

Water Heater

Thermo Top Evo Parking Heater



Short Installation Documentation

Ford Focus

'Comfort' Fan Controller

Validity

Manufacturer	Model	Type	EG-BE-No. / ABE
Ford	Focus	DYB	e13 * 2007 / 46 * 1138 * ...

From model year 2015

Left-hand drive vehicle

Verified equipment variants: Automatic air-conditioning

Not verified: Passenger compartment monitoring

Ford Focus

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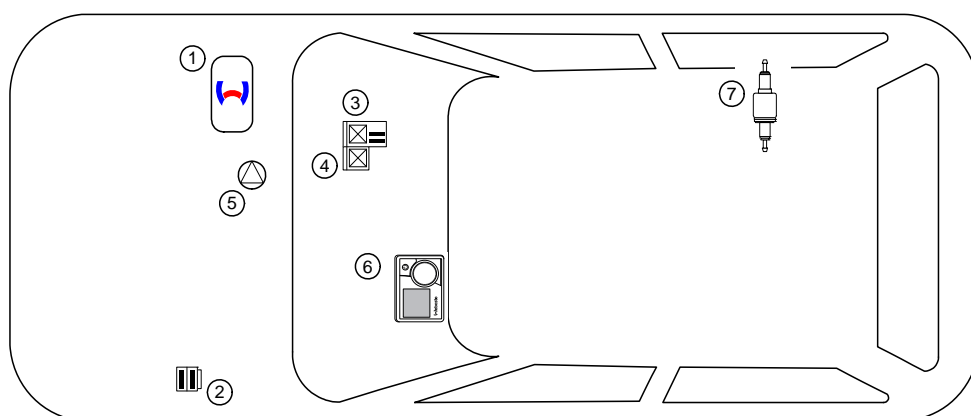
Necessary Components

- Additional kit for Ford Focus CCL Comfort A/C control: **1324107A**

Installation Overview

Legend:

1. Heater
2. Engine compartment fuse holder
3. Passenger compartment relay and fuse holder
4. CCL Gateway
5. Circulating pump
6. MultiControl CAR
7. Metering pump



Information on Validity

This installation documentation applies to:

- Ford Focus petrol vehicles with installation kit **1324046** and installation documentation **1324047** or
- Ford Focus diesel vehicles with installation kit **1323872** and installation documentation **1323873** or **1323874**

For the validity, see page 1 - from model year 2015 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'.

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.

Special features are highlighted using the following symbols:

Mechanical System



Electrical System



Specific risk of damage to components.



Specific risk of injury or fatal accidents.



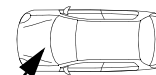
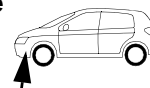
Reference to general installation instructions of the Webasto components or to the manufacturer's vehicle-specific documents.



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.



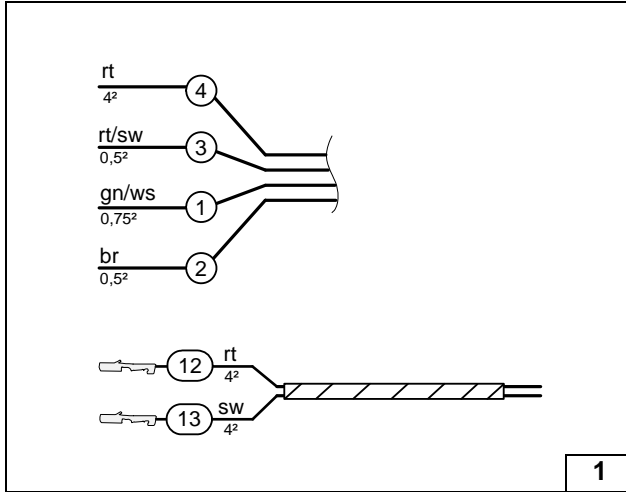
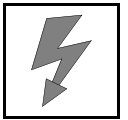
Preliminary Work

Vehicle

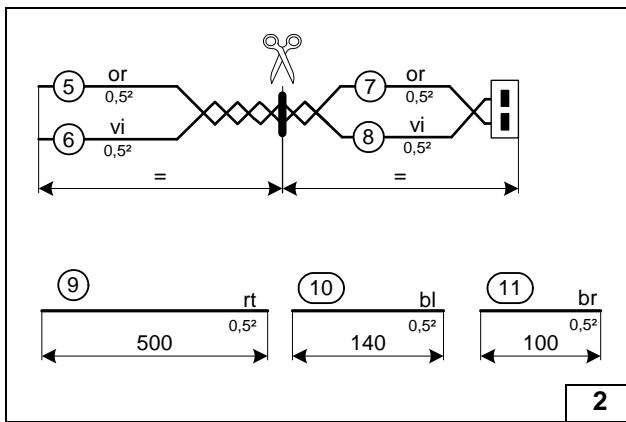


- Disconnect the battery.
- Remove the lower footwell trim on the front passenger's side.
- Remove the glove box.
- Remove the centre tunnel trim strip (see installation instructions).
- Remove the trim piece over the A/C control panel (see installation instructions).
- Remove the A/C control panel frame (see installation instructions).

