



Installation Documentation

Cold start for Thermo Top Evo water heater

Renault Talisman / Espace

Left-hand drive vehicle

Manufacturer	Model	Туре	Model year	EG-BE-No. / ABE
Renault	Talisman	RFD	from 2016	e11* 2007/46* 2969*
Renault	Espace	RFC	from 2016	e2* 2007/46* 0470*

Motorisation	Fuel	Emission standard		[kW]	Displace- ment [cm³]	Engine code
1.8P	Petrol	Euro 6d Temp	7-speed DKG	165	1798	M5P

Total installation time	Note
1.5 hours	Applies only to the retroffing of a cold start system in vehicles with an already retrofitted parking heater

Contents

1	LIST OT appreviations	3
2	Installation notes	4
2.1	Information on Validity	4
2.2	Components used	4
2.3	Validity Notes	4
2.4	Information on total installation time	4
3	About this document	5
3.1	Purpose of the document	5
3.2	Warranty and liability	5
3.3	Safety	5
3.4	Using this document	6
4	Technical Information	7
5	Installation overviews	8
6	Electrical system	9
6.1	Electrical system preparation, all vehicles	9
6.2	System wiring diagram, Renault Talisman	11
6.3	System wiring diagram, Renault Espace	12
6.4	Legend to wiring diagram	13
6.5	Connection in passenger compartment, all vehicles	14
6.6	Connection in passenger compartment, Renault Talisman	16
6.7	Connection in passenger compartment, Renault Espace	16
6.8	Routing in engine compartment, all vehicles	18
6.9	Connection to engine control unit, all vehicles	18
7	Final work	21

1 List of abbreviations

CLR Cold start module

DKG Dual clutch transmission

Fig. Figure

RTD Temperature sensor

2 Installation notes

2.1 Information on Validity

This installation documentation applies to vehicles listed on page 1, assuming technical modifications to the vehicle do not affect installation, any liability claims excluded.



Vehicle and engine types, equipment variants and other specifications not listed in this installation documentation have not been tested. The installation is not permitted.

2.2 Components used

Designation	Order number
Additional cold start kit for Renault Talisman / Espace 1.8 petrol	1327240A
Cold start installation documentation for Renault Talisman / Espace 1.8 petrol	1327262A

2.3 Validity Notes

This installation documentation applies only in combination with:

Designation	Order number
Installation kit for Renault Espace 2016 petrol	1325450_
Installation documentation for Renault Espace 2016 petrol	1325451_

or

Designation	Order number
Installation kit for Renault Talisman 2016 petrol and diesel	1325067_
Installation documentation for Renault Talisman 2016 petrol and diesel	1325068_

2.4 Information on total installation time

The total installation time includes the time needed for mounting and demounting the vehicle-specific components, the cold start-specific installation times and all other times required for the subsequent installation of the cold start kit with a parking heater that has already been retrofit.

The total installation time may vary for vehicle equipment other than provided.

3 About this document

3.1 Purpose of the document

This installation documentation is part of the product and contains all the information required to ensure professional vehicle specific installation of the:

Cold start kit

3.2 Warranty and liability

Webasto shall assume no liability for defects, damage and injuries resulting from a failure to observe the installation, repair and operating instructions of the information contained in them.

This liability exclusion particularly applies to improper installations and repairs by untrained persons or in the case of a failure to use genuine spare parts.

The liability due to culpable disregard to life, limb or health and due to damage or injuries caused by a wilful or reckless breach of duty remain unaffected, as does the obligatory product liability.

Installation should be carried out according to the general, standard rules of technology. Unless specified otherwise, fasten hoses, lines and wiring harnesses to original vehicle lines and wiring harnesses using cable ties. Insulate loose wire ends and tie back. Connectors on electronic components must audibly snap into place during assembly.

Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K).

Observe the instructions and guidelines of the respective vehicle manufacturer for demounting and mounting vehicle specific components.

