

## Validity: Subaru Outback; Kit 1324223A

For Subaru Outback from MY15 (INST 1324224A), the using of the parking-heater can cause decreasing performance of the seat-heating.

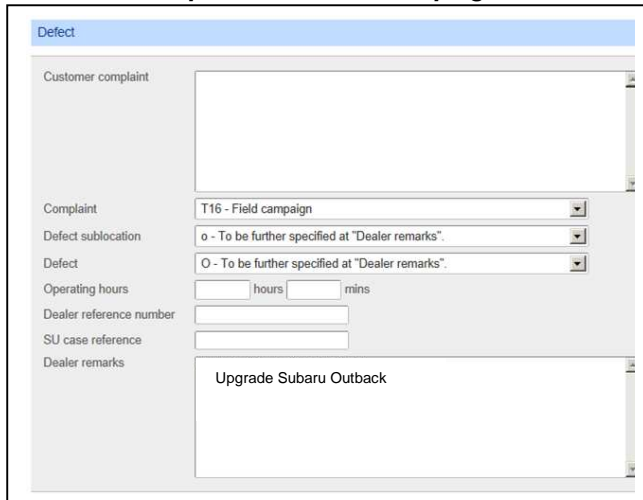
Due to this, the kit 1324223B (Inst 1324224B) will be modified and sale will start again from CW4.

For cars which was installed with kit index A, it is necessary to modify the control of blower.

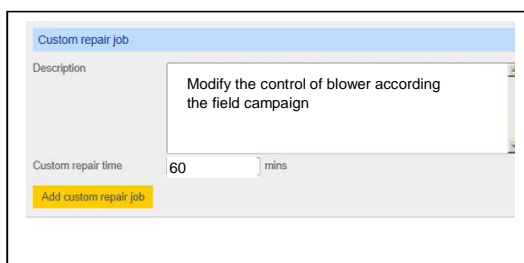
- Enclosed material will be send free of charge one forehand to you.
- Modification according follow description (for English translation see [www.dealers.webasto.com](http://www.dealers.webasto.com))
- The warranty-claim has to send by the regularly way, using the Online Warranty tool:
- 1,0h installation time will be refunded
- Add a copy of bill of installation for kit 1324223A
- Support „via [hotline.wt@webasto.com](mailto:hotline.wt@webasto.com)“

### Online Warranty tool (all countries without Germany):

- Select **Complaint T16-Field Campaign** and write at **Dealer remarks: "Upgrade Subaru Outback"**.



- Add custom repairjob:




# Air-conditioning control modification instructions

(Supplement to installation documentation 1324224A)

## Subaru Outback



### Validity

Manufacturer	Model	Type	EG BE No. / ABE
Subaru	Outback	B6	e1 * 2007 / 46 * 1320 *...

Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm <sup>3</sup>	Engine code
2.0D	Diesel	6-speed SG	110	1998	EE20
2.0D	Diesel	CVT	110	1998	EE20

SG = manual transmission

CVT = Lineartronic transmission

**From model year 2015**

**Left-hand drive vehicle**

**Verified equipment variants:** 2 zone automatic air-conditioning  
Keyless access

**Not verified:** Passenger compartment monitoring

**Total installation time:** approx. 1 hour

# Subaru Outback

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## Necessary Components

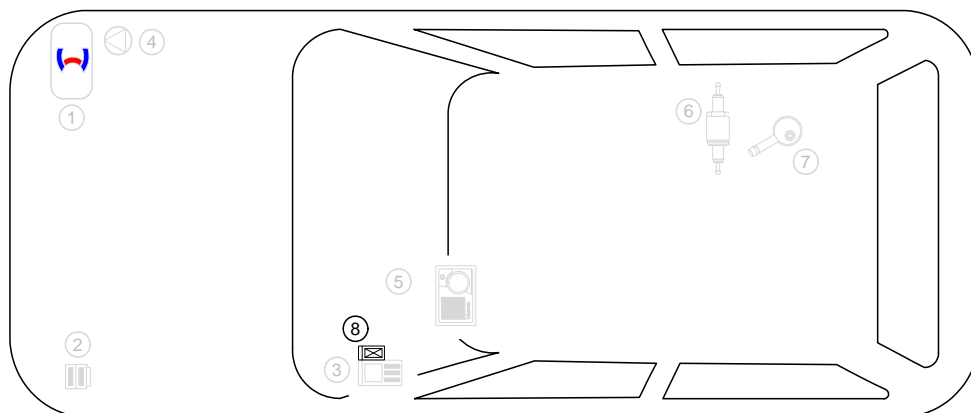
- The provided modification kit as a supplement to installation kit 1324223A