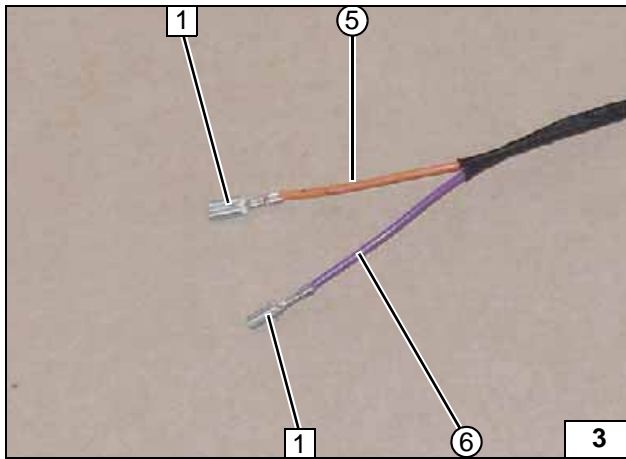




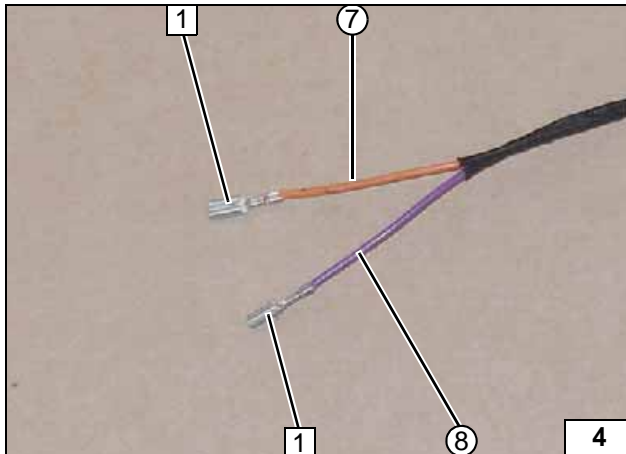
1



2



3



4

Preparing Electrical System

Wire sections retain their numbering in the entire document.

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

- ① Green/white (gn/ws) wire of CCL Gateway, pin 15
- ② Brown (br) wire of passenger compartment relay and fuse holder K1/ 85
- ③ Red/black (rt/sw) wire of passenger compartment relay and fuse holder, fuse F3
- ④ Red (rt) wire of passenger compartment relay and fuse holder, fuse F3/F4
- ⑫ Red (rt) wire of fan wiring harness
- ⑬ Black (sw) wire of fan wiring harness
- ⑤ Orange (or) wire of CAN wiring harness part 1
- ⑥ Violet (vi) wire of CAN wiring harness part 1
- ⑦ Orange (or) wire of CAN wiring harness part 2
- ⑧ Violet (vi) wire of CAN wiring harness part 2

Assigning wires

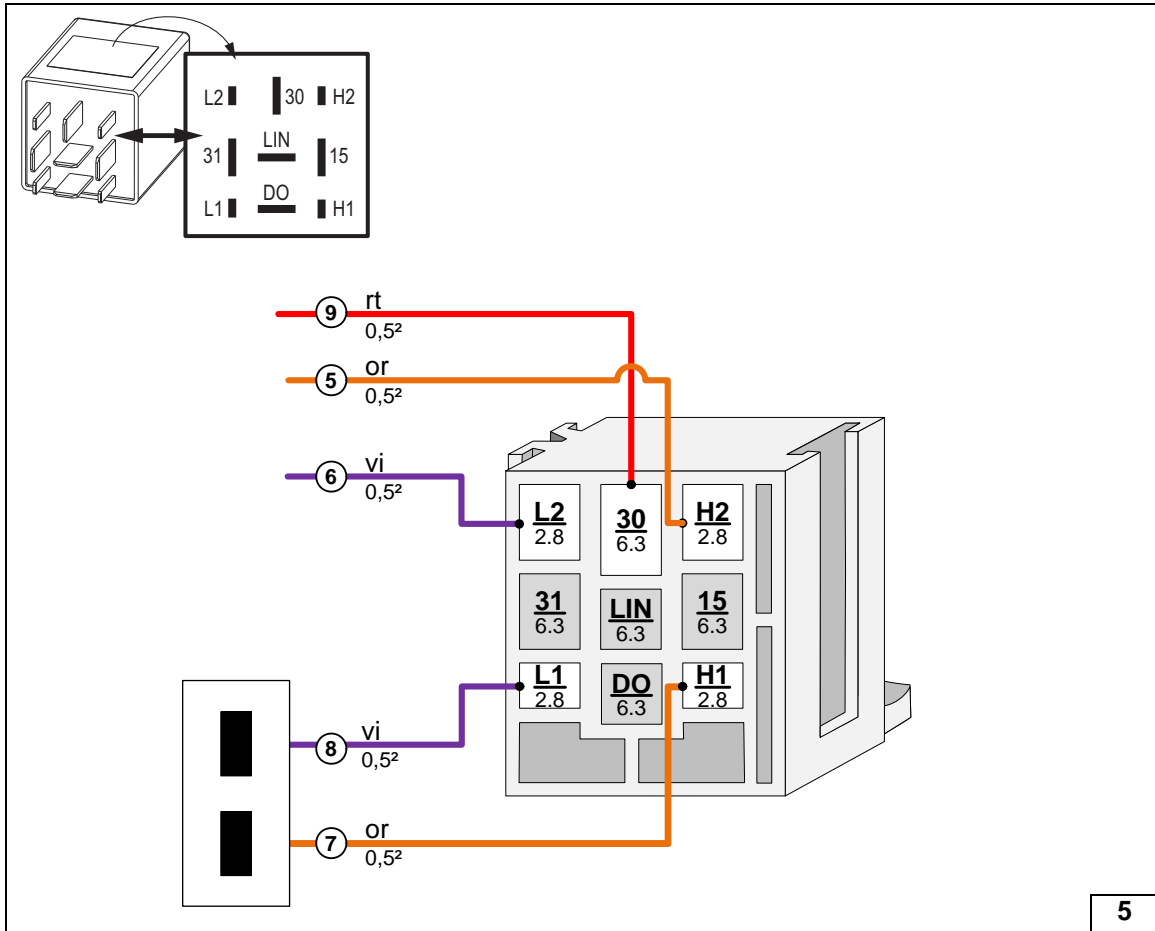
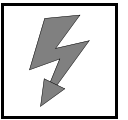
Cutting to length wiring harness / assigning wires

