



TECHNOLOGIE FÜR REISEMOBILE

INSTALLATION INSTRUCTIONS

ELECTRIC DRIVE SET

**FOR AL-KO CLICKFIX LIFT SUPPORTS
ON MOTORHOMES**



**DOWNLOAD
IN COLOR
rv-tech.de**

I 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 product—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!

Requirements for installation

The drive set supplied is only suitable for mounting AL-KO CLICKFIX lifting supports. Lifting supports from other manufacturers cannot be retrofitted with it.

Validity

The installation instructions apply to:

RV tech rear support drive set

TECHNICAL DATA

Drive set power supply	3.0 kg
Max. current consumption	10.5 - 15 volts
	7

INSTALLATION INSTRUCTIONS

FOR INSTALLING AN
ELECTRIC DRIVE SET

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ON MOTORHOMES

CONTENTS

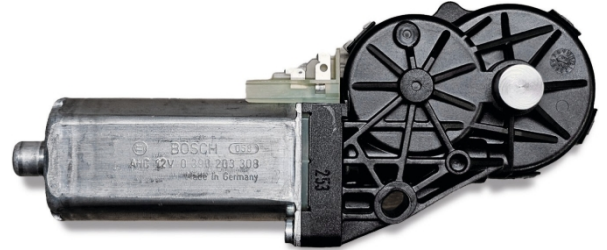
I	IMPORTANT INFORMATION, TECHNICAL DATA	p. 2
II	SCOPE OF DELIVERY	P.4-5
1	INSTALLING REAR SUPPORTS 21	P.6 -13
2	COMMISSIONING	p. 14-15
	CE DECLARATION OF CONFORMITY	p. 18
	LEGAL NOTICE	p. 19



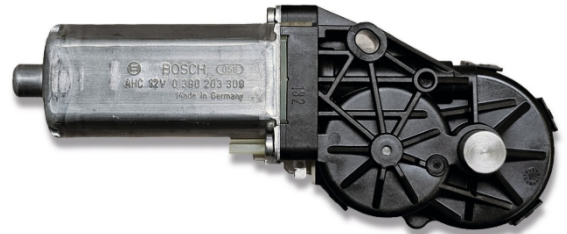
SCOPE OF DELIVERY

The scope of delivery of your drive set includes:

1 drive motor on the driver's side with the end number 308



1 drive motor on the passenger side with the ending number 309



1 control unit



1 3-piece cable set consisting of:



1 power supply cable harness

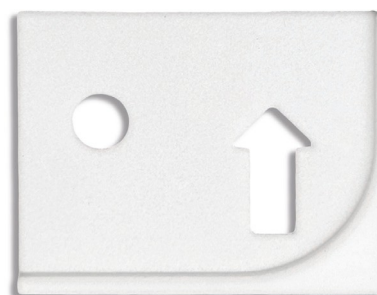


1 short cable harness for passenger side motor



1 long wiring harness for the driver's side motor

1 drilling template



2 clamping levers



2 plastic covers



Various small parts



1 INSTALLING THE REAR SUPPORTS

You will need the following tools and materials for installation:

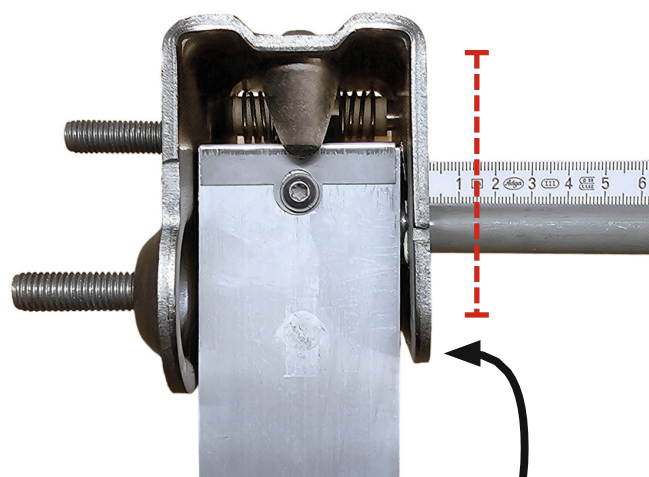
- Metal saw
- 6 mm metal drill bit
- 3 mm Allen key
- Open-end wrench or socket wrench SW 10 + SW 17
- Side cutters
- Wire strippers
- Cordless screwdriver, if necessary
- Cable ties
- Silicone

The following description shows an example of installation in a Carthago motorhome.

