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FUTURE REFERENCE:

Model Number _____

Date Purchased _____

HEKI 4 SKYLIGHTS

H4DOM1342XXXX (HEKI 4)

SERVICE OFFICE:

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WARNING

This manual must be read and understood before installation, adjustment, service, or maintenance is performed. This unit must be installed by a qualified service technician. Modification of this product can be extremely hazardous and could result in personal injury or property damage.

AVERTISSEMENT

Lire et comprendre ce manuel avant de procéder à l'installation, à des réglages, de l'entretien ou des réparations. L'installation de cet appareil doit être effectuée par un réparateur qualifié. Toute modification de cet appareil peut être extrêmement dangereuse et entraîner des blessures ou dommages matériels.

INSTALLATION INSTRUCTIONS

H4DOM1342XXXX

Installation instructions of the HEKI4 rooflight

before installing the HEKI4 rooflight, please read carefully the installation instructions.

1. Prerequisite for a correct installation of the HEKI4 rooflight is a flat inner and outer surface of the roof which are collateral (HEKI4 rooflight cannot be installed on a vertical surface)
2. The area where the rooflight is to be installed has to be selected in such a way, that the function of adjacent components, cables, fitted cupboards in the vehicle interior, roof railings or other reinforcing components is not impaired in any way.(follow the guidelines of the vehicle manufacturer)
3. The installation is possible either transversally (hinged side in front in the direction of travel) or longitudinally (hinged side either left of right relative to the direction of travel).
4. To avoid damage to the roof wall, the cut-out must be sturdy (for example reinforced with wooden or tubular frames - not included in the package)
5. We recommend the installation of the Seitz spoiler. Without the spoiler, the maximum speed of 130km/h should not be exceeded, otherwise, depending on the construction of the vehicle or the positioning of the rooflight, wind noise or material fatigue could arise.
6. The HEKI4 rooflight is ideal for a roof thickness between 25 and 60 mm.
7. Check the roof thickness of your vehicle. In the package are included 16 mounting blocks and 16 screws (size 4x25 for a roof thickness of 25-32mm). (For a roof thickness over 32mm up to a maximum of 60mm, the corresponding, commercially available installation set must be used.)
8. For the illumination of the HEKI4 rooflight, a 12 Volt power supply, which must be secured by a fuse of at least 10 Amperes, should be available in the vehicle in the middle of one of the two long sides. *Electrical connections are to be carried out only by trained personnel.*
9. **Installation steps**
 - 9.1 Determine location of cut-out
 - 9.2 Execute the cut-out
 - 9.3 Reinforce and check cut-out
 - 9.4 Install HEKI4 outer frame
 - 9.5 Connect HEKI4 inner frame illumination
 - 9.6 Install HEKI4 inner frame and connect 12 Volt supply.
 - 9.7 Check all functions



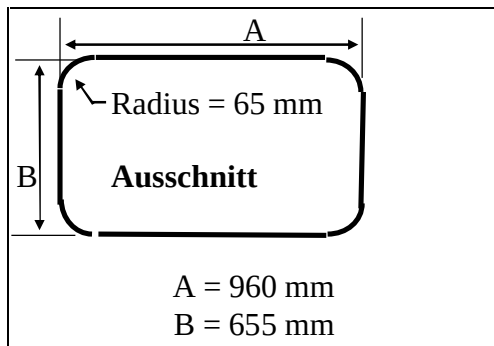
9.1.1

9.1 Determine the location of the cut-out

Determine the location of the HEKI4 on the vehicle taking into account the above-mentioned conditions.

Mark the cut-out using the template (printed on the packaging)(photo 9.1.1) according to the indications shown in photo 9.1.2.

The installed HEKI4 rooflight should have a clearance of around 1-2 mm all around.



9.1.2



9.2.1

9.2 Execute the cut-out

9.2.1 In order to avoid scratches on the roof surface, the perimeter should be covered with sticky tape before the cutting or mill-cutting begins

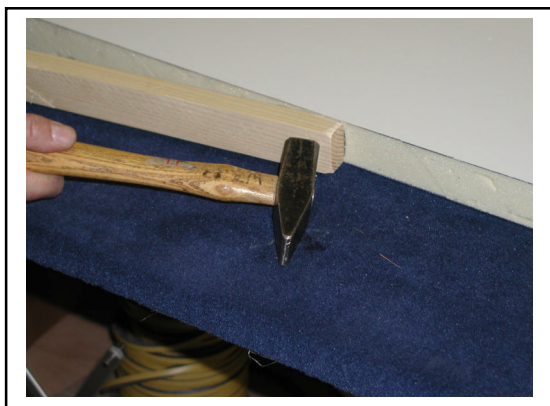
Execute the cut-out using a jig saw or a routing machine (photo 9.2.1)



9.3.1

9.3 Reinforce and check the cut-out

9.3.1 Remove insulating material between the roof's outer surface and the inner lining for a depth of about 10-30 mm all around the perimeter. (Depth depends on the reinforcing frames to be introduced in the next step - photo 9.3.2)(Photo 9.3.1)



9.3.2

9.3.2 Insert reinforcing frames (metal, plastic, wood, etc.)

Remark: This "reinforcing frame" is needed in order to avoid permanently the insulating material being compressed.