- 1 2.8 mm blade receptacle [2x]
- ⑤ Orange (or) wire of CAN wiring harness part 1
- ⑥ Violet (vi) wire of CAN wiring harness part 1

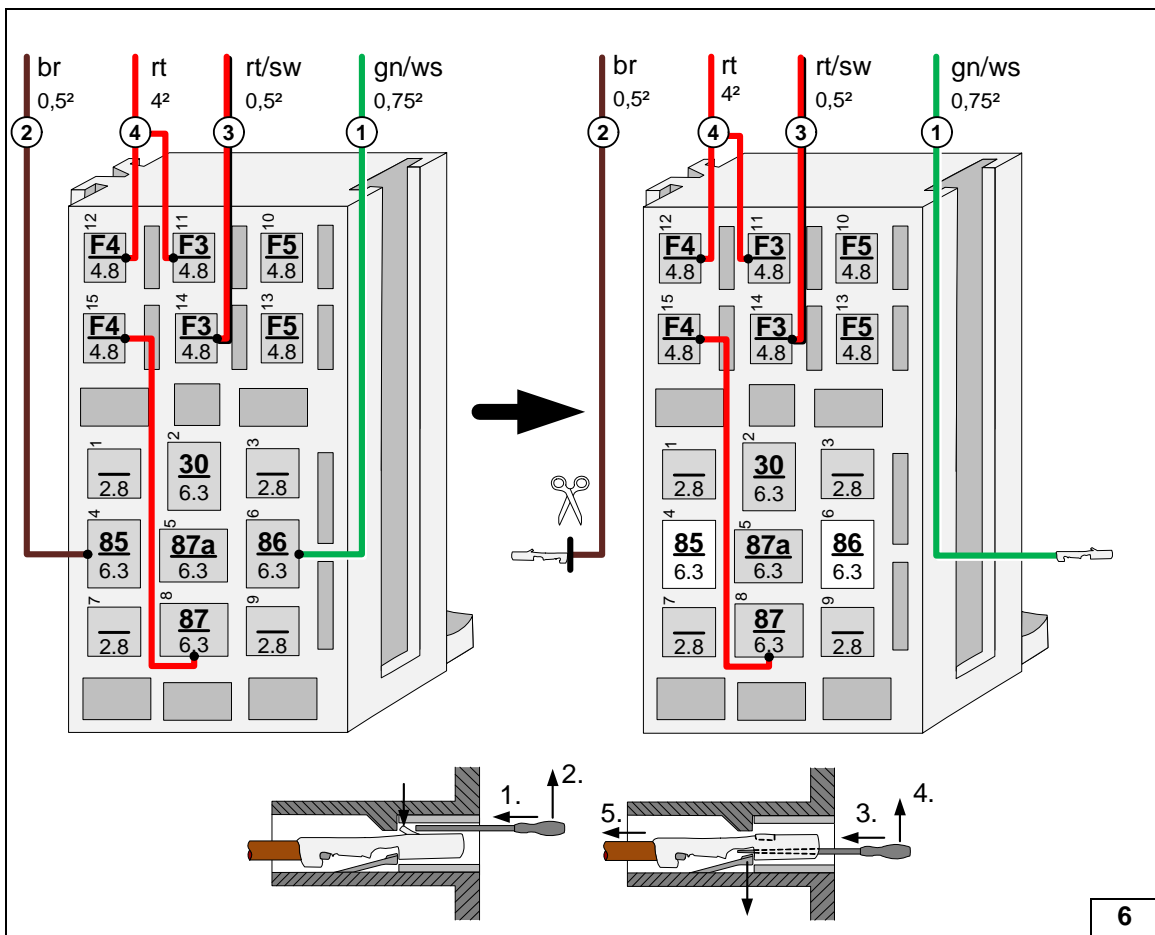
Preparing wiring harness part 1

- 1 2.8 mm blade receptacle [2x]
- ⑦ Orange (or) wire of CAN wiring harness part 2
- ⑧ Violet (vi) wire of CAN wiring harness part 2

