INSTALLATION RECOMMENDATION
HYDRONIC S3 – B 5 E IN THE FORD RANGER RAPTOR



THIS INSTALLATION RECOMMENDATION APPLIES TO VEHICLES FROM MODEL YEAR 2022 WITH THE FOLLOWING MOTORISATION:

3,0 l EcoBoost / 212 kW - 288 PS

Eberspächer

CONTENTS

CHAPTER	CHAPTER DESCRIPTION	PAGE
1	Introduction	3-5
2	Preparation of the vehicle	6
3	Preliminary assembly	7-12
4	Installation	13-29
5	After installation	30
6	Parts overview	31
	Leaflet for the Customer	33

This installation recommendation documents the installation of the Hydronic S3 heater in a vehicle from model year 2022 with the following equipment:

- **automatic aircon**
- **10-speed automatic gearbox**

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. 7.0 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
3.0 l	212 / 288	10 AT

10 AT = 10-gear 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 5 E	20 2048 05 0000
1	Vehicle-specific installation kit	24 8000 30 0157
EasyStart control unit as chosen:		
1	EasyStart Timer	22 1000 34 1500
1	EasyStart Web	22 1000 35 4000
1	EasyStart Remote+	22 1000 34 1700
1	EasyStart Remote	22 1000 34 8100

Special tools required

- Necessary torque wrench
- Anti-corrosion agent
- Pliers for spring band clamps
- Crimping tool
- Blind rivet nut insertion tool

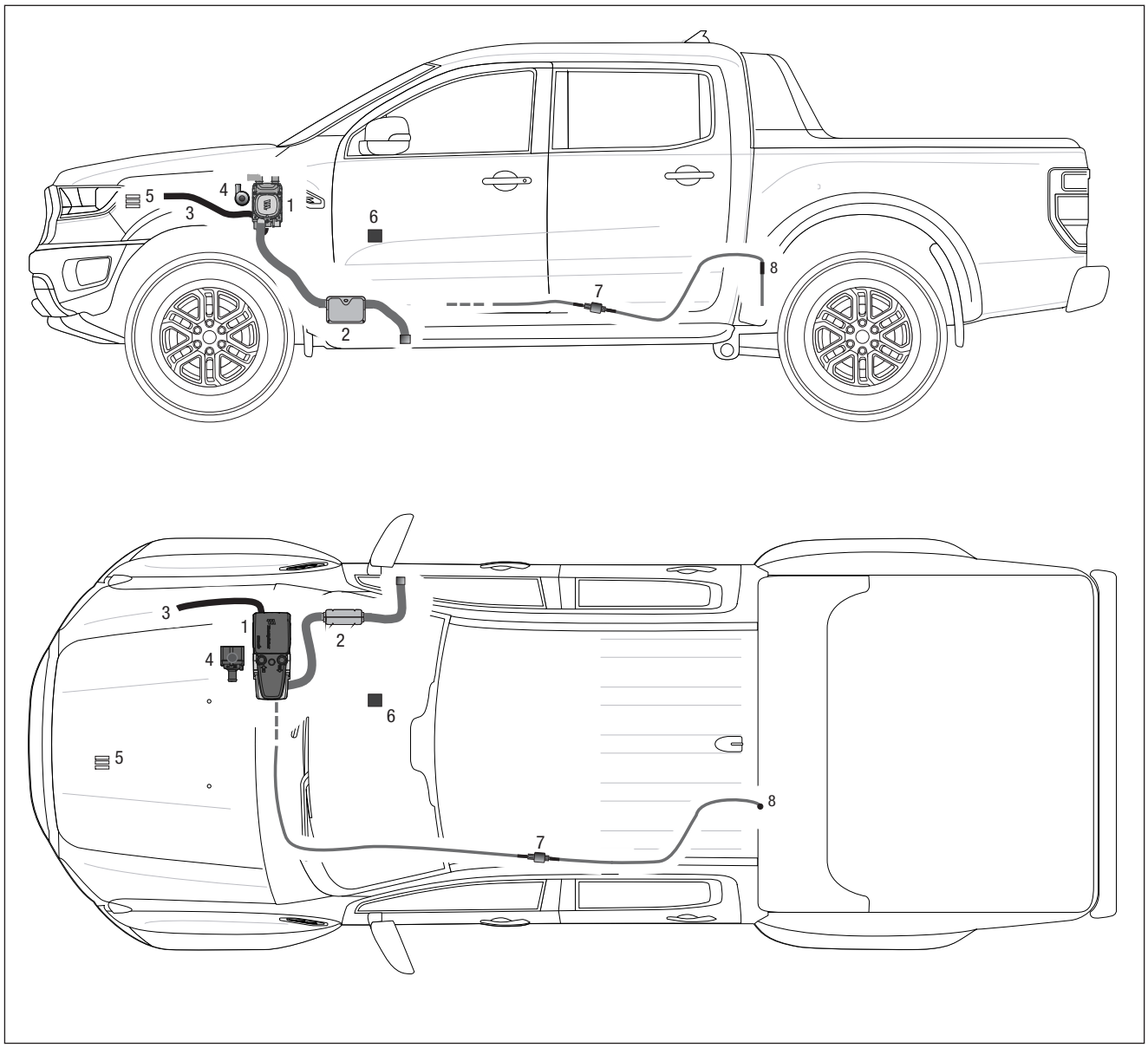
TIGHTENING TORQUES

If no tightening torques are specified, tighten the screw connections (hexagon screw and hexagon nut) 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
Torx screw M6 x 14.5	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 Exhaust pipe with exhaust silencer
3 Combustion air tube
4 Water pump
5 Fuse holder
6 “EasyFan” fan control box (GSG)
7 Metering pump
8 Tank extractor

2 PREPARATION OF THE VEHICLE

PREPARATORY WORK ON THE VEHICLE

- Disconnect the battery
- Remove glove compartment
- Remove instrument panel trim moulding and aircon control
- Remove top engine cover
- Remove top radiator cover
- Remove cooling water storage tank and put to one side
- Drain coolant into a clean container
- Lower tank (depending on type)

REMOVE THE AIRCON CONTROL
(see Fig. 1)

Unclip and remove the instrument panel trim moulding on the right, left and above the aircon control.

Loosen the 6 fastening screws to tip the aircon control forwards.

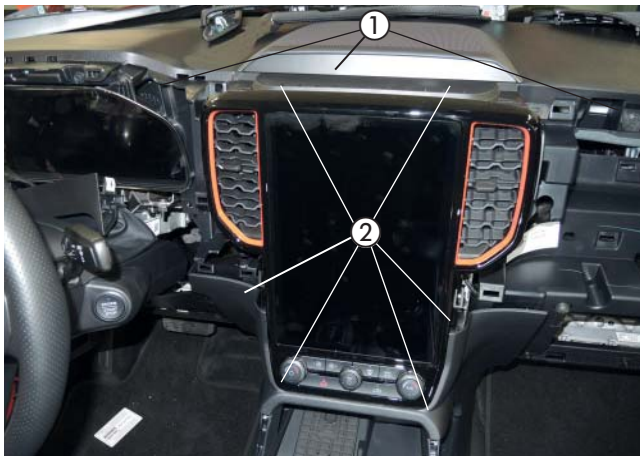


Fig. 1
① Instrument panel trim moulding removed
② Aircon control tipped forwards

REMOVE THE WHEEL HOUSE ARCH
(see Fig. 2)

Remove the wheel house arch on the front right.



Fig. 2
① remove the wheel house arch

3 PRELIMINARY ASSEMBLY

PREPARE HEATER
(see Figs. 3 and 4)

Mount the two angled water inlet socket connections on the heater as shown, see “Installation steps”.

Remove the duplicate nameplate from the heater.



Fig. 3
① Water connection socket mounted on the 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 toothed edges engage again
- Fasten sensor cover with M5 x 18 (1) screw
  (tightening torque $6.5^{+0.5}$ Nm).

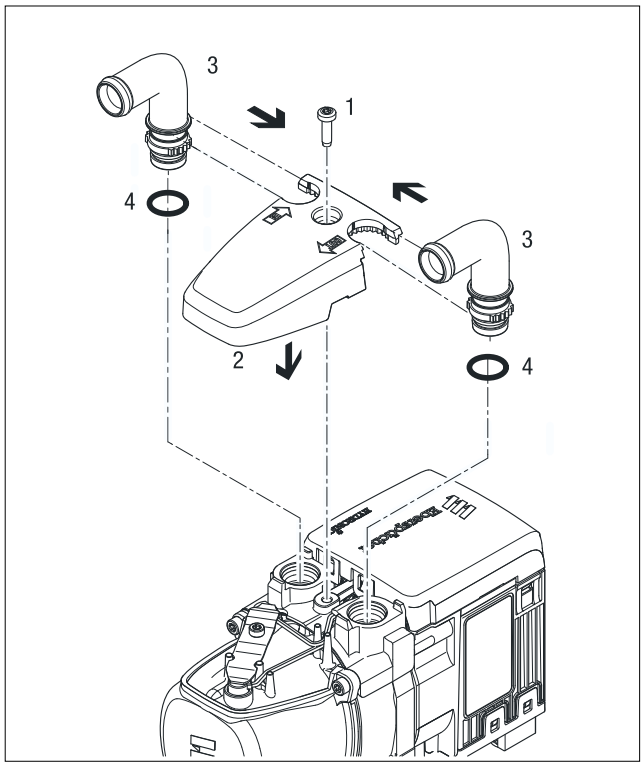


Fig. 4

1	M5 x 18 screw	4	Connection socket, angled
2	Sensor cover	5	O-ring
3	Connection socket, straight		

3 PRELIMINARY ASSEMBLY

PREPARE THE WATER HOSES
(see Figs. 5 to 7)

Cut and prepare the water hoses 1 to 4 according to the dimensions in the illustration.