The initial start-up is to be executed with the Webasto Thermo Test Diagnosis

When installing a programmable control module (e.g. a PWM Gateway), the corresponding settings must be checked or adjusted.

3.2.1 Statutory regulations governing installation

The Thermo Top Evo heater has been type-tested and approved in accordance with ECE-R 10 (EMC) and ECE-R 122 (heater). The regulations of these guidelines are binding in the scope of the Directive 70/156/EEC and/or 2007/46/EC (for new vehicle models from 29/04/2009) and should also be observed in countries in which there are no special regulations.

The heater is licensed in accordance with paragraph 19, section 3, No. 2b of the StVZO (German Road Traffic Licensing Authority).

3.3 Safety

Qualifications of installation personnel

The installation personnel must have the following qualifications:

- Successful completion of Webasto training
- Corresponding qualification for working on technical systems

Regulations and legal requirements

The regulations from the heater's general installation and operating instructions must be observed.

3.3.1 Safety information on installation

Danger posed by live parts

- ▶ Prior to installation, disconnect the vehicle from the voltage supply.
- ▶ Make sure the electrical system is earthed correctly.
- ► Always comply with legal requirements.
- ► Observe data on type label.

Danger of fire and leaking toxic gases due to improper installation

- ▶ Vehicle parts in the vicinity of the heater must be protected against excessive heating by the following measures:
 - ⇒ Maintain minimum safety distances.
 - ⇒ Ensure adequate ventilation.
 - ⇒ Use fire-resistant materials or heat shields.

Danger due to sharp edges

- Lacerations
- Short circuit due to electrical wire damage
- Fit protectors on sharp edges.

3.4 Using this document

Before installing and operating the heater, read this installation documentation, the installation instructions of the heater, the operating instructions and supplementary sheets provided.

3.4.1 Explanatory Notes on the Document

There is an identification mark near the respective work step to allow you to quickly allocate the other applicable documents to the Webasto components to be installed:

'	
Generally valid Webasto documentation	
Vehicle-specific installation documentation	K
Vehicle-specific installation documentation of the cold start kit	M
Webasto Comfort A/C control	H
Webasto Standard A/C control	G
Tank extracting device (e.g. FuelFix)	F
Exhaust end fastener (EFIX)	E
Combustion air intake silencer	
Spacer bracket (ASH)	S

i

Type and source of the risk

Consequences: Failure to follow the instructions can lead to material damage

Actions to protect yourself against risks.



Reference to the vehicle manufacturer's specific documents



Note on a special technical feature

3.4.3 Work step identification marks

The ongoing work step is indicated on the outside top corner of the page:

Mechanical system	Electrical sys- tem	High-voltage	Coolant
**	-		
Combustion air	Fuel	Exhaust	Software
III (₩	

3.4.2 Use of symbols



DANGER

Type and source of the risk

Consequences: Failure to follow the instructions can result in death

Actions to protect yourself against risks.



WARNING

Type and source of the risk

Consequences: Failure to follow the instructions can lead to serious or even fatal injuries

Actions to protect yourself against risks.



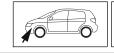
CAUTION

Type and source of the risk

Consequences: Failure to follow the instructions can lead to minor injuries

Actions to protect yourself against risks.

3.4.4 Orientation aid







The arrow indicates the position on the vehicle and the viewing angle

3.4.5 Use of highlighting

Highlight	Explanation	
>	Necessary action	
\Rightarrow	Result of an action	
1/12/a1	Position numbers for the image descriptions	
1 / 12 / A	Position numbers for the image descriptions	
	for electrical wires and coolant hose sec-	
	tions	

4 Technical Information

Dimension specifications

- All dimensions specified in mm
- Perforated brackets and mounting angles are shown to scale
- Observe data regarding scale on the templates

Tightening torque specifications

 Tighten all screw connections in accordance with manufacturer's instructions or in accordance with state-of-theart-technology