## Information on Validity

This installation documentation is valid only in combination with:

- Installation kit for Subaru Outback 2015 diesel: **1324223A**
- Installation documentation: **1324224A**

## Installation Overview



### Legend:

- 8. K2 relay

## Information on Total Installation Time

The total installation time includes the time needed for mounting and demounting the vehicle-specific components, the heater specific installation time and all other times required for the system integration and initial start-up of the heater. The total installation time may vary for vehicle equipment other than provided.

## 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 have to audibly click into place during installation.

Sharp edges should be fitted with rub protection. Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K, Order No. 111329).

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

The initial startup 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.

# Subaru Outback

## Information on Validity

This installation documentation is a supplement to installation documentation 1324223A for Subaru Outback diesel vehicles - for 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'.

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 - 6mm<sup>2</sup>
- Crimping pliers for cable lug / tab connector 0.5 - 6mm<sup>2</sup>
- 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**



**Software**



**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.**



# Subaru Outback

## Preliminary Work

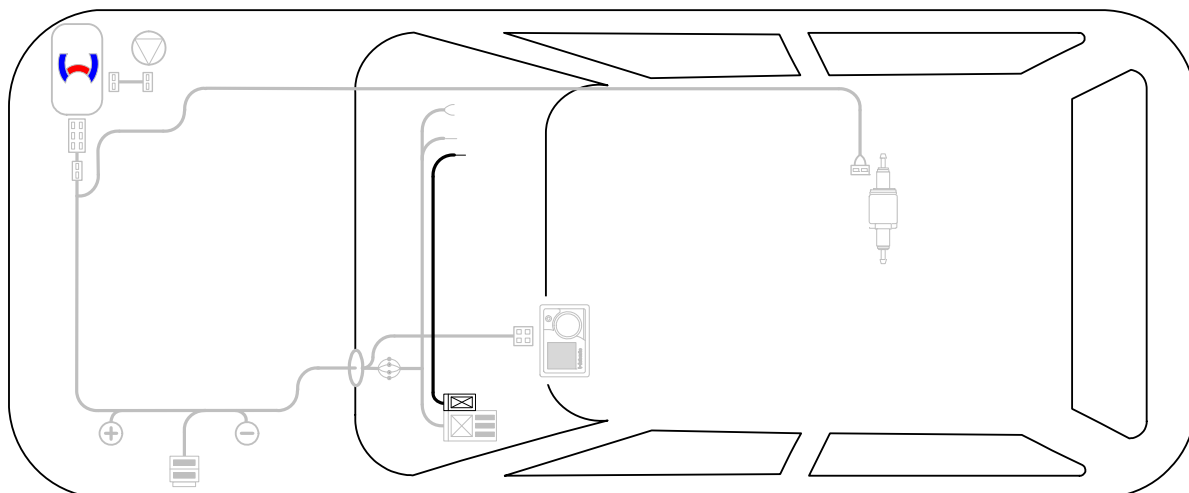
### Vehicle



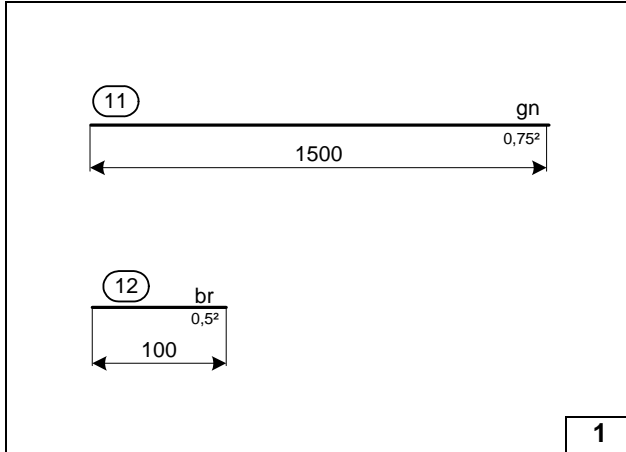
- Disconnect the battery.
- Remove the lateral instrument panel trim on the left.
- Remove the lateral instrument panel trim on the right.
- Remove the lower instrument panel trim on the front passenger's side.
- Remove the instrument panel trim on the driver's side.
- Remove the glove box.