1. **First, remove both jack stands at the rear of your motorhome. To do this, loosen both self-locking nuts (wrench size 17 mm) on the back of each jack stand.**

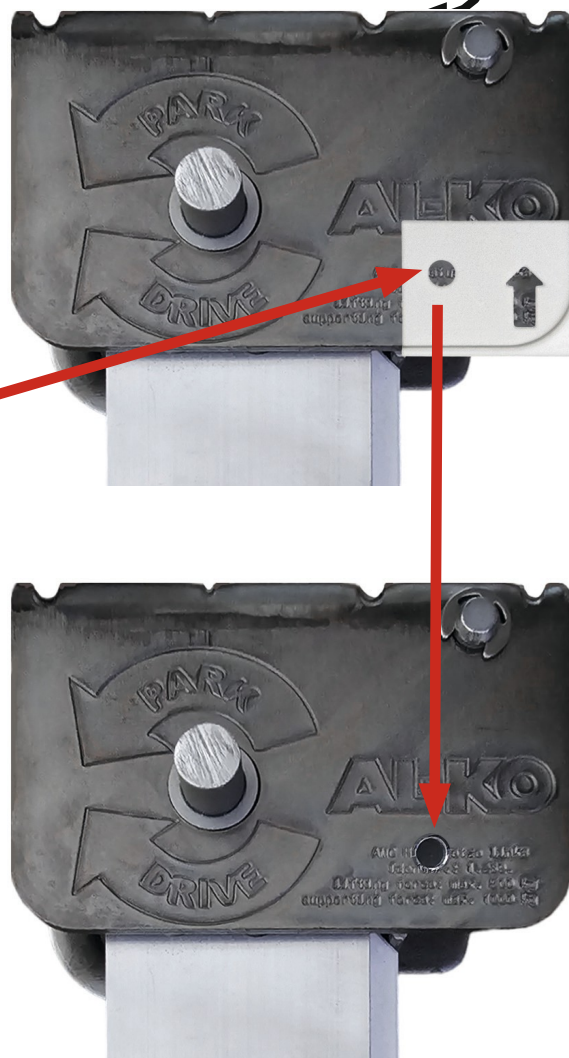


2. Then use a hacksaw to shorten the drive shaft to a **length of 15 mm**.



3. Using the drilling template provided, drill a **6 mm diameter hole** in each of the two lift supports.

If you place the drilling template correctly on the lift support, you will see the letters "stu" in the word "Heckstuetze" in the drill hole.



4. Insert the supplied **black 6 mm Allen screw** through the drill hole from behind and fasten it on the front with the supplied **hexagonal spacer nut**. (Wrench size 10 mm)



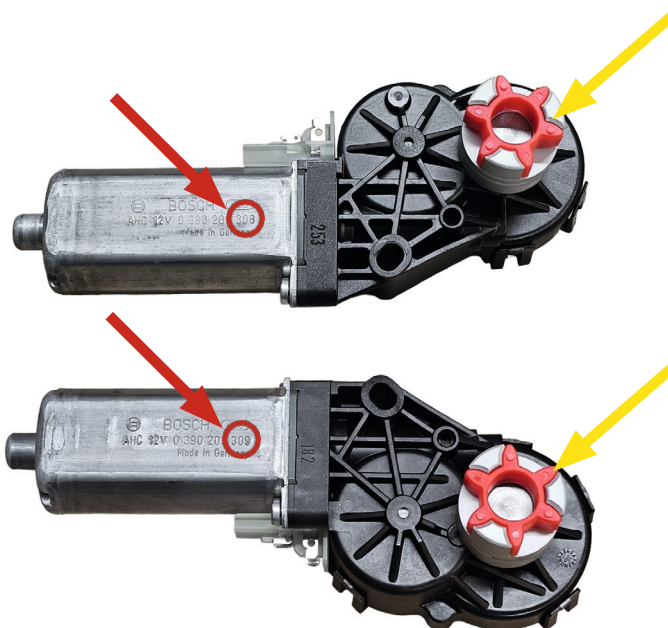
5. Pull one of the two couplings apart in the middle and fasten one half flush to the sawn-off drive shaft. (Allen key 3 mm)



6. Attach the other half of the coupling, including the red star-shaped damper, to the shaft of the drive motor. (3 mm Allen key)

The motor for the **driver's side** has the ending number **308**

The motor for the **passenger side** has the ending number **309**



7. Insert the two coupling halves of the motor and lift support into each other. Turn the motor with the mounting hole over the **spacer nut**.