Fig. 5

PREPARE WATER HOSE EINGINE-WATER PUMP

Fit the water hoses 1 and 2 according to the illustration.

CAUTION!
Secure the water hoses with spring band clamps.

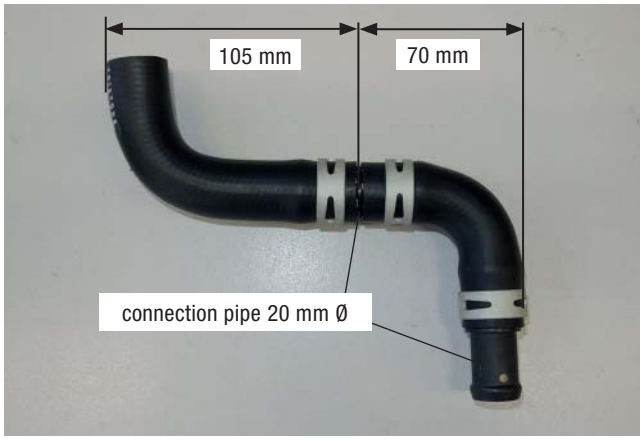


Fig. 6
① Water hose Engine-Water pump prepared

Prepare water hoses 3 to 4.

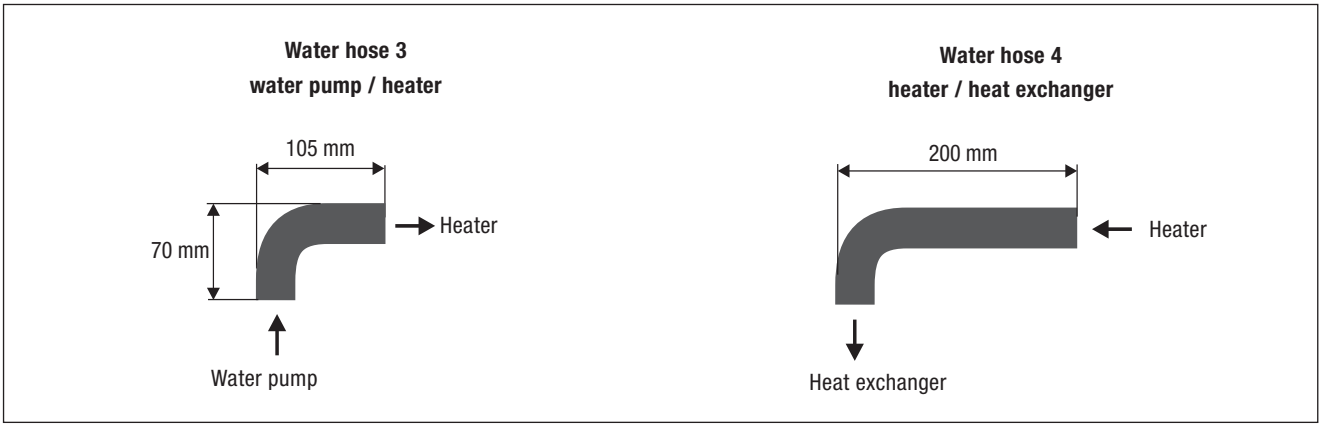


Fig. 7

3 PRELIMINARY ASSEMBLY

PREMOUNT HEATER AND WATER PUMP
(see Figs. 8 to 10)

Insert the water pump in water pump holder as shown in the figure.

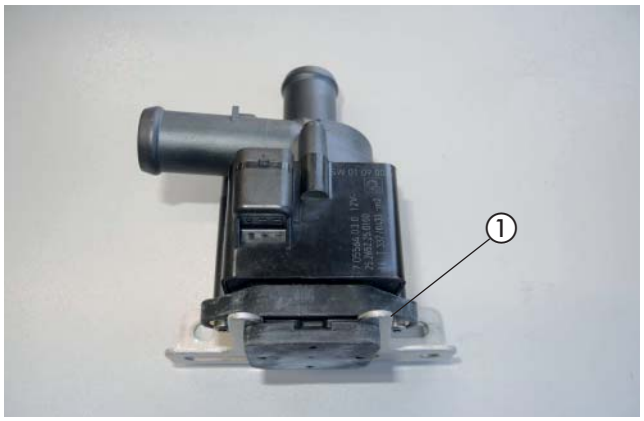


Fig. 8
① Water pump with holder premounted

Mount the prepared water pump to the jacket of the heater with two self-threading M6 x 16 screws as shown.

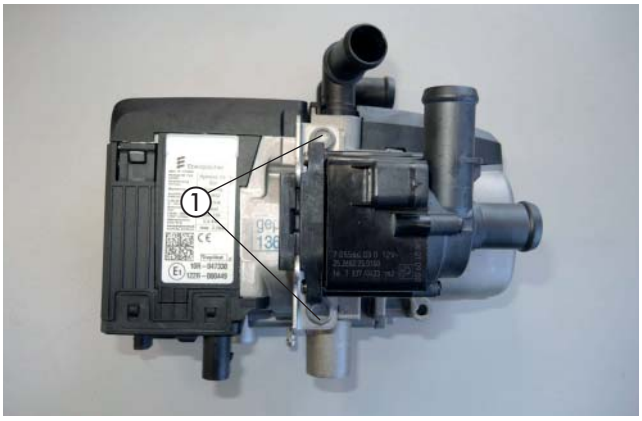


Fig. 9
① Water pump mounted with 2 x self-threading M6 x 16 screws

Connect water hose 3 to the water outlet connection of the heater and align as shown.

Connect water hose 4 to the discharge end of the water pump and to the water inlet connection of the heater.

⚠ CAUTION!
Secure the water hoses with spring band clamps.

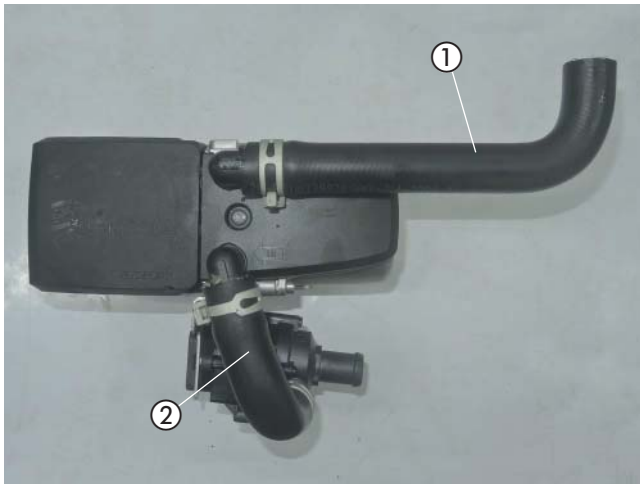


Fig. 10
① Water hose 3 connected
② Water hose 4 connected

3 PRELIMINARY ASSEMBLY

ADHERE DUPLICATE NAMEPLATE
(see Fig. 11)

Fit the duplicate nameplate on the B-pillar on the driver's side as shown.



Fig. 11
① Fit duplicate nameplate

PREASSEMBLE METERING PUMP
(see Fig. 12)

Insert the metering pump in the rubber holder as shown.

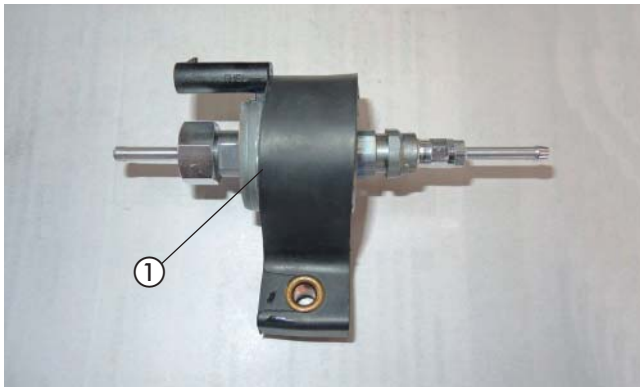


Fig. 12
① Metering pump inserted in rubber holder

3 PRELIMINARY ASSEMBLY

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

Cut a lenght of 1500 mm of the fuel pipe and use a hot air blower to heat and straighten the fuel pipe over a length of approx. 300 mm.

Push the adapter (7.5/3.5 mm Ø) onto the quick-coupler and fasten with a clamp.

Take the straightened fuel pipe through the adapter and quick-coupler, shorten to size as shown in the drawing and fasten to the adapter (7.5/3.5 mm Ø) with a clamp.

Bevel the end of the fuel pipe by 45°.

Pull sponge rubber hose (lenght = 1200 mm) over the fuel pipe.

Push a fuel hose (3.5 x 3 mm Ø, l = 50 mm) onto the other end of the fuel pipe and fasten with a clip (9 mm Ø) with $1^{+0.2}$ Nm.

