‘Webasto Comfort’ Air-Conditioning Control

Installation Documentation
Renault Scenic

Validity

Manufacturer	Model	Type	Model year	EG BE No. / ABE
Renault	Scenic	RFA	starting with 2016	e2 * 2007 / 46 * 0574 * ...

Left-hand drive vehicle

Verified equipment variants: Two zone automatic air-conditioning

Not verified: Manual air-conditioning

Renault Scenic

Table of Contents

Necessary Components

- Additional ‘Webasto Comfort’ A/C control kit for Renault Scenic 2016: **1324908A**

Information on Validity

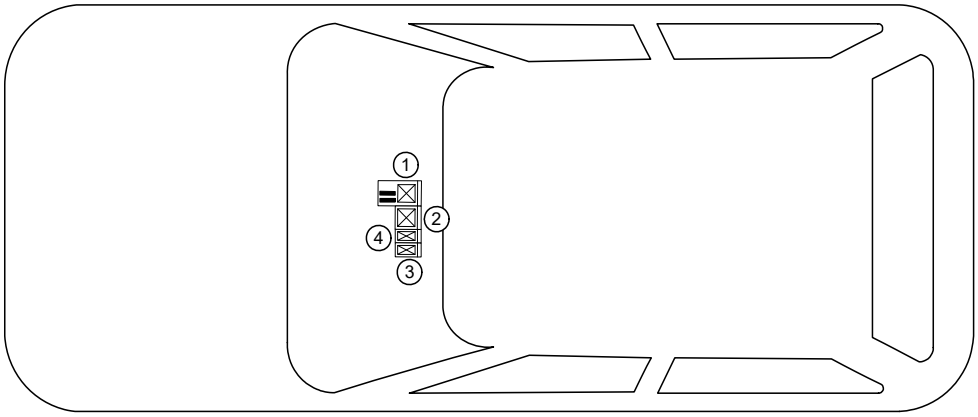
This installation documentation applies only in combination with:

- Installation kit for Renault Scenic 2016 petrol and diesel: **1325453_**
  and Installation documentation for Renault Scenic 2016 petrol and diesel: **1325454_**
  or
  Installation documentation for Renault Scenic 2017 1.5 diesel: **1326262_**

Installation Overview

Legend:

1. Passenger compartment relay and fuse holder
2. CL Gateway
3. Relay K3
4. Relay K2



Information on Operating and Installation Instructions

1 Important information (not complete)

1.1 Installation and repair

The improper installation or repair of Webasto heating and cooling systems can cause fire or the leakage of deadly carbon monoxide, leading to serious injury or death.

To install and repair Webasto heating and cooling systems you need to have completed a special company training course and have the appropriate technical documentation, special tools and special equipment.

Installation and repair may ONLY be carried out by persons trained and certified in a Webasto training course. NEVER try to install or repair Webasto heating or cooling systems if you have not completed a Webasto training course, you do not have the necessary technical skills and you do not have the technical documentation, tools and equipment available to ensure that you can complete the installation and repair work properly.

Only use genuine Webasto parts. See the Webasto air and water heaters accessories catalogue for this purpose.

1.2 Operation

To ensure safe operation, we recommend having the heater checked every two years by an authorised Webasto dealer, especially when used over a long period and/or under extreme environmental conditions.

Do not operate the heater in closed rooms due to the danger of poisoning and suffocation.

Always switch off the heater before refuelling.

The heater may only be used with the prescribed fuel diesel (DIN EN 590) or petrol (DIN EN 228).

The heater may not be cleaned with a high-pressure cleaner.

1.3 Please note

ALWAYS follow all Webasto installation and operating instructions and observe all warnings.

To become familiar with and understand all functions and properties of the heater, the operating instructions must be read carefully and observed at all times.

For proper, safe installation and repair work, the installation instructions with all warnings and safety information must be carefully read and observed at all times. Please always contact a workshop authorised by Webasto for all installation and repair work.

Important

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, 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.

Sharp edges should be fitted with rub protection. 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.

2 Statutory regulations governing installation

Guidelines	Thermo Top Evo
Heating Directive ECE R122	E1 00 0258
EMC Directive ECE R10	E1 04 5627

Note

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.

Important

Failure to follow the installation instructions will result in the invalidation of the type approval for the heater and therefore invalidation of the general **homologation of the vehicle**.

Note

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

2.1 Excerpt from ECE regulation 122 (heating system) paragraph 5 for the installation of the heater

Beginning of excerpt.

ANNEX VII

REQUIREMENTS FOR COMBUSTION HEATERS AND THEIR INSTALLATION

1. GENERAL REQUIREMENTS

1.7.1. A clearly visible tell-tale in the operator's field of view shall inform when the combustion heater is switched on or off.

2. VEHICLE INSTALLATION REQUIREMENTS

2.1. Scope

2.1.1. Subject to paragraph 2.1.2. combustion heaters shall be installed according to the requirements of this Annex.

2.1.2. Vehicles of category O having liquid fuel heaters are deemed to comply with the requirements of this Annex.

2.2. Positioning of heater

2.2.1. Body sections and any other components in the vicinity of the heater must be protected from excessive heat and the possibility of fuel or oil contamination.

2.2.2. The combustion heater shall not constitute a risk of fire, even in the case of overheating. This requirement shall be deemed to be fulfilled if the installation ensures an adequate distance to all parts and suitable ventilation, by the use of fire resistant materials or by the use of heat shields.

2.2.3. In the case of M2 and M3 vehicles, the heater must not be positioned in the passenger compartment. However, an installation in an effectively sealed envelope which also complies with the conditions in paragraph 2.2.2 may be used.

2.2.4. The label referred to in paragraph 1.4 or a duplicate, must be positioned so that it can be easily read when the heater is installed in the vehicle.

2.2.5. Every reasonable precaution should be taken in positioning the heater to minimise the risk of injury and damage to personal property.

2.3. Fuel supply

2.3.1. The fuel filler must not be situated in the passenger compartment and must be provided with an effective cap to prevent fuel spillage.

2.3.2. In the case of liquid fuel heaters, where a supply separate to that of the vehicle is provided, the type of fuel and its filler point must be clearly labelled.

2.3.3. A notice, indicating that the heater must be shut down before refuelling, must be affixed to the fuelling point. In addition a suitable instruction must be included in the manufacturer's operating manual.

2.4. Exhaust system

2.4.1. The exhaust outlet must be located so as to prevent emissions from entering the vehicle through ventilators, heated air inlets or opening windows.

2.5. Combustion air inlet

2.5.1. The air for the combustion chamber of the heater must not be drawn from the passenger compartment of the vehicle.

2.5.2. The air inlet must be so positioned or guarded that blocking by rubbish or luggage is unlikely.

2.6. Heating air inlet

2.6.1. The heating air supply may be fresh or recirculated air and must be drawn from a clean area not likely to be contaminated by exhaust fumes emitted either by the propulsion engine, the combustion heater or any other vehicle source.

2.6.2. The inlet duct must be protected by mesh or other suitable means.

2.7. Heating air outlet

2.7.1. Any ducting used to route the hot air through the vehicle must be so positioned or protected that no injury or damage could be caused if it were to be touched.

2.7.2. The air outlet must be so positioned or guarded that blocking by rubbish or luggage is unlikely.

End of excerpt.

In multilingual versions the German language is binding.

Renault Scenic

Information on Validity

This installation documentation applies to Renault Scenic vehicles - for validity, see page 1 - from model year 2016 and later, assuming technical modifications to the vehicle do not affect installation, any liability claims excluded. Depending on the vehicle version and equipment, modifications may be necessary during installation with respect to this installation documentation.

