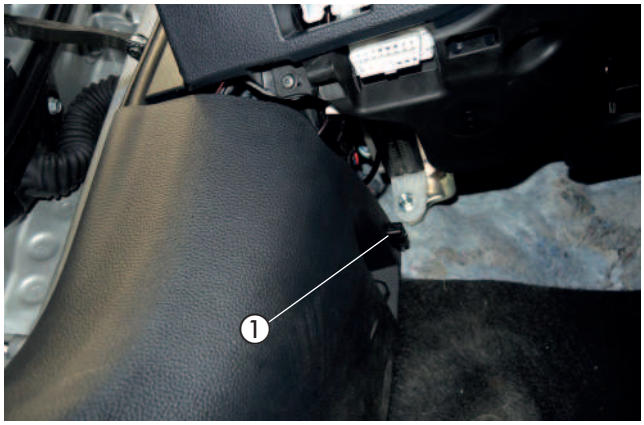


Fig. 51
① Mount the temperature sensor of the Remote/Remote+/Web

Mount the stationary part of the EasyStart Remote/Remote+/Web to the instrument panel using the existing screw and align as shown. Connect the antenna cable of the EasyStart Remote/Remote+ to the stationary part, take it to the right and lay it in the rubber door seal on the passenger's side.

Take the cables from the installed button and temperature sensor together with the “Control unit” cable loom to the installed position of the stationary part and connect to the stationary part.

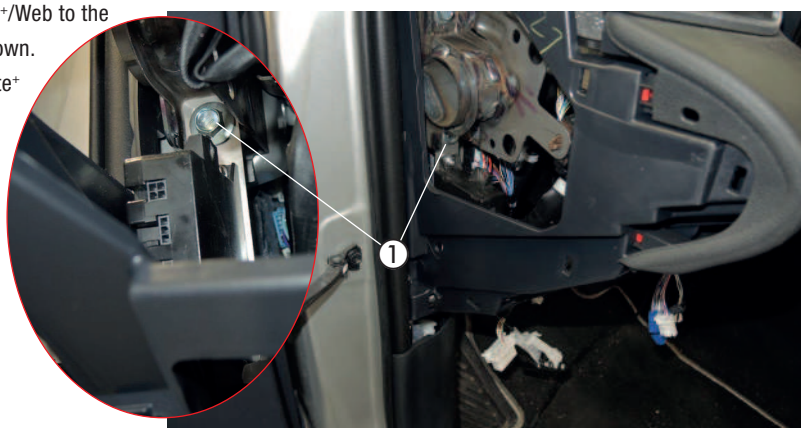


Fig. 52
① Stationary part of the EasyStart Remote/Remote+ / Web

⚠ CAUTION!
Use cable ties to fasten any excessive length of antenna cable underneath the instrument panel (only for EasyStart Remote/Remote+).

4 FOLLOWING INSTALLATION

ADHERE THE “REFUEL” LABEL
(see Fig. 53)

Adhere the “Refuel” label inside the fuel tank flap as shown.

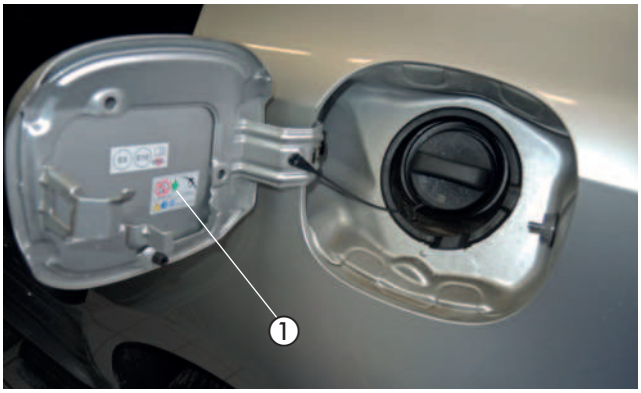


Fig. 53
① Adhere the “Refuel” label

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.
- 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, top up any missing coolant liquid up to the marking (arrow).
- Adhere the duplicate nameplate in a clearly visible position near the heater or at a suitable point on the B-pillar.
- Adhere the “Refuel” label in the fuel tank flap or at a suitable point on the B-pillar.
- 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 unit and place the operating instructions in the glove compartment.
- PLACE THE LEAFLET FOR THE CUSTOMER IN THE VEHICLE OR HAND OVER TO THE CUSTOMER!

⚠ CAUTION!
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 unit.
  See Operating Instructions - Control Unit.

5 PARTS OVERVIEW



Fig. 54



Fig. 55

LEAFLET FOR THE CUSTOMER

BEFORE SWITCHING ON
(see Fig. 1)

- Before switching on or pre-programming the heating mode with the ignition switched on, set the vehicle's temperature controllers ② to “Warm” (maximum setting).
- Place the button for the air system ③ on the windscreen. Maximum air directed to the front windscreen
- The fan speed does not have to be pre-selected ① .



Fig. 1
① Fan button
② Temperature controller
③ Button for the air flow

RECOMMENDATION!

- Switch the pre-heater on at least once a month for about 10 minutes, also in the summer months! This will ensure that it works properly during the season!
- We recommend adjusting the heating time to the driving time: Driving time > heating time.

PLEASE NOTE!

In vehicles with interior monitoring, this must be disabled for the heating process.
Please refer to the vehicle operating instructions for disabling instructions.

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