## Electrical System



Wiring harness routing diagram



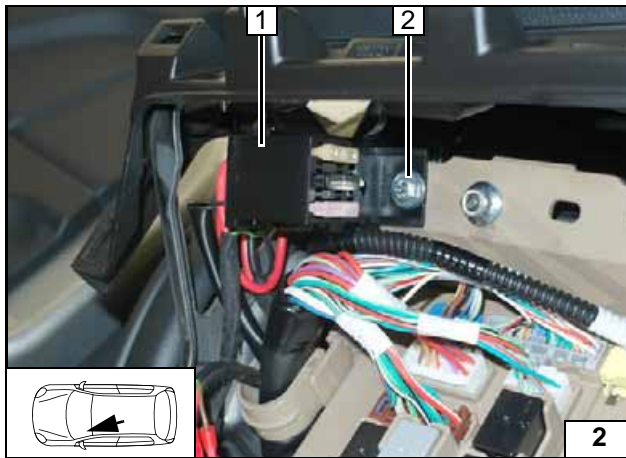
### Preparing Electrical System

Wire sections retain their numbering in the entire document.

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

Pull green (gn) wire ① into the provided protective sleeving.

**Preparing / assigning wires**



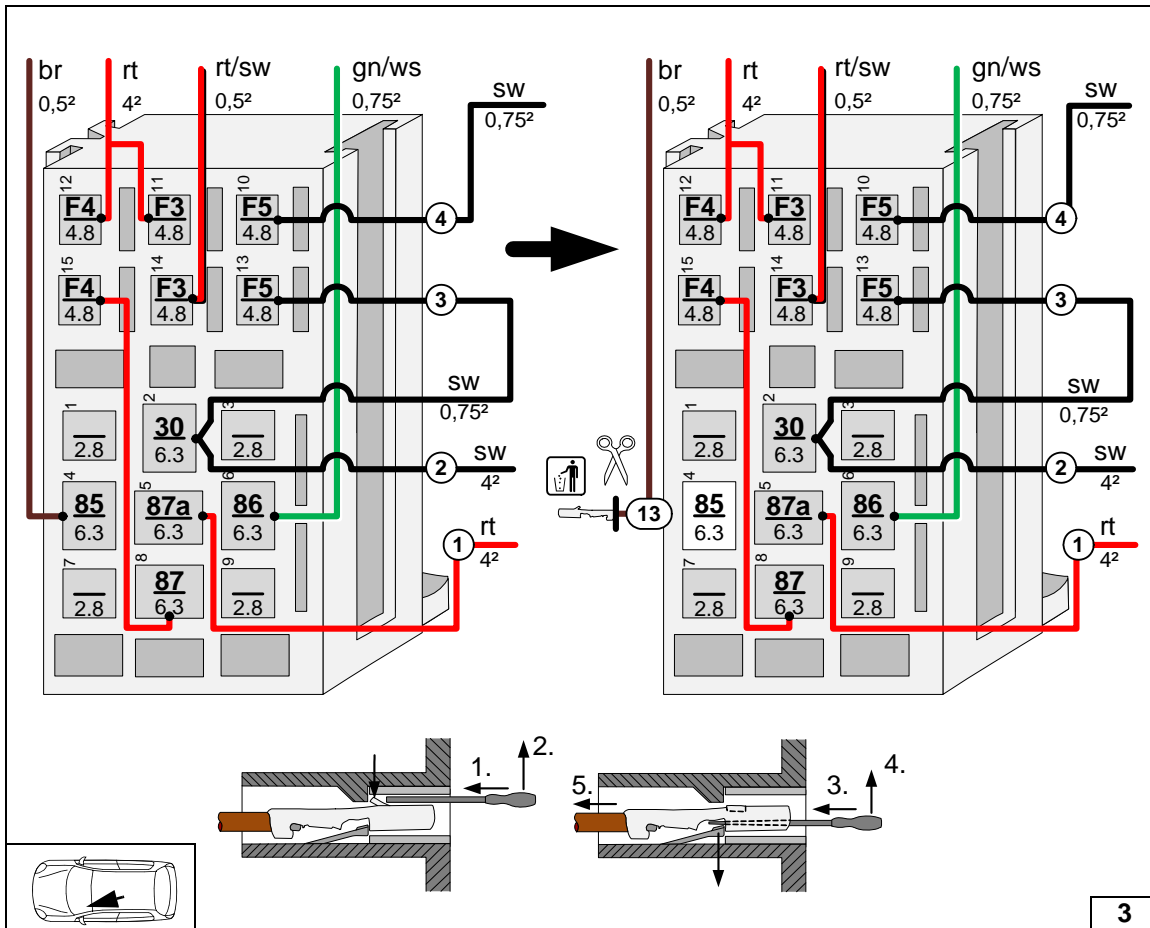
### Air-Conditioning Control Modification