Vehicle and engine types, equipment variants and other specifications not listed in this installation documentation have not been tested. However, installation according to this installation documentation may be possible.

Technical Information

Special Tools
- Automatic wire stripper, 0.2 - 6mm²
- Crimping pliers for cable lug / tab connector, 0.5 - 6mm²
- Torque wrench for 2.0 - 10 Nm
- Webasto Thermo Test Diagnosis with current software

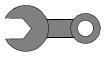
Dimensions
- All dimensions are in mm.

Tightening torque values
Tighten bolt connections in accordance with manufacturer's instructions or in accordance with state-of-the-art-technology.

Explanatory Notes on Document

You will find an identification mark on the outside top right corner of the page in question to provide you with a quick overview of the individual working steps.

Mechanical System



Electrical System

Software

Special features are highlighted using the following symbols:

Specific risk of damage to components.

Specific risk due to electrical voltage.

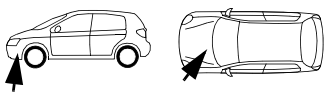
Specific risk of injury or fatal accidents.

Specific risk of fire or explosion.

Reference to the manufacturer's vehicle-specific documents or to the general installation instructions of Webasto components.

Reference to a special technical feature.

The arrow in the vehicle icon indicates the position on the vehicle and the viewing angle.



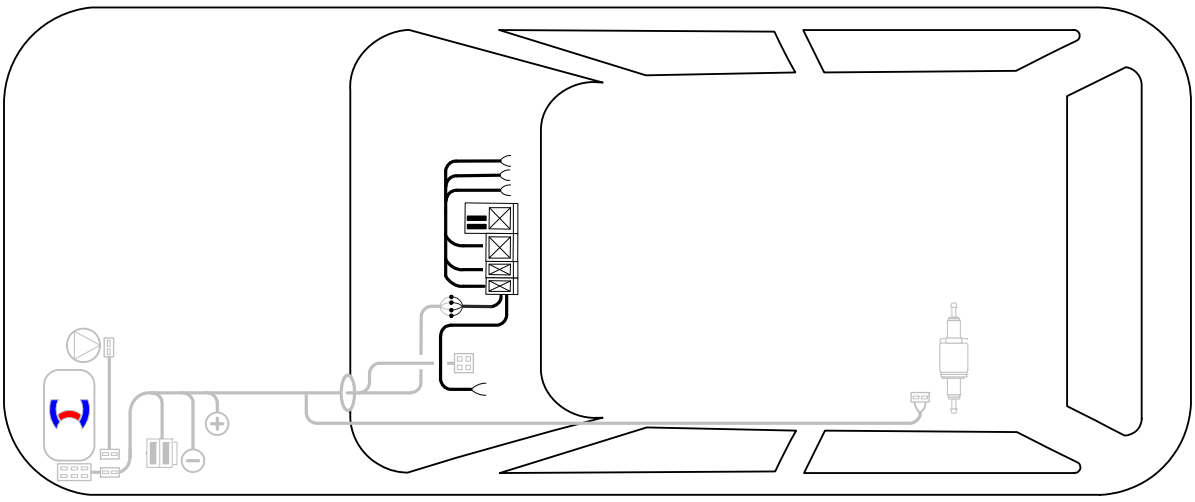
Tightening torque according to the manufacturer's vehicle-specific documents.

Preliminary Work

Vehicle

- Disconnect the battery.
- Remove the lateral instrument panel trim on the left.
- Remove the lower instrument panel trim on the driver's side.
- Remove the centre console trim on the left and the right.
- Fold back the carpet on the driver's side.

Electrical System



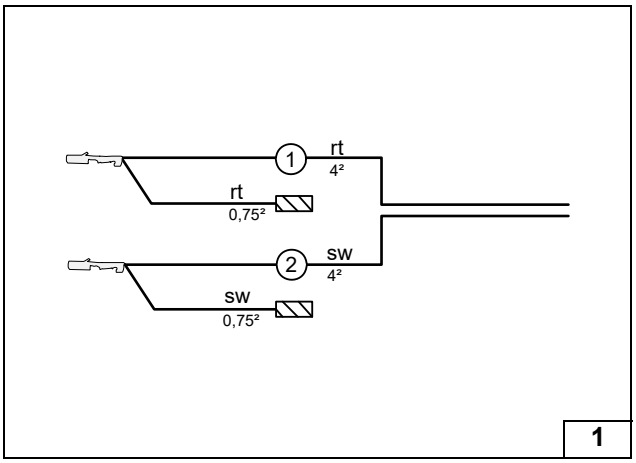
Wiring harness routing diagram for passenger compartment

Preparing Electrical System

Wire sections retain their numbering in the entire document.

① Red (rt) wire of fan wiring harness
② Black (sw) wire of fan wiring harness

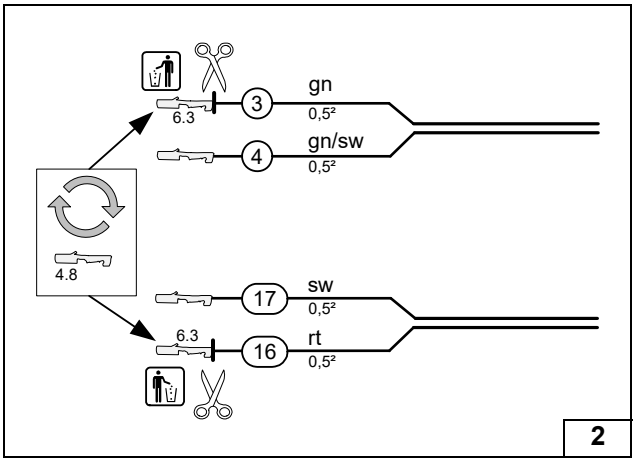
Assigning wiring harness



1

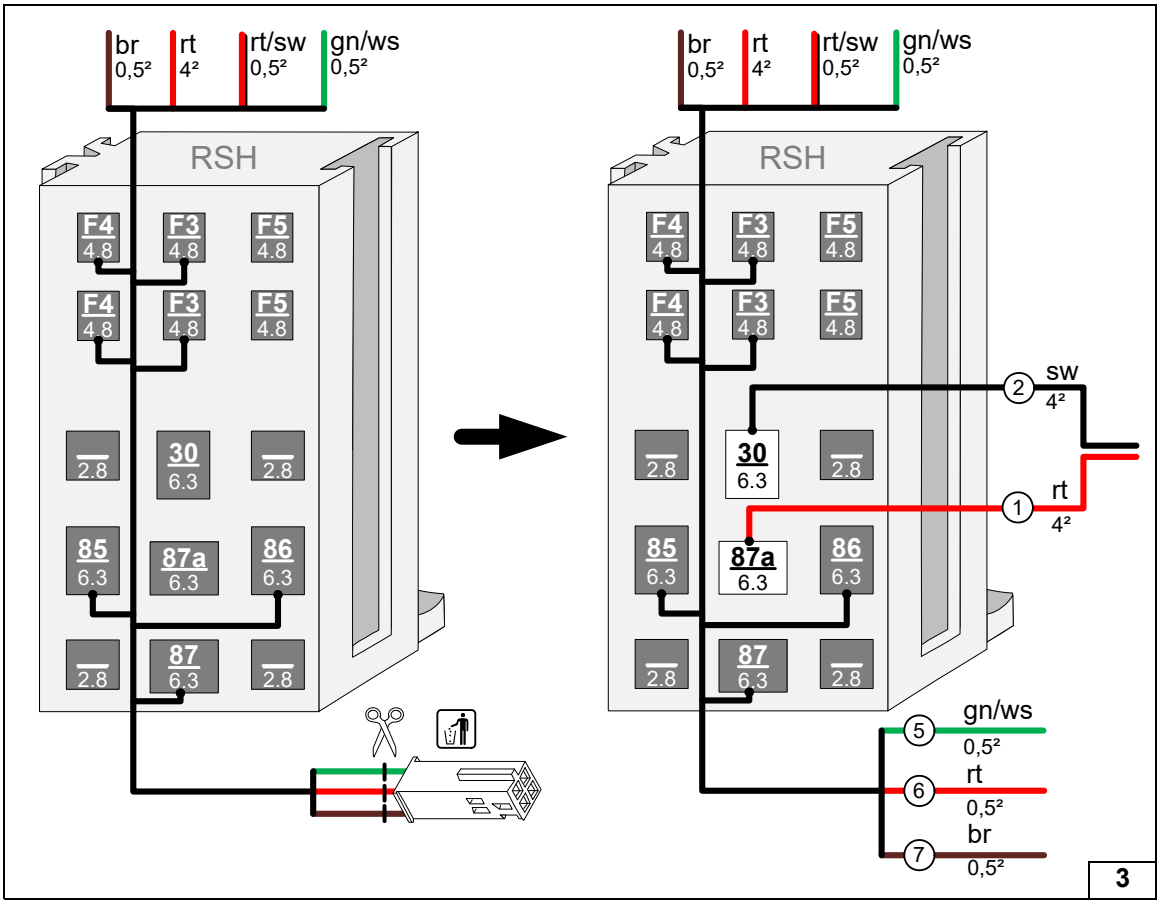
③ Green (gn) wire of A/C control wiring harness
④ Green/black (gn/sw) wire of A/C control wiring harness
⑯ Red (rt) wire of power supply wiring harness
⑰ Black (sw) wire of power supply wiring harness