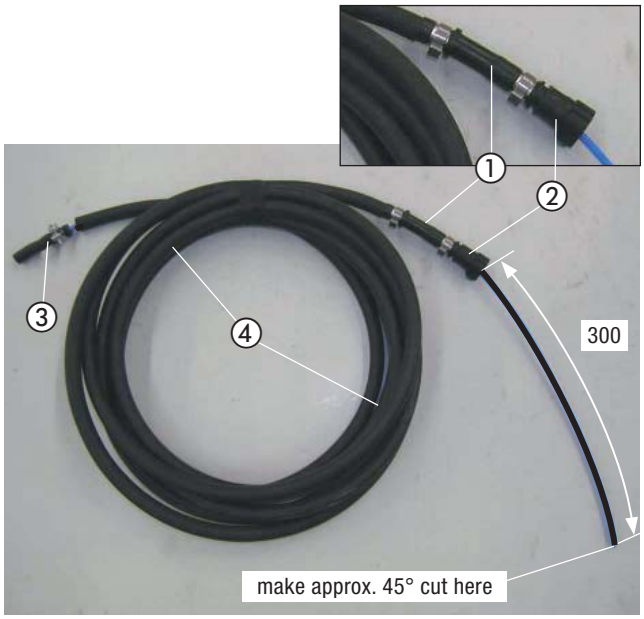


Fig. 13
① Adapter (7.5/3.5 mm Ø)
② Quick-coupler
③ Fuel hose (3.5 x 3 mm Ø, l = 50 mm)
④ Fuel pipe with sponge rubber hose

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

Cut a lenght of 2800 mm of the fuel pipe and pull sponge rubber hose (lenght = 2750 mm) over the fuel pipe.

Push the adapter (4.5/3.5 mm Ø) with the 3.5 mm Ø (white marking) onto the fuel pipe and fasten with a clip (9 mm Ø) with $1^{+0,2}$ Nm.

Push a fuel hose (3.5 x 3 mm Ø, l = 50 mm) onto the other end of the fuel pipe and fasten with a clip (9 mm Ø) with $1^{+0.2}$ Nm.

Prepare the metering pump cable (l = 3000 mm) and the fuel pipe (delivery line) for installation later on: to this end, tie together with insulating tape every 300 mm.

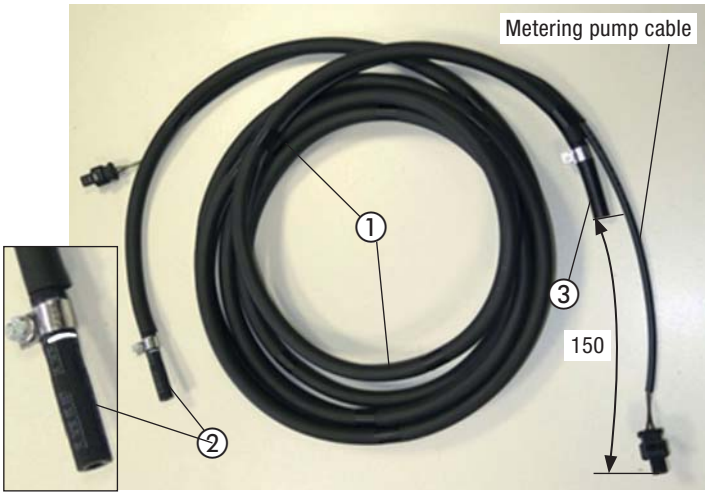


Fig. 14
① Fuel pipe with sponge rubber hose
② Adapter (4.5/3.5 mm Ø)
③ Fuel hose (3.5 x 3 mm Ø, l = 50 mm)

3 PRELIMINARY ASSEMBLY

PREPARE FUSE HOLDER
(see Fig. 15)

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

Fasten the diagnostic connector to the connector holder and insert in the holder.

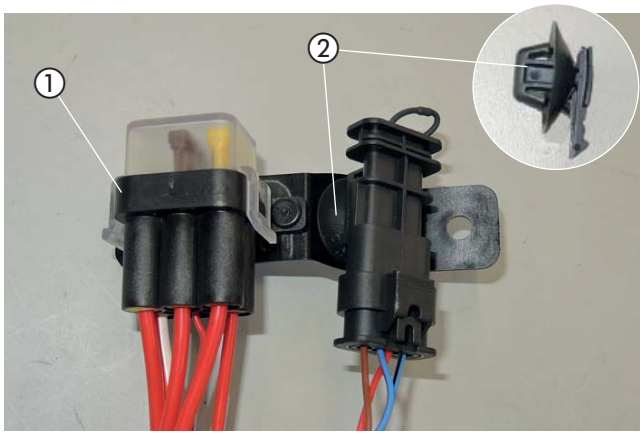


Fig. 15
① Fuse block mounted on the holder
② Connector holder with diagnostic connector

PREMOUNT FAN CONTROL BOX
(see Fig. 16)

Fasten the fan control box to the Z-bracket (22.9000.50.0131) with two M4 x 10 screws.



Fig. 16
① Fan control box mounted to holder

PREMOUNT THE STATIONARY PART OF THE CONTROL UNIT
(see Fig. 17)

FOR INSTALLATION OF EASYSTART REMOTE / REMOTE+ RADIO REMOTE CONTROL

Use two M4 x 10 screws to install the stationary part of the EasyStart Remote/Remote+ to the holder (0054) as shown.

FOR INSTALLATION OF EASYSTART WEB RADIO REMOTE CONTROL

Install the stationary part of the EasyStart Web to the holder (0054) using an M4 x 10 screw as shown.



Fig. 17
① Stationary part of the EasyStart Remote+ prepared
② Prepare stationary part of the EasyStart Web

4 INSTALLATION

PREPARE THE INSTALLATION POSITION
(see Figs. 18 to 22)

The installation location of the heater is on the right side of the engine partition below the control unit.

Tie the lower connector (white connector) and the wiring harnesses upwards and fix them with cable ties.

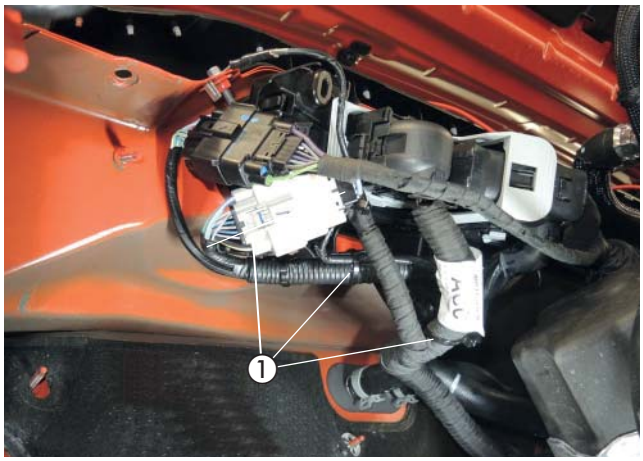


Fig. 18
① fix upwards the lower connector and wiring harness

Loosen the fastening clips on the right-hand side of the engine partition and fold the insulation mat back.

The fastening clips will be needed again later!

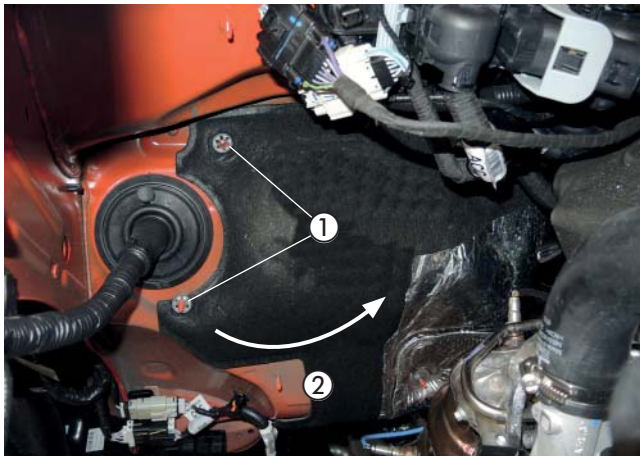


Fig. 19
① Loosen the fastening clips
② Fold insulation matting up

On the exposed embossed surface, mark the 4 drilling points to the dimensioning in the illustration.

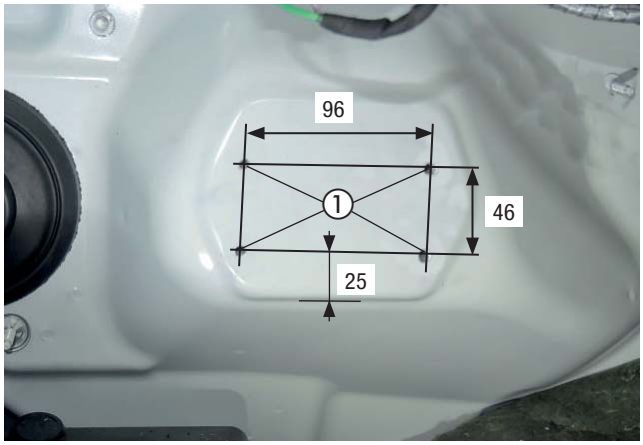


Fig. 20
① 4 Mark drilling points

4 INSTALLATION

CAUTION!
In the vehicle interior, the cable loom can run directly behind the marked drilling points.

Use a 10 mm Ø drill with stop to drill the holes.

Limit the drilling depth to 10 mm with the driller stop.

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

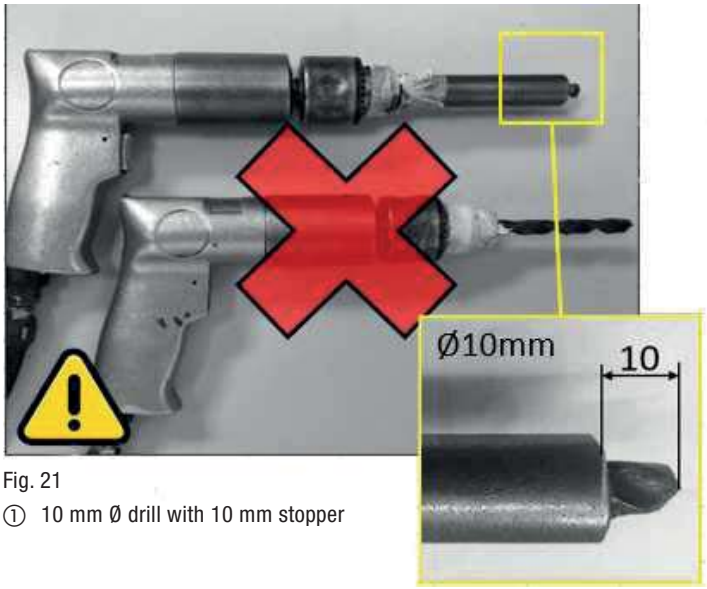


Fig. 21
① 10 mm Ø drill with 10 mm stopper

Drill four 10 mm Ø holes and insert a sealed M6 blind rivet nut in each hole.