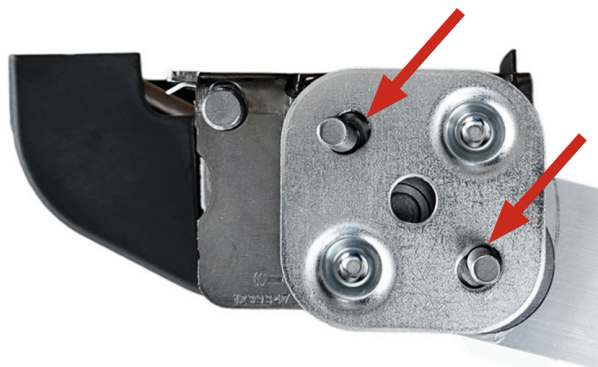


8. Secure the motor using the **clamping lever** provided.

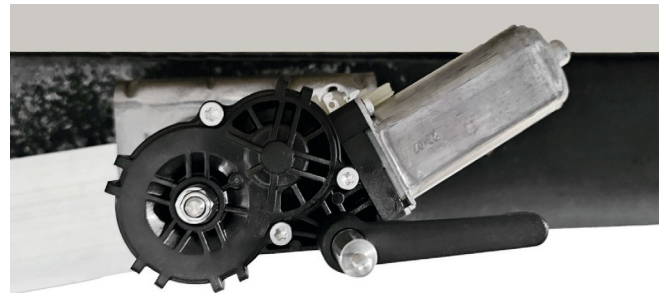
You can move the handle of the clamping lever to any position by pulling it out.



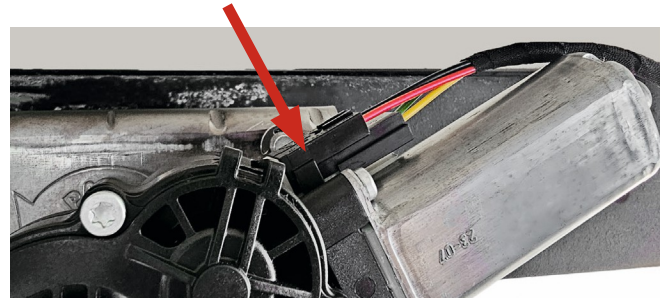
Make sure that the mounting plate of your jack stands is on the threaded pins.



9. Screw the two complete jack stands to the frame of your motorhome using the **self-locking nuts** supplied.
(Wrench size 17 mm)



10. Push the plug of the **cable harness** (long cable harness, driver's side, and short cable harness, passenger side) onto the plug of the motor until it clicks into place.



11. Feed the connection cable through the hole in the rear frame to the inside of the rear frame.

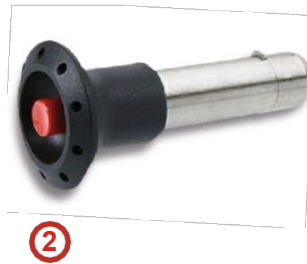


12. Attach the supplied **plastic cover** to the clamping lever using the supplied **wing screw**.



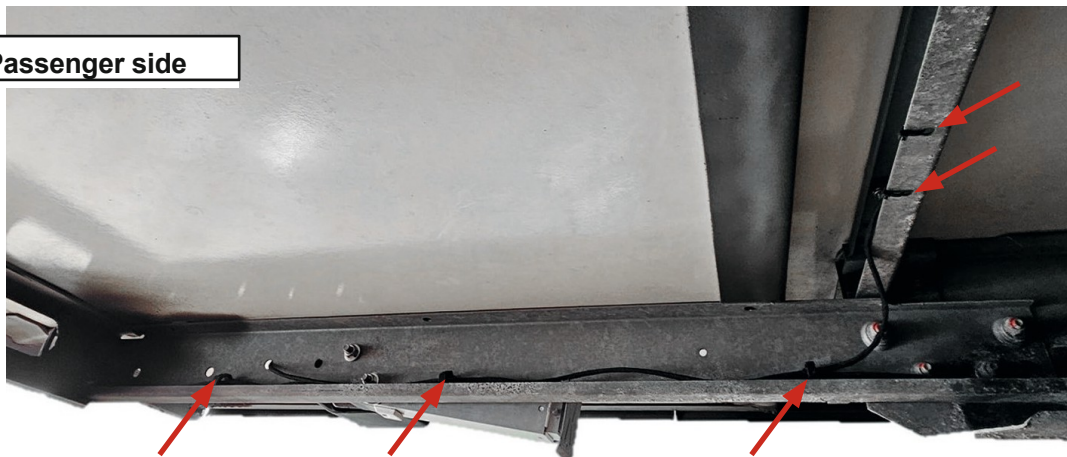
13. Remove the standard **folding pin** on the underside of the jack and replace it with the supplied **locking pin**.