Remove K1 relay.

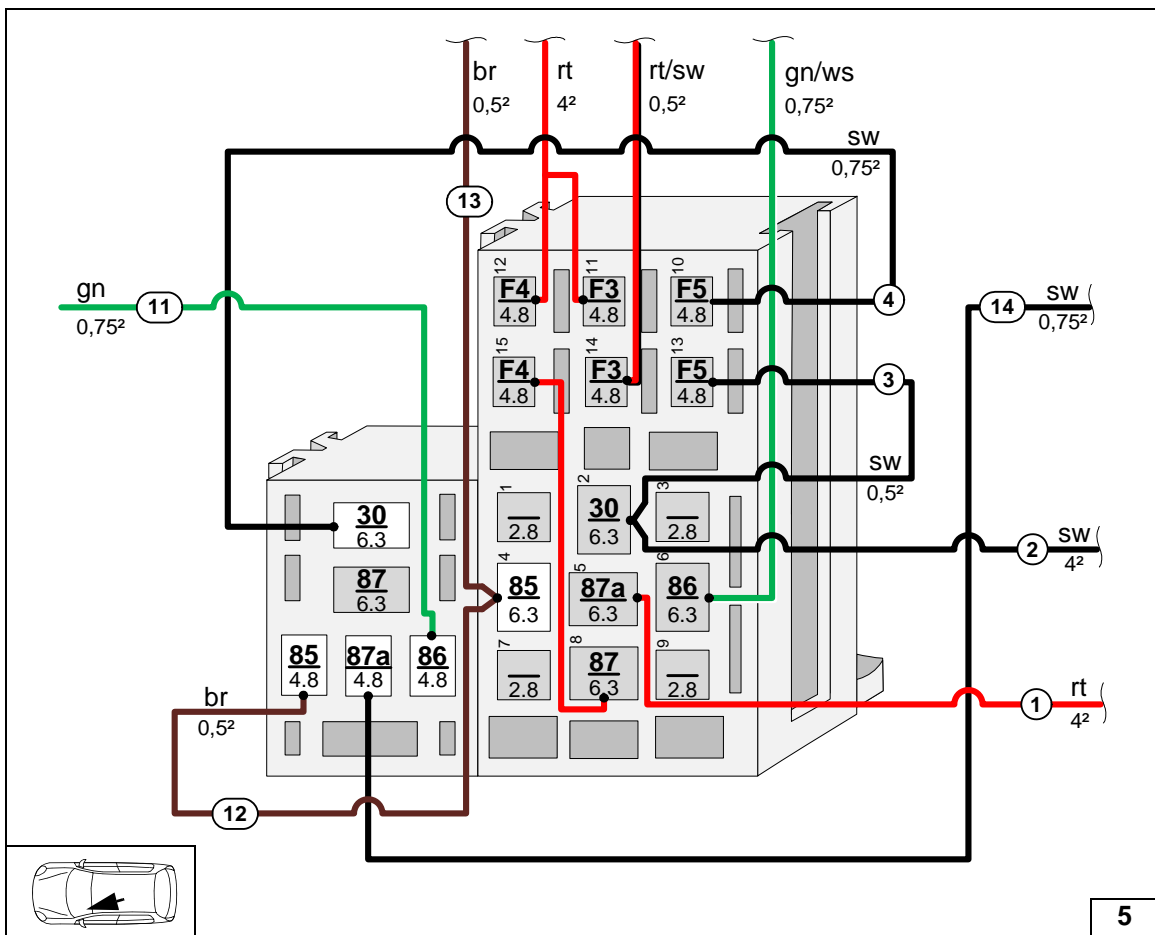
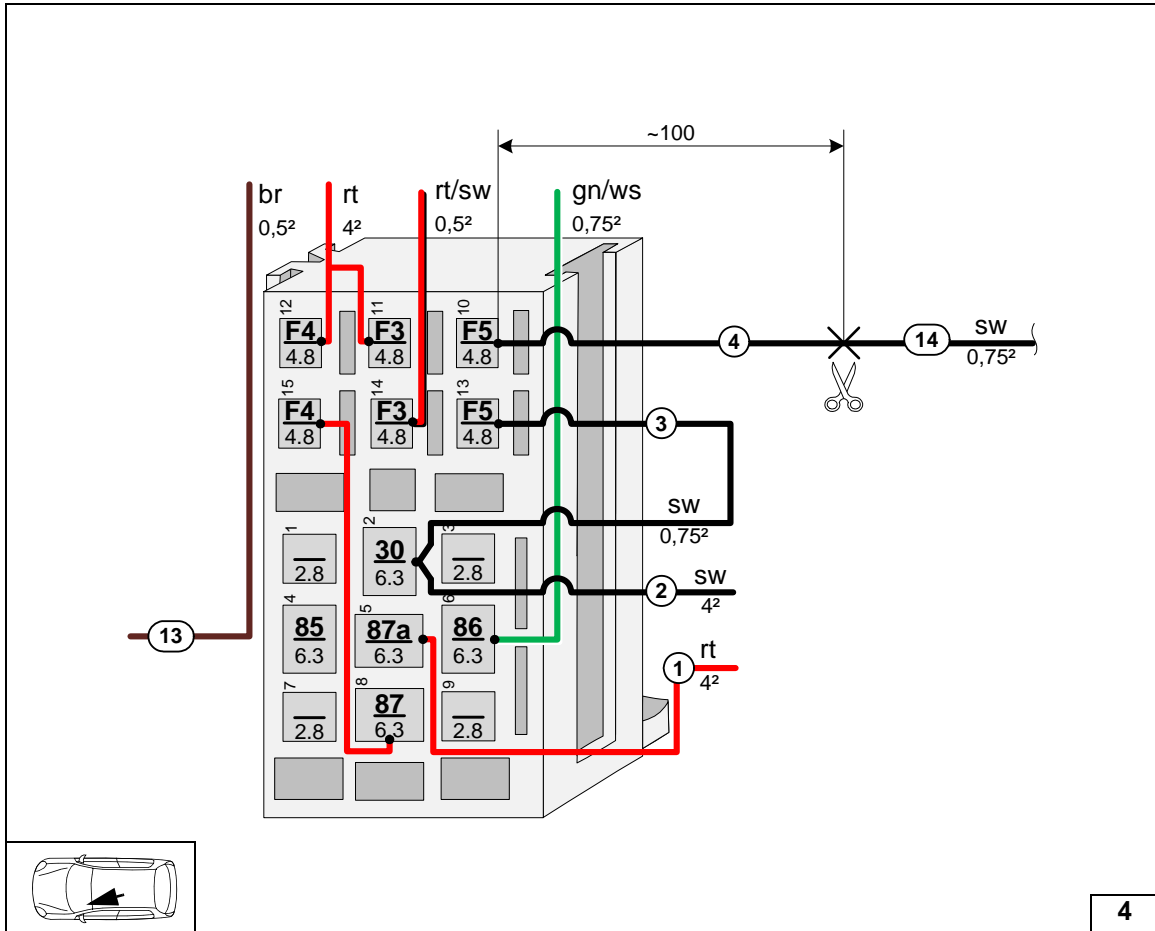
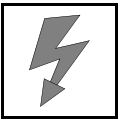
- 1 Passenger compartment relay and fuse holder
- 2 M5x16 bolt (will be reused)