Preparing / assigning wiring harnesses



2

Preparing passenger compartment relay and fuse holder / connecting wires



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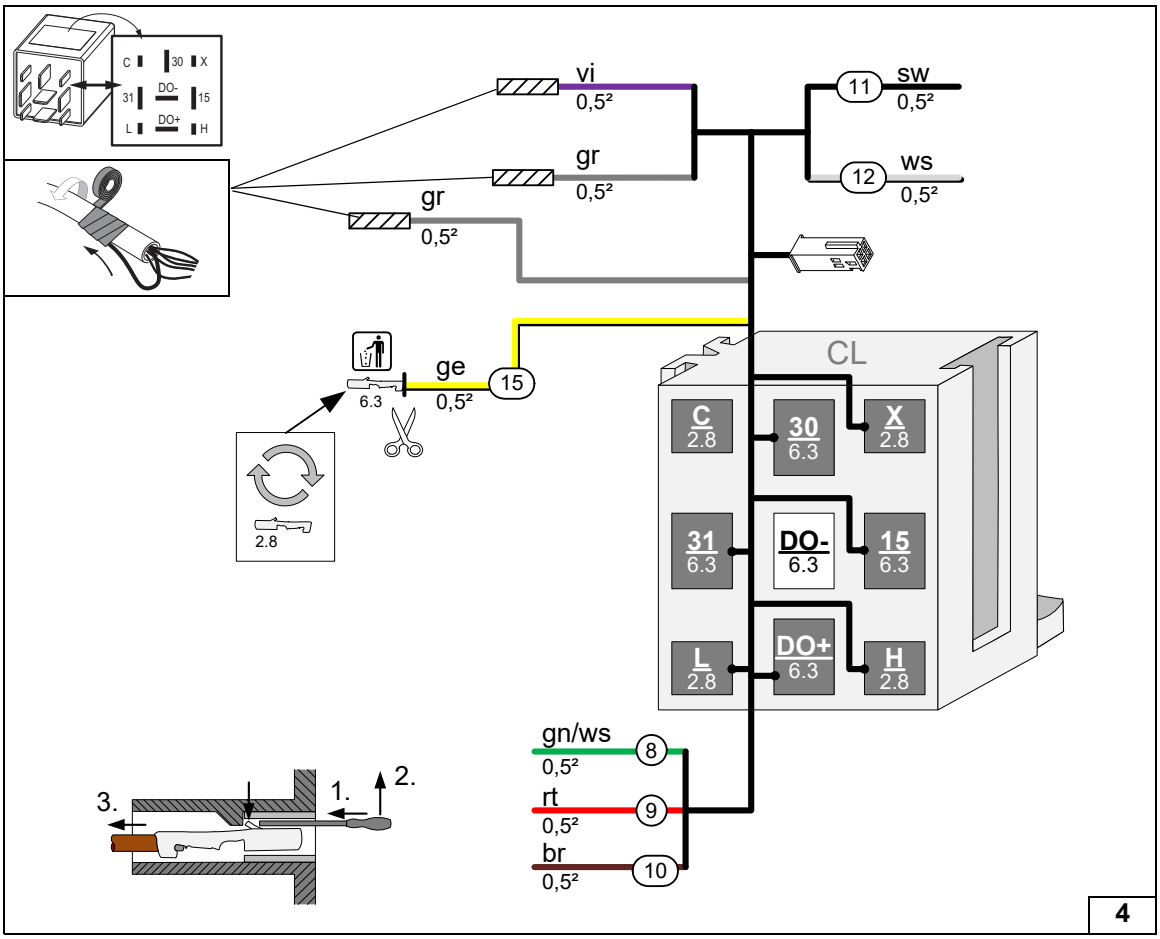
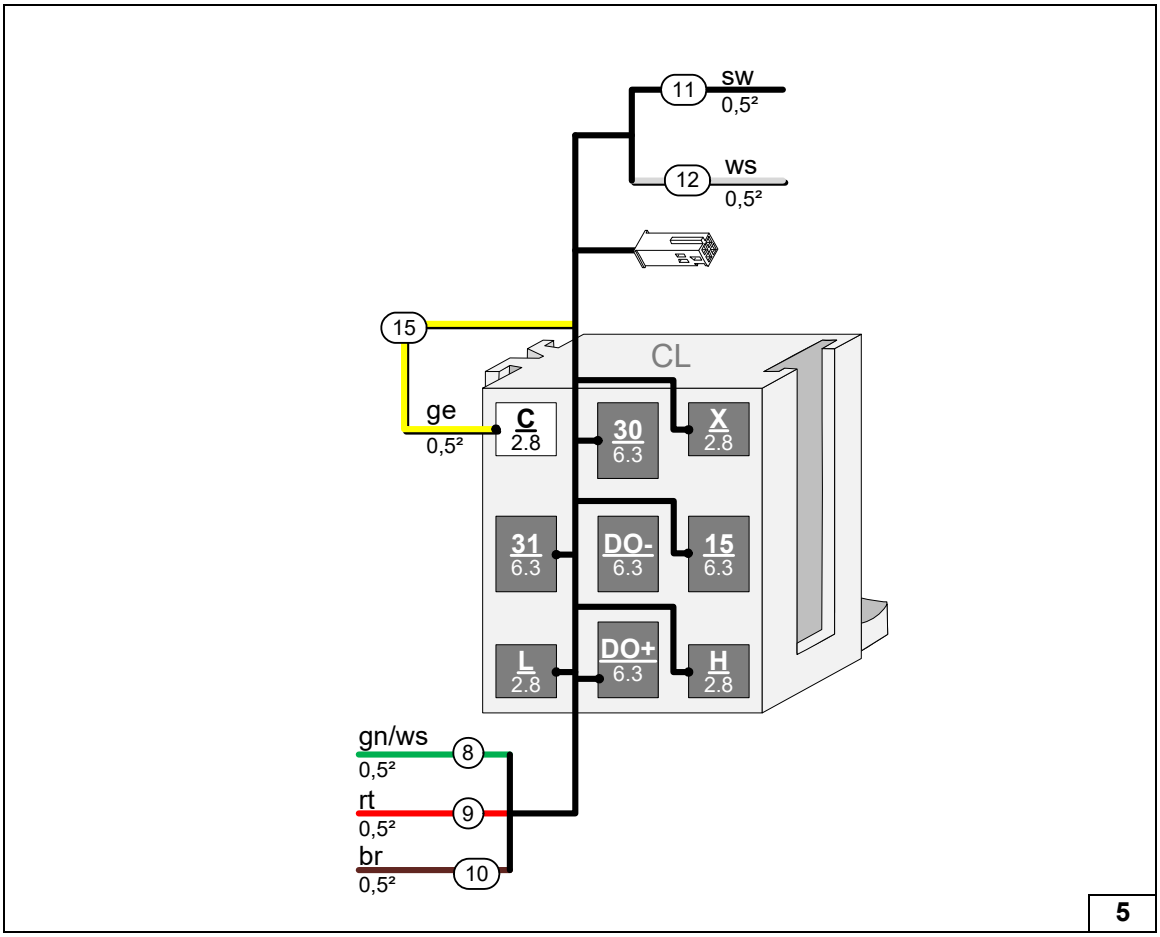


