



# INSTALLATION INSTRUCTIONS

## ELECTRIC DRIVE SET

FOR DOMETIC ROOF WINDOWS  
MIDI HEKI STYLE  
IN MOTORHOMES



**DOWNLOAD  
IN COLOR**  
[rv-tech.de](http://rv-tech.de)

## TECHNICAL DATA

<b>Drive set Power supply</b>	0.5 kg
<b>Max. current</b>	10.5 - 15
<b>consumption Fuse</b>	volts
<b>Duration of opening process</b>	5 A
	7.5 A
<b>Closing time</b>	15 seconds
	15 seconds

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DRIVE SET

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Please allow approximately 1.5 to 2 hours for the complete installation of your new drive set.

## IMPORTANT NOTES

### **Please observe the following safety instructions**

We generally recommend that the drive set be installed by qualified personnel. We accept no liability for improper installation.

The item—especially its packaging—may contain small parts that could be swallowed. **Keep away from children!**

Technical details are subject to change without notice and may differ from the illustrations in these installation instructions.

#### **Risk of injury**

Each individual step in these installation instructions must be followed precisely.

**Be sure to disconnect the vehicle and body batteries during wiring work!**

#### **Prerequisite for installation**

**The drive set supplied is only suitable for installation in the Midi Heki Style roof window from Dometic.**

Skylights from other manufacturers cannot be retrofitted with this product.

#### **Validity**

The installation instructions are valid for:

**Midi Heki Style drive set from RV tech Basic set including extensions**

**II****SCOPE OF DELIVERY**

The scope of delivery of your drive set includes:

**1 drive motor**



**1 control unit**



**1 cover including rotary knob**



**1 cable set**



**Various small parts**



## 1 INSTALLING THE DRIVE SET

You will need the following tools for installation:

- Phillips screwdriver
- Torx T10 and T20 screwdrivers
- Open-end wrench SW 10
- Side cutters
- Wire strippers
- Cordless screwdriver, if necessary

To install the drive set, the inner frame of the roof window must be completely removed.

**Note:** No seals will be removed or damaged during this process.

**Note:** Some motorhomes have wooden panels with LED lighting attached to the ceiling around the skylight. These should be removed beforehand.

1. First, remove the inner frame from your skylight.

The inner frame is only connected to the outer frame by spring clips, so you can simply pull the inner frame down.



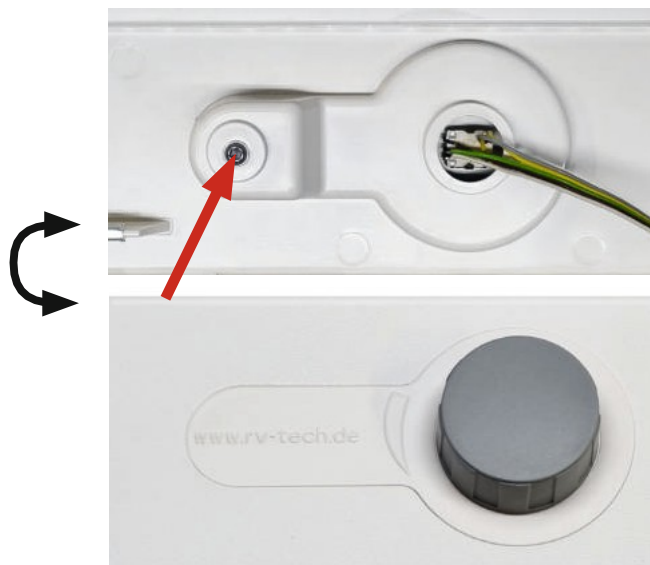
2. Fold out the crank on the inner frame and remove the **screw** underneath it as well as the small **plastic cover** next to it.



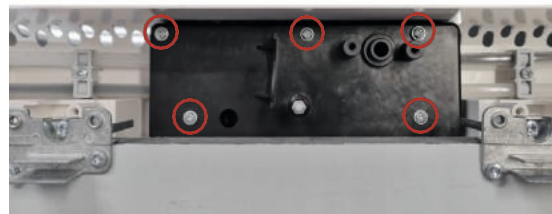
3. Now turn the inner frame to the outside and remove the plugged **drive shaft**.



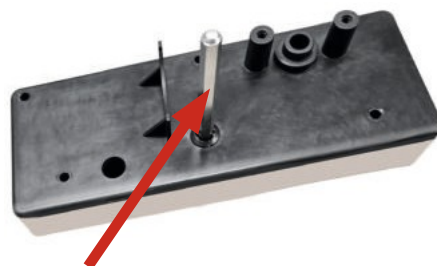
4. Now install the rotary knob assembly in the opening of the inner frame in place of the crank. Use the 3.5 x 10 mm **screw provided** for this purpose.



