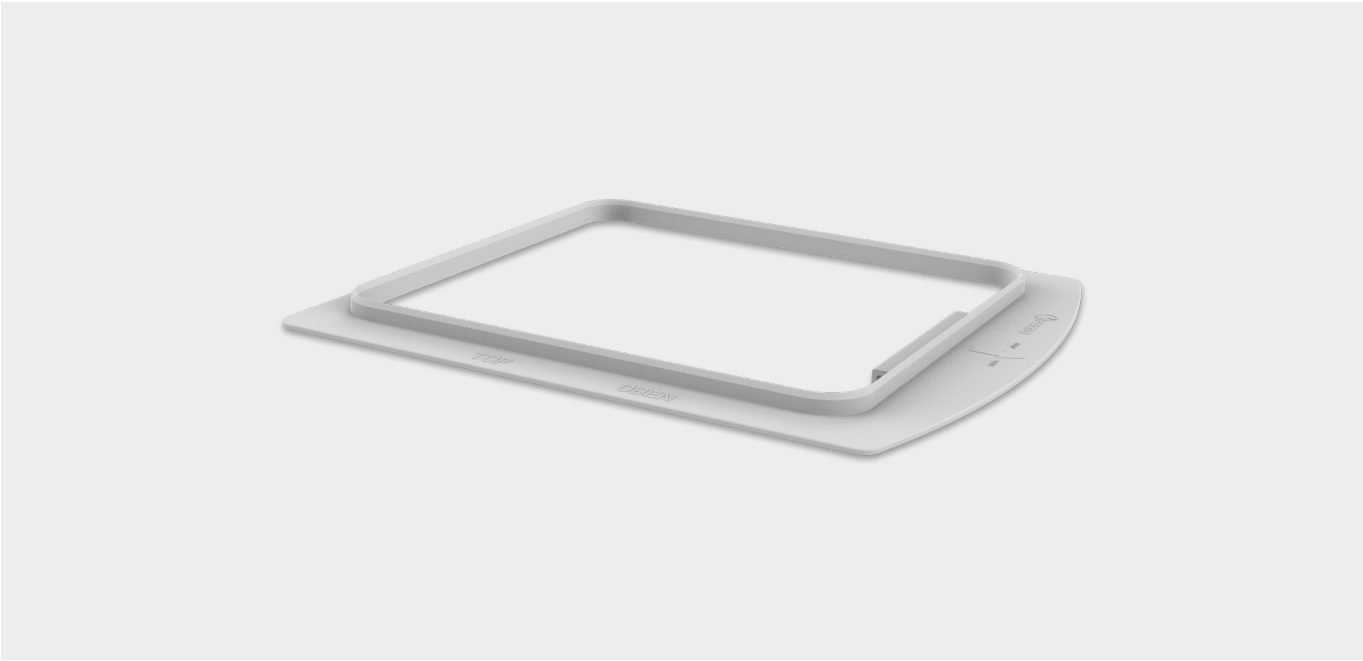
Sealing Frame Kit 360 x 360 mm Aventa AU



AU **Installation Instruction**

More comfort on the move

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1 About these instructions

1.1 Document number

The document number of the instructions can be found in the footer on every page and on the back page.
The document number consists of

- Part number (10 digits)
- Revision status (2 digits)
- Publication date (month/year)

1.2 Validity

These instructions are intended for the sealing frame kit 360 x 360 mm Aventa AU.

1.3 Target group

These instruction are intended for experts.

Only competent, trained personnel (experts) may install and repair the Truma product and carry out the function check with consideration of the installation and operating instructions and the current recognised rules of engineering. Experts are persons who, based on their professional training, their knowledge of and experience with Truma products and the relevant standards, are able to carry out the required work properly and recognise potential hazards.

1.4 Supporting documents

Installation and operating instructions for the air conditioning unit to be installed.

1.5 Symbols and means of representation

Symbol	Meaning
	Warning regarding dangers for persons
	Expert
	Additional information
▶	Symbol for an action step: Something must be done here. In case of several measures, observe the correct sequence
*	Optional parts
(Fig. 3-1)	See figure 3 - number 1

1.6 Warning

In these instructions, warnings are used to warn about material damage and injury to persons.