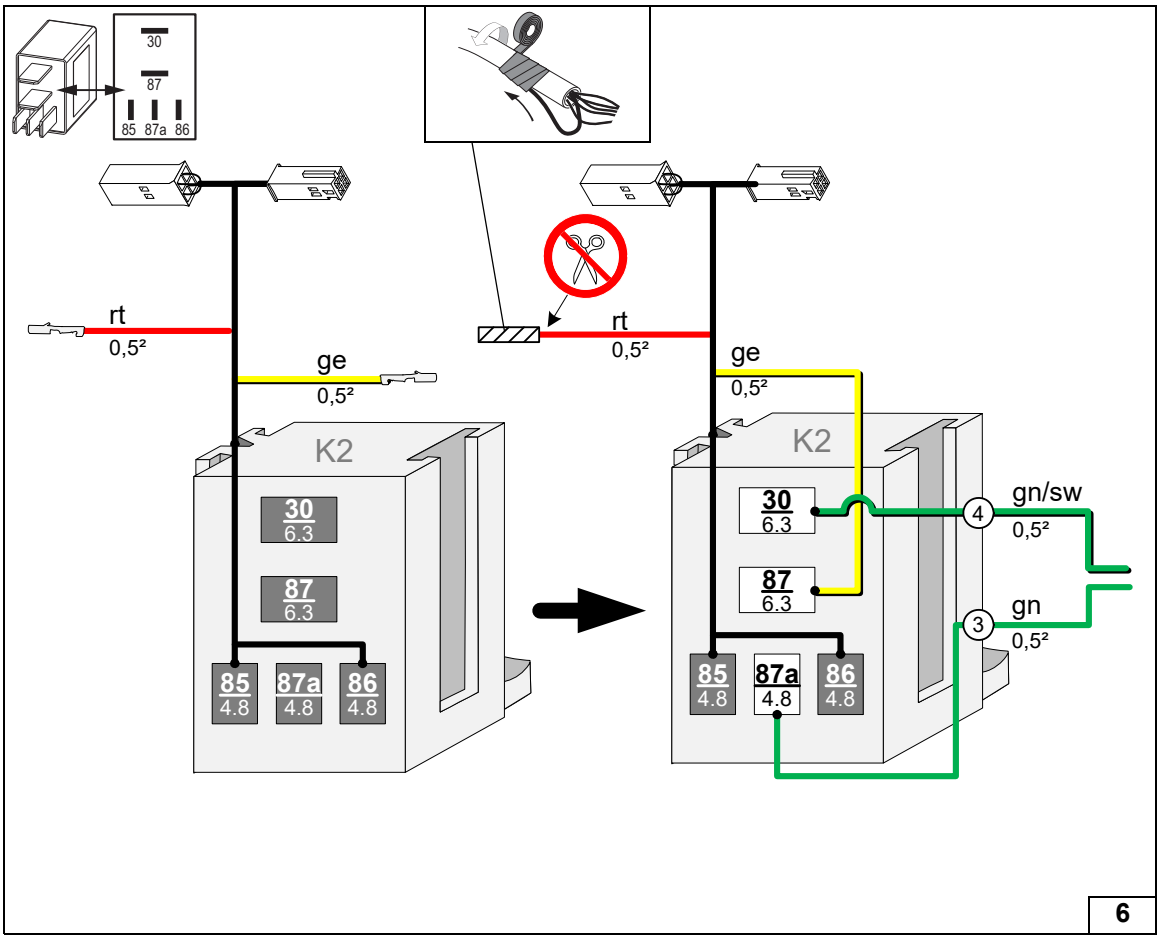
4

Disconnecting wires from CL-Gateway socket/ insulating or reconnecting tab connector/ assigning