5. Remove the black plastic gear in the skylight, which is secured with **5 Phillips screws**.



6. Pull the **hexagonal shaft** out of the gearbox.



7. Loosen the **two screws** on the back of the gearbox (Torx T10).





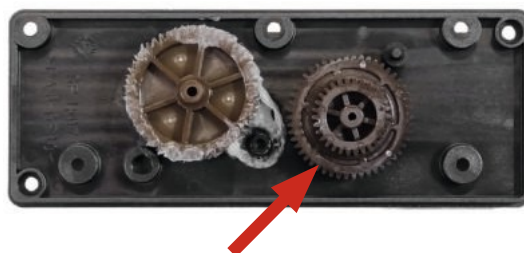
8. Open the gearbox and remove this **gear wheel**.



9. Place the **black sleeve** supplied over the **pin**.



10. Now insert the supplied **gear wheel**.



11. Now reinsert the **old gear wheel**.



12. Now insert the supplied **drive shaft** into the gearbox cover as follows.





13. Now carefully place the gearbox cover on the lower section.

To do this, hold the drive shaft in the cover so that it cannot fall out.

Then screw the gearbox onto the rear side using the **two screws** (Torx T10).

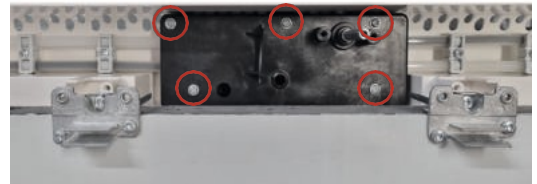
(see point 7)



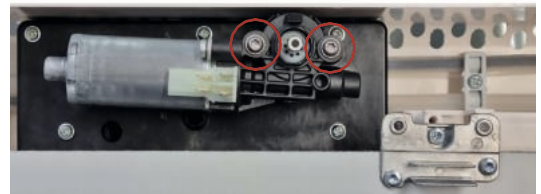
14. Reinsert the gearbox with motor into the skylight.

If necessary, turn the new drive shaft slightly to make it easier to insert the gearbox. Then install the **5 mounting screws**.

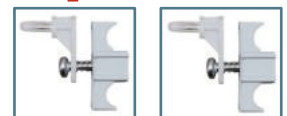
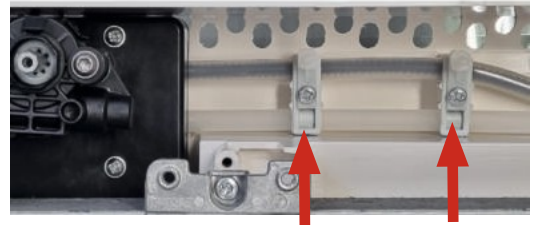
See point 5



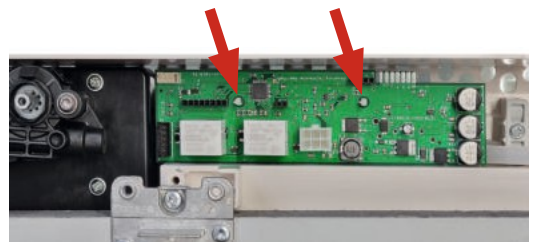
15. Now attach the drive motor to the gearbox using the two screws provided (Torx T20).



16. Loosen the 2 clamping blocks for the drive shafts to the right of the gearbox and attach the **retaining clips** supplied for the control unit there.



17. Carefully press the **control unit** onto the two **retaining clips**.



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## CONNECTING THE DRIVE SET TO THE ON-BOARD POWER SUPPLY

**Note:** Please disconnect the body battery from the vehicle electrical system before performing this work!

First, connect the drive set to the vehicle electrical system using the cable harness supplied.

There are two ways to do this:

### Option 1:

Some motorhomes have wooden panels with LED lighting around the roof window attached to the ceiling (e.g., Carthago).

This means that there is already a cable duct in the ceiling that you can use.

**Tip:** You can use the cable already in the cable duct as a pull-in aid for the power supply cable of the skylight as follows:

Loosen the existing cable at one end of the cable duct and extend it with a string. Now pull the cable out at the other end until the string attached behind it appears.

Attach the new power supply cable for the skylight to the cord. Then pull both cables back through the cable duct using the cord.