Fold the insulation mat into position again and cut it out as shown.

Fasten the insulation mat again using the fastening clips.

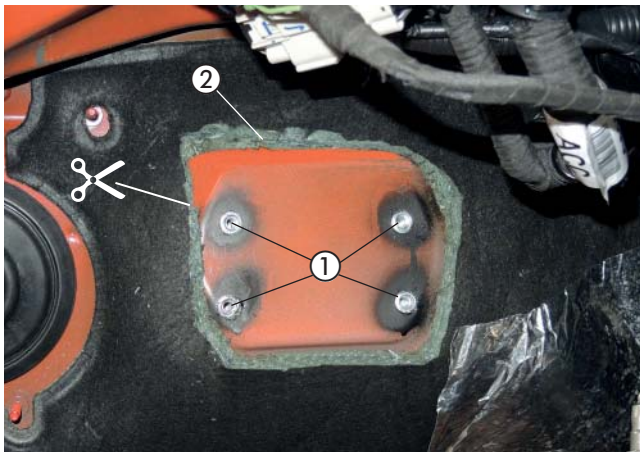


Fig. 22
① 4x M6 blind rivet nut inserted
② Insulation mat cut out

4 INSTALLATION

WATER FLOW HOSE CUTTING POINT AND INSTALL WATER HOSE 3
(see Figs. 23 and 24)

Cut of the water flow hose from the engine to the heat exchanger (right-hand connection on the heat exchanger) according to the dimensions in the illustration.

The part piece of the removed water flow hose can be discarded.

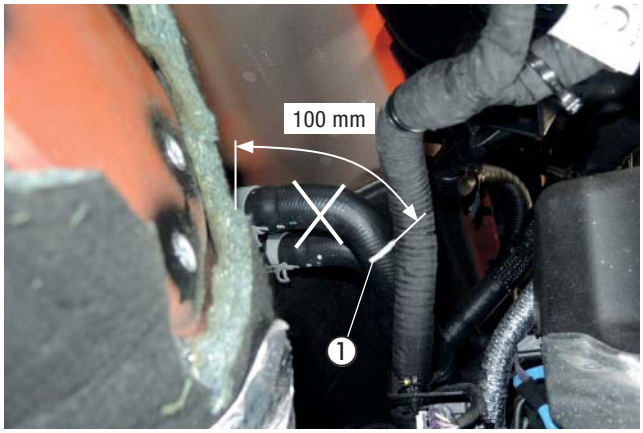


Fig. 23
① part piece water supply hose

Connect water hose Engine-Water pump to the water supply hose to the engine.

Align the water supply hose diagonally downwards.

CAUTION!
Secure the hose connection to the vehicle connections with 20-32 mm Ø screw clamp (3-0.5 Nm).



water hose Engine-Water pump

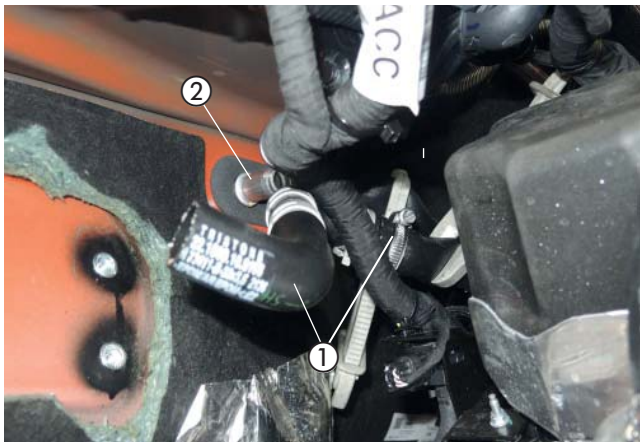


Fig. 24
① Water hose Engine-Water pump connected
② connecting piece water supply hose

PREPARE THE UNIT BRACKET
(see Fig. 25)

Mount 2 holders 9303 each on the unit bracket as shown in the illustration with one M6 x 12 screw.

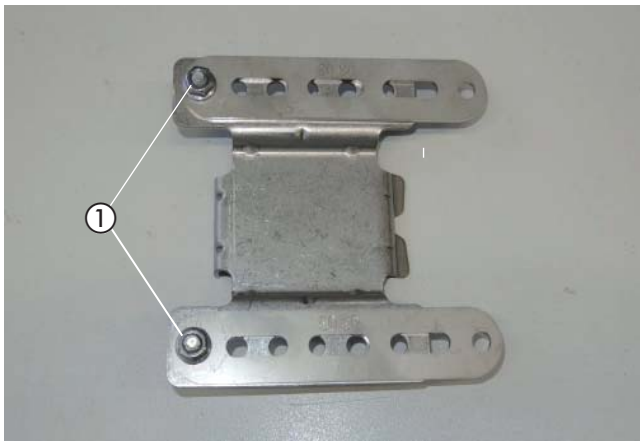


Fig. 25
① mount 2 holders 9303 on the unit bracket

4 INSTALLATION

INSTALL HEATER
(see Figs. 26 to 28)

Mount the prepared unit bracket at the prepared fastening points as shown using four M6 x 20 (10^{+1} Nm) screws.

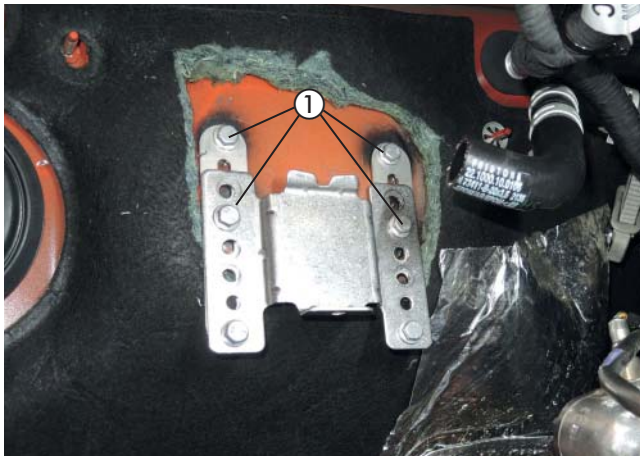


Fig. 26
① Unit bracket mounted

Insert the preassembled heater into the unit bracket and fasten using an M6 x 16 (6^{+2} Nm) self-threading screw.

Connect the water hose Engine-Water pump to the suction connection of the water pump.

Connect the water hose 3 to the free connection piece of the heat exchanger.



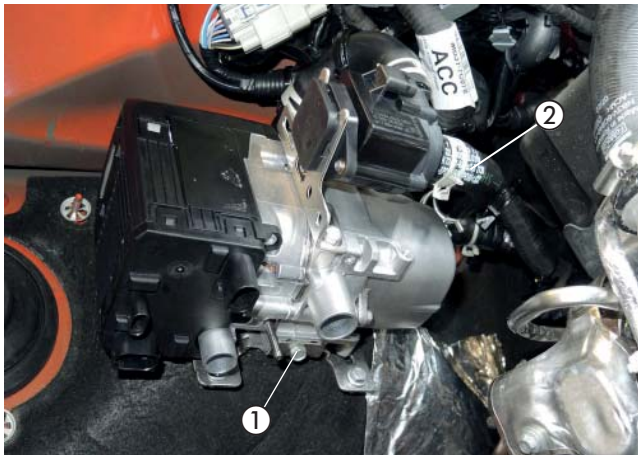


Fig. 27
① Mounted heater
② Water hose Engine-Water pump connected

Support the vehicle's own wiring harnesses on the mounted water hoses with 2x 2 hose holders (rotatable).



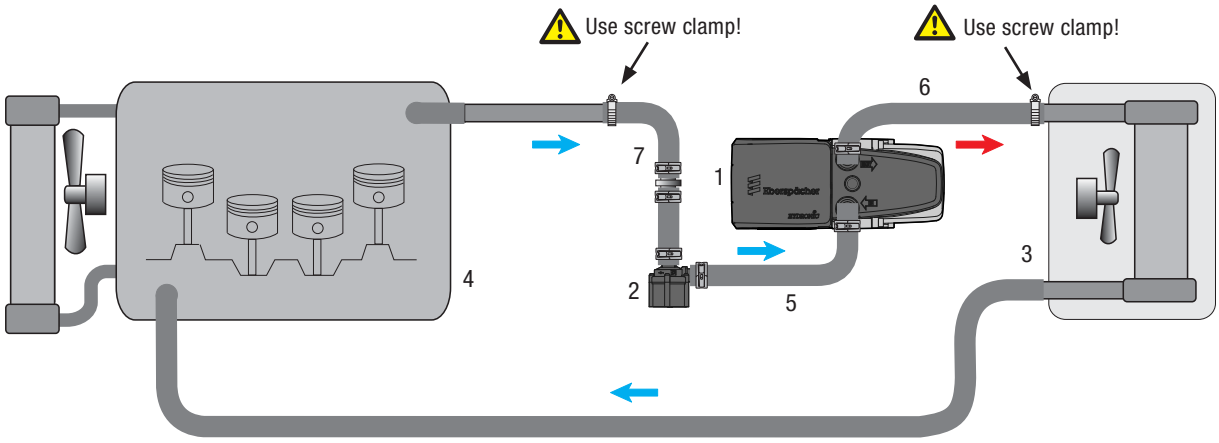


Fig. 28
① 2x hose holders (rotatable)

CAUTION!
Secure the hose connection to the vehicle connections with 20-32 mm Ø screw clamp (3-0.5 Nm).