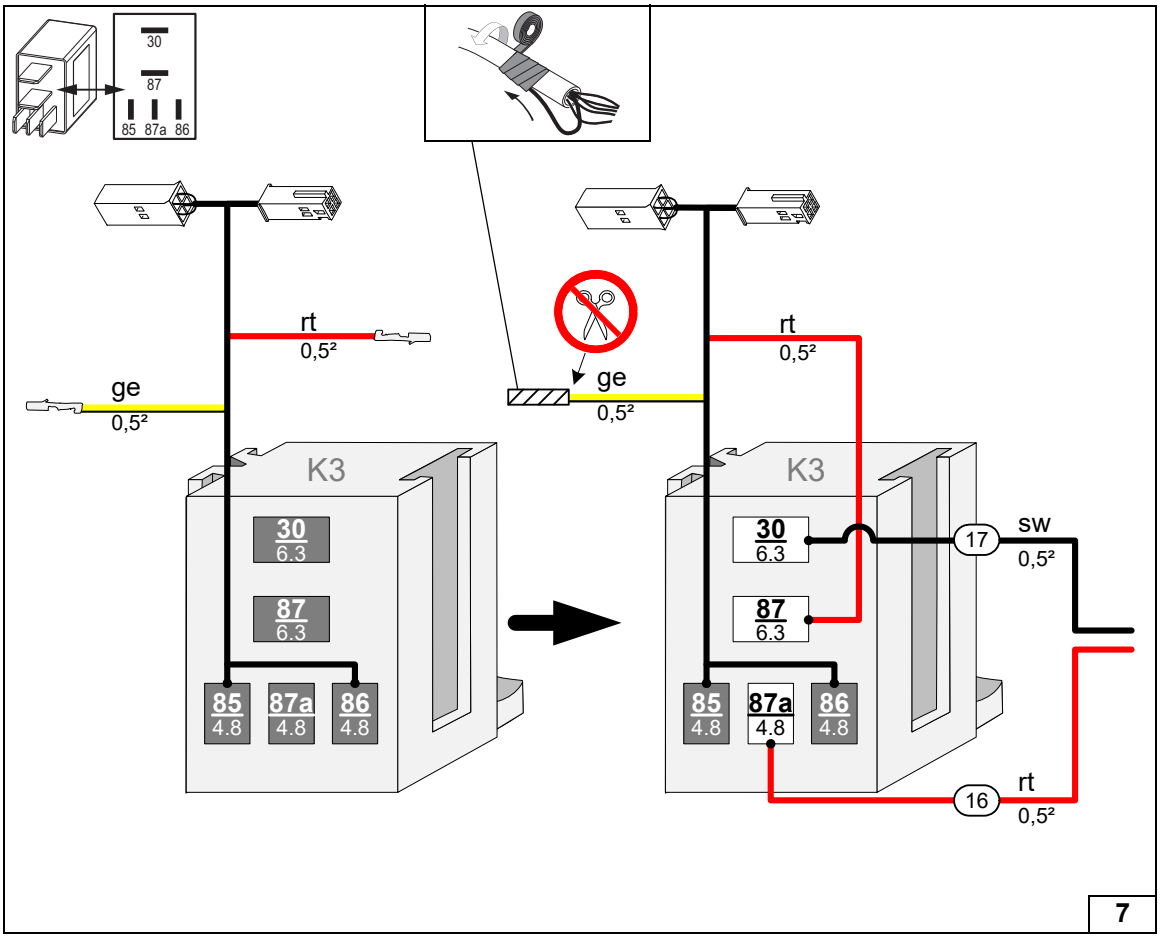
5

Connecting wire to CL-Gateway socket



6

Premounting relay K2 wiring harness / connecting wires



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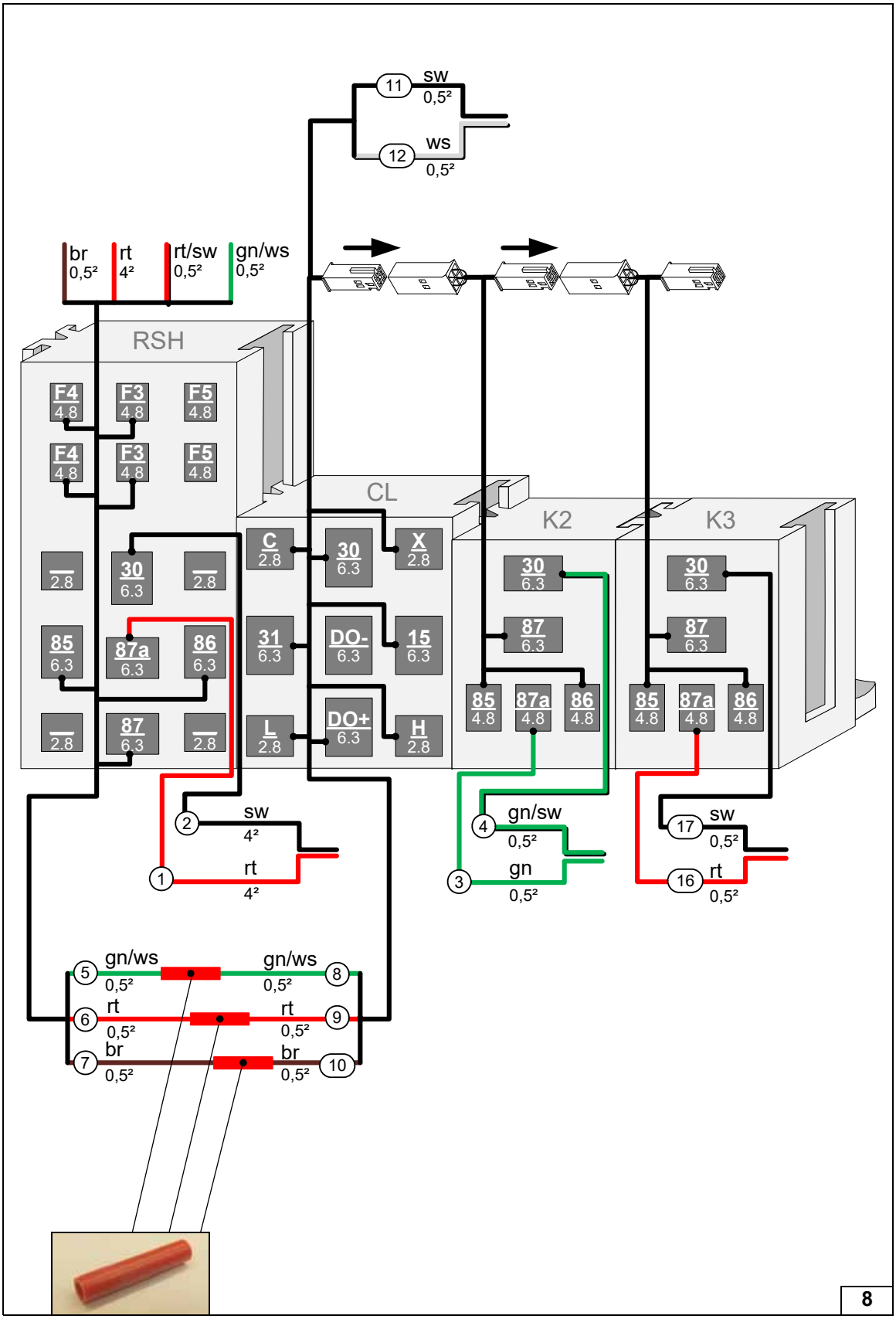
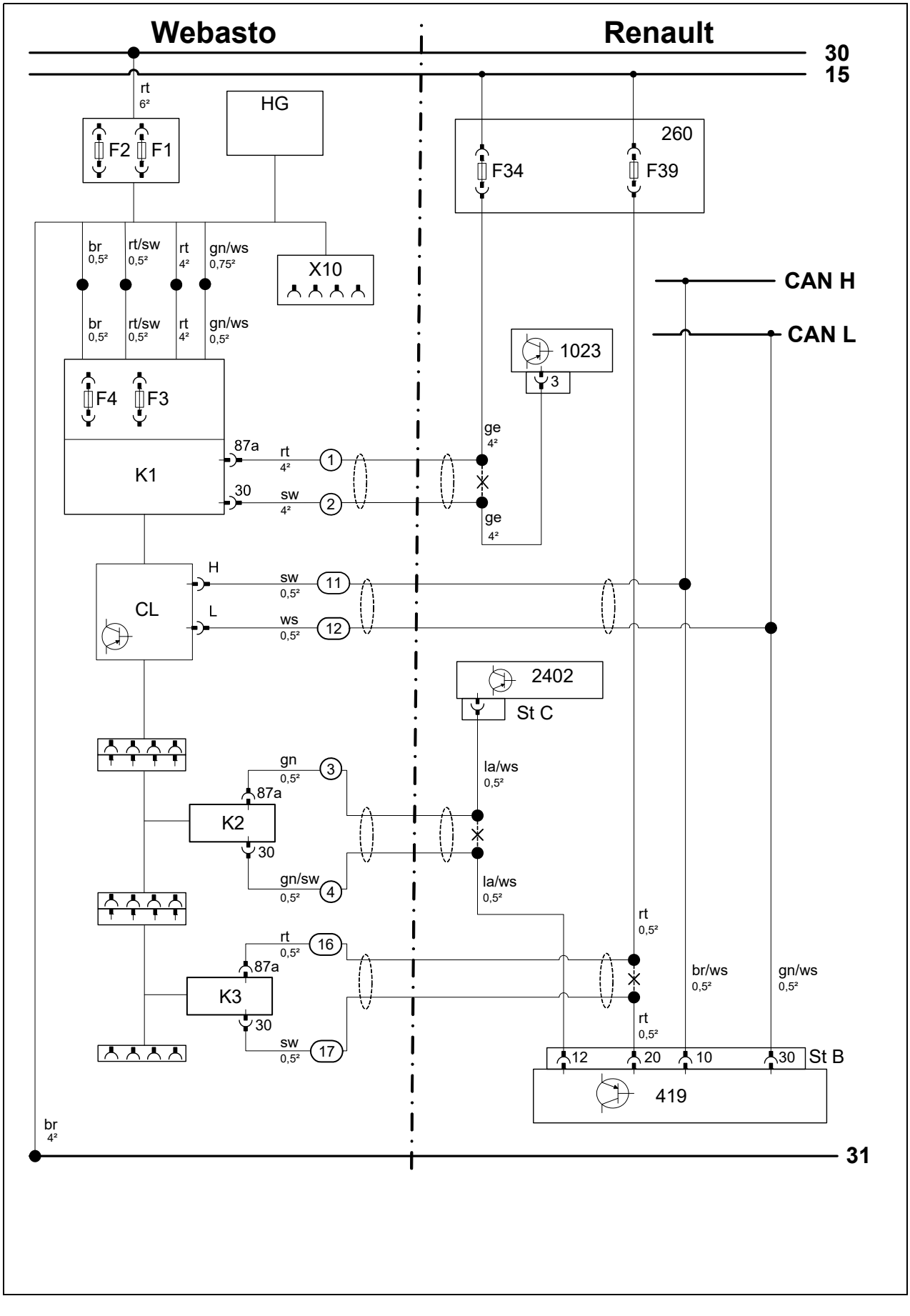
Premounting relay K3 wiring harness / connecting wires