### Option 2:

You will need to create your own cable feed-through, similar to when retrofitting a roof air conditioning system in the roof.

The two cables of the cable harness are only connected to ground (black cable) and 12 volts (red cable). Additional fusing is not necessary, as there is already a fuse in the cable harness.

1. First, remove the **7.5 amp fuse** from the wiring harness. *(Included in delivery)*



2. Plug the **black connector** of the wiring harness into the motor of the drive set and the **white connector** into the control board. Both connectors will snap into place.



3. Reinsert the **7.5 amp fuse** into the wiring harness.
4. The sunroof will now close if it was previously open and will automatically detect the closed position.  
As soon as you can no longer hear the drive motor, the teach-in process is complete.

### 3 INSTALLING OPTIONS

**Note:** You can skip this chapter if you have not purchased the following options.

#### 3.1 RAIN SENSOR OPTION

**Note:** First remove the 7.5 amp fuse from the wiring harness.

If you are retrofitting the option: Please remove the rotary knob, the nut underneath, all 9 ventilation grilles, and the entire inner frame of the roof window with all 15 screws (see sections 1.1–1.3, p. 6).

Connect the **rain sensor** to the designated connector (see illustration on the next page) the **control board** ② and secure it with body adhesive (e.g., Otto Coll P83) – behind the skylight when viewed in the direction of travel – directly to the outer skin of your motorhome.

The yellow LED on the sensor lights up continuously when the roof window is open. As soon as rain hits the sensor, the green LED also lights up and closes the roof window.

Please clean the roof and underside of the sensor thoroughly before gluing!

The control board automatically detects the sensor and closes the skylight independently when it starts to rain.

Please refer to the following two images for cable routing:



Please use the three dark **foam elements** supplied to secure the cable.

**Tip:** You can cut into the **foam element** with a knife to make it easier to feed the cable through.

How the rain sensor works:

When it starts to rain, the skylight closes automatically.

Even when it is raining, you can open the skylight to an angle of approx. 20 degrees for ventilation.

### 3.2 REMOTE CONTROL OPTION

**Note:** First remove the 7.5 amp fuse from the wiring harness.

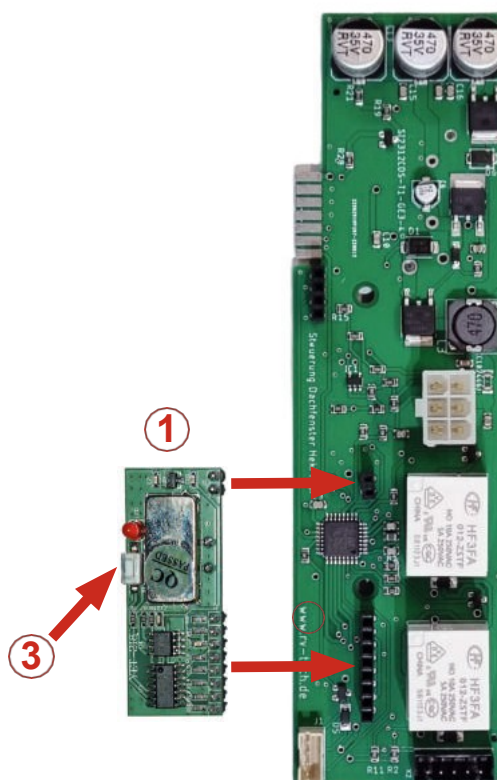
If you are retrofitting the option:

First, remove the inner frame from your skylight.

The inner frame is only connected to the outer frame by spring clips, so you can simply pull the inner frame down.

(see point 1.1)

Plug the **radio receiver** ① of the remote control set into the designated connector on **the control board** on the ② skylight.



Now press the learn button ③ On the radio receiver: A red LED on the circuit board will light up.

Then press any button on the handheld transmitter. The LED will now go out and the handheld transmitter will be successfully programmed.

If you want to program another handheld transmitter, repeat the process.

You can delete all handheld transmitters by pressing the learning button 3 on the radio receiver for 10 seconds.

The functions of the handheld transmitter are as follows:



**BUTTON 1: OPEN the skylight**

The window will continue to move until the **OPEN** or **CLOSE** button is pressed or the skylight is fully open.

**BUTTON 2: CLOSE the skylight**

The window moves until the **OPEN** or **CLOSE** button is pressed or the skylight is completely closed.

**BUTTON 3: FAVORITE position**

Pressing the button briefly moves the skylight to the last programmed favorite position.