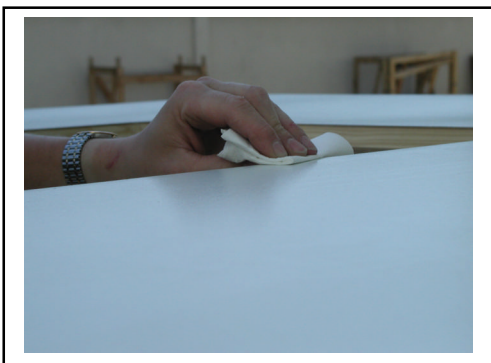
9.3.3

9.3.3 The 12V supply should stand out at least 350mm from the middle of the long side of the cut-out opposite the hinge.



9.3.4

9.3.4 To check the cut-out, place the outer frame on top of it to check the exact position before applying the sealant. (A clearance of 1-2 mm all around the perimeter between the cut-out and the outer frame is necessary. Photo 9.3.4)



9.4.1

9.4 Install the outer frame

9.4.1 Clean the roof surface where the sealant is to be applied (Always follow the instructions of the sealant supplier)(Photo 9.4.1).



9.4.2

9.4.2 Apply a butyl based permanently elastic sealant (available in cartridges or as a band) uniformly all around Photo 9.4.2) Place the outer frame in the cut-out (pay attention to the 12V supply) and push gently against the roof so that the sealant is distributed. (Always follow the instructions of the sealant supplier!)

9.4.3. For a different roof thickness, the following mounting kits are needed:

Roof thickness	Colour: Mounting blocks/adaptor	Screws	Mounting kit
25 up to 32mm	grey	diam.4x25mm	Included in accessory package
32 up to 39 mm	black	diam.4x32mm	Art. Number 1348
39 up to 46mm	yellow	diam.4x40mm	Art. Number 1349
46 up to 53mm	blue	diam.4x46mm	Art. Number 1350
53 up to 60mm	red	diam.4x52mm	Art. Number 1351

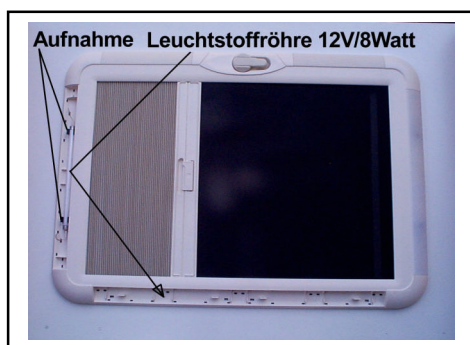


9.4.4

9.4.4 Insert the 16 mounting blocks all the way in and screw lightly (use the bigger hole in the mounting blocks)(Photo 9.4.4)

It is sufficient to tighten the screws gently. (torque about 1,5 Nm)

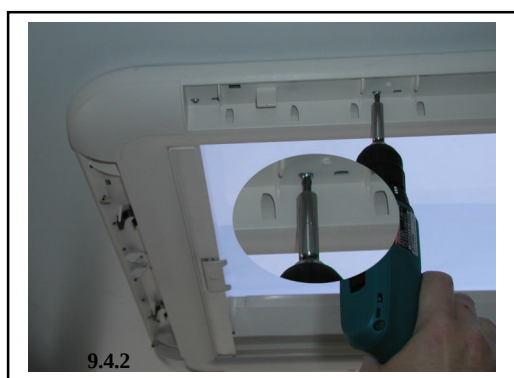
Check visually whether the sealant lies all around the roof surface. (When required, tighten the mounting blocks uniformly after about 10-30 minutes – torque about 1,5 Nm)



9.5.1

9.5 Connect inner frame illumination (optional)

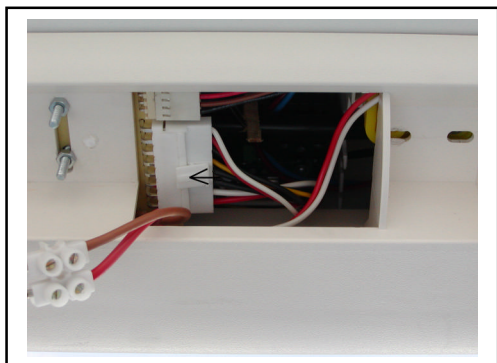
9.5.1. There is the facility to connect the illumination in the long side of the inner frame. In this case the tin clip should be removed from the short side and inserted in the appropriate housing in the longer side. (Photo9.5.1) The cables are to be placed in reverse order and fixed in position.



9.4.2

9.6 Install the HEKI4 inner frame and connect the 12V supply.

Put the inner frame in place and fix with screws to the outer frame using the smaller holes in the mounting blocks.(screws 2,5x12) **It is sufficient to tighten the screws gently!**



Check that the plug from the outer frame and the power supply from the vehicle are passed through the opening in the inner frame and are not jammed.

