INSTALLATION RECOMMENDATION
UPGRADE OF THE AUXILIARY HEATER HYDRONIC II - D 5 S AS PRE-HEATER IN RENAULT MASTER / OPEL MOVANO



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

OPEL MOVANO

2.3 l cubic capacity / 4 cylinder in-line engine CDTI / 99 kW - 135 HP
2.3 l cubic capacity / 4 cylinder in-line engine CDTI / 110 kW - 150 HP
2.3 l cubic capacity / 4 cylinder in-line engine CDTI / 132 kW - 180 HP

RENAULT MASTER

2.3 l cubic capacity / 4 cylinder in-line engine dCi / 99 kW - 135 HP
2.3 l cubic capacity / 4 cylinder in-line engine dCi / 110 kW - 150 HP
2.3 l cubic capacity / 4 cylinder in-line engine dCi / 132 kW - 180 HP

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

- **without manual air-conditioning or with manual air-conditioning**
- **with automatic air-conditioning**
- **with fog lamps**
- **with daytime running lamps**
- **with manual transmission**

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 upgrading the auxiliary heater before starting work.
All liability claims resulting from modifications to the vehicle are excluded.

Installation time: approx. 4 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
2.3 l CDTI / dCi	99 / 135	6S
2.3 l CDTI / dCi	110 / 150	6S
2.3 l CDTI / dCi	132 / 180	6S

6S = 6-speed manual 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	Vehicle-specific installation kit	24 8000 29 00 87
EasyStart control unit as chosen:		
1	EasyStart Timer	22 1000 34 15 00
1	EasyStart Remote+ for Opel	22 1000 34 43 00
1	EasyStart Remote+ for Renault	22 1000 34 17 00
Additional parts to be ordered for vehicles without air conditioning or with manual air conditioning:		
1	Aircon kit	24 8514 00 00 00
Additional parts to be ordered for vehicles with automatic air conditioning:		
1	Aircon kit	24 8518 00 00 00

SPECIAL TOOLS REQUIRED

- Necessary torque wrench
- Pinch-off pliers
- Crimping tool

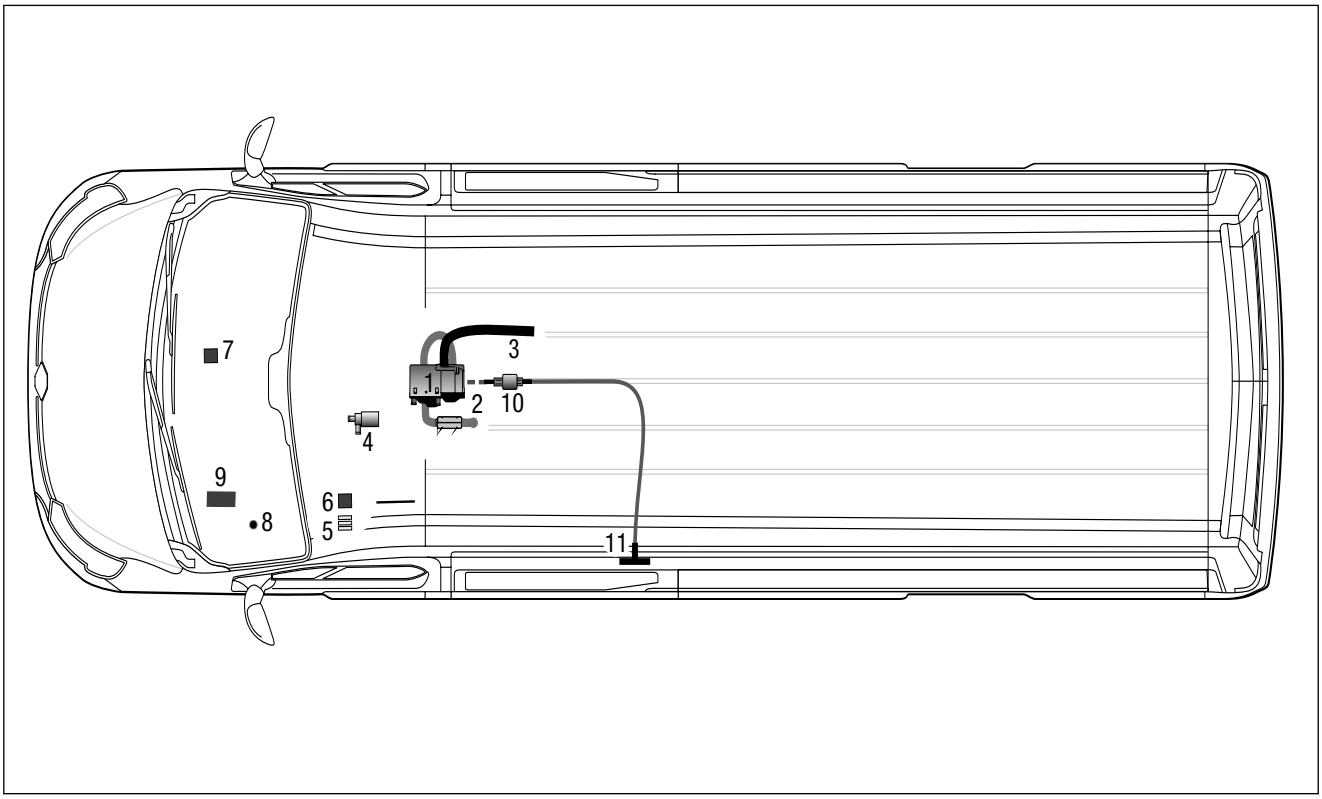
TIGHTENING TORQUES

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
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

1 INTRODUCTION

INSTALLATION DRAWING



1 Heater Hydronic II
2 Exhaust silencer
3 Combustion air pipe
4 Water pump
5 Fuse holder
6 Fan relay
7 Fan stage relay or IPCU module
8 EasyStart Timer / Remote+
9 Stationary part of the EasyStart Remote+
10 Metering pump
11 T-piece for the fuel tank extractor

2 PREPARATION OF THE VEHICLE

PREPARATORY WORK ON THE VEHICLE

- Remove the door-sill cover on the driver's side
- Disconnect the battery
- Remove the cover of the relay and fuse box
- Remove the gearshift lever cover
- Remove the aircon control unit
- Depressurise the cooling system

INSTRUCTIONS FOR REMOVING THE DOOR-SILL COVER
(see Fig. 1)

Remove the door-sill cover on the driver's side by loosening the six Torx screws.

Disconnect the battery.



Fig. 1
① Loosen Torx screws and remove door-sill cover

INSTRUCTIONS FOR REMOVING THE AIRCON CONTROL
(see Figs. 2 to 4)

Loosen the four Torx screws of the gearshift lever cover.

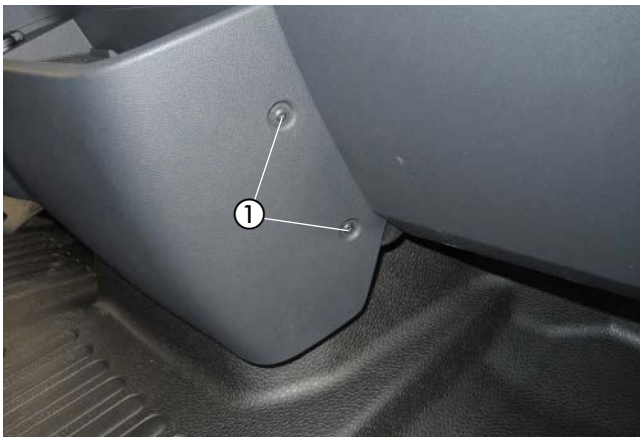


Fig. 2
① Loosen four screws of gearshift lever cover

2 PREPARATION OF THE VEHICLE

Disengage the gearshift lever boot from the gearshift lever cover.



Fig. 3
① Disengage the gearshift lever boot from the cover

Use a plastic wedge to disengage the aircon control from the instrument panel from behind.