To program a new favorite position, move the skylight to a new position using the **OPEN** or **CLOSE** button and then press **BUTTON 3** for about two seconds. Your new favorite position is now saved.

**BUTTON 4: VENTILATE**

Pressing the **VENTILATE** button once opens the roof window completely and closes it automatically after 15 minutes.

Pressing this button several times extends the ventilation time to 30, 45, or 60 minutes.



### 3.3 OPTION CONTROL VIA APP

**Note:** First remove the 7.5 amp fuse from the wiring harness.

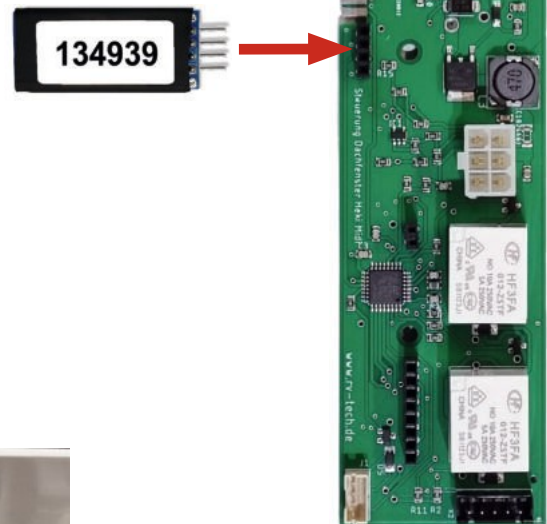
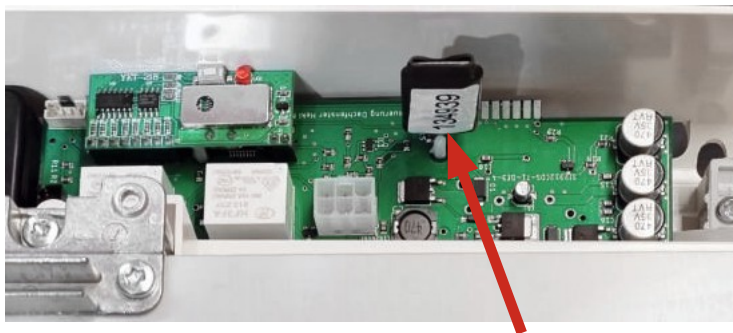
If you are retrofitting the option:

First remove the inner frame from your skylight.

The inner frame is only connected to the outer frame by spring clips, so you can simply pull the inner frame down.  
 (see point 1.1)

Insert the small Bluetooth receiver into the 4-pin connector on the control board of the skylight as shown in both illustrations.

**Note:** Make sure that the 6-digit PIN is facing the inside of the control board.



**Tip:** Please make a note of the PIN (see back of the Bluetooth receiver) and keep it in a safe place. If you change your cell phone, you can easily access the PIN when it is requested again.

#### INSTALLATION FOR APPLE AND ANDROID MOBILE PHONES:

Download the RV tech app from the Apple Store or Google Play Store and install it.

Start the app and add the *Heki3* Bluetooth receiver from your drive set.

The PIN for entering the password can be found on the back of the small receiver.

**Note:** Do not connect the Bluetooth receiver in your phone's Bluetooth menu, but directly in your RV tech app.



You can then choose from the following functions:



 **OPEN the roof window** 

**CLOSE the roof window**

 **MOVE TO A SPECIFIC POSITION** using the slider

 **FAVORITE POSITION**  
The skylight moves to your last programmed favorite position.

To program a new favorite position, move the skylight to a new position and then press the **HEART BUTTON** for about 2 seconds. Your new favorite position is now saved.

 **VENTILATION**

Pressing the **VENTILATION BUTTON** once opens the skylight completely and closes it automatically after 15 minutes.

Pressing the **VENTILATION BUTTON** several times extends the ventilation time by 15 minutes each time, up to a maximum of one hour.

### 3.4 OPTION: AUTOMATIC CLOSING WHEN THE VEHICLE STARTS

To do this, this circuit board is mounted invisibly on the back of your cigarette lighter.

**Note for professionals:** You can also connect the circuit board directly to your vehicle's D+ signal.



**Note:** Switch off the vehicle's ignition so that the cigarette lighter is not connected to the power supply.

1. Remove the **cup** from the cup holder above the cigarette lighter.



2. Remove the **rubberized base** underneath from the cup holder on the dashboard.



3. Loosen the **screw** (Torx T20) at the bottom of the cup holder.



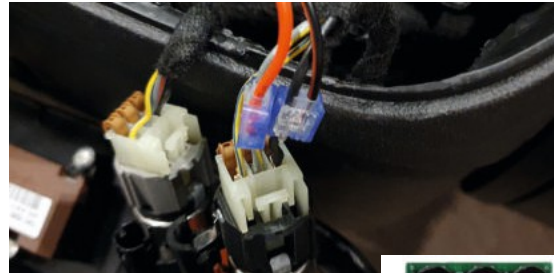
4. Now remove the **lower part of the cockpit**.