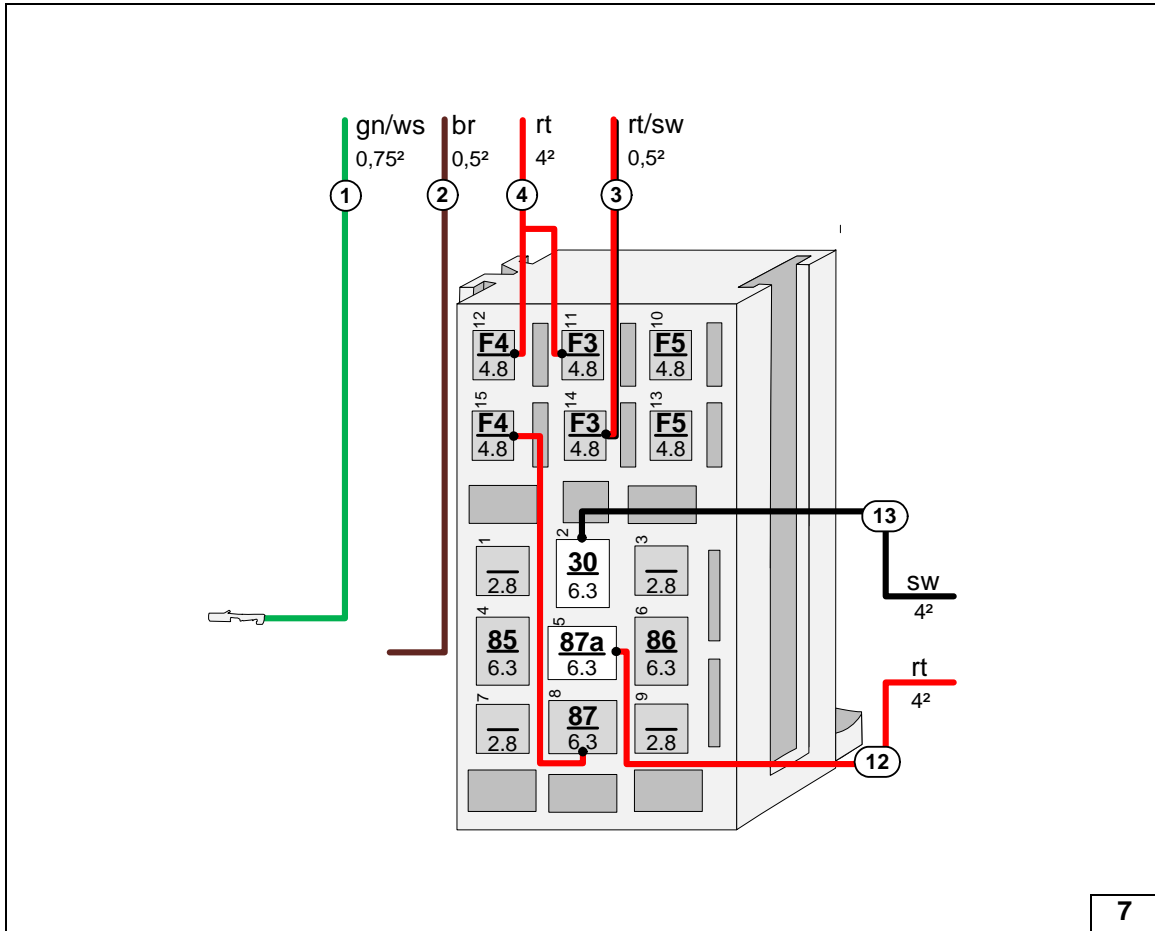
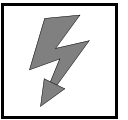
Preparing wiring harness part 2