Fig. 4
① Disengage aircon control from instrument panel from the back using a plastic wedge

3 INSTALLATION

MOUNT FUSE AND FAN RELAY BRACKET
(see Fig. 5)

Use the existing M8 screw to fasten the bracket with fuse and relay block to the connection point of the earth cable and align as shown in the figure.

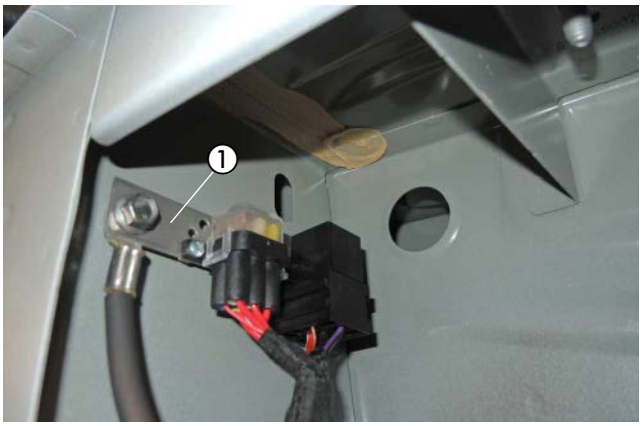


Fig. 5
① Mount bracket with fuse and relay block

CABLE LAYING
(see Figs. 6 and 7)

Route the main cable loom through the vehicle's cable grommet in the battery box to the vehicle underbody.

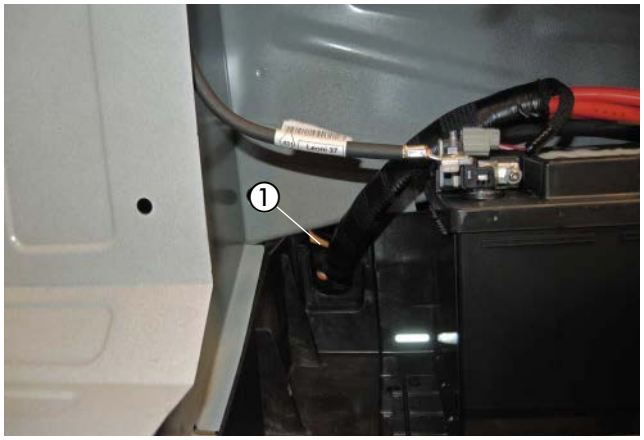


Fig. 6
① Vehicle's cable grommet

Route the main cable loom along the tank bracket to the heater and secure at suitable points using cable ties.

⚠ 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.

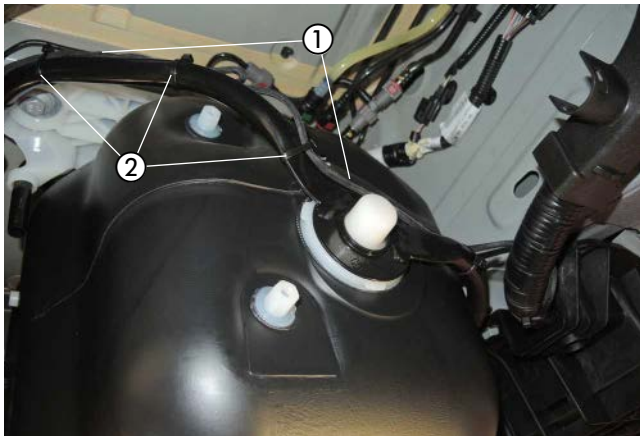


Fig. 7
① Route the main cable loom to the heater
② Cable ties

3 INSTALLATION

CONNECT HEATER CABLE LOOM
(see Figs. 8 to 10)

Disconnect the vehicle's cable loom from the heater connector.

Integrate the routed cable loom to the heater as shown.

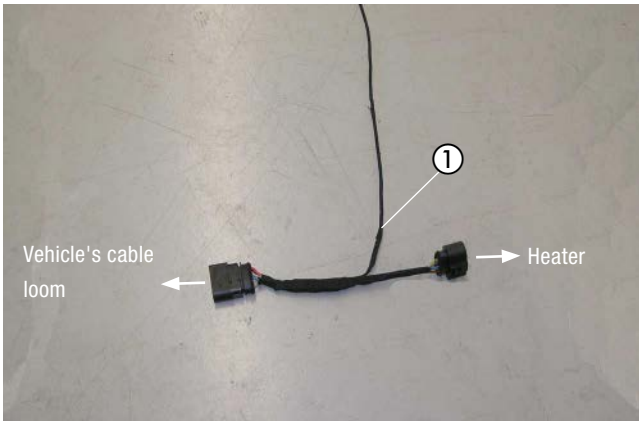


Fig. 8
① Cable loom to heater

Connect the plugs of the heater and main cable loom as shown in the figure.

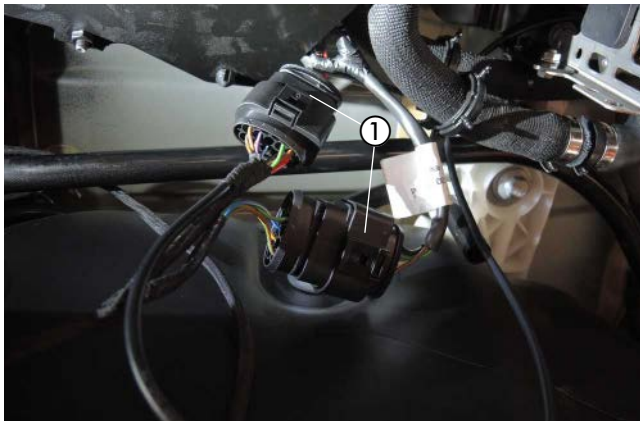


Fig. 9
① Connect plugs of heater and main cable loom

Secure the connectors of the heater and main cable loom to the heater holder (on the inside).



Fig. 10
① Secure connectors of heater and main cable loom to heater holder

3 INSTALLATION

CABLE LAYING
(see Figs. 11 to 12)

Route the “control unit” and “fan control” cable looms to the relay and fuse box in the driver's footwell.

Secure the “control unit” and “fan control” cable looms with the line holders and two cable ties to the battery box.
Route the “control unit” and “fan control” cable looms alongside one another at the transition to the rubber door seal.

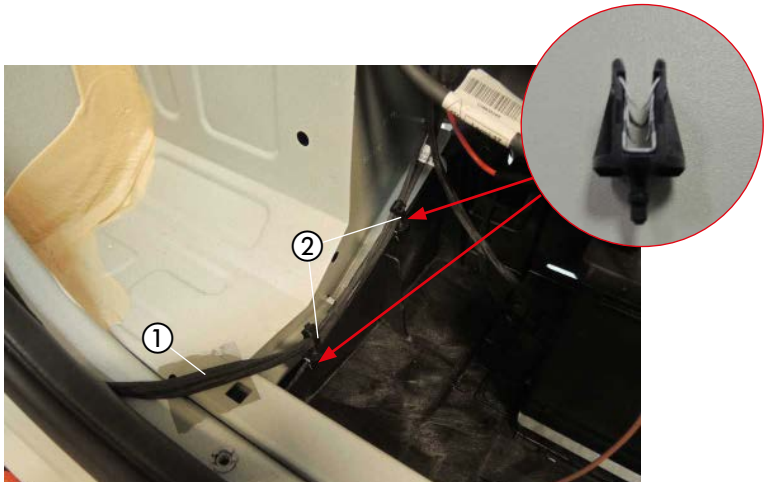


Fig. 11
① Route “control unit” and “fan control” cable looms
② Secure line holder to battery box

Secure the “control unit” and “fan control” cable looms at the transition to the rubber door seal using insulating tape.