Lift the entire cover at the bottom edge and tilt it slightly upward. This will release the hooks at the top edge.

5. Connect the **control board** to the cigarette lighter cables. Use the **clamp connectors** supplied for this purpose.

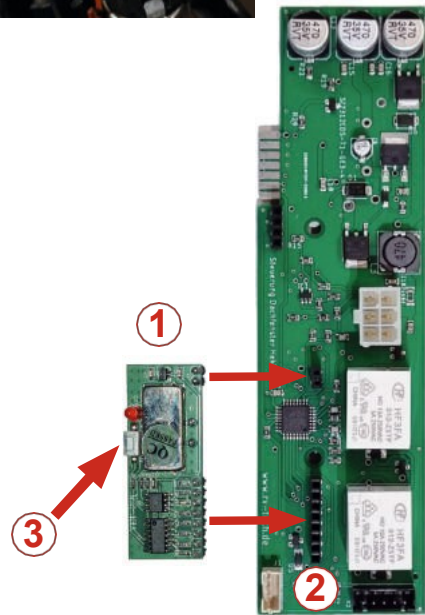
Connect the **black cable** to the black outer cable on the cigarette lighter plug using the blue cable connector.

Connect the **red cable** to the middle cable on the cigarette lighter plug. Then connect the white plug of the cable to the circuit board.



6. Plug the **radio receiver 1** into the designated connectors on **the control unit**. **control board** <sup>②</sup> if it is not already connected there. already present.

If you have already installed the remote control option, your radio receiver is already in place.



7. Press the **learn button** <sup>③</sup> on the radio receiver. A red LED on the circuit board will light up.

Now you must switch on your vehicle's ignition within 5 seconds so that your cigarette lighter and thus also the circuit board receive power. This will program the circuit board to the radio receiver. The LED will go out and the circuit board will be successfully programmed.

Turn off the ignition and open your sunroof. As soon as you turn the ignition back on, your sunroof will close automatically.

Now carefully stow the circuit board under the cover and reassemble everything in reverse order.

**NOTE:** All options can be retrofitted at any time.

## 4 FINAL ASSEMBLY

Reattach the inner frame of the roof window to the outer frame. (see section 1.1, p. 6)



Plug the cable of the rotary knob into the designated slot on the **control board**.



## 5 FUNCTION TEST

Turn the rotary knob clockwise to open the skylight.

Turn the knob counterclockwise to close the roof window. Please also note the symbol on the cover panel.

The noticeable **detent when turning the knob slowly** allows you to open or close the roof window in small increments.

**Quickly turning the knob** past one or more detents opens or closes the skylight completely.

**Pressing the knob** stops the skylight in its current position.

The control system has **collision and pinch protection**, which automatically stops the skylight if a collision is detected during opening (e.g., with branches) or if objects are detected between the skylight and the frame during closing.

**NOTE:** Any wooden panels with LED lighting that were previously removed can now be reinstalled.

## 6

## TROUBLESHOOTING

If your skylight drive no longer closes completely, disconnect the drive from the power supply for a few seconds.

If you use the main switch of your motorhome for this, please note that other devices may also be reset.

**RV tech** hopes you enjoy your new convenience feature and continues to have relaxing vacations with your motorhome!

*If you encounter any problems installing the system, please contact **RV tech** directly by email or phone.*

### DECLARATION OF CONFORMITY



**RV tech** hereby declares that this product complies with the essential requirements and relevant provisions of Directive 2006/42/EC.

The detailed declaration of conformity is available for download at the following link: [www.rv-tech.de/downloads/](http://www.rv-tech.de/downloads/)



## YOUR NOTES



RESPONSIBLE FOR CONTENT



Prof. Dr.-Ing. Tim Nosper  
Raueneggstraße 29/1  
88212 Ravensburg

**Phone** +49 (0)751 / 3526122

**Fax** +49 (0)751 / 3526416

**Website** [www.rv-tech.de](http://www.rv-tech.de)

**Email** [info@rv-tech.de](mailto:info@rv-tech.de)

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Prof. Dr.-Ing. Tim Nosper



RV tech