4 INSTALLATION

WATER CIRCUIT SCHEMATIC
(see Fig. 29)



1 - Heater Hydronic S3
2 - Water pump
3 - Vehicle heat exchanger
4 - Engine
5 - Water hose 3
6 - Water hose 4
7 - Water hose Engine-Water pump
Spring band clamp
Screw clamp

Fig. 29

CONNECT COMBUSTION AIR PIPE
(see Fig. 30)

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

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

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

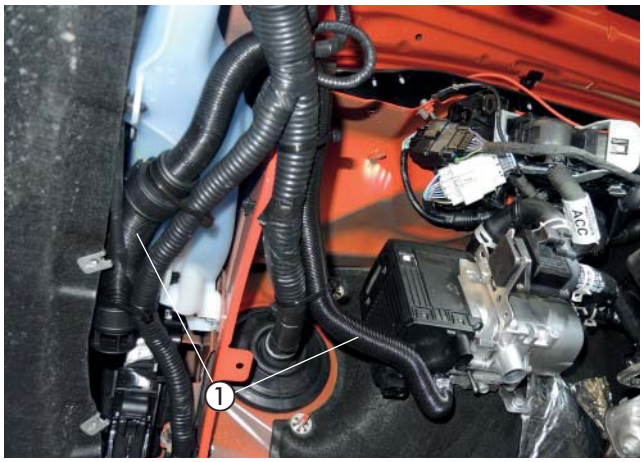


Fig. 30
① Combustion air pipe connected

4 INSTALLATION

PREPARE EXHAUST
(see Figs. 31 to 33)

Insert an M6 blind rivet nut (9 mm outer diameter) into the existing hole underneath the right-hand chassis beam, behind the front wheel.



Fig. 31
① M6 blind rivet nut inserted

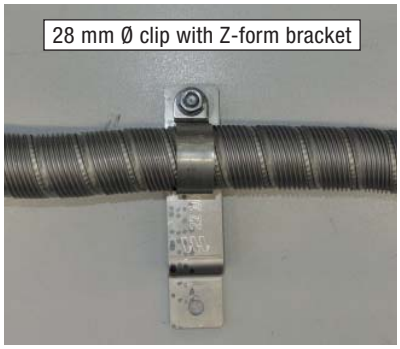
Fasten the Z-bracket with an M6 x 16 screw and a B6 body washer to the exhaust silencer and align as shown.





Fig. 32
① Z-bracket mounted to the exhaust silencer

Push a 28 mm Ø clip onto the exhaust pipe and fasten to the Z-form bracket with an M6 x 12 screw.



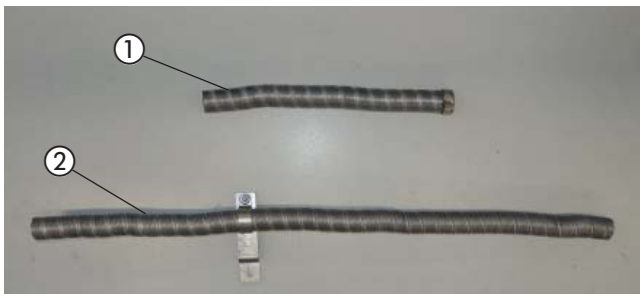


Fig. 33
① Exhaust pipe end
② Exhaust pipe prepared with clip and bracket

4 INSTALLATION

INSTALL THE EXHAUST
(see Figs. 34 to 38)

Mount the exhaust silencer with the holder to the inserted M6 blind rivet nut with an M6 x 16 screw (10^{+1} Nm).

Connect the exhaust pipe to the exhaust silencer and take it up to the heater.



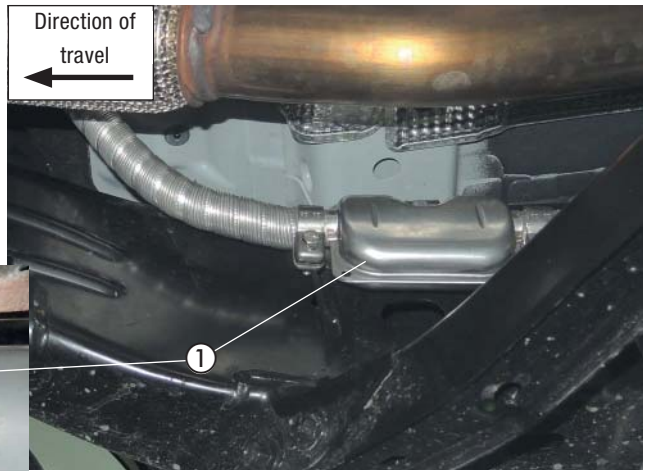


Fig. 34
① Exhaust silencer installed

Connect the exhaust pipe to the connection socket of the exhaust silencer with the clamp (7^{+1} Nm).

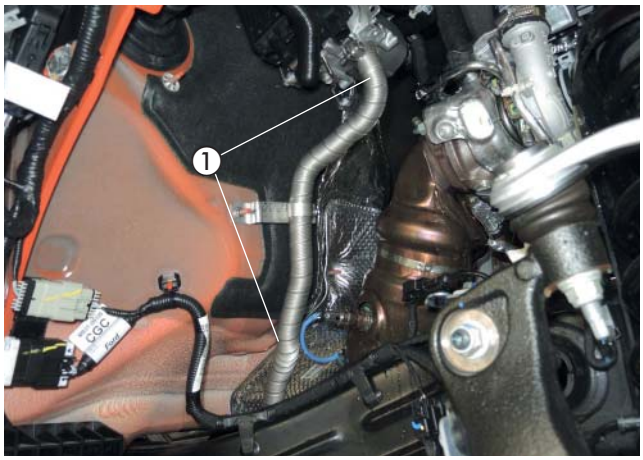


Fig. 35
① Exhaust pipe installed

Secure the exhaust pipe at the existing M6 stud bolt (fixing of the wheel housing arch) on the engine partition using the Z-bracket and fix it with an M6 nut.

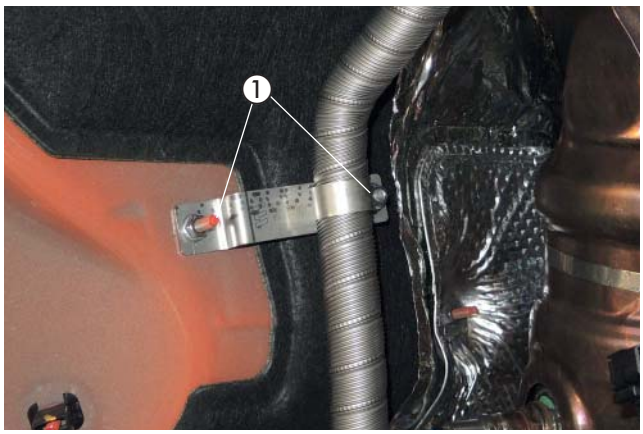


Fig. 36
① Secure exhaust pipe

4 INSTALLATION

Connect the exhaust pipe end to the exhaust silencer and take down below the chassis beam to the outside as shown.



Fig. 37
① Exhaust pipe end, connected and laid

Secure the exhaust pipe end to the existing longitudinal hole in the frame using a 28 mm Ø clip as shown.

Use an M6 x 20 screw and 2 B6 body washers for this purpose.

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



Fig. 38
① Exhaust pipe end secured with 28 mm Ø clip

4 INSTALLATION

MAKE TANK CONNECTION
(see Figs. 39 to 41)

Drain the fuel tank.

Cut approx. 3 mm off the slanted connection of the tank fitting.

⚠ CAUTION!
When opening the connection socket, ensure that no dirt gets into the tank or the supply lines.

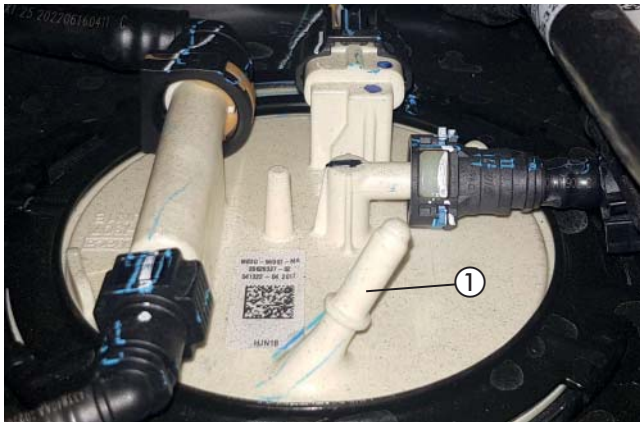
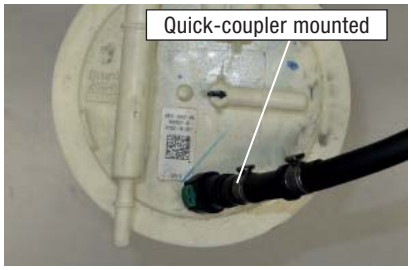


Fig. 39
① Connection socket

Take the prepared fuel pipe (intake line) through the connection socket and slot the quick-coupler in.

