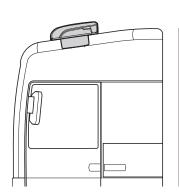
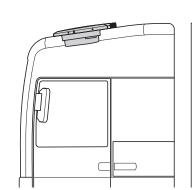
^> DOMETIC

CLIMATE CONTROL COOLAIR





RTX1000, RTX2000, SPX1200T

EN	Assembly kit for MAN Installation Manual	RU	Монтажн Инструкция
DE	Montagesatz für MAN Montageanleitung17	PL	Zestaw m Instrukcja m
FR	Kit de montage pour MAN Instructions de montage31	SK	Montážn a Návod na m
ES	Juego de montaje para MAN Instrucciones de montaje 45	CS	Montážn Návod k mo
PT	Kit de montagem para MAN Instruções de montagem 59	HU	Szerelőko MAN
IT	Set di montaggio per MAN Indicazioni di montaggio 73		Szerelési út
NL	Montageset voor MAN Montagehandleiding 87		
DA	Monteringssæt til MAN Monteringsvejledning101		
sv	Monteringssats för MAN Monteringsanvisning114		
NO	Monteringssett for MAN Monteringsanvisning		
FI	Asennussarja malleihin MAN Asennusohje		

IJ	Монтажный комплект для MAN Инструкция по монтажу
ı	Zestaw montażowy do MAN Instrukcja montażu

SK	Montážna súprava pre MAN		
	Návod na montáž 181		

CS	Montážní sada pro vozídla MAN
	Návod k montáži

HU	Szerelőkészlet a következőkhöz: MAN
	Szerelési útmutató207

Original instructions

Please read this instruction manual carefully before installation and first use, and store it in a safe place. If you pass on the product to another person, hand over this instruction manual along with it.

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1 Explanation of symbols



DANGER!

Safety instruction: Indicates a hazardous situation that, if not avoided, will result in death or serious injury.



WARNING!

Safety instruction: Indicates a hazardous situation that, if not avoided, could result in death or serious injury.



CAUTION!

Safety instruction: Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.



NOTICE!

Indicates a situation that, if not avoided, can result in property damage.



NOTE

Supplementary information for operating the product.

2 Safety instructions

The manufacturer accepts no liability for damage in the following cases:

- Faulty assembly or connection
- Damage to the product resulting from mechanical influences and incorrect connection voltage
- Alterations to the product without express permission from the manufacturer
- Use for purposes other than those described in the operating manual

2.1 Using the device

- Only use the parking cooler for the purpose specified by the manufacturer and do not make any alterations or structural changes to the device.
- Do not use the parking cooler if it is visibly damaged.
- The parking cooler must be installed safely so that it cannot tip over or fall down.
- Installation, maintenance and repair work may only be carried out by qualified personnel from a specialist company who are familiar with the risks involved and the relevant regulations.

- Do not use the parking cooler near flammable fluids and gases.
- Do not operate the parking cooler if the ambient temperature is below 0 °C.
- Do **not** undo the upper cover of the parking cooler in the event of a fire. Use approved extinguishing agents instead. Do not use water to extinguish fires.
- Please inform your vehicle manufacturer if the height entered in your vehicle documents needs to be altered due to the installation of the parking cooler.
 - RTX1000/2000 height: 197 mm
 - SPX1200T height: 60 mm
- Disconnect all power supply lines when working on the parking cooler (cleaning, maintenance, etc).

2.2 Handling electrical cables

- Use cable ducts to lay cables through walls with sharp edges.
- Do not lay loose or bent cables next to electrically conductive materials (metal).
- Do not pull on the cables.
- Attach and lay the cables in such a manner that they cannot be tripped over or damaged.
- The electrical power supply may only be connected by a specialist workshop.
- The device shall be installed in accordance with national wiring regulations.
- The connection to the vehicle's electrical system should be protected as follows:
 - power supply: 40 A
 - voltage monitor: 2 A
- Never lay power supply lines (battery leads) in the vicinity of signal or control cables.
- Fasten loose cables and plugs by appropriate means (e. g. cable binder) to avoid rattling.