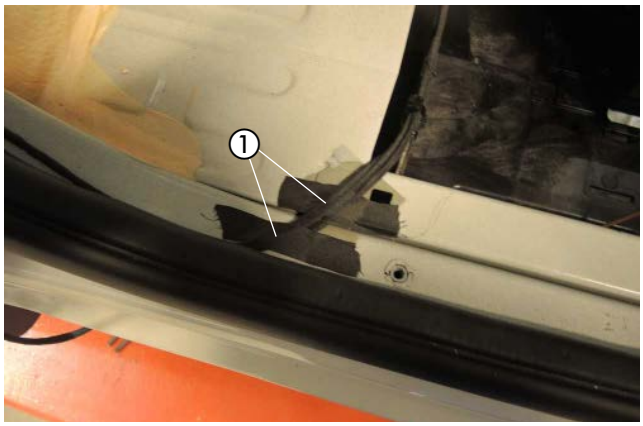


Fig. 12
① Secure “control unit” and “fan control” cable looms with insulating tape

FAN CONTROL
IN VEHICLES WITH OR WITHOUT MANUAL AIR-CON
(see Figs. 13 to 19)

Fit the relay block for fan stage 2 to the instrument panel holder using the existing Torx screw as shown in the figure.

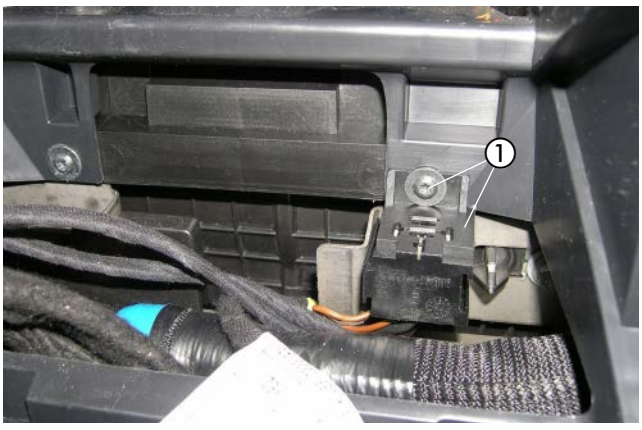


Fig. 13
① Install relay block on instrument panel holder

3 INSTALLATION

Press the relay for fan stage 2 into the relay block.

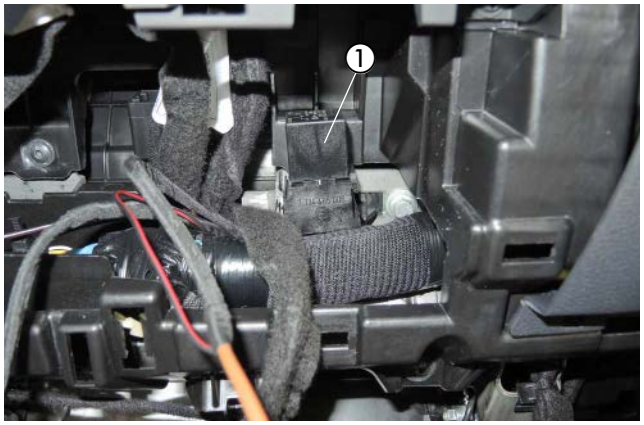


Fig. 14
① Press relay for fan stage 2 into relay block

The cables are integrated in fan stage 2 at the 6-pin grey connector in the AirCon control unit.

Disconnect the 2.5 mm² cable in chamber 2 of the 6-pin grey connector and fit two bushing connectors.

Connect the 2.5 mm² cables to the triple distributor as shown in the figure.

Disconnect the 4 mm² cable in chamber 4 of the 6-pin grey connector, fit one bushing connector and one flat connector.

Integrate the 4 mm² sw and 4 mm² sw/vi cables from the relay of fan stage 2 as shown in the figure and in the circuit diagram.

Route the 1 mm² sw/rt cable from the relay of fan stage 2 to the relay and fuse box on the driver's side.

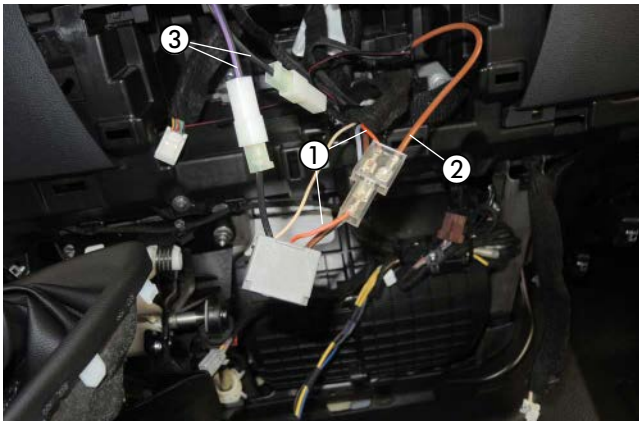


Fig. 15
① Disconnect 2.5 mm² cable in chamber 2
② Connect 2.5 mm² cable to the triple distributor
③ Insert 4 mm² sw and 4 mm² sw/vi cables

The fan is controlled at fuse F27/40A in the vehicle fuse and relay box.



Fig. 16
① Fuse F27/40A in the vehicle fuse and relay box

3 INSTALLATION

Disconnect the 4 mm² ge cable at the output of fuse F27/40A and integrate the 4 mm² sw, 1 mm² sw /rt and 4 mm² sw/vi cables with two bushing connectors as shown in the circuit diagram.

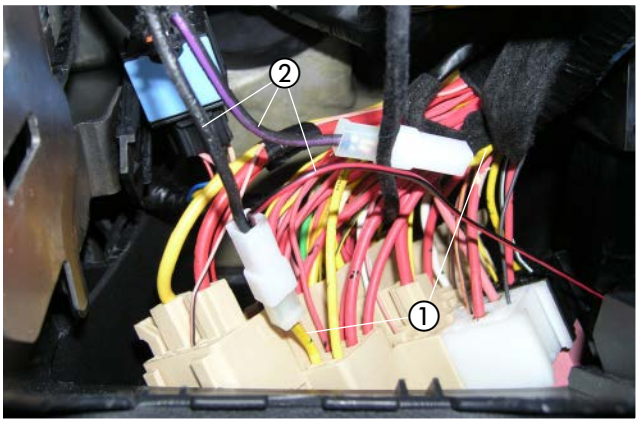


Fig. 17
① Disconnect 4 mm² ge cable at the output of fuse F27/40A
② Integrate 4 mm² sw, 1 mm² sw/rt and 4 mm² sw/vi cables

PLEASE NOTE!
The cable colours may vary!
Use cable ties to fix the cable looms in suitable places.

Connect the 1 mm² br earth cable from the connector block of the IPCU module to the existing earth point on the instrument panel supporting strut.