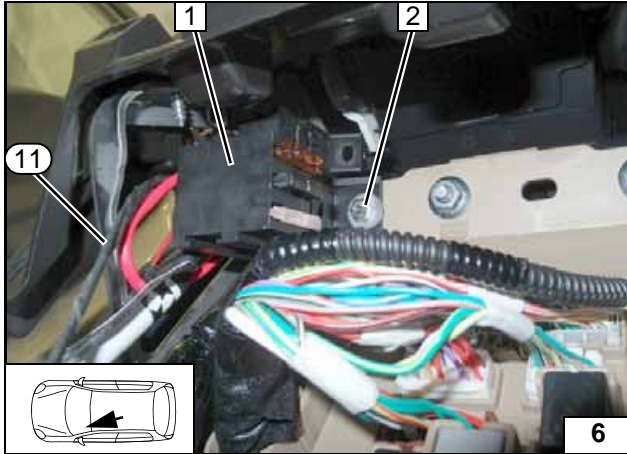
**Detaching passenger compartment relay and fuse holder**



**Uncrimping / assigning brown (br) wire of relay and fuse holder (K1/85) in passenger compartment**





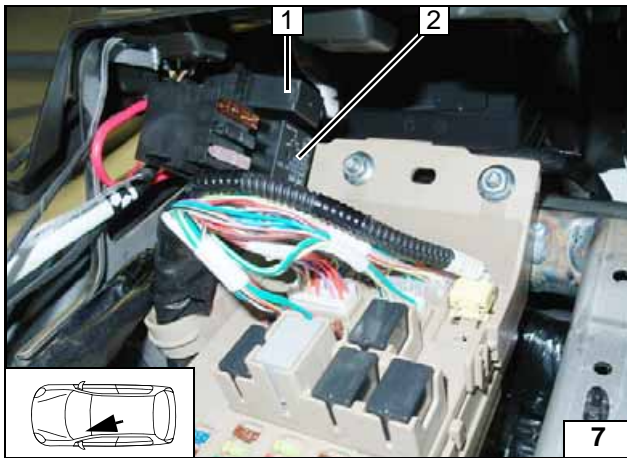


Route wire (11) in protective sleeving to the installation location of the A/C booster.



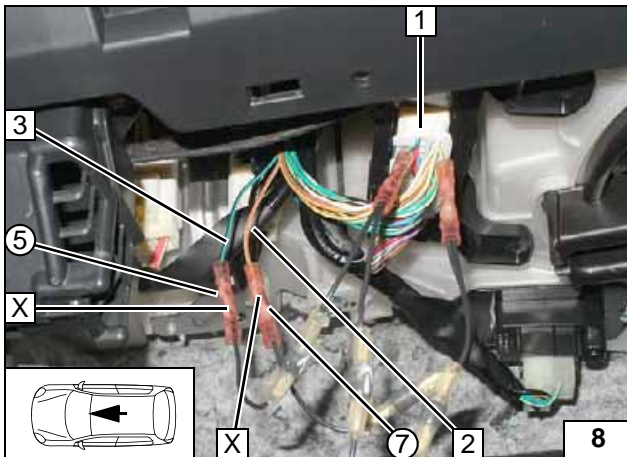
- 1 Passenger compartment relay and fuse holder
- 2 M5x16 bolt, large diameter washer [2x], existing hole, nut

**Installing passenger compartment relay and fuse holder**



- 1 K2 relay
- 2 K1 relay

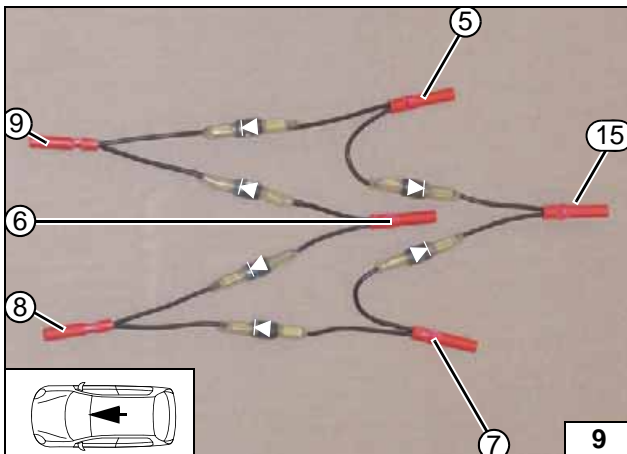
**Installing relay**



- 1 26-pin connector i80 of A/C booster
- 2 Yellow/red (ge/rt) wire of fuse F9
- 3 Green/black (gn/sw) wire of fuse F8

