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Model Number _____

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HEKI 3plus SKYLIGHTS

H3DOM1336XXXX (HEKI 3plus)

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

H3DOM1336XXXX

Installation instructions of the HEKI 3plus rooflight

before installing the HEKI 3plus rooflight, please read carefully the installation instructions.

1. Prerequisite for a correct installation of the HEKI 3plus rooflight is a flat inner and outer surface of the roof which are collateral (HEKI 3plus 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 or 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 80mph [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 HEKI 3plus rooflight is ideal for a roof thickness of $31/32"$ - $2\ 3/8"$ [25mm - 60mm].
7. Check the roof thickness of your vehicle. In the package are included 16 mounting blocks and 16 screws (size 4x25mm for a roof thickness of $31/32"$ - $1\ 1/4"$). (For a roof thickness over $1\ 1/4"$ [32mm] up to a maximum of $2\ 3/8"$ [60mm], the corresponding, commercially available installation set must be used.)
8. For the illumination of the HEKI 3plus 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 HEKI 3plus outer frame
- 9.5 Connect HEKI 3plus inner frame illumination
- 9.6 Install HEKI 3plus inner frame



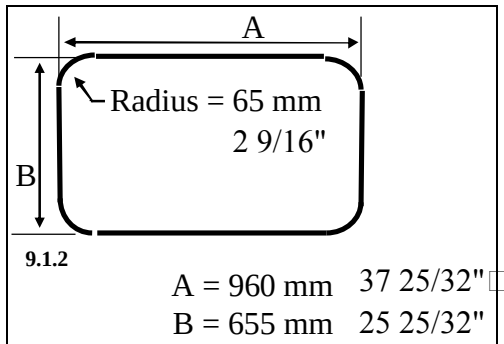
9.1.1

9.1 Determine the location of the cut-out

Determine the location of the HEKI 3plus 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 HEKI 3plus rooflight should have a clearance of around $1/32"$ - $1/16"$ [1-2mm] 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

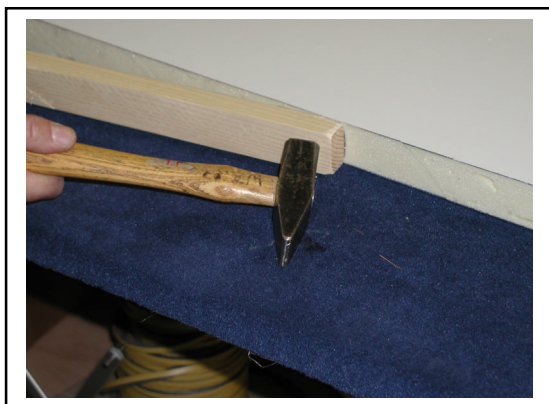
Execute the cut-out using a jig saw or a routing machine (photo 9.2.1)



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 13/32"-1 3/16" [10-30mm] 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.)

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



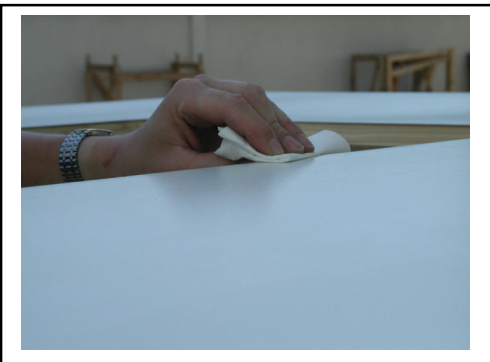
9.3.3

9.3.3 Should the illumination be connected, a 12V supply is to be led out of the cut out perimeter to the long side where the crank is.