3 Target group

This installation manual contains the essential information and instructions for installing the parking cooler. It is intended for competent installer technical staff who are familiar with the guidelines and safety precautions to be applied when installing lorry accessories.

This installation manual should always be kept with the unit to which it relates.

4 Intended use



NOTICE!

- The parking cooler is **not** suitable for installation in construction machines, agricultural machines or similar equipment. They will not work properly if exposed to strong vibrations.
- Operating parking cooler with voltages other than those specified can result in damage to the devices.

4.1 RTX 1000, RTX 2000

The installation kit enables the installation of a CoolAir RTX 1000 or RTX 2000 parking cooler in a roof ventilation opening (hatch) provided at the plant in a MAN TG driver cab (except TGX XLX with roof spoiler).

4.2 SPX 1200T

The installation kit enables the installation of a CoolAir SPX 1200T roof evaporator in a roof ventilation opening (hatch) provided at the plant in a MAN TG driver cab.

5 Scope of delivery

CoolAir RTX1000, RTX2000/SPX1200T installation kit for MAN

Item in fig. 1	Part designation	Quantity
1	Thread insert with flange M8 (RTX only)	8
①	Spacer sleeve RTX: $L = 40 \text{ mm}$, $\emptyset 14 \text{ mm}$ SPX: $L = 18 \text{ mm}$, $\emptyset 14 \text{ mm}$	8
3	Thread insert with flange M6 (RTX only)	4
4	MAN underlay strip	4
5	Washer 8.5 x 20	8
6	Spring washer M8	8
①	Hex screw RTX: M8 x 60 SPX: M8 x 45	8
8	Spacer sleeve L = 40 mm , $\varnothing 10 \text{ mm}$	8
9	Spacer sleeve L = 20 mm , $\varnothing 10 \text{ mm}$ (RTX only)	4
(10)	Cover frame MAN Grey Beige	1
11)	Washer M6	4
1	Allen screw with cylindrical head RTX: M6 x 115 SPX: M6 x 100	4
(3)	2.5 m insulating tape RTX: 35 x 20 mm SPX: 10 x 20 mm	1
(3)	Connection cable 11m_NV	1
14)	Cable binder	20
(15)	Maxi Fuse 40 A	1
16	Maxi Fuse holder AWG10	1
17)	Blade fuse, 2 A	1
18	Fuse holder AWG16	1
19	1/4" hexagon bit	1
_	Installation manual	1

6 Installation



CAUTION!

Incorrect installation of the parking cooler may place the safety of the user at risk.

The manufacturer accepts no liability whatsoever for personal injury or property damage if the parking cooler is not installed according to this installation manual.



NOTICE!

- The parking cooler may only be installed by qualified personnel from a specialist company. The following information is intended for technicians who are familiar with the guidelines and safety precautions to be applied.
- The manufacturer only assumes liability for parts included in the scope of delivery. The validity of the warranty expires if the device is installed together with third-party parts.
- Check whether the roof of the vehicle is able to support the weight of a person before climbing onto it. Ask the vehicle manufacturer about the permitted roof loads.

6.1 Notes on installation

The following tips and guidance should be followed when installing the parking cooler:



WARNING! Electric shock hazard

Before carrying out any work on electrically operated components, make sure that they are disconnected from the power supply.

Before installing the parking cooler, disconnect all connections to the vehicle battery.

- Before installing the parking cooler, check whether any vehicle components could be damaged or have their function impaired as a result of the installation.
 - Check the dimensions of the system to be installed (fig. 2). The dotted line indicates the middle of the roof hatch opening.
- The top cowl of the parking cooler can be painted (fig. 3). The
 manufacturer recommends that the painting is done by a specialist paint
 shop.
- The downward slope of the roof in forward direction in the area where the unit is installed must not be more than:
 - RTX1000: 8°RTX2000: 20°SPX1200T: 17°
- The assembly parts supplied must not be modified during installation.

8

- The ventilation openings must not be covered over (minimum distance from other external attachments: 100 mm).
- Follow the platform guidelines (www.manted.de) when installing the system and establishing the electrical connections.