- ► Always read and observe warnings.
- ► Observe all measures that are marked with the warning symbol and signal word.

Signal word	Meaning
DANGER	Danger for persons. Failure to observe will result in serious injury or death.
WARNING	Danger for persons. Failure to observe could result in serious injury or death.
CAUTION	Danger for persons. Failure to observe could result in minor injury.
NOTICE	Information to prevent material damage, to help readers understand the instructions better or to optimise the work flows.

1.7 Safety instructions for experts

Below are some additional safety instructions to draw experts' attention to particular dangers associated with installing and repairing Truma products.

- ► Read and observe the following information to protect yourself and your surroundings.

Installation, dismantling and repair work must comply with the local conditions and regulations and the recognised rules of engineering.

- ► Observe statutory accident prevention regulations.
- ► Observe personal protective equipment regulations.
- ► Observe statutory environmental protection regulations.
- ► If applicable, observe regulations for occupational insurance schemes.

1.7.1 Equipment safety

Information may be attached to appliances.

- ► Observe information attached directly to the appliance.
- ► Keep the attached information in a legible condition at all times and do not cover it.

Safety devices may be attached to appliances.
Risk of injury if the safety device is missing or faulty.

- ► After installation make sure that all safety devices (covers, safety instructions, earth cable, etc.) are present.
- ► Replace faulty and unusable safety devices.

1.7.2 Original spare parts

Using parts (additional components, spare and wearing parts) outside the manufacturer's specifications may affect the function and safety of the appliance, damage the vehicle and/or limit the warranty and manufacturer's liability.

- ► Use only original components, spare and wearing parts from Truma Gerätetechnik GmbH & Co KG.

2 Purpose

2.1 Intended use

The sealing frame kit is intended for the installation of an Aventa air conditioning unit in a caravan or motor caravan.
The sealing frame is suitable for vehicles with a frame construction in the roof and requires a roof cut-out with the dimensions 360 mm x 360 mm.

2.2 Inappropriate use

All uses other than those listed under intended use are unauthorised and therefore not permitted.

3 Scope of delivery

- 1 x sealing frame 360 x 360 mm (Fig. 1-1)
- 2 x mounting brackets right/left (Fig. 1-2)
- 2 x mounting plates right/left (Fig. 1-3)
- 4 x countersunk screws M6 x 20 (Fig. 1-4)
- 2 x foam rubber sheets (Fig. 1-5)

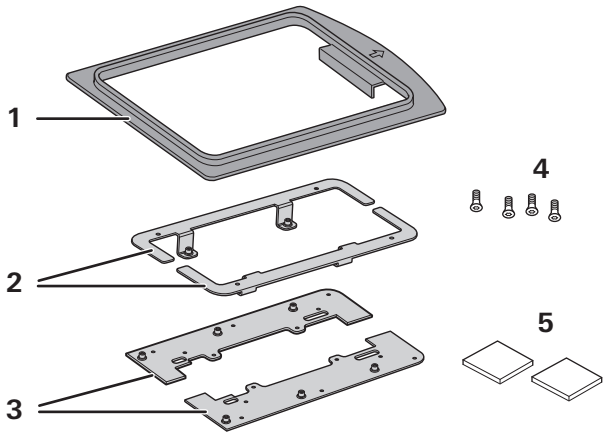


Fig. 1

4 Installation

The adapter kit is suitable for installation cut-outs from 350 x 350 mm to 370 x 370 mm.
The minimum permitted roof thickness is 35 mm.
The roof-mounted air conditioning unit is installed in accordance with the relevant installation instructions.

4.1 Additional material

The following parts are required for installation:

- Non-hardening, removable sealant (e.g. Terostat 2759)
- Screw sealant (Loctite)
- 4 retaining screws (described below)
- 4 countersunk screws (described below)

4.1.1 Retaining screws

The air conditioning units is held in place with 4 M6 retaining screws. These retaining screws are not part of the delivery, as the length of the screws depends on the thickness of the roof.
The screws must have a hexagonal head and structural grade of 8.8.
The screw length is calculated as follows:
Screw length [mm] = roof thickness [mm] - 15 mm

4.1.2 Countersunk screws

The mounting plates are fixed to the roof of the vehicle with 4 countersunk screws. As a result, the air distributor inside sits flush with the roof of the vehicle.
These countersunk screws are not part of the delivery, as the length of the screws depends on the thickness and material of the roof.