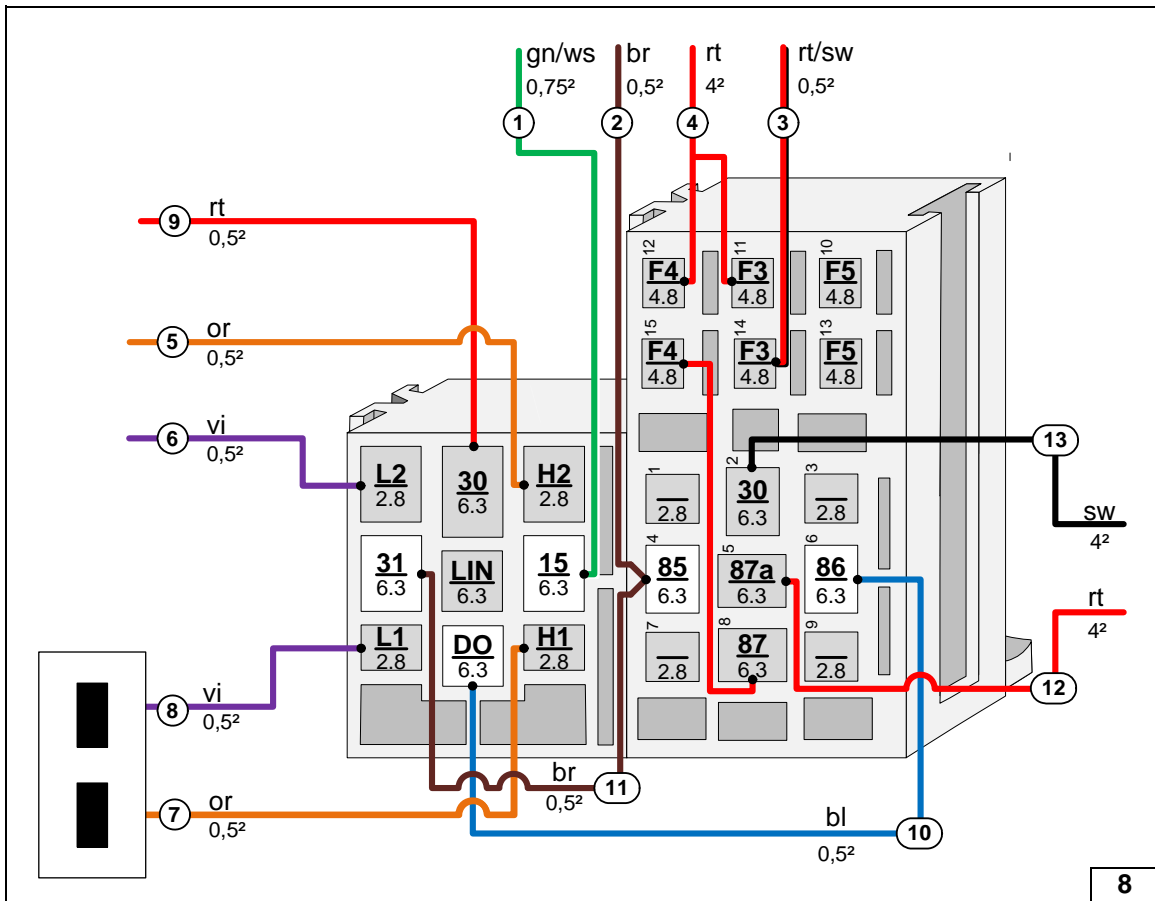
Connecting wires to CCL Gateway socket



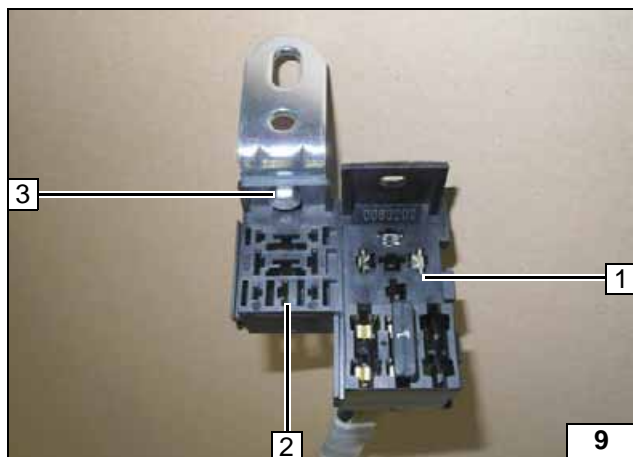
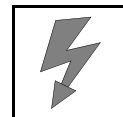
Preparing passenger compartment relay and fuse holder



Connecting wires to passenger compartment relay and fuse holder



Interlocking CCL Gateway socket and passenger compartment relay and fuse holder, connecting wires



- 1 Passenger compartment relay and fuse holder
- 2 CCL Gateway socket
- 3 M5x16 bolt, angle bracket, large diameter washer, nut

Installing angle bracket

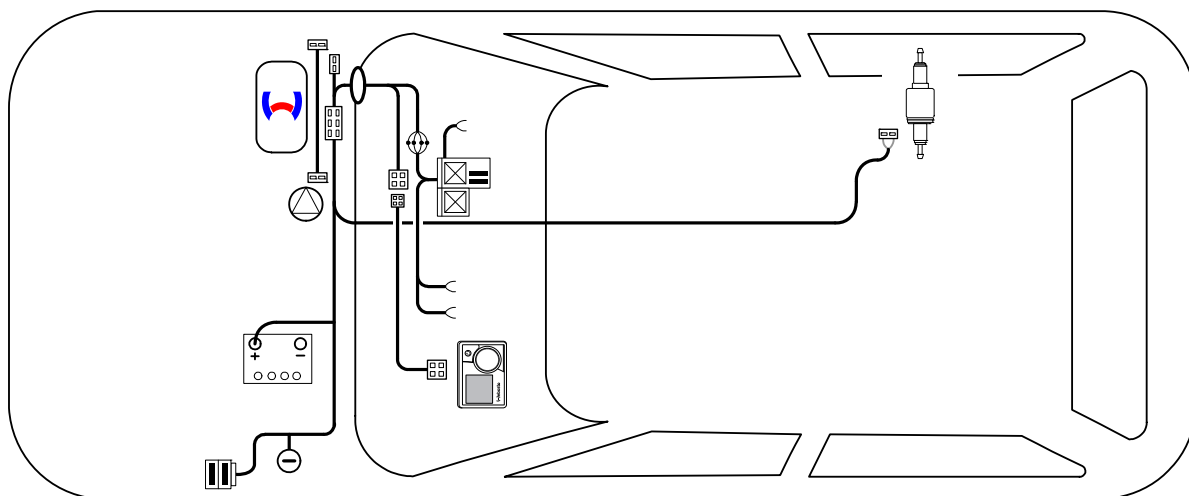
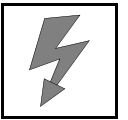


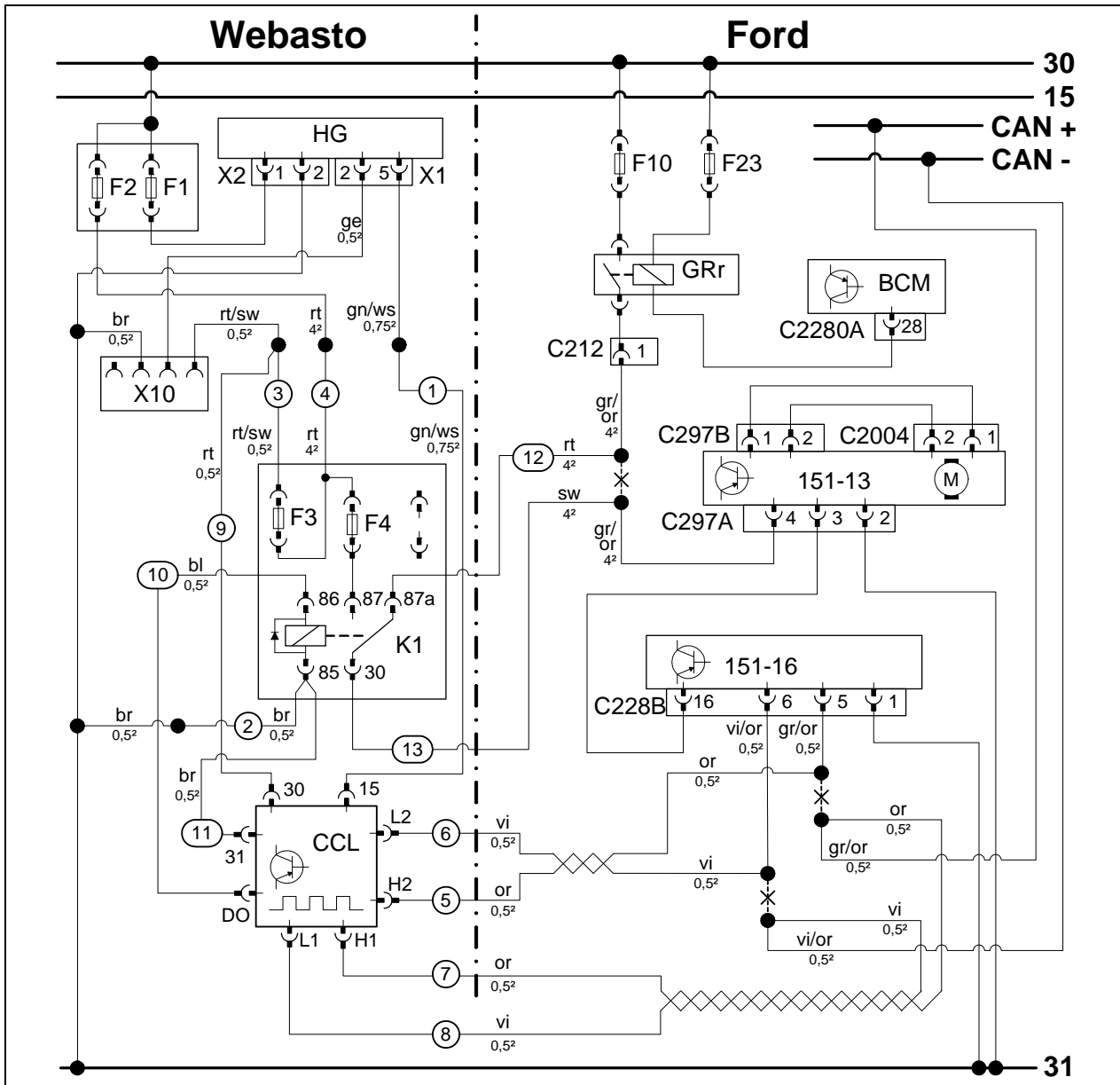
Diagram of wiring harness routing (automatic air-conditioning)