Necessary special tools

- Automatic wire stripper 0.2 6 mm²
- Crimping pliers for cable lugs 0.5 10 mm²
- Crimping pliers for male connector 0.14 6 mm²
- Crimping pliers for connector 0.25 6 mm²
- Torque wrench for 2.0 10 Nm
- Deep-hole marker

5 Installation overviews

Installation overview for Renault Talisman

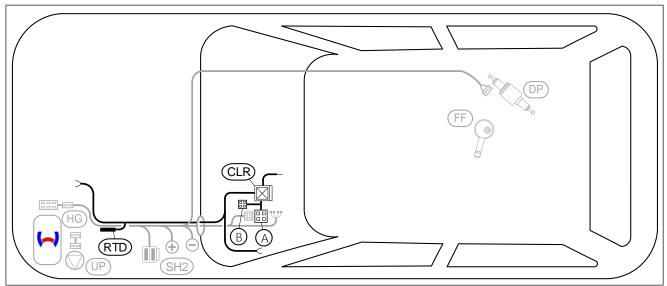


Fig. 1

Installation overview for Renault Espace

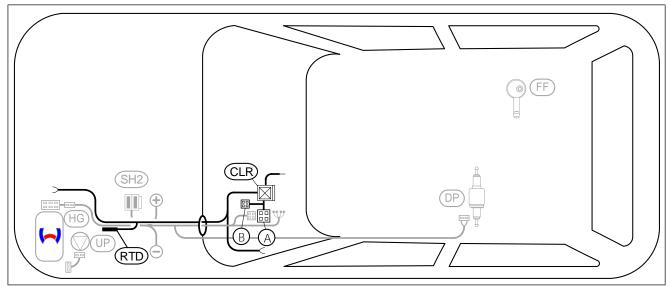


Fig. 2

Legend to installation overview

Abbreviation	Component
CLR	CLR module
RTD	Temperature sensor
A/B	Adapter connector

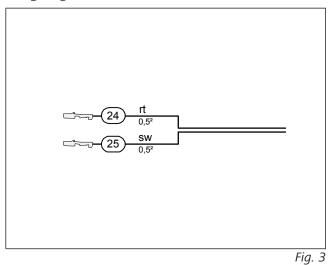


9

6 Electrical system

6.1 Electrical system preparation, all vehicles

Assigning wires



- **24** Red (rt) wire of cold start wiring harness
- **25** Black (sw) wire of cold start wiring harness



Preparing CLR module



Produce all following electrical connections as shown in the system wiring diagram.

- ▶ Detach black (sw) wire from terminal A and insulate.
- ► Connect red (rt) wire **24** and black (sw) wire **25**.