4.2 Special information for installation

4.2.1 Regulations

The rules in the installation and operating instructions as well as the relevant laws, guidelines and standards must be observed. If the regulations are not observed, the operating permit for the appliance becomes void and, as a result, the vehicle may also not be operated in some countries.

DANGER
Personal injury and material damage
Ignoring the installation regulations and/or incorrect installation may cause personal injury and/or material damage.
For example, the air conditioning unit could loosen from the vehicle roof while driving.
► Observe the installation instructions.

4.3 Checking the installation position

► Check the space around the air conditioning unit on the vehicle roof. See air conditioning unit installation instructions.

ⓘ For the Aventa, there must be a gap around the external unit of 20 mm to the front and 100 mm to the sides. The gap at the back must be at least 30 mm. Truma recommends a 200-mm gap so that the exhaust air can blow out freely.

► Check the space for the air distributor inside the vehicle. See air conditioning unit installation instructions.

► Plan the cable laying for the power supply. See air conditioning unit installation instructions.

4.4 Preparing the installation cut-out

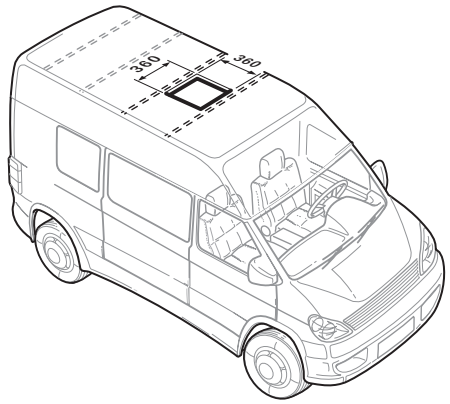


Fig. 2

- ► Remove the existing skylight.
- ► If necessary, enlarge the cut-out.
- ► Remove adhesive residue and sealing material.
- ► Remove unevenness.

ⓘ The sealing surface must be free of oil, grease and other contaminants.

- ► Fill recesses or holes in the installation cut-out with body sealant.

4.5 Preparing the air conditioning unit

NOTICE

Damage to the cooling system from tipping or turning

Parts of the air conditioning system can loosen from the bracket.

- ► Tip the air conditioning unit no more than 90°.
- ► Do not turn the air conditioning unit upside down.
- ► When installing, place the air conditioning unit in a horizontal position on the roof.

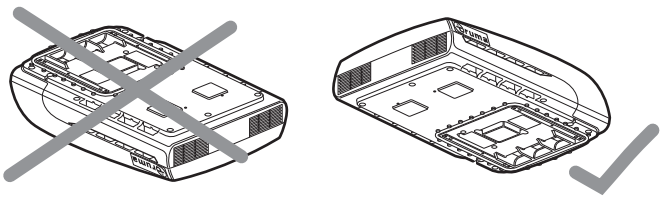


Fig. 3

- ► Remove the sealing profile from the air conditioning unit (Fig. 4).
- ► Degrease the surfaces of the foam rubber sheets.
- ► Glue the supplied foam rubber sheets to both the existing foam rubber sheets (Fig. 4). Remove the protective film from the self-adhesive foam rubber sheets.

ⓘ The additional foam rubber sheets balance out the height of the sealing frame and the air conditioning unit sits flush on the roof.

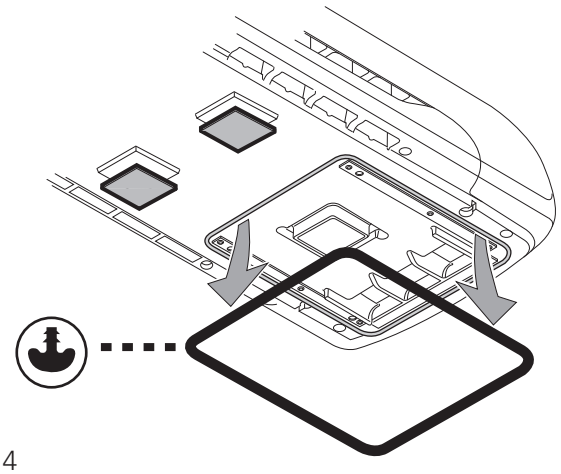


Fig. 4

- ► Attach the right and left mounting brackets (Fig. 5-2) to the metal strips of the air conditioning unit (Fig. 5-1) with the 4 supplied M6 x 20 countersunk screws (Fig. 5-3).