Fan Controller for Automatic Air-Conditioning

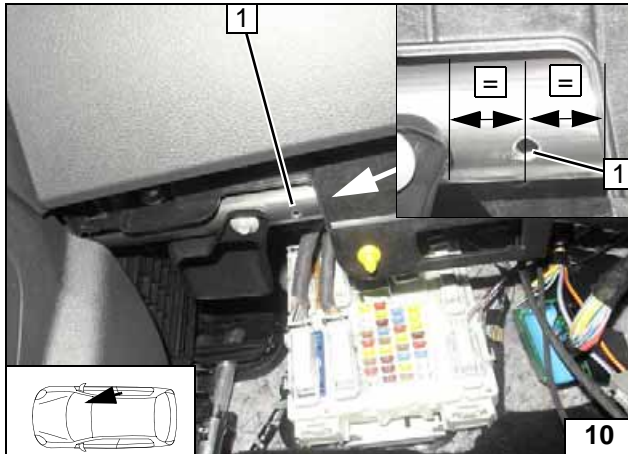


Wiring diagram



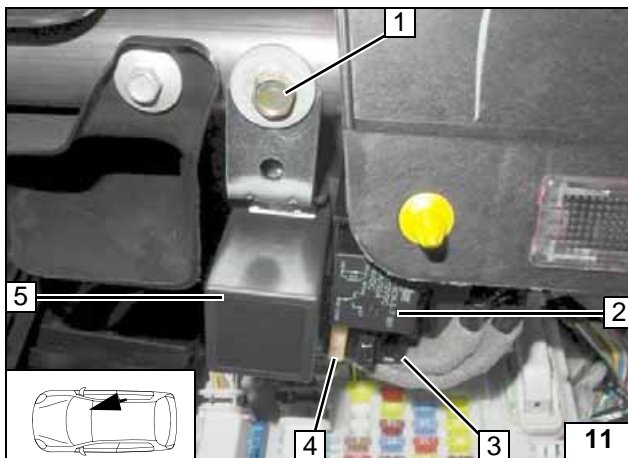
Webasto components		Vehicle components		Colours and symbols	
HG	TT-Evo heater	F10	40A fuse	rt	red
X1	6-pin heater connector	F23	5A fuse	sw	black
X2	2-pin heater connector	GRr	Fan relay	ge	yellow
F1	20A fuse	BCM	Body control unit	gn	green
F2	30A fuse	C2280A	Connector BCM	ws	white
X10	4-pin connector of heater control	C212	Socket connection	br	brown
F3	1A fuse	151-13	Fan motor with fan controller	gr	grey
F4	25A fuse	C297B	Connector of 151-13	vi	violet
K1	Fan relay	C2004	Connector of 151-13	or	orange
CCL	CCL Gateway	C297A	Connector of 151-13	bl	blue
		151-16	A/C control unit		
		C228B	Connector of 151-16		
				X	Cutting point
					Wiring colours may vary.