The picture of the dismantled tank fitting is for information purposes only.



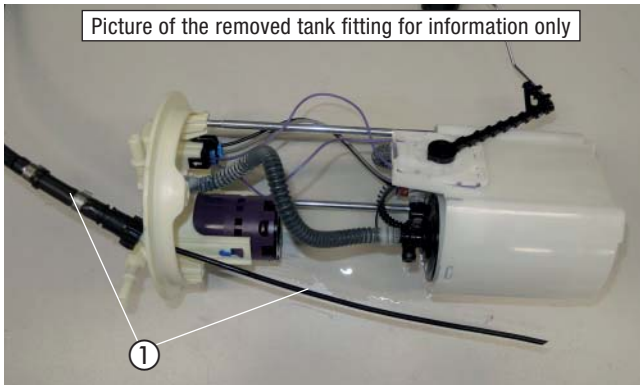


Fig. 40
① Fuel pipe (intake line) mounted

Use cable ties to secure the fuel pipe (intake line) along the vehicle's fuel lines.

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

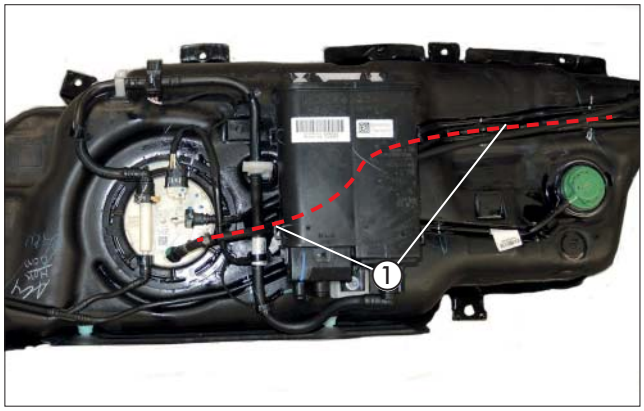


Fig. 41
① Laying fuel pipe (intake line) at fuel tank

4 INSTALLATION

CONNECT AND LAY FUEL PIPE
(see Figs. 42 to 45)

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

- Heater side: 10 mm Ø hose clip
- Fuel pipe side: 9 mm Ø hose clip

Lay the fuel pipe (delivery line) together with the metering pump cable from the heater at the engine partition along the vehicle cables to the other side of the engine compartment.

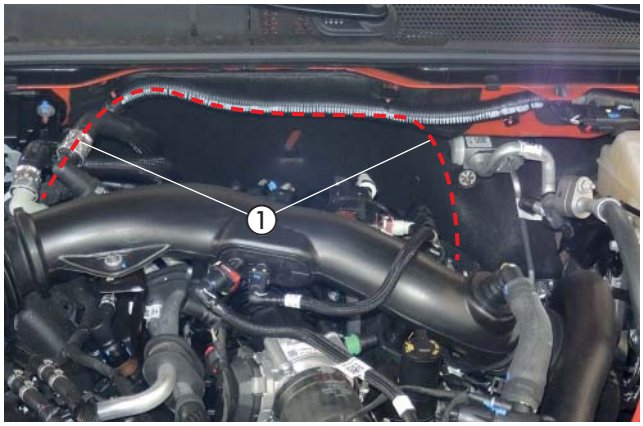


Fig. 42
① Laying the fuel pipe (delivery line) in the engine compartment

Secure the fuel pipe together with the metering pump cable to the existing M6 stud bolt at the engine partition to the right of the aircon connection block, using a rubberised 26 mm Ø clip.

Fit another rubberised 26 mm Ø clip to the lower existing stud bolt M6 (not illustrated).

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



Fig. 43
① Fuel pipe with rubberised clip 26 mm Ø

Take the fuel pipe and the metering pump cable on down to the vehicle underbody and support to the vehicle line with small rotatable line holders.

To do so, connect 2 small line holders into each other in each case.



Small line holders connected together



Fig. 44
① support Fuel pipe with line holder_small (rotatable)

4 INSTALLATION

Take the fuel pipe and the metering pump cable on along the vehicle lines to the installation position of the metering pump before the fuel tank.

Secure the fuel pipe and the metering pump cable behind the fuel filter with 3x small rotatable line holders.

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

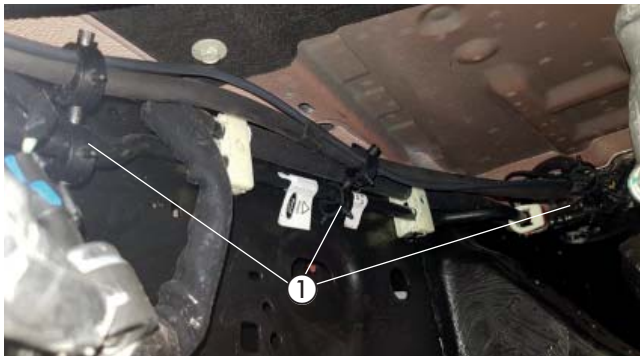


Fig. 45
① Laying fuel pipe with 3x small line holders (rotatable)

INSTALL AND CONNECT THE METERING PUMP
(see Figs. 46 and 47)

The installation location of the metering pump is on the cross member on the bracket for the vehicle's own fuel filter.

To do this, unscrew the vehicle's own M6 fastening screw.



Fig. 46
① Fastening screw M6 ot the fuel filter

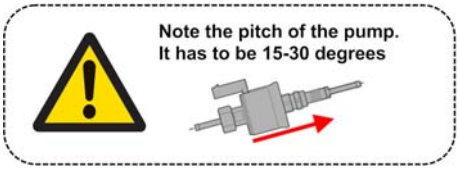
Mount the metering pump with a screw M6 x 30 and body washer B6 on the threaded hole M6.

Ensure it is installed with at least a 15° rising gradient on the pressure side. The discharge end of the metering pump points to the right.

Lay the fuel pipe (intake line) from the tank connection to the metering pump and connect with the fuel hose to the intake end of the metering pump.

Connect the fuel pipe (delivery line) to the discharge end of the metering pump.

Connect the connector to the metering pump.



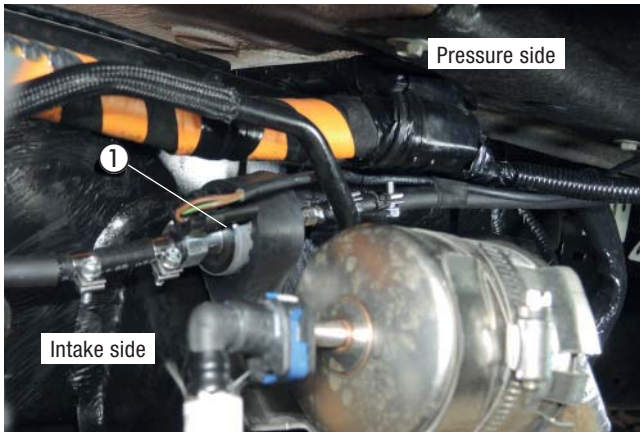


Fig. 47
① Metering pump installed and connected

⚠ CAUTION!
When laying fuel lines, always ensure they are at an adequate distance from hot vehicle and heater parts.
Secure all hose connections with hose clips.

4 INSTALLATION

MOUNT FUSE BLOCK
(see Fig. 48)

Mount the prepared holder with the fuse block to the existing lug centrally behind the lock carrier using an M6 x 16 screw (10^{+1} Nm).

CAUTION!
Do not insert the fuses until after installation is completed.





Fig. 48
① Fuse block mounted

CABLE LAYING
(see Figs. 49 to 51)

Take the main cable harness from the fuse holder to the right along the vehicles own wirirng harness.

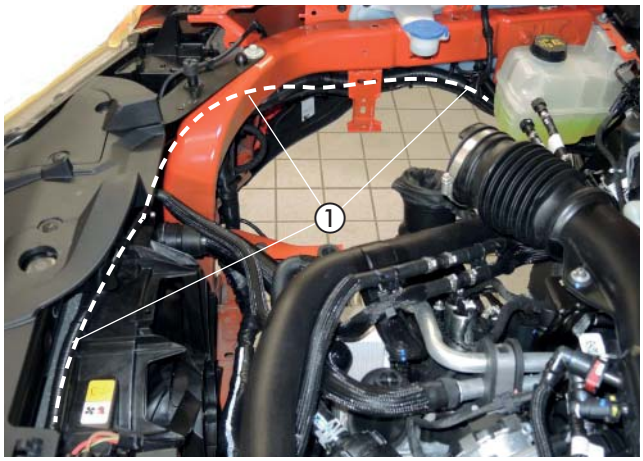


Fig. 49
① Cable loom laid in the front area

At the vehicle cable grommet, open the additional grommet by cutting off the gudgeon.

Route the “fan control” and “control unit” cable looms into the inside of the vehicle through the opened cable grommet.

Take the vehicle interior cable loom consisting of:
- Cable 1 mm² sw/rt
- 3-wire control unit cable loom
- 4-pin fan control box cable loom

through the cable grommet into the interior of the vehicle.



Fig. 50
① cable grommet on the engine partition

4 INSTALLATION

Connect the main cable harness plugs to the heater.

Connect the water pump cable to the water pump and heater.

⚠ 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.