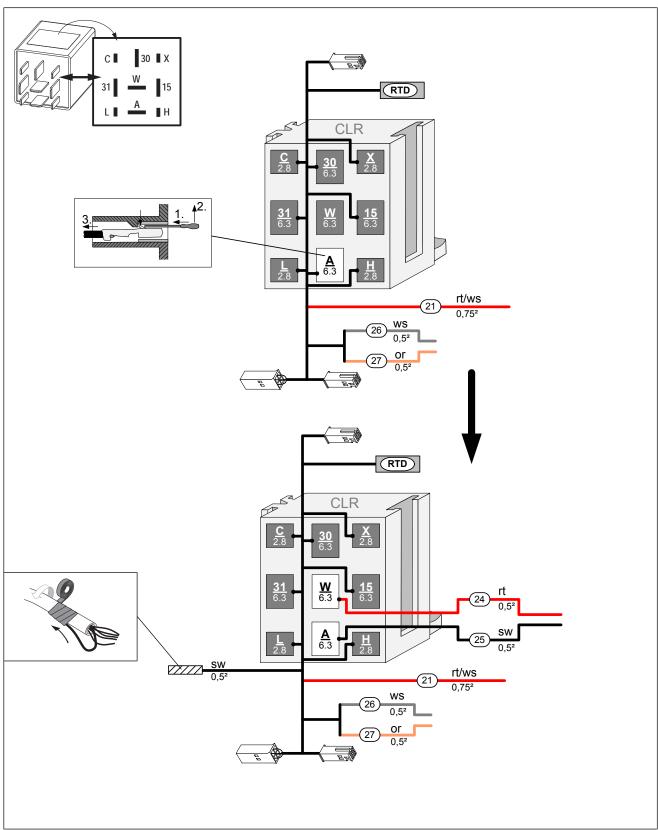


Fig. 4



6.2 System wiring diagram, Renault Talisman

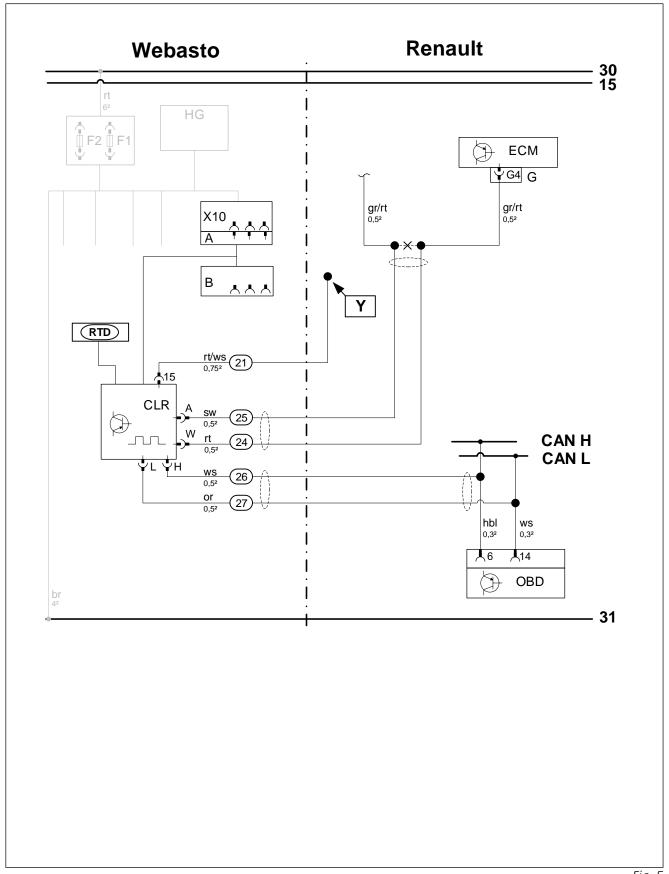
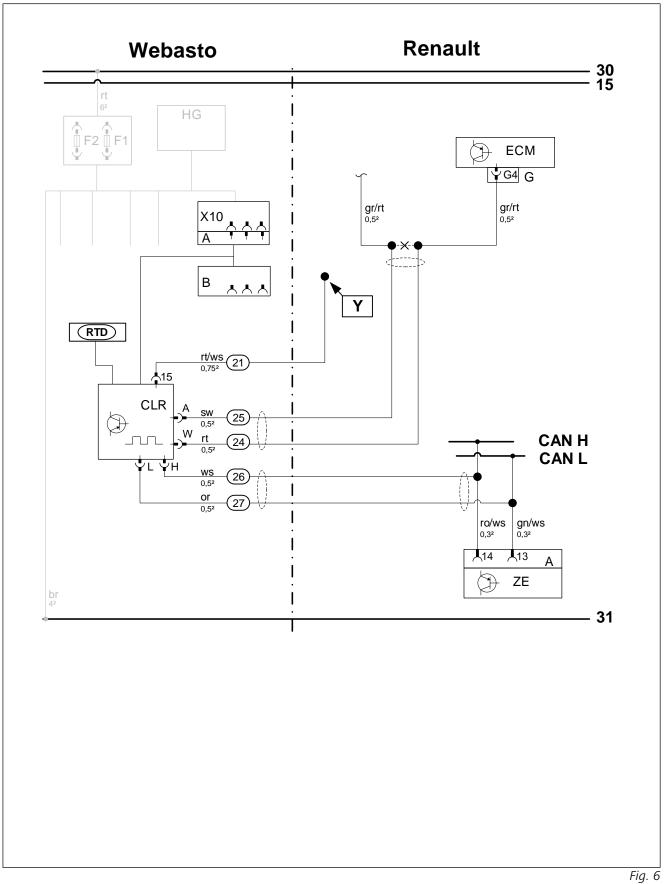