X =

**Disconnecting wires (5) and (7) (connection to fuses F8 and F9)**

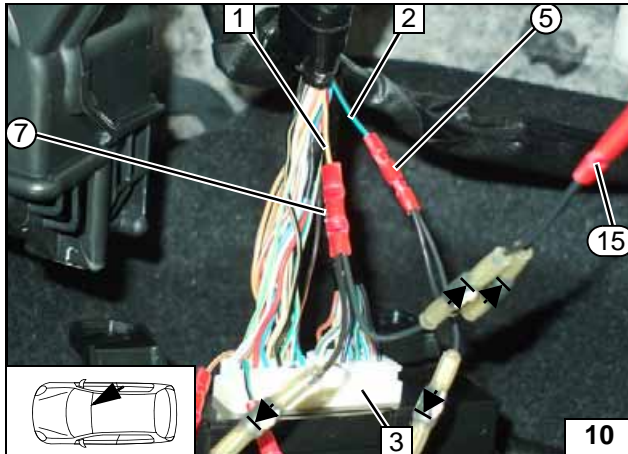
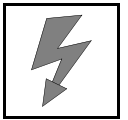


The diode group installed in the vehicle is shown here dismantled to provide a better view.



Add two diodes with shrinkable butt connectors (5), (7) and (15) to diode group D1 as shown. Watch direction of flow of diodes.

**Expanding / assigning diode group in passenger compartment**



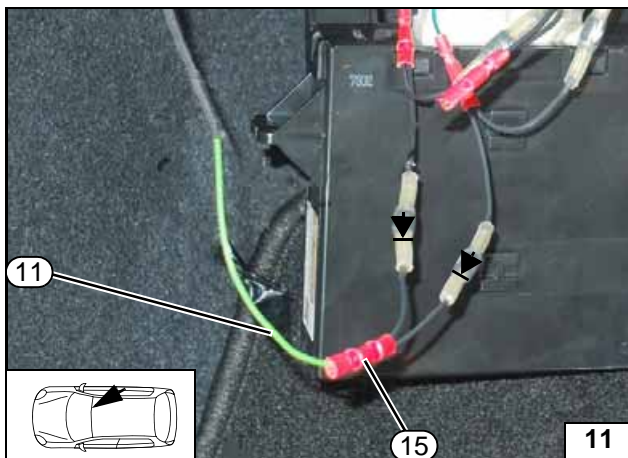
The A/C booster is dismantled to provide a better view.



Shrink the butt connector after the installation.

- 1 Yellow/red (ge/rt) wire of fuse F9
- 2 Green/black (gn/sw) wire of fuse F8
- 3 26-pin connector i80 of A/C booster

**Connect-  
ing fuses  
F8 and F9**

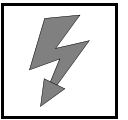


The A/C booster is dismantled to provide a better view.