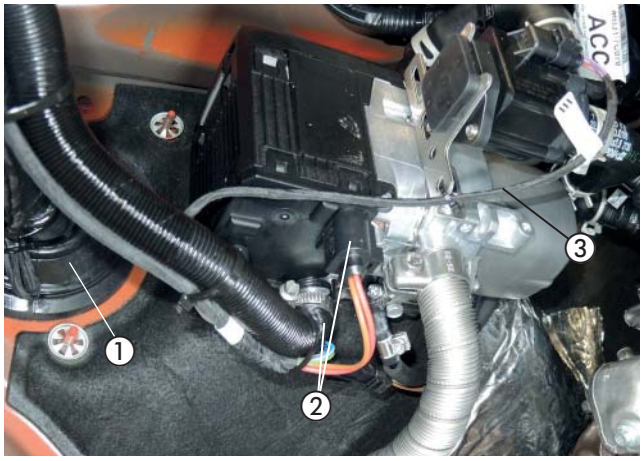


Fig. 51
① Vehicle cable grommet
② Main cable harness connector
③ cable water pump

POWER SUPPLY
(see Fig. 52 and 53)

Take the 4 mm² red positive cable to the vehicle battery and connect with the A8 cable lug to the positive terminal as shown.

Take the 2.5 mm² brown earth cable to the earthing point on the side wall and connect with the A6 cable lug.

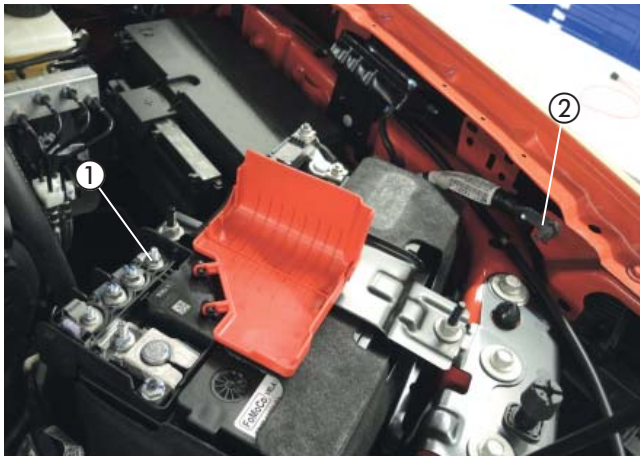


Fig. 52
① Positive cable
② Earthing connection

EARTH POINT ALTERNATIV:

Take the earth cable 2.5 mm² brown to the earth point on the frame side member, below the battery, and connect it with cable lug A6.

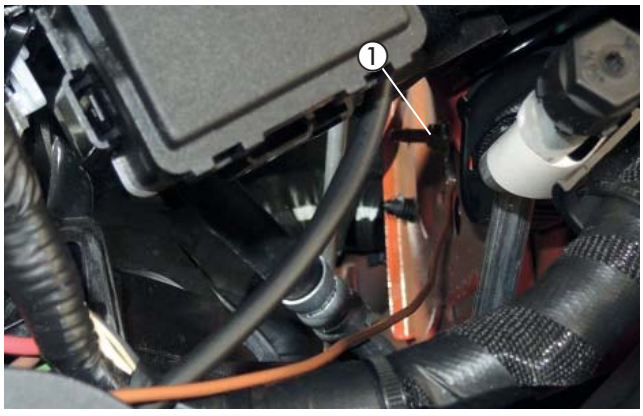


Fig. 53
① Earth point alternativ

4 INSTALLATION

AIRCON FAN CONTROL
(see Figs. 54 to 58)

PREPARE LEAD HARNESS FROM “EASYFAN” FAN CONTROL BOX

At the 8-pin black connector of the “EasyFan” fan control box lead harness, fit a red butt-type connector onto the 0.5 mm² black/red cable.

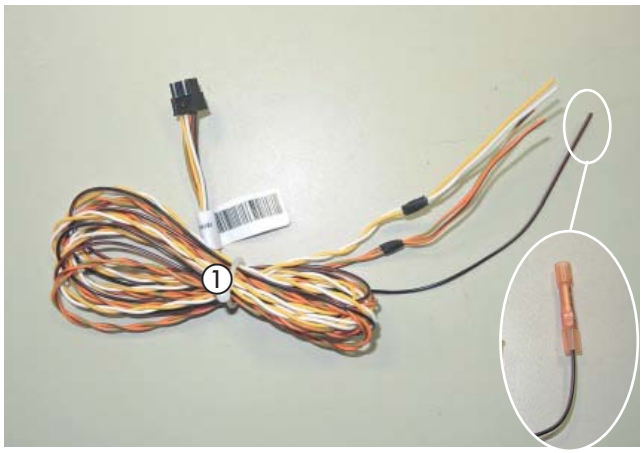


Fig. 54
① Lead harness “EasyFan” fan control box

Fit the fan control box with holder to the existing M6 stud bolt on the left behind the glove compartment with an M6 x 12 screw.

Slot the 4-pin black connector from the “fan control box” cable loom and the 8-pin black connector from the “EasyFan” lead harness into the fan control box.

Take the “EasyFan” lead harness to the aircon control in the centre console.

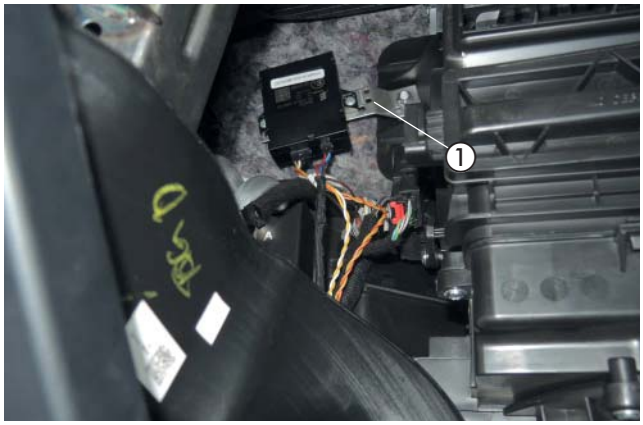


Fig. 55
① Fan control box mounted

Connect the 0.5 mm² black/red cable from the “control unit” cable loom with the 0.5 mm² black/red cable from the fan control box loom using the red butt-type connector as shown in the circuit diagram.

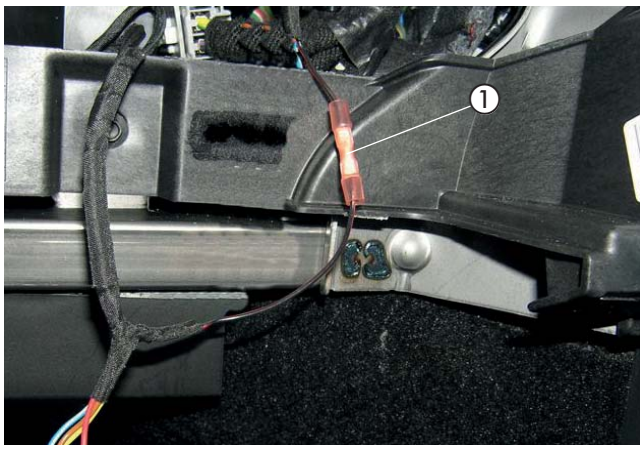


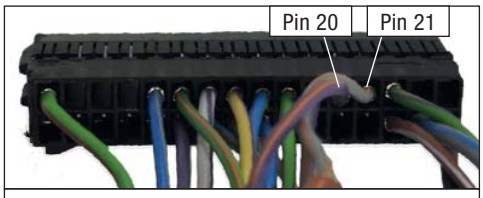
Fig. 56
① Black/red cables connected

4 INSTALLATION

Insert the CAN leads from the “EasyFan” fan control box lead harness in the 32-pin HVAC module with red butt-type connectors:

- Disconnect CAN-H (grey/orange cable, pin 20)
- Connect yellow cable to HVAC module connector
- Connect orange/green cable to vehicle cable harness

- Disconnect CAN-L (violet/orange cable, pin 21)
- Connect white cable to HVAC module connector
- Connect orange/brown cable to vehicle cable harness