Insert the plug from the outer frame into the socket in the inner frame. Connect the 12 Volt +/- supply from the vehicle to the +/- supply of the HEKI4 (do not mix up the polarities). (electrical connections are to be carried out only by experienced personnel)

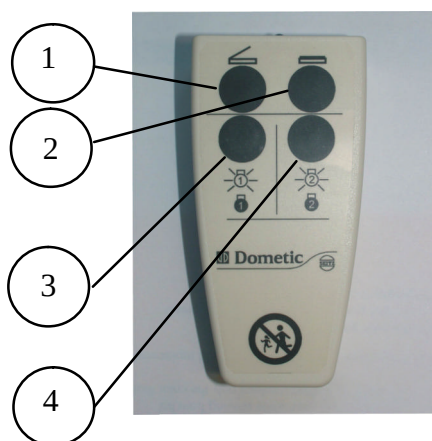
Follow the safety instructions!



picture A

9.7 Check functions Remote Control (coded)

The remote control is ready for use after inlaying the two batteries. It functions until a distance of max. approx. 1.5 m from the Heki rooflight (the remote control and control system have a non-volatile memory). The red lamp is blinking when starting current again after an interruption of the power supply to the Heki rooflight. By pressing a button of the remote control (e.g. lighting) in the direction of the red lamp (picture A) this red lamp goes out. The control lamp is switched off when the glazing panel is closed. If the glazing panel is not closed completely the control lamp is lighting. In case of dysfunction see point 11 of the installation instructions.



- 1 = Roof open
- 2 = Roof closed
- 3 = Light 1 on / off
- 4 = Light 2 on / off

Lighting (optional):

Remote control buttons: Roof open, roof closed, lamp 1 switched on/off, lamp 2 switched on/off

Hold the remote control in the direction of the red control lamp of the HEKI4 and press once both button 3 and button 4.

Now both lamps should be lit. By pressing once again button 3 and button 4, the lamps will be switched off.

Opening the roof

Hold the remote control in the direction of the red control lamp.(Photo A)

By short pressing the button 1  the glass dome will be opened up to 70 degrees. Should an opening up to 70 degrees not be required, this could be interrupted by pressing the button 1  once again. Press the button 2  permanently for closing the roof until the desired position is reached. The control lamp is switching off when the glazing panel is completely locked. Check the locking through lifting the glazing panel!



9.7.1

9.7.1 Check whether the blinds and fly-nets function properly! If they do not slide properly, loosen slightly the screws of the inner frame.



9.7.2

9.7.2 Snap in position the ventilation grilles and the covers for the optional lighting. (Photo 9.7.2) (a click should be audible)



9.7.3

9.7.3 Remove protective PE film from the outer and inner side of the acrylic dome. (photo 9.7.3)



10. Safety instructions

- Attention! Before starting switch off the power supply.
- Do not touch unhidden components (e.g. cardboard, cable connections) – Danger of static discharge.
- The electrical connections are to be carried out only by trained personnel.
- Utilise only the delivered parts.
- Make sure that the wires are not damaged during the installation.
- All 12V connections are to be fixed firmly.
- Before the bulbs are switched on, make sure that they are firmly in place.
- Defective bulbs can be replaced only by bulbs of identical build, power and voltage.
- The manufacturer accepts no liability for injuries or damage caused by an inappropriate use of the HEKI4 rooflight.

Follow the operating instructions.

- No liability is assumed for incorrect installation!
- The HEKI4 rooflight is not to be installed in a vertical surface!
- Registration in vehicle's log book should be carried out when the vehicle's height and/or total weight is changed.

11 Problems / possible causes thereof

The following table is intended to give the customer instructions to identify and eventually solve small problems in case of emergency. In case of bigger problems, an authorised expert is to be consulted.

Overall information.

The red lamp on the inner frame of the HEKI4 lights up when the rooflight is open.

The lamp switches off when the HEKI4 is completely closed and properly locked in place.

Problem description	HEKI4 - Problem analysis Possible Cause	Solution
Roof does not open /close with remote control	1) Battery in remote control is too weak. 2) Power supply from vehicle interrupted. 3) Fuse is blown. 4) Coding not correct.	1) Check battery in remote control 2) Check power supply from vehicle 3) Change the fuse (picture 11.1) 4) Coding the remote control - interrupt power supply (e.g. remove fuse) - switch on the power again -> red control lamp is blinking for 30 seconds - during this time hold the remote control in direction of the red lamp and press the buttons 1 and 2 simultaneously for approx. 5 seconds - the red control lamp switches off after coding
Control lamp stays on after rooflight is closed	1) Rooflight not properly locked in place. 2) Locking device out of position	1) Remove any eventual foreign objects (branches, leaves....) from beneath the acrylic dome. 2) Adjust locking device (picture 11.2)
The lights do not work	1) Battery in remote control is too weak 2) Power supply from vehicle interrupted.	1) Check battery in remote control and power supply from vehicle
Rain sensor does not react	1) Sensor very dirty	1) Switch off the power supply from the vehicle and clean the rain sensor with a dry cloth.



picture 11.1



picture 11.2