Fig. 5



6.3 System wiring diagram, Renault Espace



11/09/2019 Renault Talisman / Espace 12 1327262A_EN



6.4 Legend to wiring diagram



The vehicle connector and component designations are freely chosen by Webasto. Cable colours may vary.

Vehicle components		Symbols	
Abbreviation	Component	Abbreviation	Designation
ECM	Engine control unit	×	Cutting point
G	70-pin connector FC 01/ECM	Y	The connection takes place to-
ZE	Passenger compartment central electrical box		gether with the connection of the
А	40-pin connector F004/ZE		fan controller as described in the A/C control installation document-
OBD	ON-Board Diagnosis		ation

Webasto components		Cable colours	
Abbreviation	Component	Abbreviation	Colour
A	Male plug for CLR module wiring harness	bg	beige
В	Female plug for CLR module wiring harness	bl	blue
С	Male plug for adapter wiring harness	br	brown
D	Female plug for adapter wiring harness	dbl	dark blue
Е	Male plug for Plug&Play wiring harness	dgn	dark green
F	Female plug for Plug&Play wiring harness	ge	yellow
CCL GW	CAN CAN LIN Gateway	gn	green
CL GW	CAN LIN Gateway	gr	grey
CLR	Cold start module	hbl	light blue
D1	Diode	hgn	light green
D2	Diode group	la	salmon
F0	Additional fuse for power supply	or	orange
F1	Heater main fuse	pk	pink
F2	Passenger compartment fan controller main fuse	rt	red
F3	Control element fuse	sw	black
F4	Fan controller fuse	vi	violet
F5	Additional fuse	ws	white
HG	Heater TT-Evo		
K1	Relay K1		
K2	Relay K2		
К3	Relay K3		
LIN GW	LIN Gateway		
PWM GW	Pulse width modulator gateway		
RSH	Relay and fuse holder of passenger compartment		
RTD	Temperature sensor		
X10	Female plug for control element		
Υ	Power adapter		



6.5 Connection in passenger compartment, all vehicles

Mounting CLR module socket

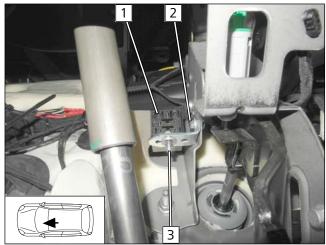


Fig. 7

- ▶ Route wires ②④ and ②⑤ as well as temperature sensor RTD to the cable grommet in the engine compartment.
 - 1 CLR module socket
 - 2 M6x20 bolt, large diameter washer, angle bracket, original vehicle hole, flanged nut
 - 3 M5x16 bolt, large diameter washer, CLR module socket, angle bracket, large diameter washer, nut