Assembling sockets / inserting connector in socket / connecting wires

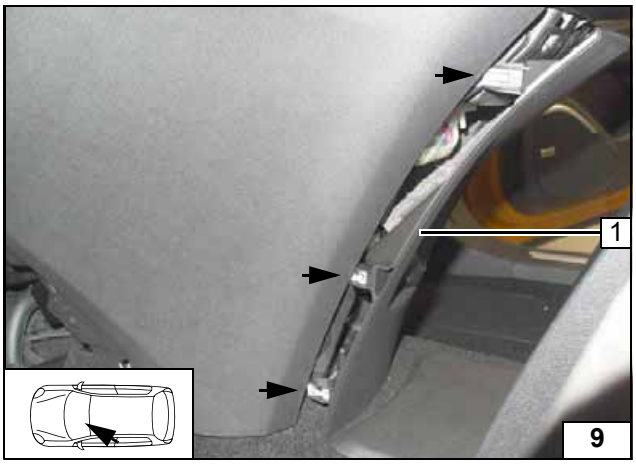
System Wiring Diagram



System wiring diagram for automatic A/C

Webasto components		Vehicle components		Colours and symbols	
HG	TT-Evo heater	260	Passenger compartment relay and fuse box	rt	red
F1	20A fuse			sw	black
F2	30A fuse	F34	40A fuse	ge	yellow
X10	4-pin socket of heater control	F39	10A fuse	gn	green
		1023	Fan controller	ws	white
F3	1A fuse	2402	A/C control panel	br	brown
F4	25A fuse	St C	Grey or black connector (depends on the equipment) 2402	la	salmon
K1	Fan relay				
CL	CL Gateway				
K2	Additional relay	419	A/C control unit	**X**	Cutting point
K3	Additional relay	St B	Black connector 419	Wiring colours may vary.	

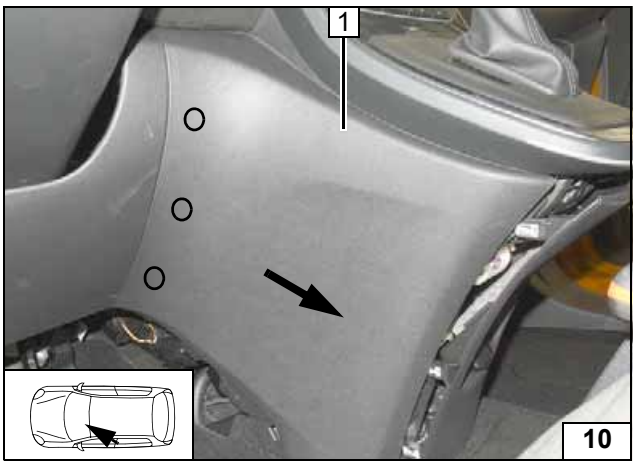
Legend



Trim Dismantling Instructions for Passenger Compartment

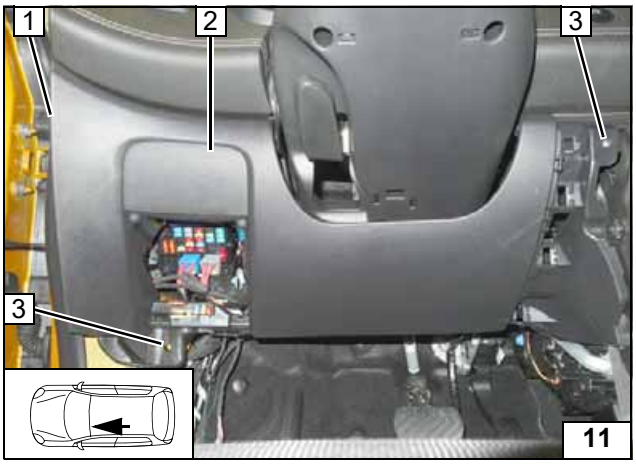
Unclip centre console trim **1** in the direction of the arrow.

Removing centre console side trim



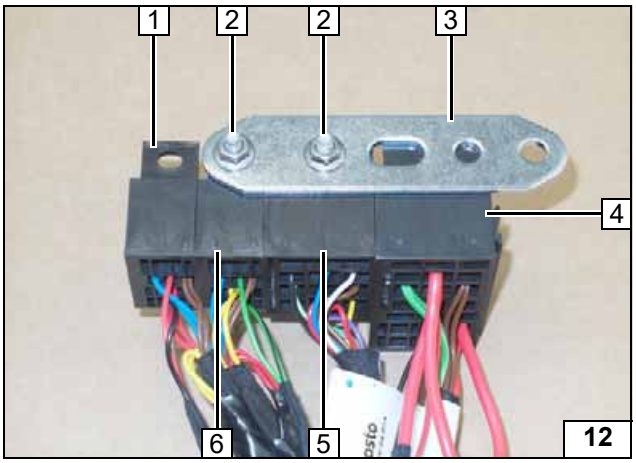
Unclip centre console side trim **1** in the direction of the arrow.

○ Fastening point



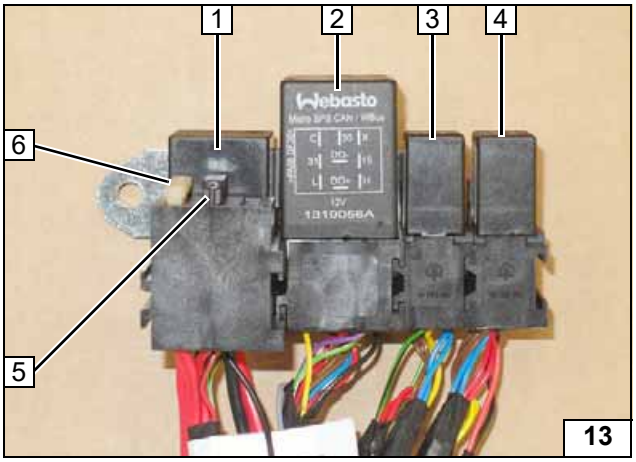
1 Remove original vehicle bolt (covered)
2 Lower instrument panel trim
3 Remove original vehicle bolt

Dismantling lower instrument panel trim

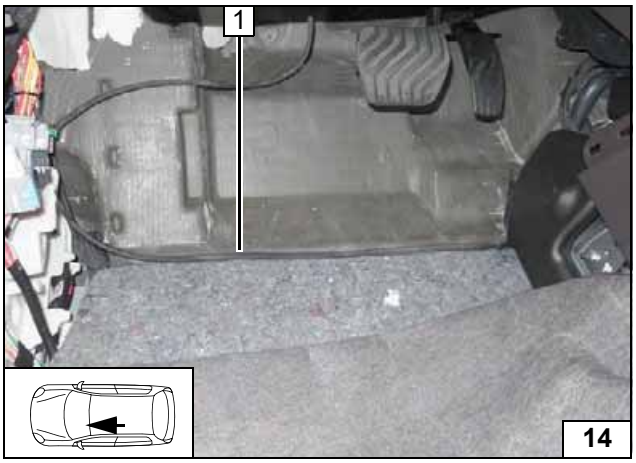


1 Relay K3 socket
2 M5x13 bolt, relay K2 socket, perforated bracket, flanged nut
3 Perforated bracket
4 Passenger compartment relay and fuse holder socket
5 CL Gateway socket
6 Relay K3 socket