Fig. 18
① Connect 1 mm² br earth cable

3 INSTALLATION

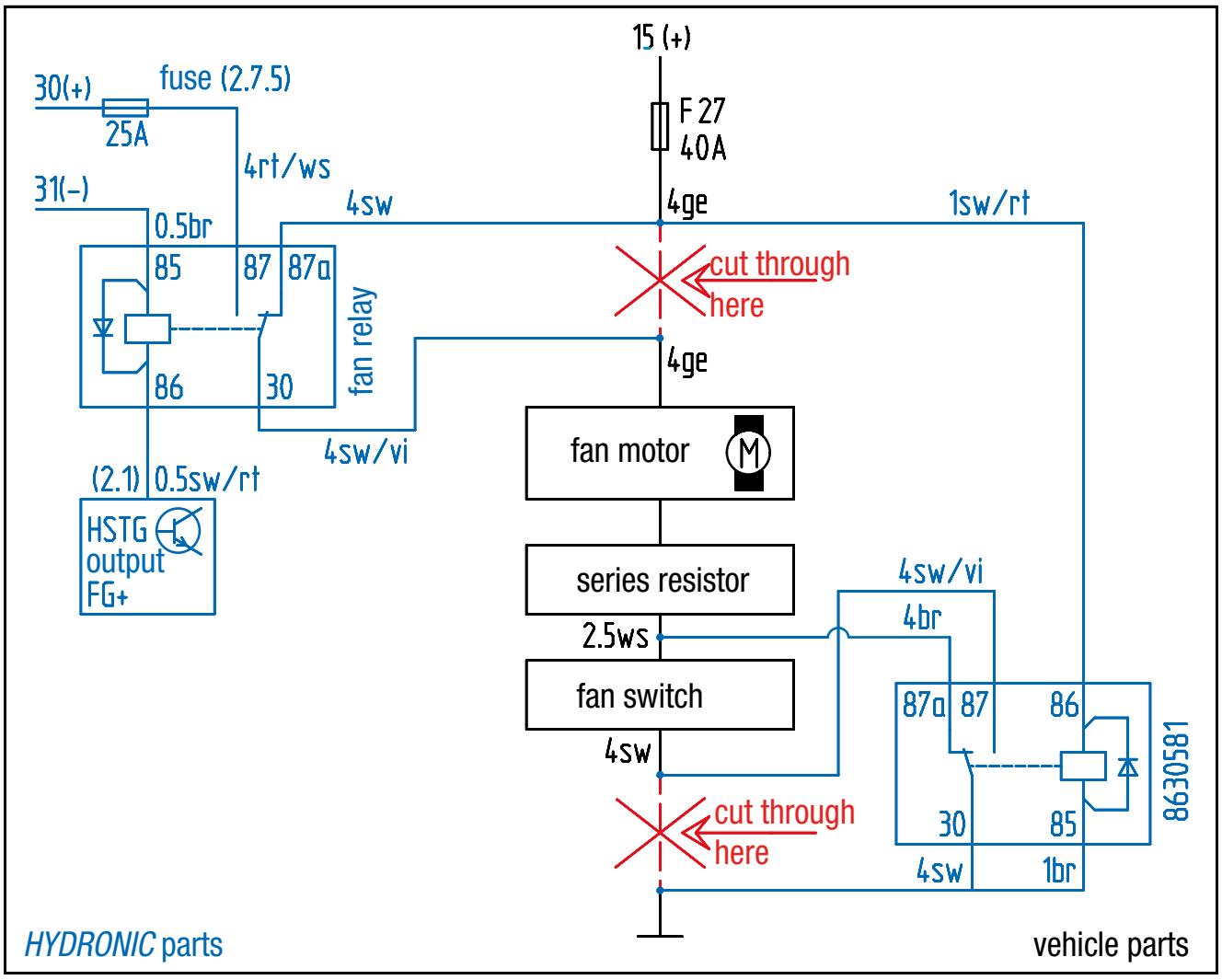


Fig. 19

3 INSTALLATION

FAN CONTROL
IN VEHICLES WITH AUTOMATIC AIRCON
(see Figs. 20 to 27)

Fit the connector block for the IPCU module to the instrument panel holder using the existing Torx screw as shown.

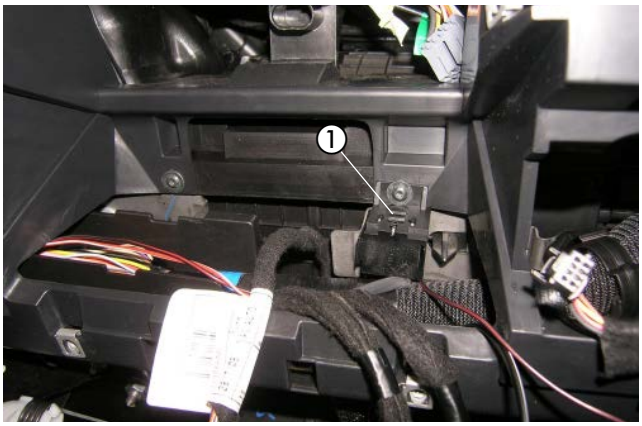


Fig. 20
① Fit connector block for the IPCU module to the instrument panel holder

Insert the ICU module in the connector block as shown.

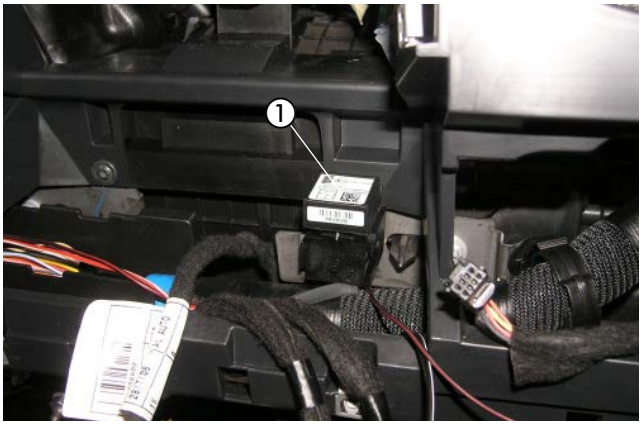


Fig. 21
① Insert the IPCU module in the connector block

Connect the 1 mm² br earth cable from the connector block of the IPCU module to the existing earth point on the instrument panel supporting strut.

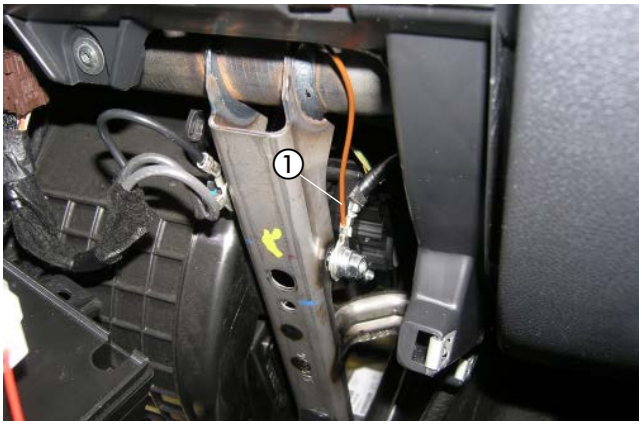


Fig. 22
① Connect 1 mm² br earth cable

3 INSTALLATION

Route the 1 mm² sw and 1 mm² sw/ws cables from the connector block of the IPCU module to the aircon control.

Disconnect the 0.35 mm² bl/ws cable (pin 13) of the 24-pin white connector at the aircon control.

Integrate the 1 mm ² sw and 1 mm² sw/ws cables with two bushing connectors as shown in the circuit diagram.

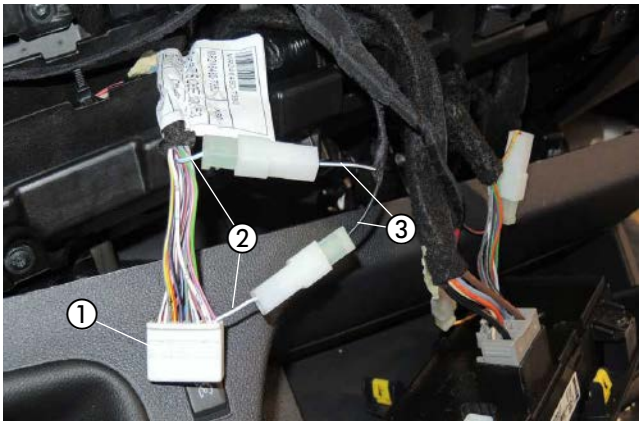


Fig. 23
① 24-pin white connector
② Disconnect 0.35 mm² bl/ws cable (pin 13)
③ Integrate 1 mm² sw and 1 mm² sw/ws cables

Route the 1 mm² rt and 1 mm² sw/rt cables with diodes to the aircon control.

Disconnect the 0.35 mm² ge/sw cable (pin 7) of the 12-pin white connector at the aircon control.

Integrate the 1 mm² rt and 1 mm² sw/rt cables from the diode loom with two bushing connectors as shown in the circuit diagram.

PLEASE NOTE!
The cable colours may vary.

