



USER MANUAL

making everyday smoother



- Increased comfort • Better driveability • More safety



VB-ACTIVEAIR MOTORHOME

INFORMATION - MANUAL - SERVICE



Better safety and comfort on the road

It's all under control with VB-Airsuspension systems

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Basic information



Vehicle information

Make:

Model:

Chassis number:

Kilometre reading:

 km

VB identification number:

Kit number:

Production date:

Homologation documentation:

TÜV certificate:

TÜV parts certificate:

TÜV parts certificate, increase in permitted total weight:

General type approval:

Lono / floor panel lighting:

Type approval:

Fitting station information

Company name:

Address:

Postcode/city:

Country:

Telephone:

Employee:

Date of fitting:

Fitted options

VB-ActiveAir

"Air suspension systems from VB-Airsuspension – for greater comfort and optimum handling in all situations."

Dear customer,

Congratulations!

Your vehicle is equipped with VB-ActiveAir, the fully automatic "VB-FullAir 4C" air suspension system from VB-Airsuspension B.V., combined with the adaptive VB-DynActive shock absorber system.

This user manual tells you everything you need to know about how to use the VB-ActiveAir system and how it works. It also includes some important safety precautions and operating instructions. In view of the many possibilities and options, the design of your system may differ from that described here and certain options may not be included. To see which options apply to your vehicle, refer to the 'Basic information' on page 3.

We wish you a pleasant ride!

VB-Airsuspension B.V.

About this user manual

- Carefully read this user manual all the way through before using the vehicle. Otherwise, safe and error-free operation cannot be guaranteed.
- Observe all safety instructions and warnings in this user manual.
- This documentation is an integral part of the product and must be handed over to the purchaser if you sell the vehicle. Keep it with the vehicle documents.

Meaning of symbols



Strict observance of the warnings may prevent personal injury and/or material damage.

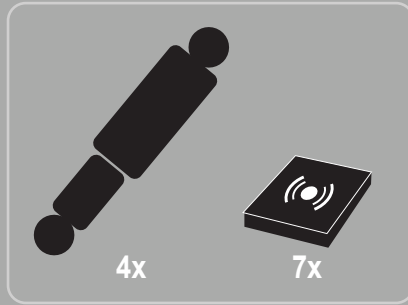


Special instructions to aid clarity and ease of use.

System overview

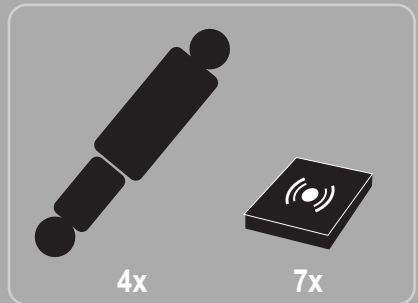
Your system is equipped with one of the auxiliary air systems shown below.

VB-DynActive



VB-DynActive

VB-ActiveAir



VB-FullAir 4C + VB-DynActive

In view of the many possibilities and options, the design of your system may differ from that described here and certain options may not be included.

“Read and follow all the safety instructions. This is important for your own safety.”

Product description

VB-ActiveAir is a fully automatic and electronically controlled air suspension system. Moreover, VB-ActiveAir is an intelligent suspension and shock absorber system, in which both chassis elements are linked together and adjust to the condition of the road surface and the load in real time. The air suspension compensates for varying load states via air pressure in the spring elements and the variable shock absorbers control the damping via a valve in the shock absorber.

The vehicle can be raised or lowered in two ways: fully automatically or manually, depending on your preference.

A vehicle with a VB-ActiveAir system can be levelled using the AutoLevel function. The available spring travel is taken into account here.

- The automatic level control of the VB-Airsuspension system cannot prevent damage to the vehicle or superstructure due to overload.
- Always make sure the vehicle is not overloaded. When using the air suspension system, overloading is not visible. If you are in any doubt, VB-Airsuspension advises you to weigh the axles before driving the vehicle.

Use

The VB-ActiveAir system from VB-Airsuspension responds to unevenness in the road surface, cross winds, bends and braking manoeuvres in a fraction of a second.

Improper use can have undesirable consequences. VB-Airsuspension is not liable for any resulting damage.

Safety rules



Note:

The built-in VB-ActiveAir system must not be modified.