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 1/32"-1/16" [1-2mm] 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:

Wall thickness	Colour: mounting block	Screw	Mounting kit
31/32" - 1 1/4" □	grey	Ø4 x25 mm	in accessory package incl.
1 1/4" - 1 17/32" □	black	Ø4 x32 mm	ZUB1348
1 17/32" - 1 13/16" □	yellow	Ø4 x40 mm	ZUB1349
1 13/16" - 2 3/32" □	blue	Ø4 x46 mm	ZUB1350
2 3/32" - 2 3/8" □	red	Ø4 x52 mm	ZUB1351

9.4.3



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 13 lb-in [1.5 Nm])

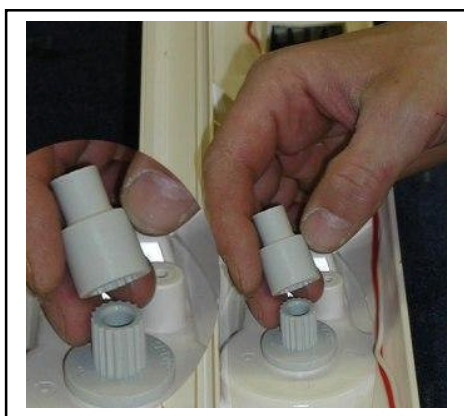
Check visually whether the sealant lies all around the roof surface. (When required, tighten the mounting blocks uniformly after about 10-30 minutes – torque about 13 lb-in)



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. (Photo 9.5.1) The cables are to be placed in reverse order and fixed in position.



9.6.1

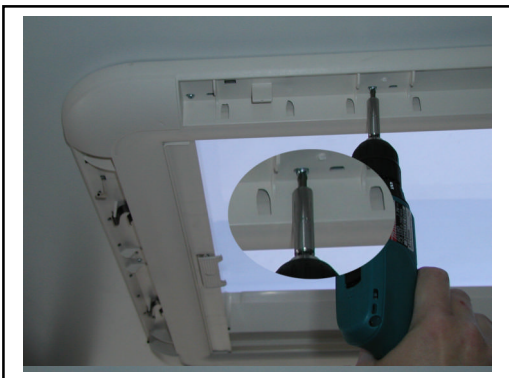
9.6 Install the inner frame

9.6.1 Install the drive pin according to the corresponding roof thickness (see also table 9.4.3)



9.6.2

9.6.2 The pre-assembled crank is to remain in the closed position when the inner frame is joined to the outer one, otherwise the ratio between the crank and the drive hexagon will be incorrect.



9.6.3

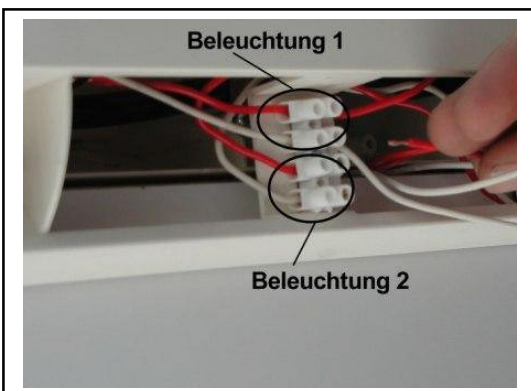
9.6.3 Screw the inner frame to the outer frame. In this case the smaller holes in the mounting blocks are to be used (screws 2.15x12mm).

It is sufficient to tighten the screws gently!



9.6.4

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



9.6.5

9.6.5 The connection for the two bulbs takes place through the clips, in which a separate switching of the two bulbs is possible when the electro-technical prerequisites of the vehicle are given. (Electrical connections are to be carried out only by trained personnel).
Follow the safety instructions!

Beleuchtung = Lighting



9.6.6

9.6.6 Snap the ventilation grilles and the covers into position (a click should be audible)



9.6.7

9.6.7 Remove the protective PE foil from the inner and outer surfaces of the acrylic dome.

10. Safety instructions

- Attention! Before starting switch off the power supply.
- 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.
- The light cannot be dimmed.
- 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 lights.
- Follow the operating instructions as well.

- No liability is assumed for incorrect installation!
- The HEKI 3plus 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.