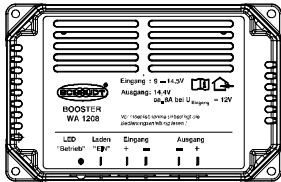


# WA 1208 Operating and Installation Instructions



## 1 Operating Instructions

### 1.1 Introduction

This instruction manual contains important information for the safe operation of equipment supplied by Schaudt. Make sure you read and follow the safety instructions provided.

The instruction manual should always be kept in the vehicle. All safety information must be passed on to other users.

### 1.2 Operation

The WA 1208 booster increases the charging voltage available in the caravan to up to 14.4V, meaning the caravan battery undergoes perfect charging when moving. It does not have any controls.



- ▲ For the functionality described below, it is a requirement that the 13-pin connector plug on the towing vehicle is assigned in accordance with EN 1648-1. Also refer to the circuit diagram in Section 2.2.

It works as follows:

#### Function

- Hook up the caravan to the towing vehicle and plug the caravan connector into the vehicle.
- Switch on the ignition and start the engine.
  - The 12 V supply voltage from the towing vehicle supplies the booster. The green LED on the booster is ON.
  - This increases the voltage to 14.4 V. A battery connected to the booster in the caravan is charged with up to 9 A.
- Switch off the ignition.
  - The 12 V supply voltage from the towing vehicle is isolated from the caravan by the booster.
  - The green LED on the booster is OFF.



- ▲ The 13-pin connector plug on the caravan is automatically dead if it is pulled out of the socket on the towing vehicle. This prevents the caravan battery from discharging as a result of leakage currents.



#### ▲ ATTENTION!

As long as the ignition on the towing vehicle is switched on, the booster is active and the caravan battery is therefore charged. This discharges the towing vehicle battery.

This is why, when the vehicle is stationary and the caravan is plugged in, the ignition may not stay on for a long period of time without the engine running.

## 1.3 Faults

### Flat vehicle fuses

The majority of power supply system faults are caused by blown fuses.

Please contact our customer service department if you cannot rectify the fault using the following table.

Fault	Possible cause	Remedy
LED on the booster is not ON when the ignition is switched on although the caravan is hooked up and the connector on the towing vehicle is plugged in.	No 12V supply.	Check the socket assignment on the towing vehicle: → Contact a car workshop Check the connector assignment on the caravan: → Contact a dealer
	Cabling between caravan and booster connector plugs defective.	Check cable and plug connector, and replace/repair as necessary
	One of the fuses is defective.	Check the fuses and swap out the defective one.
	Booster defective	Replace the booster
LED on the booster is ON but the caravan battery does not charge.	Cabling between booster and battery defective.	Check cable and plug connector, and replace/repair as necessary
	One of the fuses is defective.	Check the fuses and swap out the defective one.
	Booster defective	Replace the booster

## 1.4 Maintenance

The booster does not require maintenance.