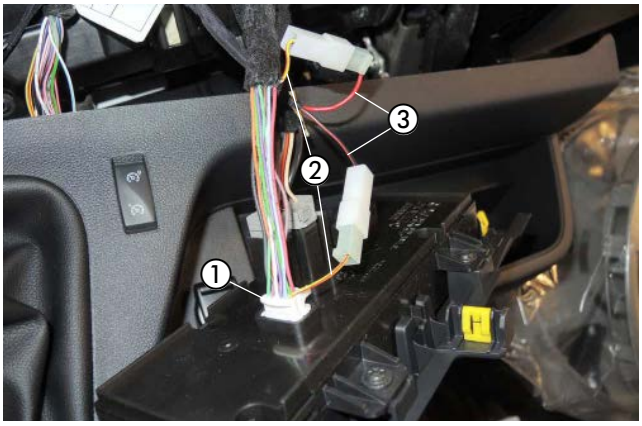


Fig. 24
① 12-pin white connector
② Disconnect 0.35 mm² ge/sw cable (pin 7)
③ Integrate 1 mm² rt and 1 mm² sw/rt cables

The fan is controlled at fuse F27/40A in the vehicle fuse and relay box.



Fig. 25
① Fuse F27/40A in the vehicle fuse and relay box

3 INSTALLATION

Lay the 1 mm² rt/ws and 1 mm² sw/rt cables from the IPCU module connector block through to the vehicle fuse and relay box.

Disconnect the 4 mm² ge cable at the output of fuse F27/40A and integrate the 4 mm² sw, 1 mm² rt/ws and 4 mm² sw/vi, 1 mm² sw/rt cables with two plug-in connectors as shown in the circuit diagram.

PLEASE NOTE!
Use cable ties to fix the cable looms in suitable places.

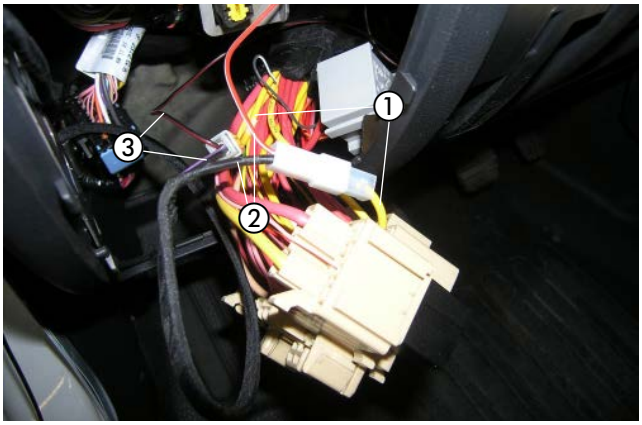
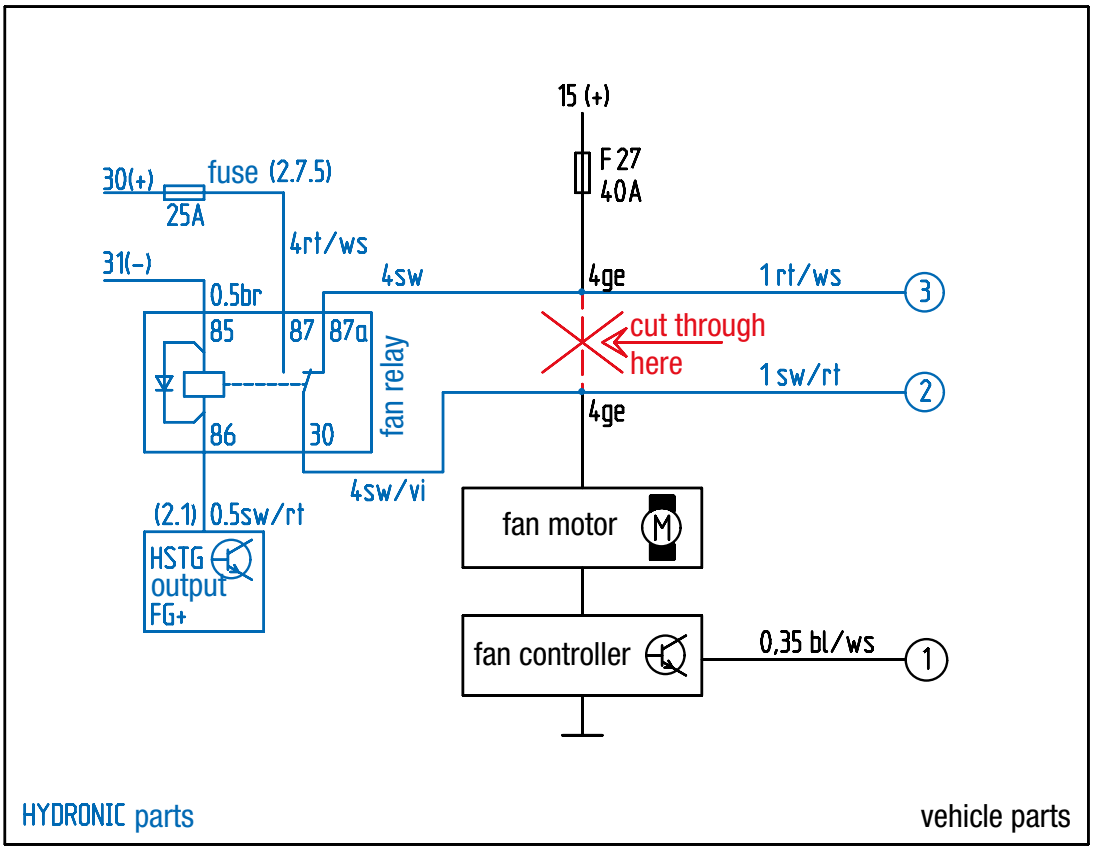


Fig. 26
① Disconnect 4 mm² ge cable at the output of fuse F27/40A
② Integrate 4 mm² sw and 1 mm² rt/ws cables
③ Integrate 4 mm² sw/rt and 1 mm² sw/rt cables

3 INSTALLATION



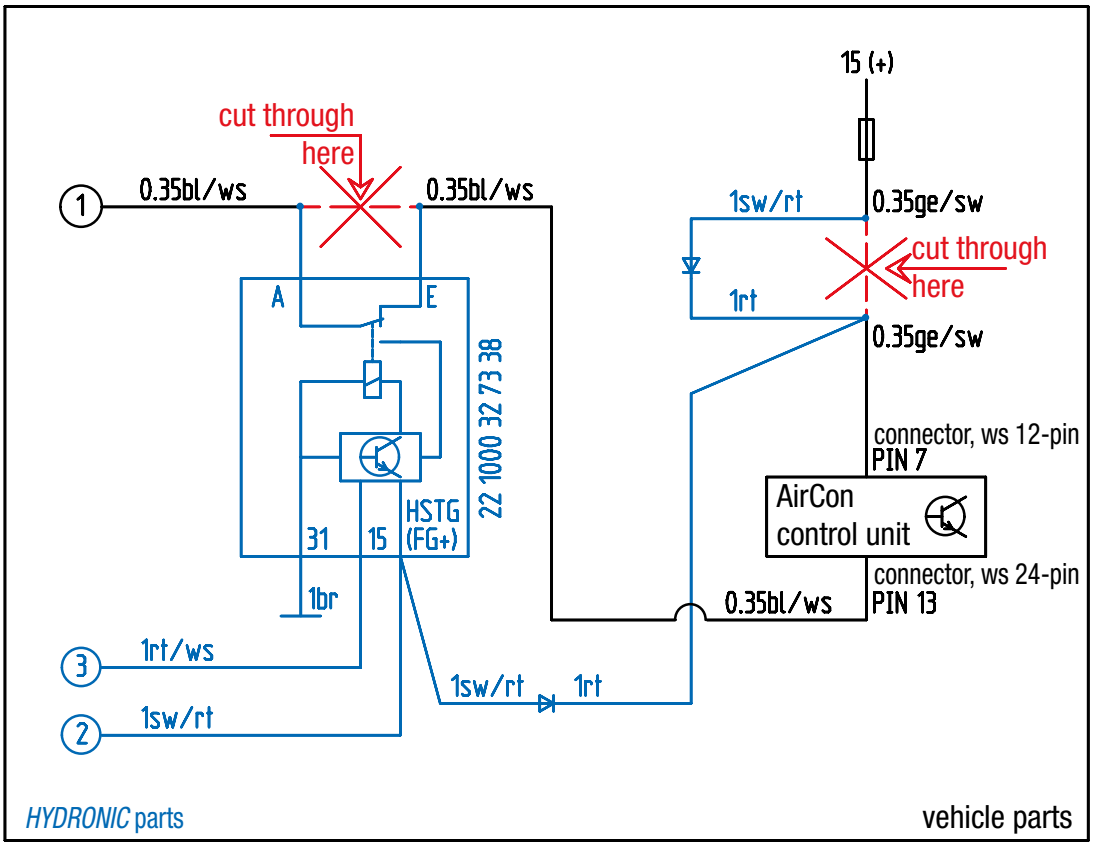


Fig. 27

3 INSTALLATION

INSTALL EASYSTART TIMER
(Alternative suggestion - consult with the customer)
(see Fig. 28)

The EasyStart Timer is installed according to the “EasyStart Timer” installation instructions.