Preparing passenger compartment electrical system

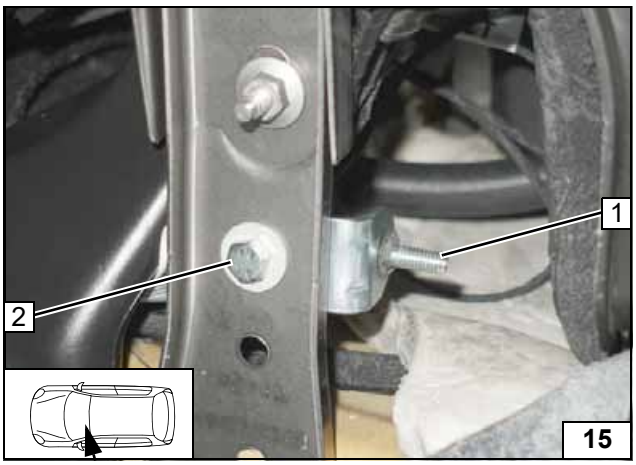


1 Relay K1
2 CL-Gateway
3 K2
4 K3
5 1A fuse F3
6 25A fuse F4



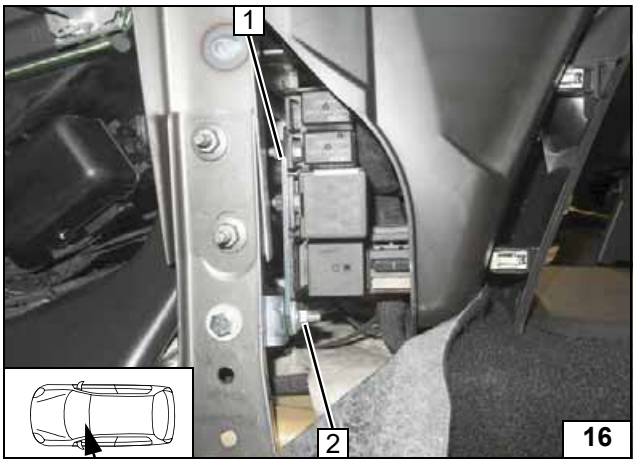
Route heater wiring harness **1** to the centre console.

Routing lines



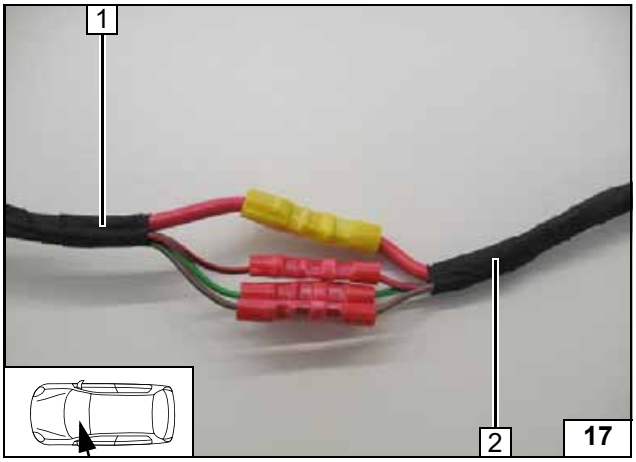
1 M6x20 bolt, angle bracket, lock washer
2 M6x20 bolt, large diameter washer, original vehicle hole, angle bracket, large diameter washer, flanged nut

Installing angle bracket



1 Premouted relay and fuse holder and relay
2 Flanged nut

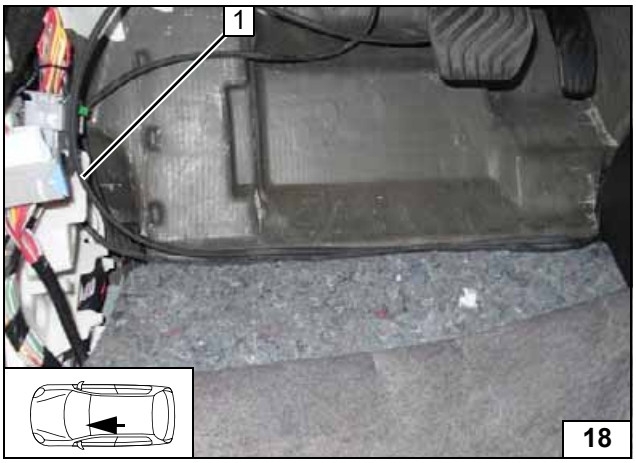
Installing passenger compartment relay and fuse holder



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

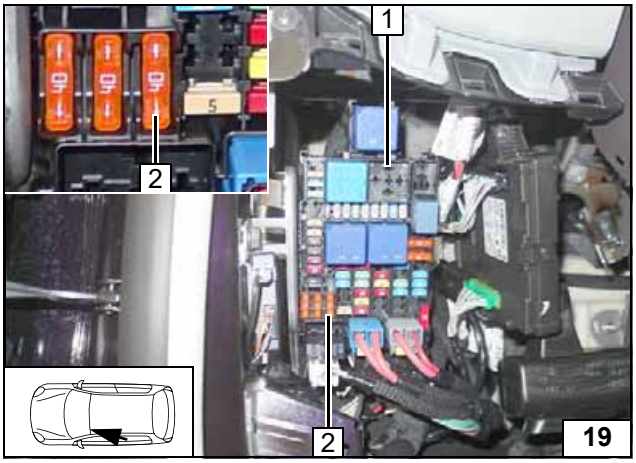
1 Passenger compartment relay and fuse holder wiring harness
2 Heater wiring harness

Connecting same colour wires of wiring harnesses



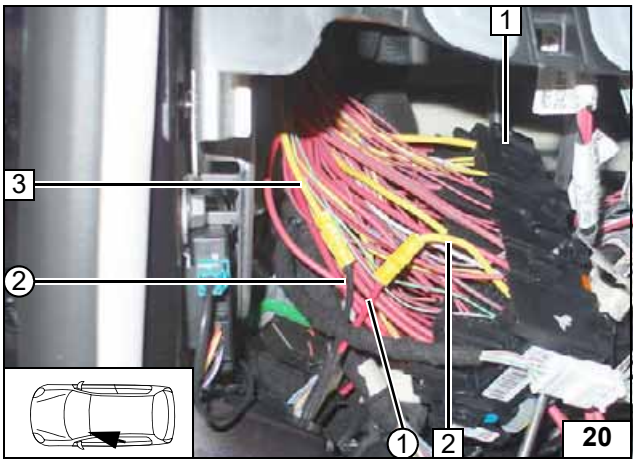
Route fan wiring harness **1** (① / ②) to passenger compartment central electrical box.

Routing lines



1 Central electrical box
2 Original vehicle 40A fan fuse

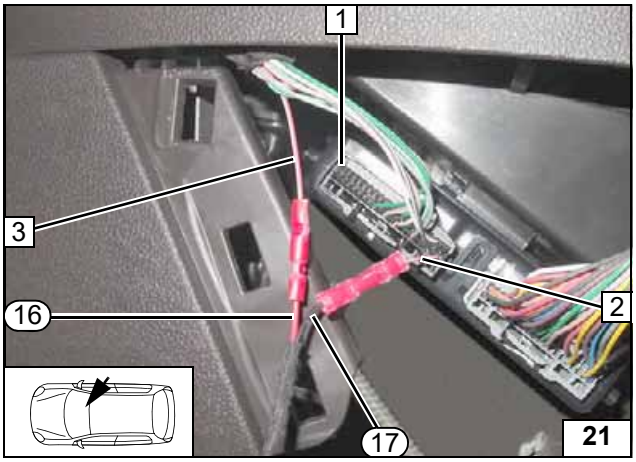
Detaching passenger compartment central electrical box



Connection of passenger compartment central electrical box **1**.