## 2 Installation instructions

### 2.1 Mechanical installation

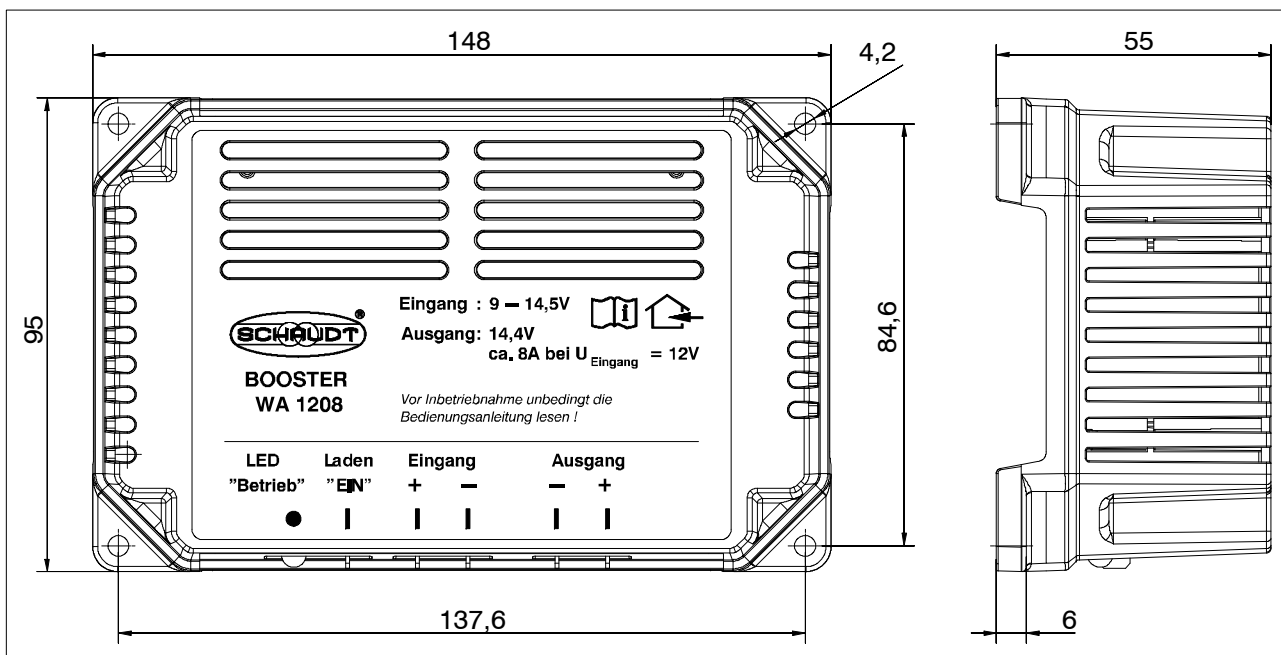


Fig. 1 Dimension diagram of the WA 1208 booster

**Environment** ➤ Install in a dry, sufficiently ventilated location.

- Minimum clearance** ➤ Ensure a minimum clearance to the surrounding fixtures and fittings:
- Maintain a gap of at least 5cm on all sides (except mounted side).
  - Ensure cables are routed properly.
  - The ambient temperature may not exceed +40 °C during operation.



**▲ ATTENTION!**

There is a risk of overheating when the required gaps are not adhered to or when ventilation slits are covered.

**Fitting** Firmly screw the booster into place:

- Secure the booster with two screws (diameter 3 mm) on an even surface (any installation position).

## 2.2 Electrical connection



**▲ ATTENTION!**

To prevent damage in the event of a fault, fuses must be inserted as in Fig. 2 depending on the cable cross-section (EN 1648-1 and 2).