Mount the EasyStart timer on the trim moulding of the instrument panel on the left next to the headlight height adjustment switch.



Fig. 28
① Install EasyStart timer

INSTALL EASYSTART REMOTE/REMOTE+ RADIO REMOTE CONTROL
(Alternative suggestion - consult with the customer)
(see Figs. 29 to 34)

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

Drill the 10 mm Ø hole for the EasyStart Remote+ button according to the dimensions in the figure.



Fig. 29
① Drill hole for EasyStart Remote+ button

Insert the button in the drilled hole.



Fig. 30
① Mount the EasyStart Remote+ button

3 INSTALLATION

Attach the EasyStart Remote+ temperature sensor to the trim moulding of the A-pillar in the footwell on the driver's side.



Fig. 31
① Mount the temperature sensor of the EasyStart Remote+

Fasten the stationary part of the EasyStart Remote/Remote+ to the 90° angle bracket (22 9000 52 00 69) using two M4 x 10 screws and two M4.

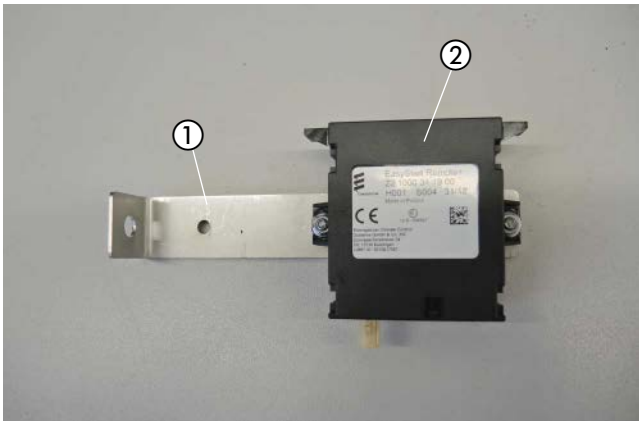


Fig. 32
① 90° bracket holder (22 9000 52 00 69)
② Stationary part of the EasyStart Remote / Remote+

Fasten the stationary part of the EasyStart Remote+ to the lower fastening point of the instrument panel trim moulding on the driver's side using the existing Torx screw as shown in the figure.

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.

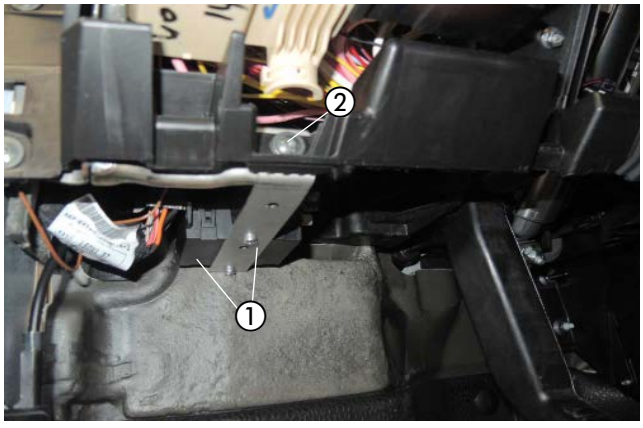


Fig. 33
① Install stationary part of EasyStart Remote+ with holder
② Existing Torx screw

3 INSTALLATION

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.

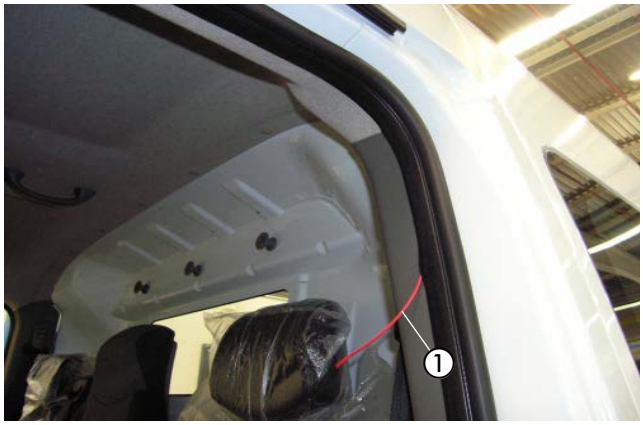


Fig. 34
① Lay the antenna cable of the EasyStart Remote+ in the rubber door seal on the driver's side

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

INSTALL WATER PUMP
(see Figs. 35 to 37)

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

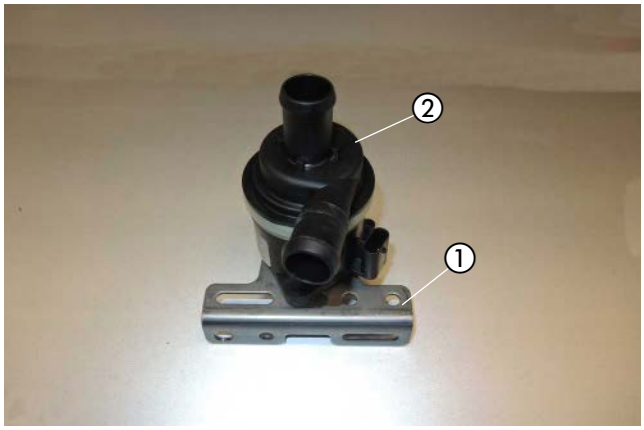


Fig. 35
① Water pump holder
② Water pump

Disengage the water flow hose to the heater at the bracket of the water hoses.

Cut off the cable tie on the water flow hose to the heater.

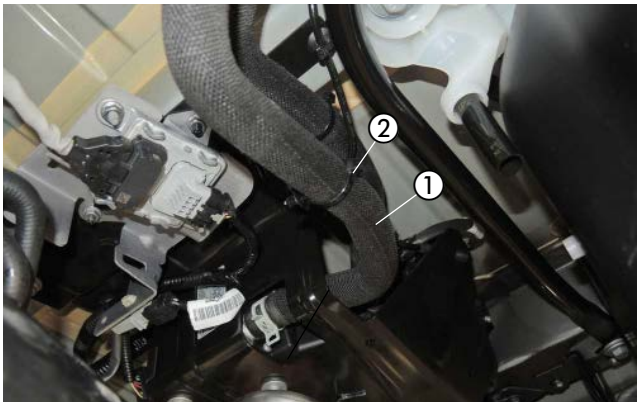


Fig. 36
① Disengage water flow hose to heater at bracket
② Cut off cable tie on water hose

3 INSTALLATION

Fasten the prepared water pump to the existing hole in the bracket of the water hoses using an M6 x 12 screw and M6 nut as shown in the figure.

The water pump intake end is facing forwards and the discharge end to the left.



Fig. 37
① Mount water pump on bracket

CUT WATER FLOW HOSE
(see Fig. 38)

Use two pinch-off pliers to close off the water flow hose to the heater.

Cut the water flow hose to the heater to the dimensions shown in the figure.