Legend



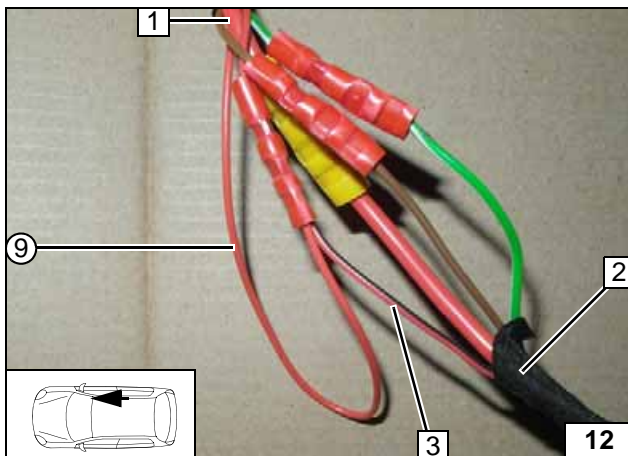
1 5mm dia. hole

Drilling hole in instrument panel carrier



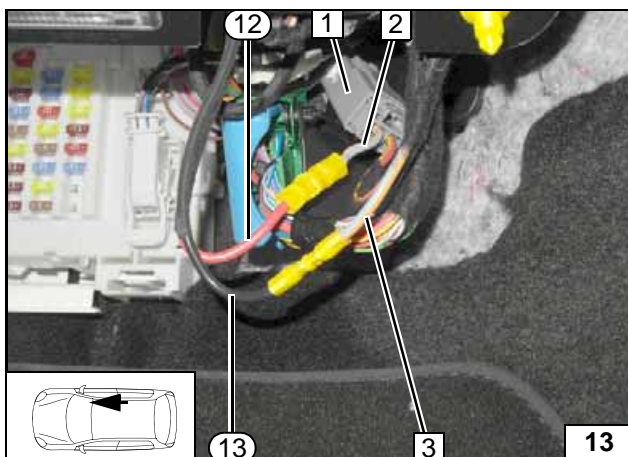
1 Self-tapping screw, large diameter washer, angle bracket premounted
 2 K1 relay
 3 Passenger compartment relay and fuse holder
 4 25A fuse F4
 5 CCL Gateway

Installing passenger compartment relay and fuse holder



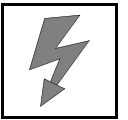
1 Wiring harness of passenger compartment relay and fuse holder
 2 Wiring harness of heater
 3 Red/black (rt/sw) wire of heater wiring harness
 ⑨ Red (rt) wire of CCL Gateway/ 30

Connecting wiring harnesses using same colour wires/ connecting ⑨ wire



1 Connector C212
 2 Grey/orange (gr/or) wire of connector C212/ pin 1
 3 Grey/orange (gr/or) wire of connector C297A/ pin 4 fan controller 151-13
 ⑫ Red (rt) wire of K1/87a, fan wiring harness
 ⑬ Black (sw) wire of K1/30, fan wiring harness

Connecting fan controller



A/C Control Panel Installation Instructions



Open glove box and unclip trim strip 1.

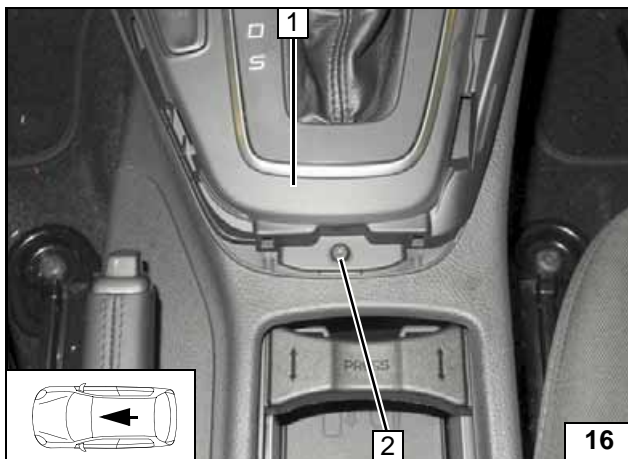
Removing trim strip



- 1 Centre tunnel trim strip
- Fastening points, clipped on or locking tabs



Removing centre tunnel trim strip



- 1 A/C control panel frame
- 2 Remove original vehicle bolt

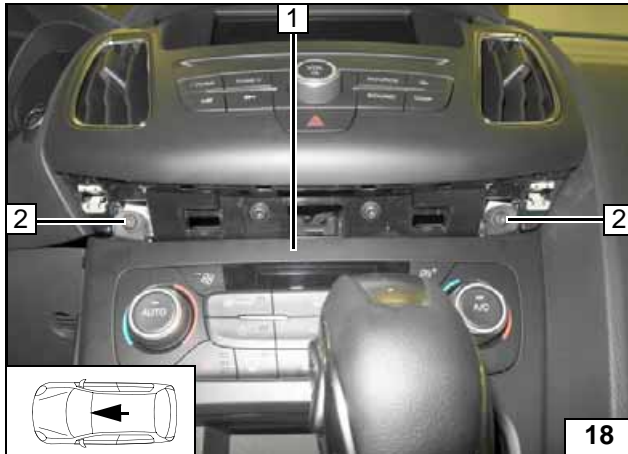
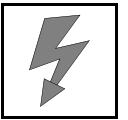
Removing bolt



Loosen trim piece 1 carefully in the opposite direction of travel to unlock the centre locking tab with a suitable tool, then unclip.

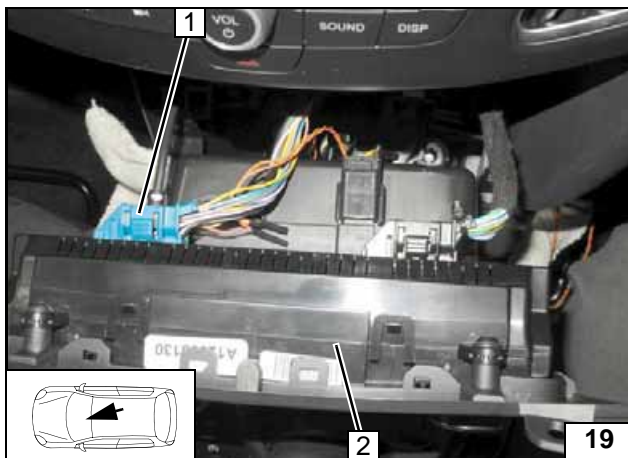


Removing trim piece



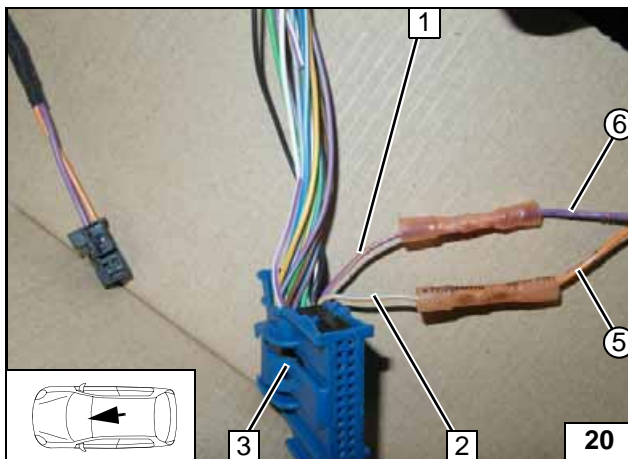
- 1 A/C control panel frame
- 2 Remove original vehicle bolts [2x]