Installing CLR module

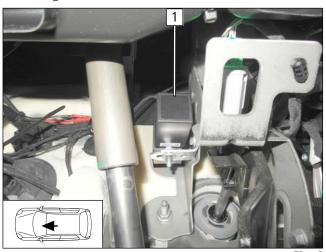


Fig. 8

1 CLR module



Connecting connectors and sockets

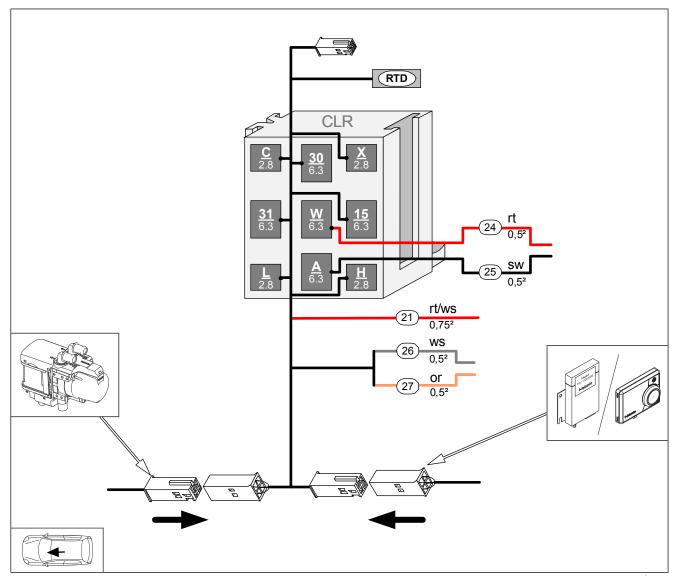


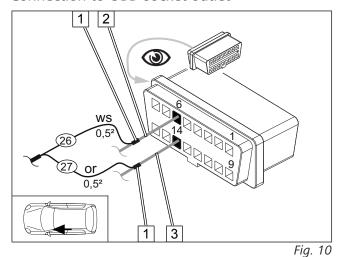
Fig. 9

15



6.6 Connection in passenger compartment, Renault Talisman

Connection to OBD socket outlet





Further information can be found in the vehicle manufacturer's technical documentation.

▶ Remove OBD socket outlet from bracket.

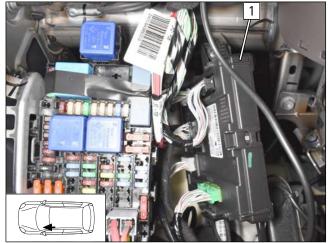
► Crimp and shrink butt connector 1



- **3** White (ws) wire of OBD socket outlet/ pin 14
- **26** White (ws) wire of CLR module/ H cold start wiring harness
- **27** Orange (or) wire of CLR module/ L cold start wiring harness

6.7 Connection in passenger compartment, Renault Espace

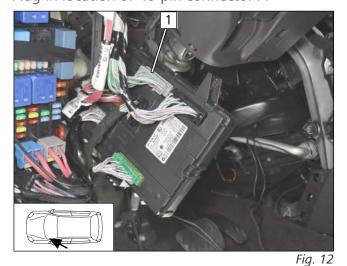
View of ZE



▶ Detach ZE 1.

Fig. 11

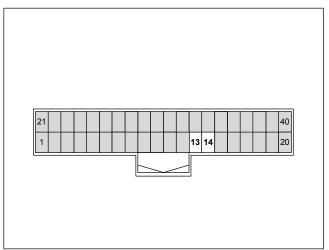
Plug-in location of 40-pin connector A



1 40-pin connector A



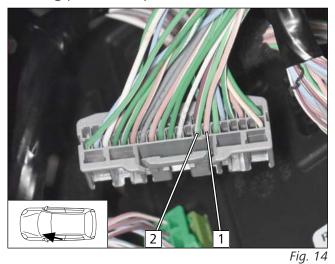
View of connector A



► ZE connector A on wire side

Fig. 13

Locating pin 13 and pin 14



- 1 Pink/white (ro/ws) wire of pin 14
- 2 Green/white (gn/ws) wire of pin 13



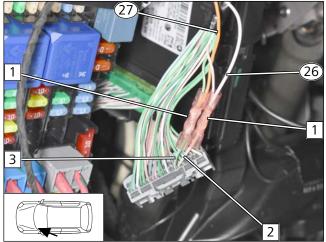


Fig. 15

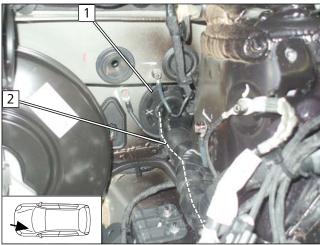


- 2 Pink/white (ro/ws) wire connector A/pin 14
- **3** Green/white (gn/ws) wire of connector A/pin 13
- **26** White (ws) wire of CLR module/ H cold start wiring harness
- 27 Orange (or) wire of CLR module/ L cold start wiring harness