Press the red button on the **locking bolt** when inserting/removing.

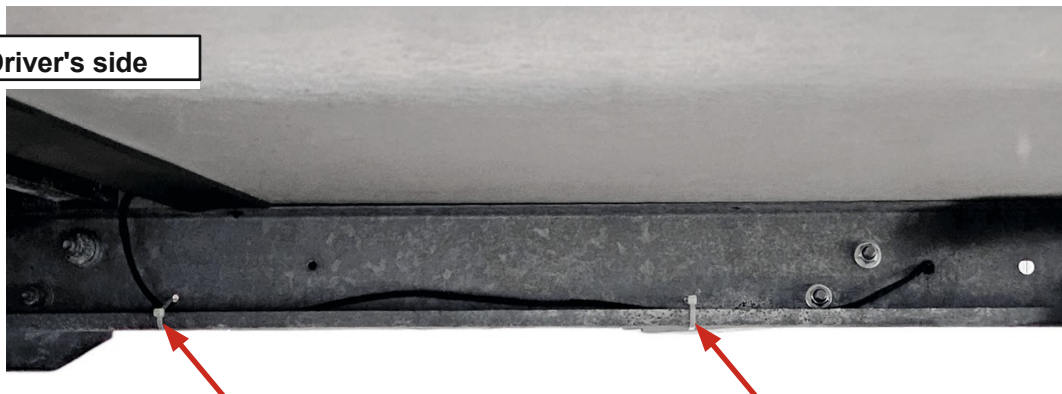


14. Secure the connection cables to the rear frame using **cable ties**.

View: Passenger side



View: Driver's side



15. Remove the cover of the battery compartment.



16. Drill 2 holes in the floor of the motorhome.
You can now feed the two **connection cables** (for the driver's/passenger's side) through these holes.

Seal both drill holes on the outer underside of your motorhome with silicone.



17. Mount the **control unit** on the inside of the cover of your battery compartment.

The connection plugs on the control unit should be on the **underside**.

Note on installing the control unit: The arrow stuck to the **top** of the control unit must point in or against the direction of travel.



18. Plug the two supplied **4-pin plugs** into the right and left sockets on the control unit.



19. Plug the individual wires of the respective connection cable (driver and passenger side) into the plug as shown in the illustration.

Ensure that the individual wires in the connector are correctly engaged and cannot be pulled out.



20. Plug the 3-pin connection cable into the middle connector (**power**) and connect the cable ends as follows:

- the **black cable** to the negative terminal of your battery.
- the **red cable** to the positive terminal of your battery.
- the **blue cable** to the D+ signal of your vehicle.

The **D+ signal** can often be found in the electrical control center of your motorhome. It supplies a constant 12-volt signal as soon as you start the engine of your motorhome.

For exact location, please contact your motorhome manufacturer.

Note: The **D+ signal** is used to automatically retract the rear supports when the engine is started.



Driver's side

Power

Passenger side

2 COMMISSIONING

Once you have connected the 3-pin connection cable (see point 20, p. 13: "POWER") to the control unit and the battery, the system automatically performs a reference run: The system retracts the rear supports if they are not already fully retracted. The control unit then automatically saves this position as "rear supports retracted."

Note: If the control unit is disconnected from the battery, the reference run will be performed again automatically when it is reconnected.

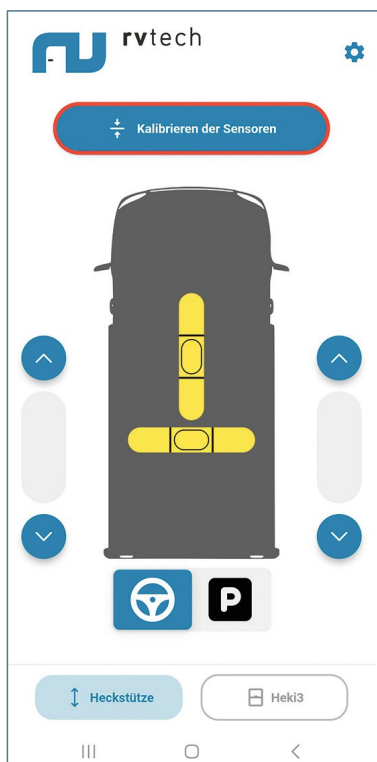
1. INSTALLATION FOR APPLE AND ANDROID MOBILE PHONES:

Download the **RV tech** app from the Apple Store or Google Play Store and install it. Start the app and add the **Bluetooth receiver rear support** of your drive set. The **6-digit PIN** for entering the password can be found on the outside of the control unit.