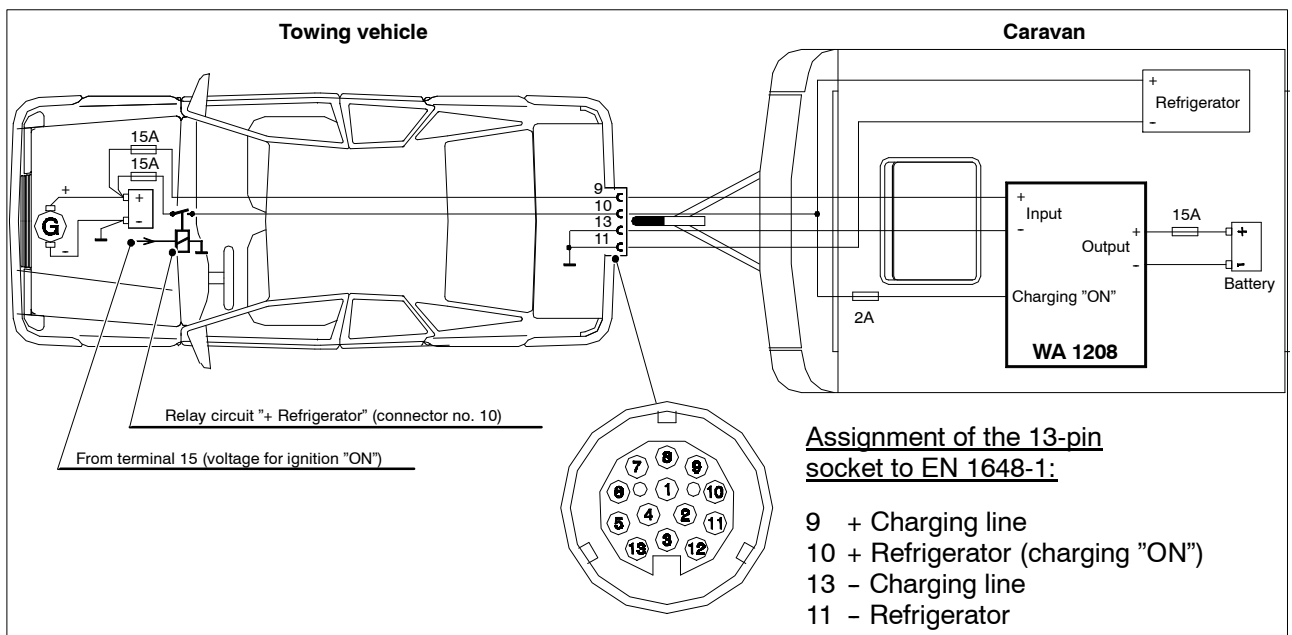


Fig. 2 Block diagram of WA 1208 connection

**Connection material** Required for the connection:

- 2 fuse holders
- 1 x 2A fuse, 1 x 15A fuse
- Insulated flat push-on contacts, 6.3 mm red (0.3...1.5 mm<sup>2</sup>) and blue (1.0...2.5 mm<sup>2</sup>)
- Add-on relay in the towing vehicle if necessary (accessory, Schaudt part no. 922.050)
- Cable (recommended: 0.75 mm<sup>2</sup> and 2.5 mm<sup>2</sup>)

- Connection**
1. Disconnect the caravan battery (remove the terminals).
  2. Establish the electrical connections as in Fig. 2. Note:
    - Select cable cross-sections and fuses in accordance with EN 1648-1. Recommendations:
      - + and - caravan connector on the booster input: 2.5 mm<sup>2</sup>
      - + and - booster output on the caravan battery: 2.5 mm<sup>2</sup>
      - Charging "ON": 0.75 mm<sup>2</sup>
    - Mount the fuses near the voltage source:
      - + Caravan battery: 15 A on the positive terminal of the caravan battery
      - + Charging line of car: 15 A (must be installed in the car)
      - Charging "ON" (+ Refrigerator): directly at the point of common coupling

## 2.3 Technical details

### 2.3.1 Mechanical details

<b>Dimensions</b>	ca. 130 x 89 x 48 (W x D x H in mm)
<b>Weight</b>	approx. 270 g
<b>Casing</b>	Plastic, blue with screenprint

### 2.3.2 Electrical details

<b>Input voltage</b>	for 12V DC systems (9 to 14.5 V)
<b>Suitable batteries</b>	6-cell lead acid or lead gel batteries, 35 Ah and above
<b>End-of-charge voltage</b>	14.4 V
<b>Charge current whilst moving</b>	Charging of the caravan battery by the towing vehicle alternator with typically 8 A for an input voltage of 12 V (between 7 and 9 A depending on the input voltage and charge state of the caravan battery)
<b>Back current from caravan battery when ignition is "OFF"</b>	Less than 0.5 mA, after the device has cooled down
<b>Input bias current when the ignition is "OFF"</b>	0 mA, for wiring as in EN 1648-1 (see also Fig.

### 2.3.3 Environmental parameters

<b>Operating temperature</b>	-10 °C to +40 °C
<b>Storage temperature</b>	-20 °C to +70 °C
<b>Humidity</b>	Operation in dry environment only
<b>CE</b>	CE marked