Connector 32-pole, view cable entry side



Fig. 57

① CAN leads connected at HVAC module

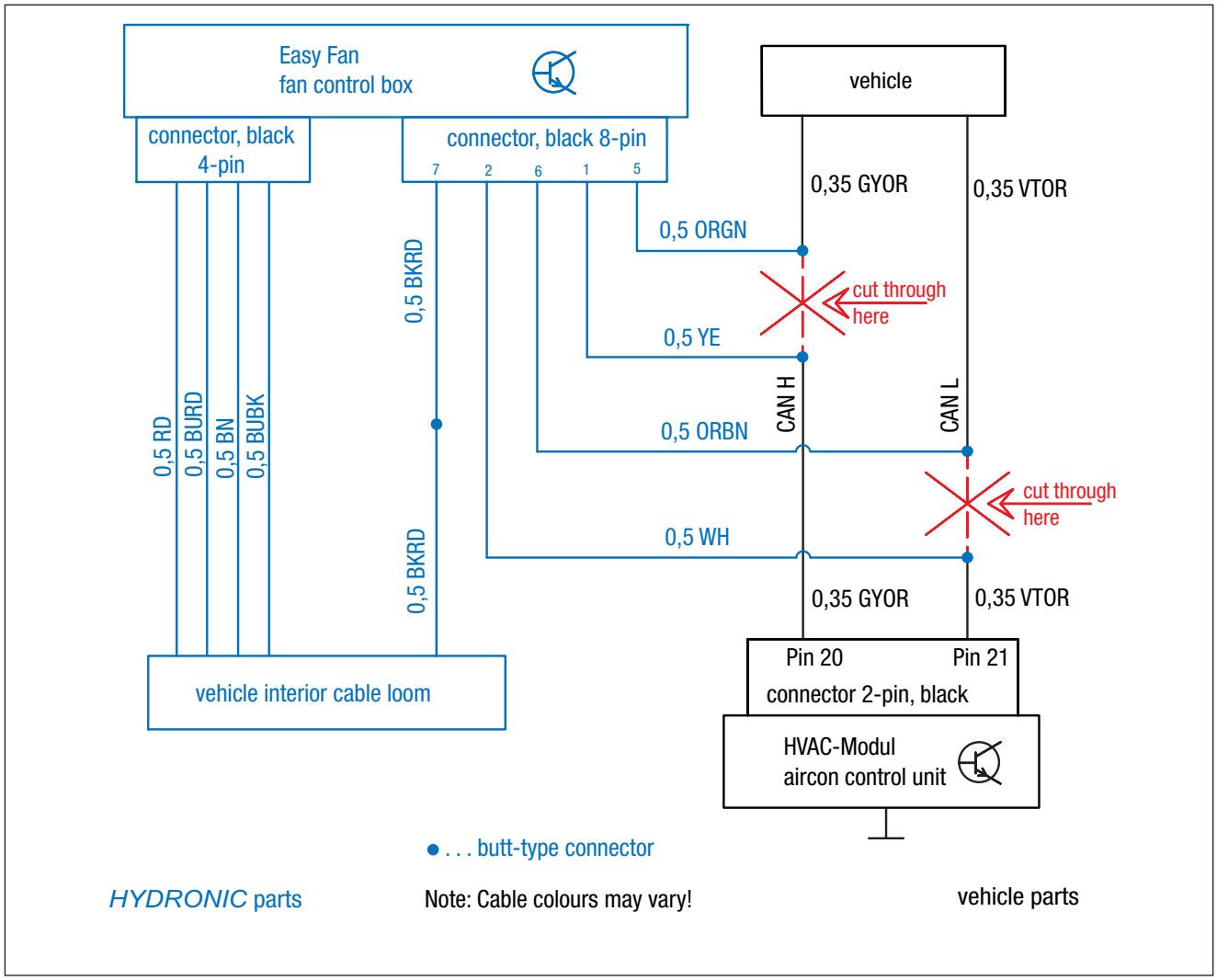


Fig. 58

4 INSTALLATION

INSTALL CONTROL UNIT
(Alternative suggestion - consult with the customer)
(see Figs. 59 to 63)

FOR INSTALLING EASYSTART TIMER

Installation is according to the Technical Description for the EasyStart Timer.

Mount the EasyStart Timer control unit on the centre console beneath the aircon control.
To do so, drill 2 holes with the template (9 mm Ø and 6 mm Ø) and insert the control unit.



Fig. 59
① EasyStart Timer mounted

FOR INSTALLING EASYSTART REMOTE / REMOTE⁺ / WEB

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

Mount the button for the control unit to the centre console below the aircon control.
To do so, drill a 10 mm Ø hole and insert the button in the hole.



Fig. 60
① Control unit button mounted

OPTIONAL:

Attach the temperature sensor of the control unit to the trim moulding on the A-pillar in the footwell on the passenger side.



Fig. 61
① Temperature sensor mounted

4 INSTALLATION

Mount the stationary part of the control unit to the supporting strut on the left below the glove compartment using an M6 x 12 screw.

Connect the antenna cable of the EasyStart Remote+ 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 unit” cable loom to the installed position of the stationary part and connect to the stationary part.

CAUTION!
Use cable ties to fix any excessive length of antenna cable underneath the instrument panel.

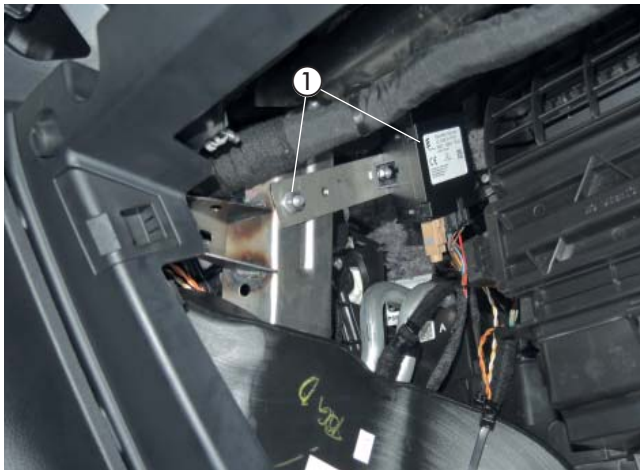


Fig. 62
① Stationary part mounted

OPTIONAL: COMBINATION EASYSTART REMOTE+ AND EASYSTART TIMER

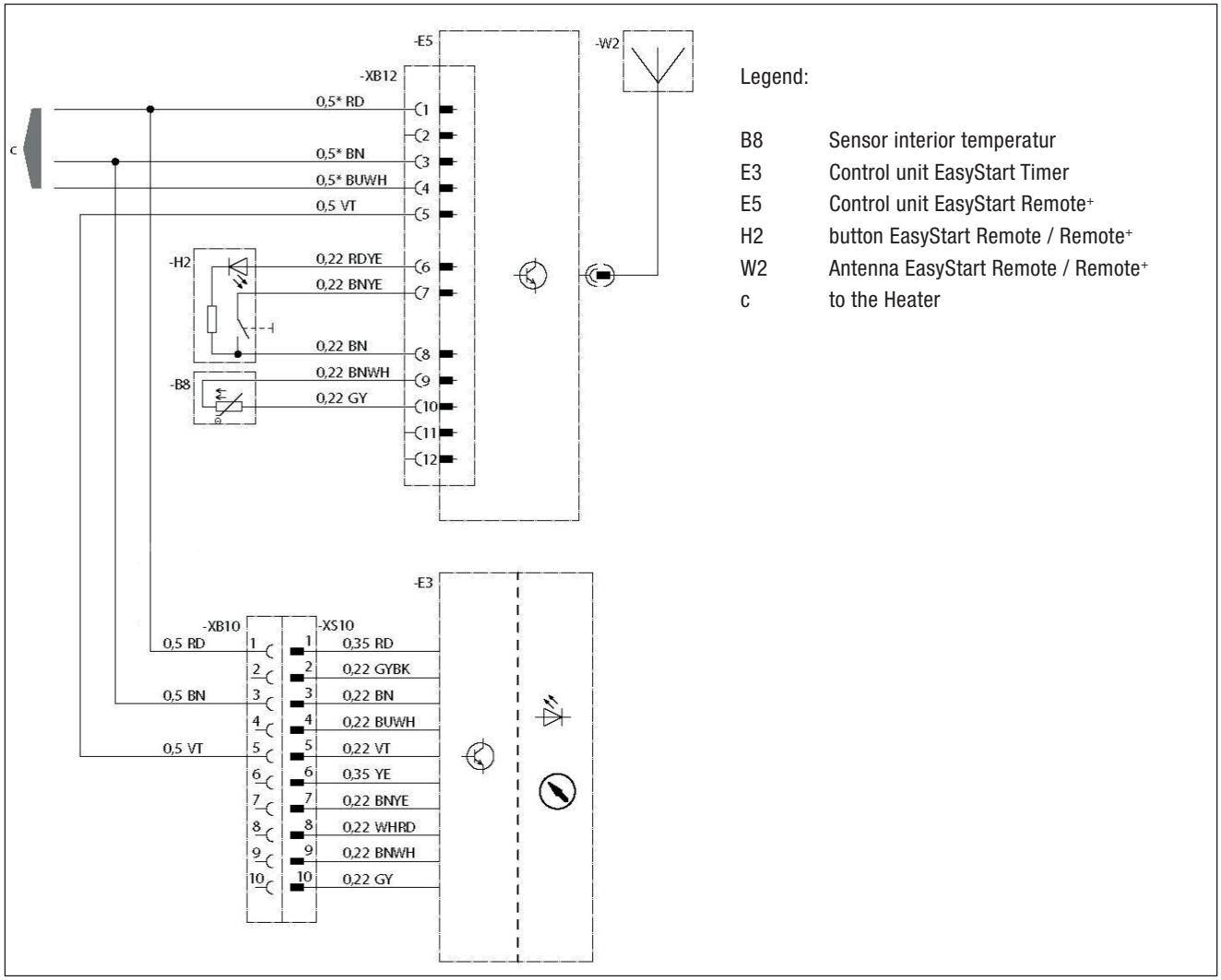


Fig. 63

5 FOLLOWING INSTALLATION

POSITION LABEL
(see Fig. 64)

Stick the “Refuelling” information sticker in the tank flap as shown.



Fig. 64
① “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.
- Stick the “Refuelling” information sticker in the tank flap.
- 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.

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.

6 PARTS OVERVIEW



Fig. 65

LEAFLET FOR THE CUSTOMER

BEFOR SWITCHING ON IN VEHICLES WITH AUTOMATIC AIR CONDITIONING

- Befor switching on or before pre-programming the heating mode with ignition switched on, set the vehicle temperature controllers ① to maximum setting (high).
- Adjust the airflow ② to maximum airflow to the windscreen.
- Pre-select the fan speed ③ to level 3.



① Controller for the temperature
② Adjusting the air flow (touchscreen)
③ Button for fan speed

PLEASE NOTE!

- 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.

Headquarters:
Eberspächer Climate Control Systems GmbH & Co. KG
Eberspächerstraße 24
73730 Esslingen
Hotline: 039762350235
Fax hotline: 01805 262624
Hotline: 0041 313798405
info@eberspaecher.com
www.eberspaecher.com

Eberspächer

20 2048 95 3365 05.2023 EN
We reserve the right to make changes © Eberspächer Climate Control Systems GmbH & Co. KG