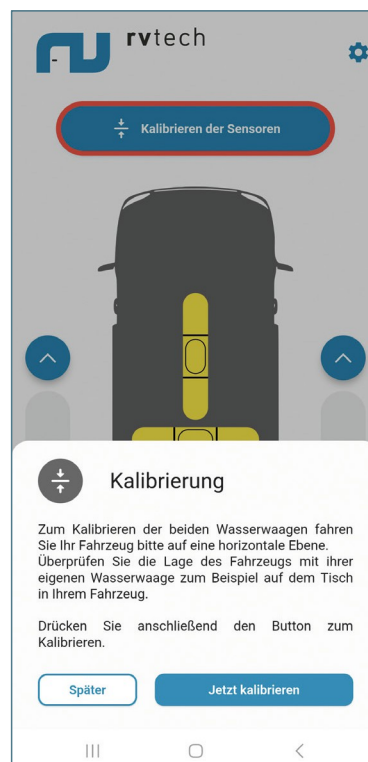
Note: Do not connect the Bluetooth receiver in the Bluetooth menu of your mobile phone, but directly in your RV tech app.

2. CALIBRATING THE SENSORS

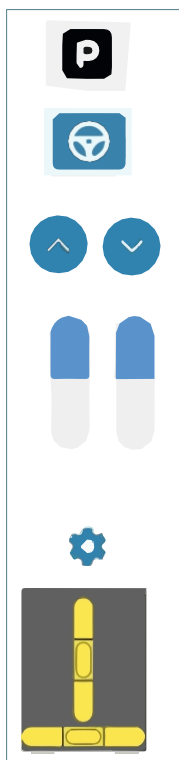
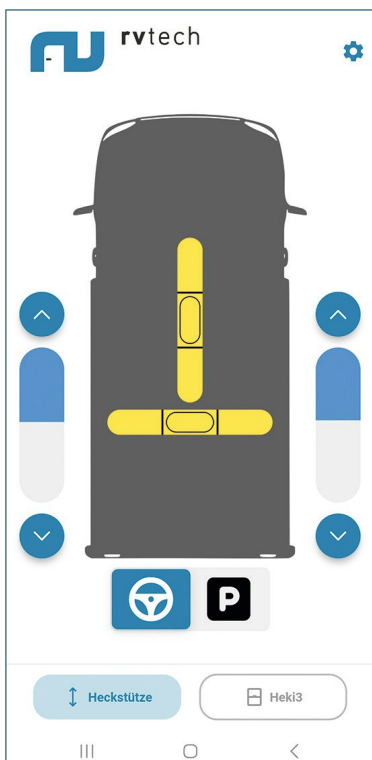
The first screen you will see is as follows:



Now calibrate the sensors so that the spirit level is displayed correctly:



You now have the following functions to choose from:



Automatic **extension** of both rear supports until your motorhome is stable

Automatic **retraction** of both rear supports

Manual **fine adjustment** of the right or left rear support

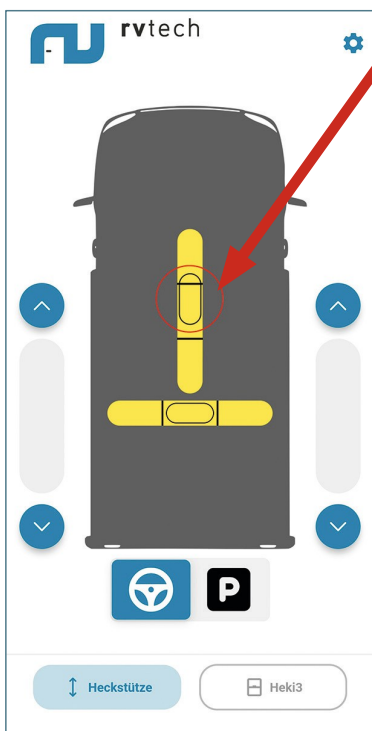
Display of **the positions** of both rear supports. *The positions of the right and left lifting supports may differ from each other*

Settings **menu**

Display of the **position** of your motorhome

Note: Your rear supports cannot compensate for **lateral tilting of the motorhome**.

Since the rear supports lift the rear of your vehicle, your motorhome should be in this position before extending the rear supports:



YOUR NOTES

YOUR NOTES



DECLARATION OF CONFORMITY

CE 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/

RESPONSIBLE FOR CONTENT



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RV tech