NOTE

After installation of the system, the pre-set parameters on the system software must be checked (chapter "Configuring the system software" on page 13).

6.2 Removing the roof hatch

Proceed as follows (fig. 6):

- ➤ Remove all screws and fixings for the existing roof hatch.
- ➤ Take out the roof hatch.
- ➤ Remove the sealant around the opening so that the surface is clean and free of grease.



NOTE

Dispose of all waste material, glue, silicon and seals separately. When doing so, follow the waste disposal requirements applicable in your local area.

6.3 Preparing the unit fixings

➤ Drill out the 8 factory-made holes to a diameter of 8.5 mm (fig. **7**).

6.4 Preparing the unit (RTX 1000/2000 only)



NOTICE!

When preparing the unit on the work surface, make sure it is secured against falling off.

Make sure that the work surface is clean and level to ensure that the unit is not damaged.

Proceed as follows (fig. 8):

- ➤ Place the parking cooler on a work surface with the casing facing down.
- ➤ Screw the 8 self-tapping M8 threaded plugs into the blind holes marked "1". To do so, use the 1/4" bit supplied.
- ➤ Screw the 4 self-tapping M6 threaded plugs into the blind holes marked "7". Use a 5 mm hexagon bit to do so.

6.5 Attaching the seal for the cab roof



NOTICE!

Ensure that the surface where the seal between the unit and the cab roof is to be glued is clean (free of dust, oil, etc.).

- ➤ Glue the sealing strip to the cab roof (fig. 9 A).
 Follow the contour of the roof hatch opening. The join between the ends of the seal shall be at the short side.
- ➤ Apply a flexible, non-hardening butyl sealant (e.g. SikaLastomer-710) to the join between the ends of the sealing strip and to the top edge of the sealing strip (fig. 9 B).

6.6 Fitting the unit in the roof hatch



CAUTION! Risk of injury

Only install the unit in support of e. g. second person, crane, working platform. The work safety must be guaranteed at all times.

➤ Place the parking cooler centrally and facing forwards in the roof hatch opening (fig. 10).



NOTE

Once the unit is in position on the vehicle roof, the seal should make contact all the way round. Only then can a reliable seal be achieved.



NOTICE!

Do not exceed the specified tightening torque under any circumstances. That is the only way to ensure that the threaded plugs are not pulled out.

Fix the parking cooler in place as illustrated (fig. 11).

6.7 Routing the electrical power supply leads



DANGER!

For EX/III and FL vehicles (according to ADR guideline), a battery master switch must be installed.



WARNING!

- The electrical connections may only be made by competent technical staff with the appropriate specialist knowledge.
- Before carrying out any work on electrically operated components, make sure that they are disconnected from the power supply.



NOTICE!

- The connection to the vehicle's electrical system should be protected by a 40 A fuse for the power supply and a 2 A fuse for the voltage monitor.
- The battery must be capable of supplying the required current and voltage (chapter "Technical data" on page 16).
- Route the power supply lead stressless and secure it with cable binders in appropriate intervals.

Connect the unit directly to the battery.

When doing so, you should also follow the vehicle manufacturer's guidelines.

Route the power supply lead as illustrated (fig. 12):

- ➤ Feed the wiring loom to the left through the roof cupboard to the A-pillar.
- ➤ Run the wiring loom downwards to the cab's coupling joint (preferably along the roof hatch drain hose) and along the existing wiring under the front flap to the outside.
- ➤ Run the wiring loom to the battery compartment along a route where it is protected.
- ➤ Connect the power supply negative lead (black) to the battery negative terminal as illustrated.
- ➤ Connect the voltage monitor negative lead (black) to the battery negative terminal as illustrated.



NOTE

Place the fuse holder no more than 0.3 m from the positive terminal of the battery.

- ➤ Connect the power supply positive lead (red) to the battery positive terminal as illustrated via a 40 A fuse.
- ➤ Connect the voltage monitor positive lead (red) to the battery positive terminal as illustrated via a 2 A fuse.
- Connect the wiring loom to the unit and fix with a cable tie in a suitable position (fig. 12 2.).