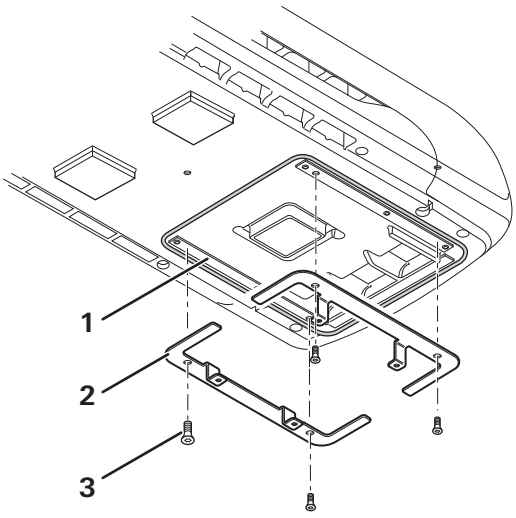


Fig. 5

- ► Tighten the 4 M6 x 20 countersunk screws (Fig. 5-3) with a torque of 1.8 Nm.

4.6 Attach the sealing frame

- ► Apply non-hardening, removable sealant (e.g. Terostat 2759) to the groove on the bottom of the sealing frame with a maximum thickness of 1 cm.
- ► Observe the manufacturer's usage instructions.

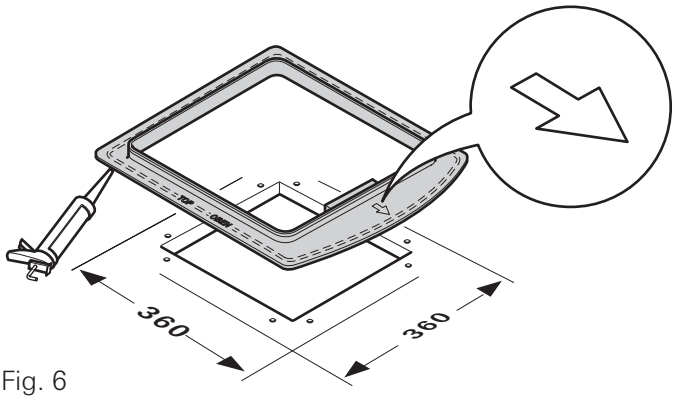


Fig. 6

- ► Place the sealing frame in the cut-out. Make sure that the engraved arrow points in the driving direction.
- ► Use a cloth to remove excess sealant that is pressed out. Observe the cleaning and removal rules for the sealant.

ⓘ Do not allow the sealant to harden, as the air conditioning unit still has to be aligned in the next step.

4.7 Positioning the air conditioning unit

NOTICE

Damage to the air conditioning unit due to improperly applied sealant

If the air conditioning unit is fixed in place with sealant incorrectly, it cannot be dismantled or replaced later without being damaged.

- ► Do not apply sealant to the groove of the air conditioning unit (sealing profile).
- ► Keep the air conditioning unit free of sealant.

- ► Lay the cable for the power supply. See air conditioning unit installation instructions.
- ► Place the air conditioning unit on to the sealing frame from above. The all-round strip of the sealing frame must slide into the groove of the air conditioning unit which previously contained the rubber seal (Fig. 7). The air conditioning unit must lock in place and sit firmly in the sealing frame.

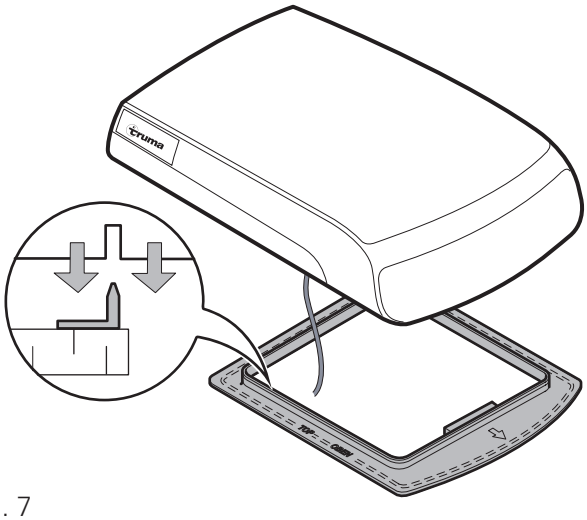


Fig. 7

- ► Straighten the air conditioning unit with the sealing frame carefully on the roof while the sealant is still flexible.