2 Yellow (ge) wire of fuse F34
3 Yellow (ge) wire of 1032 / pin 3
① Red (rt) wire of K1/87a, fan wiring harness
② Black (sw) wire of K1/30, fan wiring harness

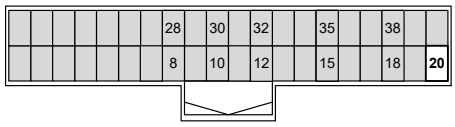
Connecting fan motor

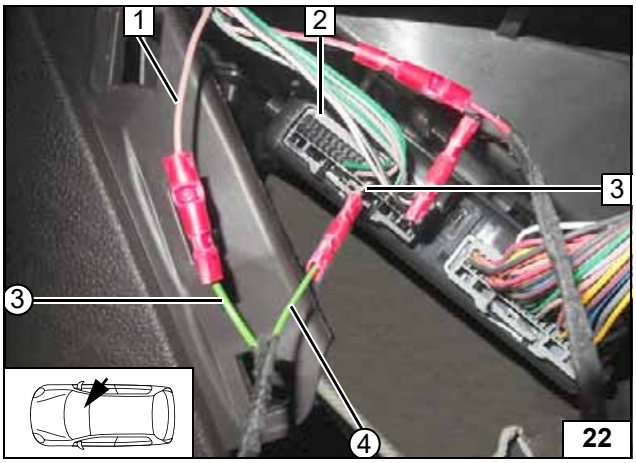


1 A/C control unit connector St B
2 Red (rt) wire of connector St B / pin 20
3 Red (rt) wire of fuse F39
⑯ Red (rt) wire of K3/87a, power supply wiring harness
⑰ Black (sw) wire of K3/30, power supply wiring harness

Connecting A/C control unit

Connector St B on wiring side:

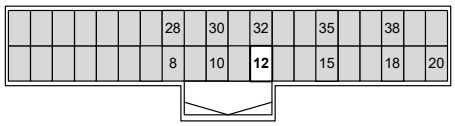


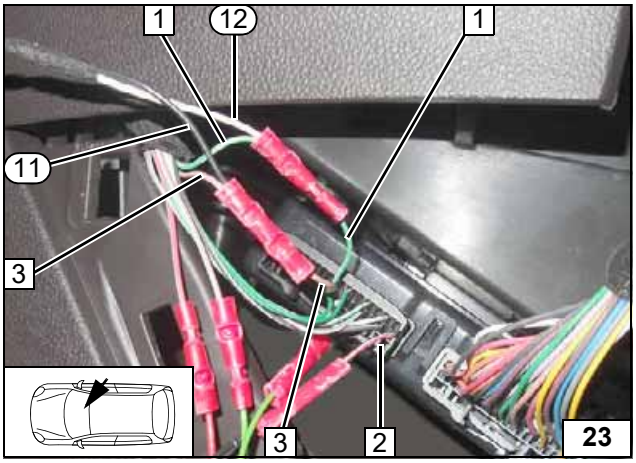


1 Brown/white (br/ws) wire of connector St C, A/C control panel
2 A/C control unit connector St B
3 Brown/white (br/ws) wire of connector St B/ pin 12
③ Green (gn) wire of K2/87a, A/C control wiring harness
④ Green/black (gn/sw) wire of K2/30, A/C control wiring harness

Connecting A/C control unit

Connector St B on wiring side:

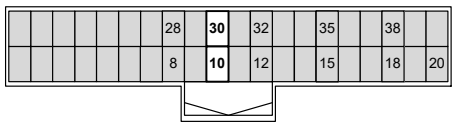




1 Green/white (gn/ws) wire of CAN L connector St B/ pin 30
2 A/C control unit connector St B
3 Brown/white (br/ws) wire of CAN H connector St B/ pin 10
⑪ Black (sw) wire of CL Gateway/ H
⑫ White (ws) wire of CL Gateway/ L

Connecting A/C control unit

Connector St B on wiring side:



Final Work

Warning:
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 loose wire ends and tie back.

- **Make settings on the A/C control panel according to the ‘operating instructions’.**

Webasto Thermo & Comfort SE
Postfach 1410
82199 Gilching
Germany
Internet: www.webasto.com
Technical Extranet:
http://dealers.webasto.com

Operating Instructions

Please remove page and add to the vehicle operating instructions.

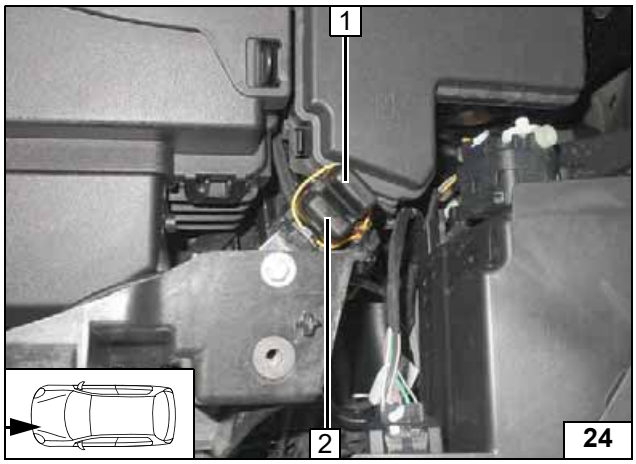
Note:
We recommend matching the heating time to the driving time.
Heating time = driving time
Example:
For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

Passenger compartment monitoring, if installed, must be deactivated for the heating operation.
For instructions on deactivation, please refer to the operating instructions of the vehicle.

Note:
In the case of the parking heater, the fan controller is deactivated by the Webasto heater system when the vehicle is unlocked.
The original vehicle fan controller is available again when the ignition is switched on.
After locking the vehicle, it takes the Webasto heater system several minutes to activate the fan controller again.

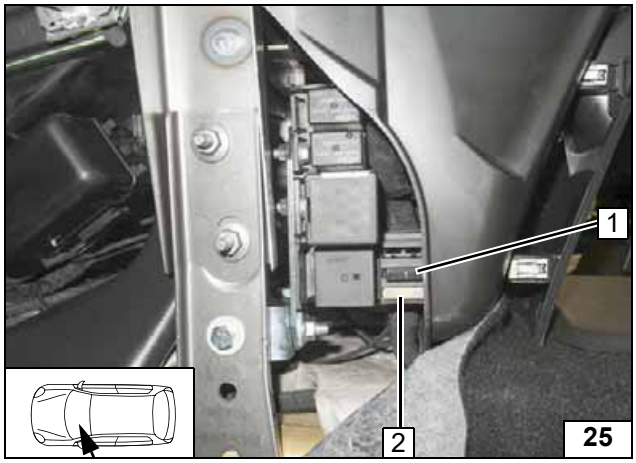
Your vehicle is equipped with a Comfort air-conditioning control system.
This means that **no** settings are required on the A/C control panel before parking the vehicle.
All necessary presettings like the fan speed, temperature and flap positioning will be automatically set.

Engine compartment fuses



1 20A heater fuse F1
2 30A passenger compartment main fuse F2

Passenger compartment fuses



1 1A heater control fuse F3
2 25A fan fuse F4