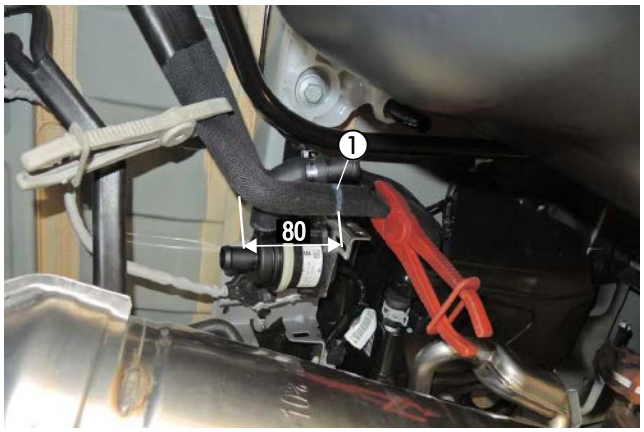


Fig. 38
① Cutting point in the water flow hose

PREPARE WATER HOSE
(see Figs. 39 and 40)

Cut the water hose (24.0117.80.0001) to the dimensions shown in the figure.

The cut off hoses ends are no longer required.

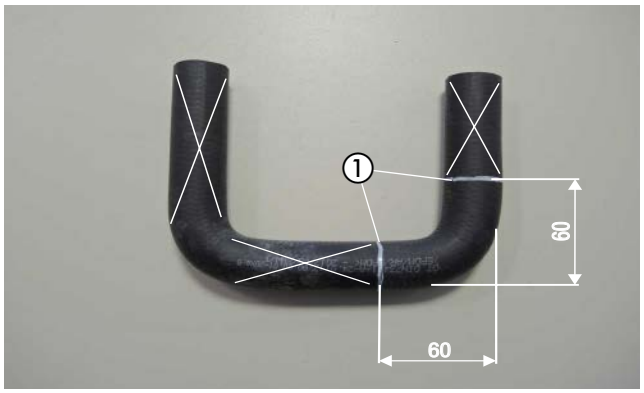


Fig. 39
① Cutting points on water hose

3 INSTALLATION

Insert the Ø 20 mm connecting pipe into the prepared water hose and secure with a Ø 20-32 mm hose clip.

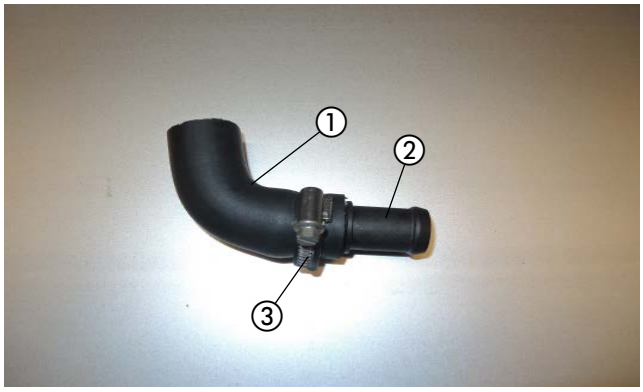


Fig. 40
① Prepared water hose
② Connection pipe 20 mm Ø
③ Hose clip, 20 - 32 mm Ø

CONNECT AND LAY WATER HOSES
(see Figs. 41 to 44)

Connect the cut water flow hose to the intake end of the water pump using a 20-32 mm Ø hose clip.

Connect the prepared water hose to the discharge end of the water pump using a 20-32 mm Ø hose clip.

Connect the prepared water hose with the water hose section to the heater with the Ø 20 mm connecting pipe and a Ø 20-32 mm hose clip.

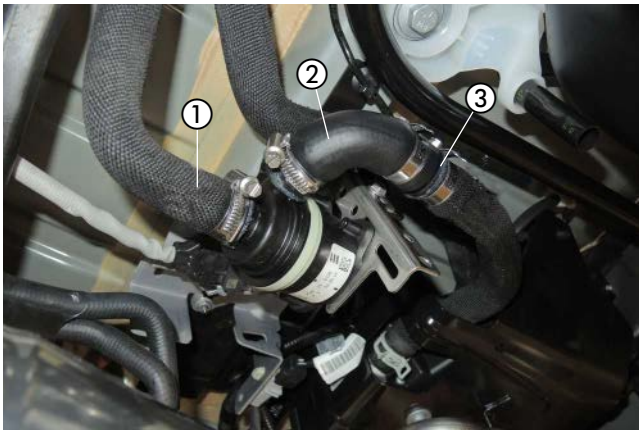


Fig. 41
① Connect cut water flow hose
② Connect prepared water hose
③ Connect water hose to heater

Connect the water flow hose and the water return hose from the heater together using two rotatable hose holders.

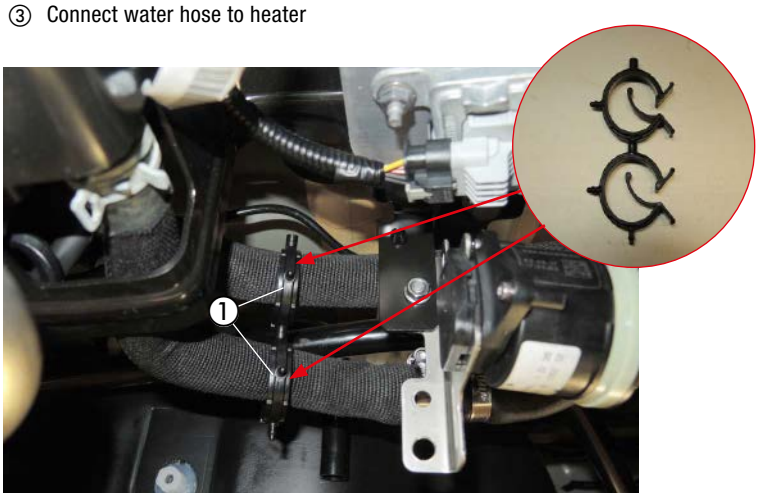


Fig. 42
① Two rotatable hose holders

⚠ CAUTION!
Push all water hoses on as far as they will go.
Secure all hose connections with hose clips.
When laying the water hoses, ensure they are at a sufficient distance from adjacent components.

3 INSTALLATION

Connect the plug of the main cable loom to the water pump as shown in the figure.

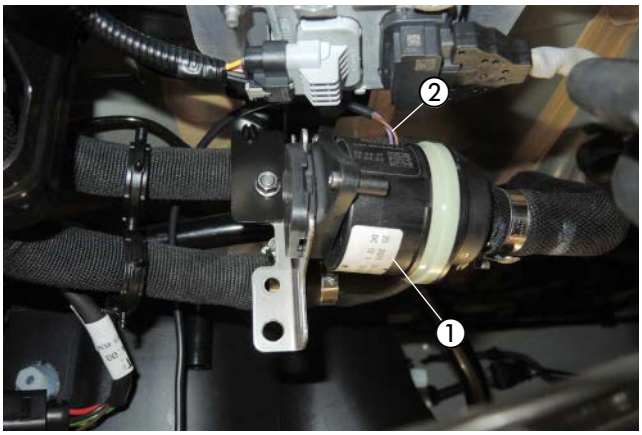
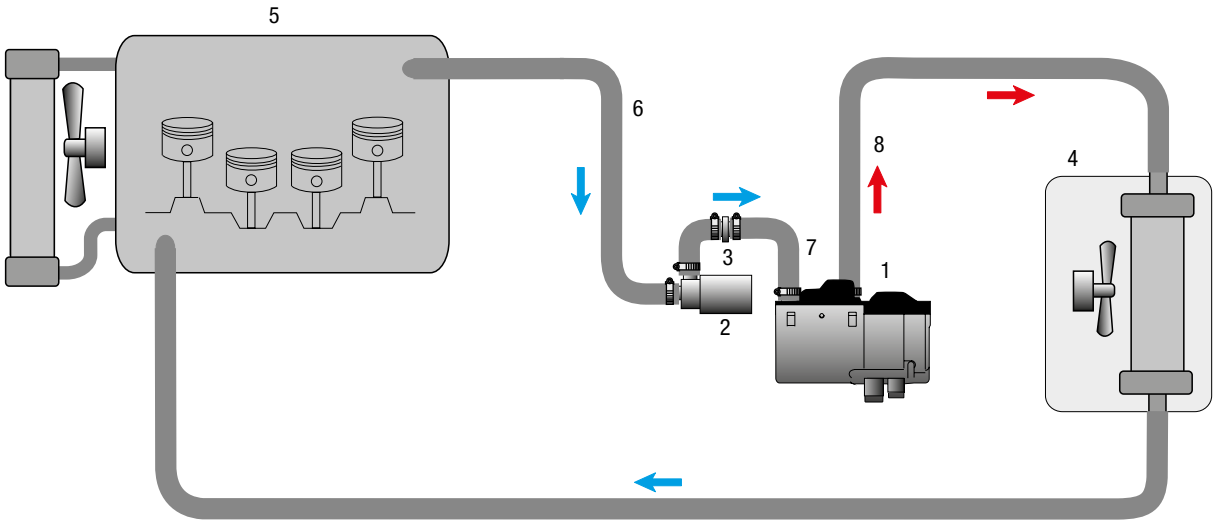


Fig. 43
① Water pump
② Connect water pump cable loom

⚠ 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.
The minimum spacing between cable ties should not exceed 25 cm.