4.8 Screwing the air conditioning unit in place

► Apply screw sealant with a low strength (e.g. Loctite) to the threads of the 4 retaining screws (not supplied).

► Position the right and left mounting plates (Fig. 8-2) on the mounting bracket (Fig. 8-1) so that the engraved arrow (Fig. 8-4) on the mounting plates points in the driving direction.

► Fix the mounting plates in place with the 4 retaining screws (Fig. 8-3) and tighten the screws hand-tight.

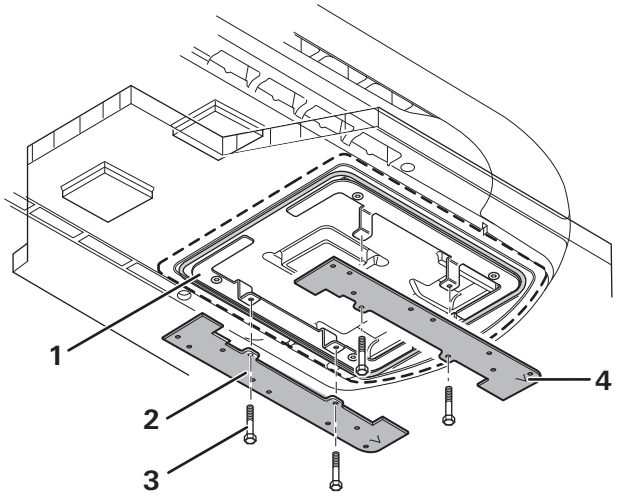


Fig. 8

► Screw the two mounting plates (Fig. 9-1) with 4 suitable countersunk screws (Fig. 9-2) (not supplied) to the ceiling.

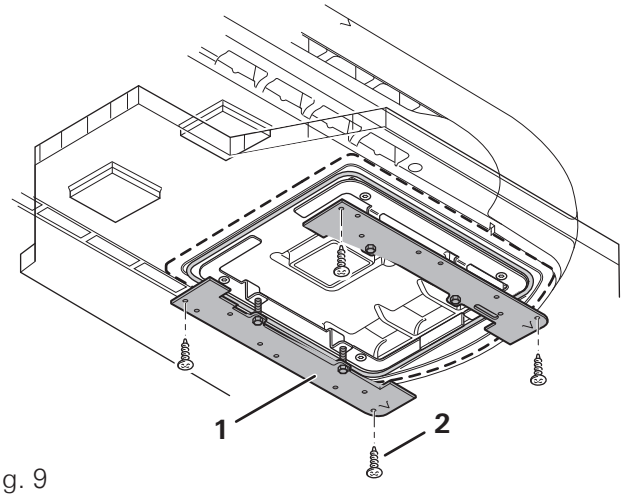


Fig. 9

► Then tighten the 4 retaining screws (Fig. 8-3) with a torque of 1.8 Nm.

► Carry out the other work steps, such as connecting the power supply, attaching the air distributor, etc. in accordance with the installation instructions for the air conditioning unit.

4.9 Finishing work

4.9.1 Leak check

ⓘ Carry out a leak check only when the sealant is completely hard and bonded, observing the manufacturer's usage instructions.

► With a garden hose (watering can, bucket), pour clear water on to the roof of the vehicle around the air conditioning unit. Check inside the vehicle for leaks.

4.9.2 Air conditioning unit function test

ⓘ If the appliance was not in a horizontal position at any time during installation, wait 2 hours before switching on the appliance.

► Check all functions of the appliance according to the operating instructions.

4.9.3 Documents

► Hand over the operating instructions to the user or owner of the vehicle.

In Australia, always notify the Service Australia if problems are encountered; in other countries the relevant service partners should be contacted (www.truma.com).

Having the equipment model and the serial number ready (see type plate) will speed up processing.

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