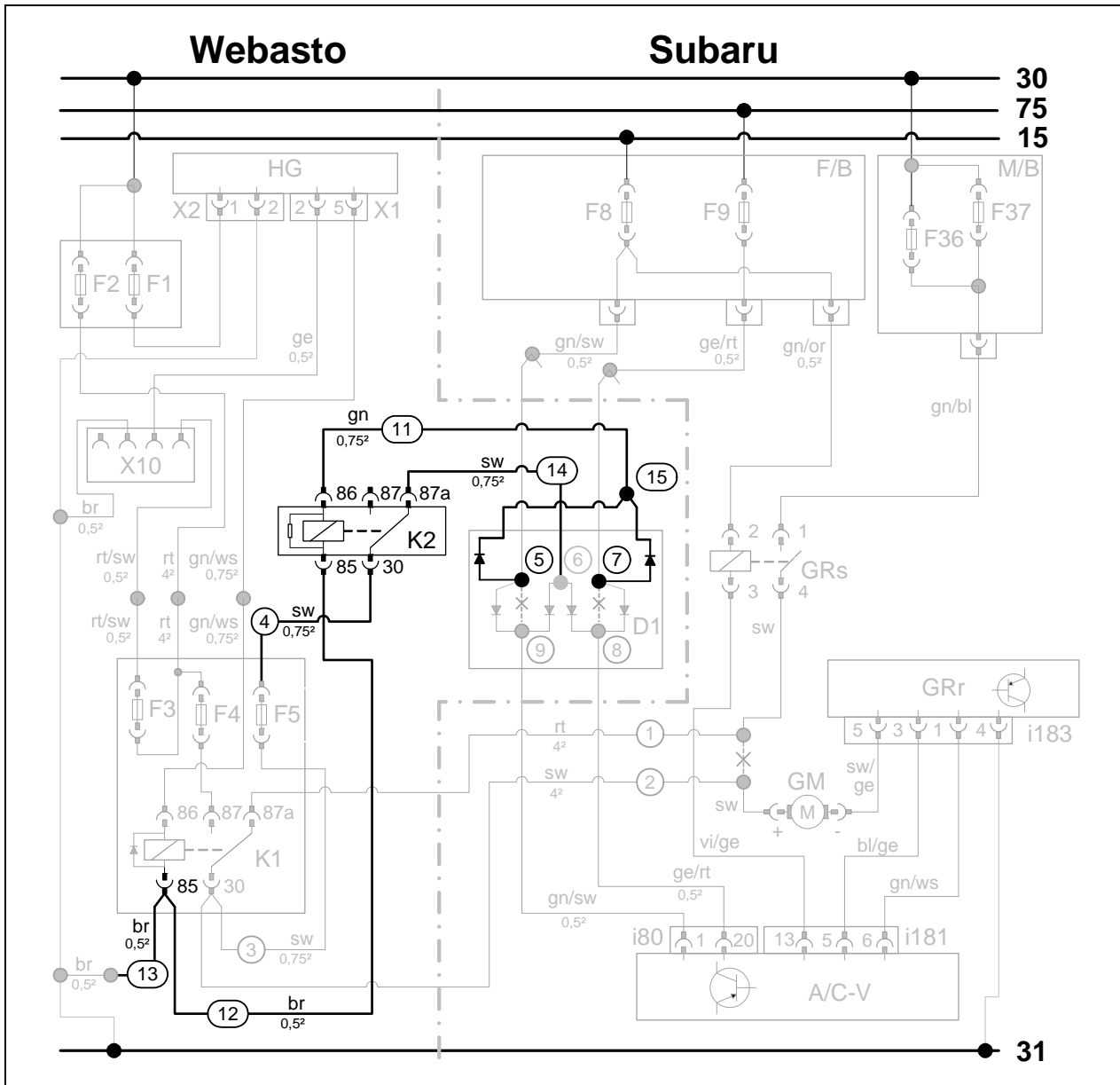


Shrink the butt connector after the installation.

**Connect-  
ing diode  
group**



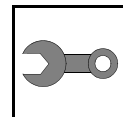
Fan Controller Wiring Diagram



Automatic air-conditioning wiring diagram

Webasto components		Vehicle components		Colours and symbols	
HG	TT-Evo heater	F/B	Passenger compartment fuse box	rt	red
X1	6-pin heater connector	F8	15A fuse	ws	white
X2	2-pin heater connector	F9	7.5A fuse	sw	black
F1	20A fuse	M/B	Engine compartment fuse box	br	brown
F2	30A fuse	F36	15A fuse	gn	green
X10	4-pin connector of heater control	F37	15A fuse	bl	blue
K2	Isolating relay	GRr	Fan controller	ge	yellow
F3	1A fuse	i183	5-pin connector of GRr	vi	violet
F4	25A fuse	GRs	Fan relay	or	orange
F5	3A fuse	GM	Fan motor		
K1	Fan relay	A/C-V	A/C booster		
D1	Diode group	i80	26-pin connector of A/C-V		
		i181	24-pin connector of A/C-V		
				X	Cutting point
				Wiring colours may vary.	

Legend



### Final Work



Reassemble the components in reverse order.  
Verify that all electrical connections are tightly fitted. Insulate loose wire ends and tie back.

- **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.**