Loosening A/C control panel frame and pulling lightly forward



- 1 Connector C228B of A/C control panel
- 2 A/C control panel

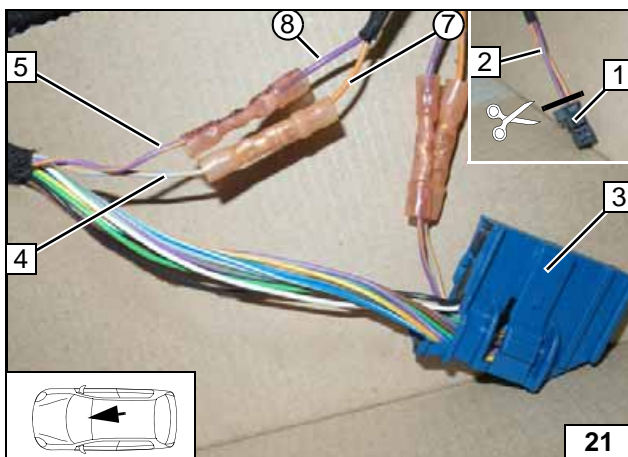
Detaching connector C228B of A/C control panel



Fan Controller

- 1 Violet/orange (vi/or) wire of connector C228B / pin 6
- 2 Grey/orange (gr/or) wire of connector C228B / pin 5
- 3 Connector C228B of A/C control panel
- ⑤ Orange (or) wire of CCL Gateway/H2 CAN wiring harness part 1
- ⑥ Violet (vi) wire of CCL Gateway/L2 CAN wiring harness part 1

Connecting A/C control panel

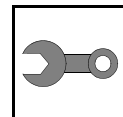


Cut connector 1 from CAN wiring harness part 2; 2 and discard.

- 3 Connector C228B of A/C control panel
- 4 Grey/orange (gr/or) wire of CAN +
- 5 Violet/orange (vi/or) wire of CAN -
- ⑦ Orange (or) wire of CCL Gateway/H1 CAN wiring harness part 2
- ⑧ Violet (vi) wire of CCL Gateway/L1 CAN wiring harness part 2

Connecting A/C control panel





Final Work



Reassemble the components in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Insulate and tie back all loose wires.

- **Connect the battery.**
- **Make settings on A/C control panel according to the 'Operating Instructions for End Customer'.**
- **For initial startup and function check, please see installation instructions.**



'Comfort' Automatic A/C 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 in addition to the vehicle settings for the heating operation.

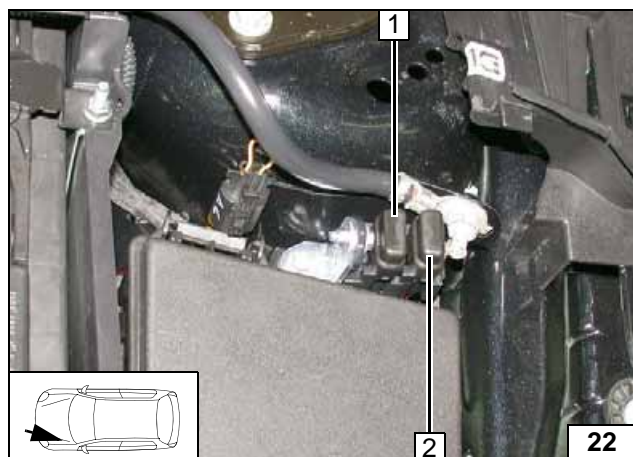
For instructions on deactivation, please refer to the operating instructions of the vehicle.

Note:

Your vehicle is equipped with a Comfort air-conditioning control system.

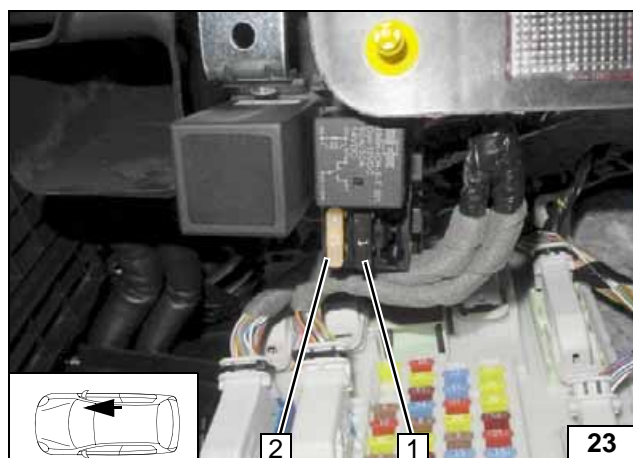
No settings on the A/C control panel are therefore needed before parking the vehicle!

All required presets, such as fan speed, temperature and flap positions are automatically applied.



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

Engine compartment fuses



- 1 1A fuse F3 of heater control and fan controller
- 2 25A fan fuse F4

Passenger compartment fuses