- Never drive the vehicle with a setting other than ride-height or SPORT, except with caution and at a speed not exceeding approximately 30 km/h. Otherwise, the chassis or air suspension system will become damaged.
- Before raising or lowering the vehicle when it is at a standstill:
 - Secure the vehicle against rolling away.
 - Make sure there is no possibility of injury or damage to people and property.
- Do not depress the brake pedal (if it is possible) while raising or lowering the vehicle. This is advisable to relieve the brake and avoid tension in the chassis.
- Always use a jack or hydraulic ramp to change a wheel or carry out servicing work.
- Before raising one or more axles with a jack or hydraulic ramp, switch off the air suspension system using the SERVICE button.
- The air suspension must not be used to lift wheels off the ground during servicing work. (to change a wheel for example).
- Errors and/or faults in the air suspension system can have an undesirable effect on the driving stability. This may cause the vehicle to sway and/or swing.
- When using snow chains, do not allow the vehicle to fall below the ride-height.

"The system can be operated easily using one central switch on the dashboard."

Operation

This section explains how to operate the VB-ActiveAir system. The air suspension system can be operated fully automatically or manually.

The shock absorbers can be adjusted from minimum damping force to maximum damping force in just a few milliseconds. VB-ActiveAir can adapt perfectly to the driving situation, resulting in a more comfortable ride and better handling. This allows you to glide smoothly over uneven road surfaces without impacting on the ride quality.

Thanks to the sophisticated sensors, the system immediately recognises when your vehicle is leaning in a bend. The shock absorbers respond in just a few milliseconds and increase the damping force of the compression phase on the right-hand side and the extension phase on the left-hand side. This means that when turning left, the shock absorber on the right-hand side will compress less and the shock absorber on the left-hand side will extend less and thus adapt to the bend.



INCREASED COMFORT

Fewer movements in the vehicle body.



GREATER SAFETY

Shorter braking distance.



IMPROVED STABILITY

Less sensitive to crosswinds.



Functions

When Comfort, Sport or Standard driving mode is selected, the shock absorbers adapt perfectly to your driving style. In Sport mode, the ride is automatically made more comfortable when the driver slows down. In Comfort mode, the vehicle is automatically made easier to handle when taking fast bends. In addition, the driver can adjust the driving mode themselves at any time while driving. This option does not depend on the driving speed.

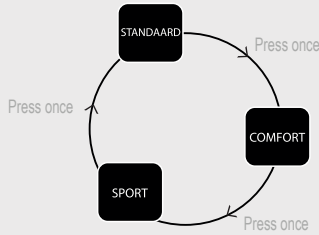
VB-ActiveAir also has a memory function for when the ignition is switched off, so that as soon as the ignition is switched on, the system returns to the most recently used mode.

"You can select another driving mode while driving."

Select driving mode



To select the driving mode for the VB-ActiveAir system, the ignition must be switched on. The desired driving mode can be enabled by pressing the switch.



Standard mode

1. Press the switch until only the shock absorber symbol lights up.

- The shock absorber symbol always lights up red (at the same time as the dashboard lights).



Comfort mode

1. Press the switch until the text 'COMFORT' lights up.

- The text 'COMFORT' lights up yellow when Comfort mode is selected.



Sport mode

1. Press the switch until the text 'SPORT' lights up.

- The text 'SPORT' lights up yellow when Sport mode is selected.



Comfort when at a standstill

The VB-ActiveAir system not only ensures a pleasant experience whilst driving, but also when the vehicle is at a standstill. As soon as the vehicle is stationary or driving slower than approximately 5 km/h, the valve in the shock absorber closes and the damping force is almost maximised. This increases the comfort level when at a standstill and reduces back and forth movements of the vehicle.



This function can be used for 6 minutes after the ignition is switched off.
During this period the vehicle uses the extra time (option).

"Is the fault not mentioned here? Contact your conversion station (see page 3)."

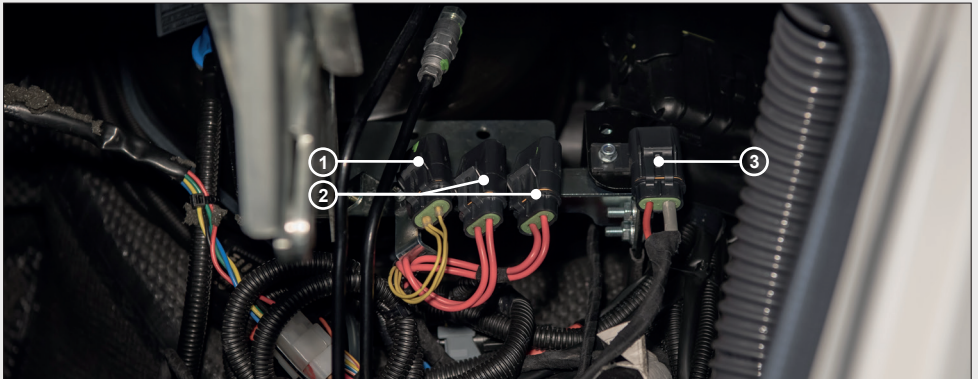
Reset system

1. Switch the ignition off and on again.

Alternatively

- Remove the fuse (7.5 A) from the fuse box. This is located in the dashboard or under the driver's seat.