6.8 Routing in engine compartment, all vehicles

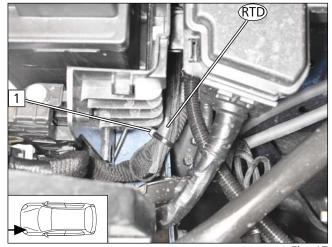
Installing lines



- ▶ Route wires ②④ and ②⑤ as well as temperature sensor RTD ② in the engine compartment to the engine control unit and fasten with cable ties.
 - 1 Protective rubber plug

Fig. 16

Fasten temperature sensor (RTD) in engine compartment



► Fasten **RTD** with cable tie **1** as shown in Fig.

Fig. 17

6.9 Connection to engine control unit, all vehicles

Detaching engine control unit

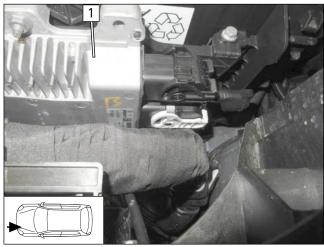


Fig. 18

1 Engine control unit



Locating connector G socket

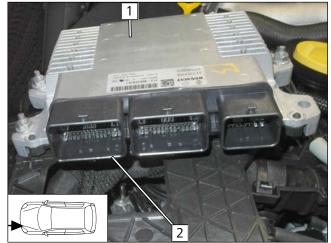
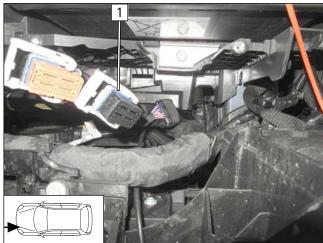


Fig. 19

FIG

View of engine control unit connector G



Fia 20

View of engine control unit connector G, pin G4

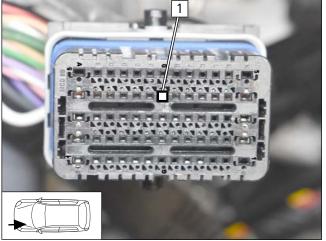


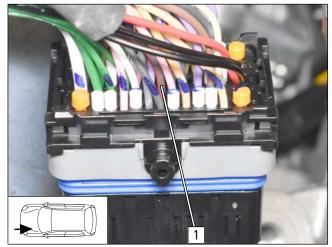
Fig. 21

- 1 Engine control unit
- 2 Slot for connector G

1 Engine control unit connector G

1 Engine control unit connector G, pin G4, on contact side







- ▶ Remove the upper cover from connector G and detach part of the wiring harness wrapping. Insulate and reinstall after completion.
- 1 Grey/red (gr/rt) wire of engine control unit connector G, Pin G4, on wire side

Fig. 22

Connection to engine control unit

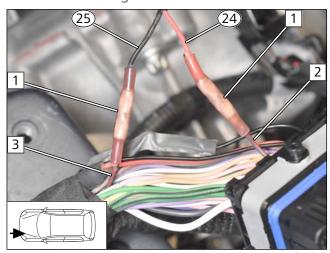


Fig. 23



- ► Crimp and shrink butt connector 1
- **2** Grey/red (gr/rt) wire of engine control unit connector G, pin G4
- **3** Grey/red (gr/rt) wire
- **24** Red (rt) wire of CLR module/W from cold start wiring harness
- **25** Black (sw) wire of CLR module/A from cold start wiring harness



7 Final work



▶ Final work is not carried out until the installation of the heater in the vehicle has been completed

- ▶ Check all electrical connections for firm seating
- ► Insulate and tie back loose lines

These are the original instructions. The German language is binding.

You can request your language if it is missing. The telephone number of each country can be found in the Webasto service centre leaflet or the website of the respective Webasto representative of your country.

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