1 - Heizgerät
2 - Wasserpumpe
3 - Verbindungsrohr, Ø 20 mm
4 - Fahrzeugwärmetauscher
5 - Motor
6- Wasserschlauch Wasservorlaufschlauch - Wasserpumpe
7- Wasserschlauch Wasserpumpe - Heizgerät
8- Wasserschlauch Heizgerät - Wärmetauscher
- Schlauchschelle, Ø 20 - 32 mm

Fig. 44

3 INSTALLATION

POWER SUPPLY
(see Figs. 45 and 46)

Lay the 4 mm² rt positive cable up to the battery and fasten to the positive terminal with the A6 cable lug.



Fig. 45
① Connect positive cable 4 mm² rt

Lay the 2.5 mm² br earth cable to the battery and fasten to the negative terminal with the A6 cable lug.

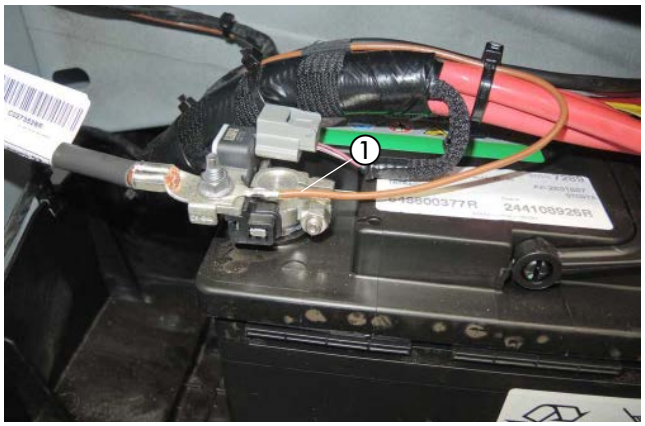


Fig. 46
① Connect 2.5 mm² br earth cable

4 FOLLOWING INSTALLATION

ADHERE THE “REFUEL” LABEL
(see Fig. 47)

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



Fig. 47
① Adhere the “refuelling” sticker

ATTACH DUPLICATE NAMEPLATE
(see Fig. 48)

Affix the duplicate nameplate to the B pillar on the driver's side as shown in the figure.

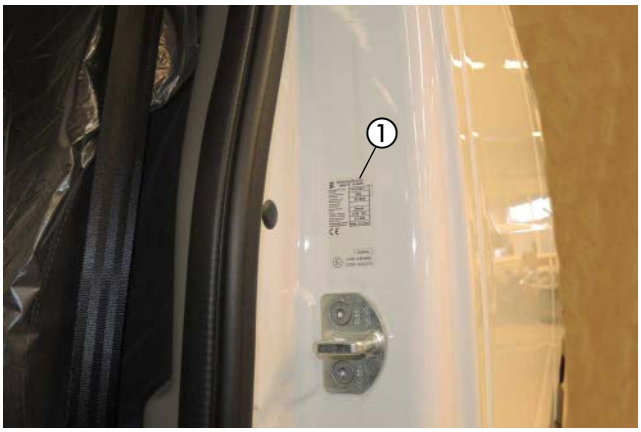


Fig. 48
① Fit duplicate “nameplate”

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).
- 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.

4 FOLLOWING INSTALLATION

REPROGRAM CONTROL UNIT

BITTE BEACHTEN!

EASYSTART TIMER / REMOTE+ – AUFRÜSTUNG ZUHEIZER

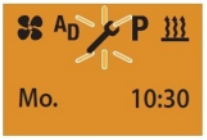
Für die Aufrüstung des Zuheizers ist es notwendig, am Bedienelement den Modus S1+ zu aktivieren.

Führen Sie dazu bitte folgende Schritte durch.

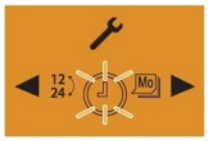
WERKSTATTMENÜ AUFRUFEN

Display EIN, die Startanzeige wird angezeigt.

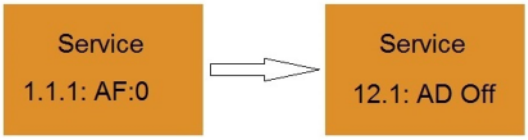
In der Menüleiste mit der Taste ◄ oder ► das Symbol 🔧 auswählen.



Menüpunkt EINSTELLUNGEN mit der Taste ▭ bestätigen.

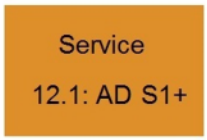


Taste ▭ LONGPRESS länger 5 Sek, das Werkstattmenü wird angezeigt.



Mit der Taste ► die Funktion 12.1: AD Off auswählen und mit der Taste ▭ bestätigen so das Off blinkt

Mit der Taste ◄ oder ► S1+ auswählen.



Auswahl mit der Taste ▭ bestätigen.

Werkstattmenü mit der Taste ▭ verlassen.

Zur Aktivierung der Funktionen muss ein Reset (Ziehen der Sicherung 5A) vorgenommen werden.

After reprogramming, the switch-on signal for the heater is transmitted via the yellow cable.

Menüpunkt	Service-Funktion	Bemerkungen
12.1:	Zusatzgerät AD einstellen, On oder Off	Default: Off Auswahlmöglichkeiten: 1. Über JE-Diagnose → Anzeige Flammen- und Lüftensymbol (wenn vom Heizgerät unterstützt) im AD Menü. 2. Über Einschaltsignal S+2 (deaktiviert 1.2.2:, 1.3.2:, 1.4.2:, 9:) → S+2 (Anzeige nur Flammensymbol und AD-Menü Heizen sichtbar). 3. Über Einschaltsignal erstes Heizgerät S+1 (deaktiviert 1:) → S+1 (Anzeige nur Menü Heizen). Zur Aktivierung der Funktion muss ein Reset durchgeführt werden (Sicherung ziehen).

⚠ CAUTION!

Diagnosis of the heater is possible with an Opel diagnostic unit.

STARTING UP THE HEATER

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

5 PARTS OVERVIEW



Fig. 49

LEAFLET FOR THE CUSTOMER

BEFORE SWITCHING ON
IN VEHICLES WITH OR WITHOUT MANUAL AIR-CON
(see Fig. 1)

- Before switching on or pre-programming the heating mode with the ignition switched on, set the vehicle's temperature controller ① to “Hot” (maximum setting).
- Set the controller for the air flow ② to maximum air flow for the windscreen.
- The fan speed does not need to be pre-selected.



Fig. 1
① Temperature controller
② Controller for the air flow

BEFORE SWITCHING ON
IN VEHICLES WITH AUTOMATIC AIR-CON
(see Fig. 2)

- Before switching on or pre-programming the heating mode with the ignition switched on, set the button ① for the vehicle temperature control to “27” (maximum setting).
- Set the button for the air flow ② to maximum air flow for the windscreen.
- The fan speed does not need to be pre-selected.



Fig. 2
① Button for the temperature control
② Button for the air system

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