Number	Fuse	System
1	7.5A fuse	for controlling the air suspension
2	40A fuse	for the compressor
3	10A fuse	for controlling the shock absorbers



Troubleshooting

- Functional faults can be diagnosed using the switch and table below.
- If you cannot correct the fault, contact your nearest trained VB-Airsuspension partner.
- Information about trained partners and the spare parts you might need can be obtained from VB-Airsuspension Aftersales. They will be pleased to help.

Tracing faults

Fault	Possible cause	Solution
The Comfort and Sport LEDs are flashing simultaneously	General system fault	Consult workshop
The switch does not respond	Ignition switched off	Switch on ignition
	7.5A fuse faulty	Replace the 7.5A fuse
	Battery voltage too low	Charge the battery
	10A fuse faulty	Replace the 10A fuse
The system is not working	Ignition switched off	Switch on ignition
	40A fuse faulty	Replace the 40A fuse
	Battery voltage too low	Charge the battery

“Maintaining your vehicle correctly reduces the likelihood of wear and faults.”

Correcting malfunctions

Contact your conversion station if the fault keeps coming back.



In case of faults that are not mentioned in this table or that you cannot rectify yourself, contact your conversion station or a trained VB-Airsuspension partner.

Maintenance

VB-Airsuspension systems are low maintenance. However, regular cleaning and visual inspections will help to reduce natural wear.

The following components must be checked for wear, leaks and damage during servicing:

- Air springs
- Air tubes
- Shock absorbers

The level of the vehicle may fall gradually if it is not used for long periods.

To avoid permanent deformation and damage to the air springs:

- The vehicle should be supported with corner steadies (accessories).
- The air springs should be re-inflated with compressed air once a week.

Permitted cleaning agents:

- Soap solution
- Ethanol
- Methanol
- Isopropyl alcohol

Not permitted:

- Organic solvents
- Abrasives
- Steam and high-pressure cleaners
- Naked flames



"Keep a record of all service inspections. This gives an optimum overview of the vehicle."

Servicing

Service inspections can be entered below. This allows you to see when the system was inspected and whether repairs were carried out.

- Ask your conversion station to enter the information relating to service inspections.

Date: ___ - ___ - _____	Stamp:
Kilometre reading: _____ km	
Work carried out:	
_____ _____ _____	

Date: ___ - ___ - _____	Stamp:
Kilometre reading: _____ km	
Work carried out:	
_____ _____ _____	

Date: ___ - ___ - _____	Stamp:
Kilometre reading: _____ km	
Work carried out:	
_____ _____ _____	

Date: ____ - ____ - ____	Stamp:
Kilometre reading: _____ km	
Work carried out:	
_____ _____ _____	

Date: ____ - ____ - ____	Stamp:
Kilometre reading: _____ km	
Work carried out:	
_____ _____ _____	

Date: ____ - ____ - ____	Stamp:
Kilometre reading: _____ km	
Work carried out:	
_____ _____ _____	

“You may contact us at any time if you have questions or if anything is unclear. Send an e-mail to info@vbairsuspension.com.”

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VB-Airsuspension B.V. is constantly working to develop its products. We trust you will understand that, for this reason, the scope of delivery, the design, the functionality and the technology may vary. The content of this manual is a snapshot view of the situation as at the time it was written. VB-Airsuspension reserves the right to introduce technical changes at any time without warning.

The design of the air suspension system takes into account the maximum permitted weight of the vehicle. Because the vehicle always adjusts to ride-height regardless of load, overloading is less visible. The chance of overloading is therefore greater. Never overload the vehicle, as the suspension system and other components of the vehicle may be damaged as a result. Weigh the vehicle if you are not sure whether it is overloaded. No compensation will be payable for damage caused by overloading.

If the suspension system develops a fault, it is inadvisable to continue driving in view of the damage that may result. In exceptional cases, it is possible to continue driving at reduced speed and taking suitable precautions.

Notes



VB-Airsuspension is one of the few European manufacturers producing a wide range of (air) suspension systems. From semi air suspension and simple reinforced coil springs to full air suspension systems: we offer customers the ideal solution for a range of applications such as ambulances, car transporters and motorhomes. Now you know why more and more body shops and commercial vehicle manufacturers are making VB-Airsuspension systems their benchmark.



Dealer:



airsuspension



www.vbairsuspension.com



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