• Increased comfort • Better driveability • More safety
Basic information

Vehicle information

Make:
Model:
Chassis number:
Kilometre reading:
VB identification number:
Kit number:
Production date:
Homologation documentation:
TÜV certificate:
TÜV parts certificate:
TÜV parts certificate, increase in permitted total weight:
General approval:
Lono / floor panel lighting:
Type approval:

Fitting station information

Company name:
Address:
Postcode/city:
Country:
Telephone:
Employee:
Date of fitting:

Fitted options

☐ Extra control switch
☐ 'Extra time' module
☐ Emergency valve kit
☐ Manual operation via handbrake/speed-controlled *
☐ Remote control standard/basic/motorhome *
☐ VB-AutoLevel levelling function (VB-FA 4C only)
☐ Kit for external accessories
☐ VB-AATS, air tank for air suspension
☐ VB-WAM, Wireless Access Module

Better safety and comfort on the road
It's all under control with VB-Airsuspension systems
Dear customer,

Congratulations! Your vehicle is equipped with the fully automatic VB-FullAir suspension system from VB-Airsuspension B.V.

This user manual tells you everything you need to know about how to use the air suspension system and how it works. It also includes some important safety precautions and operating instructions. In view of the many features 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 fully automatic air suspension systems shown below.

Commercial vehicle

- VB-FullAir 2C
- VB-FullAir 4C

Motorhome

- VB-FullAir 2C
- VB-FullAir 3C
- VB-FullAir 4C

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

VB-FullAir is a fully automatic, electronically-controlled air suspension system for light commercial vehicles, motorhomes and special vehicles. The electronic control system ensures that the vehicle maintains the same ride-height in any load situation. The ride-height is controlled by height sensors mounted between the chassis and the axle. Height control is always active after switching on the ignition or during the extra time.

Manual operation for raising or lowering the vehicle can be activated in two ways. This depends on the option supplied to you.

Depending on the available spring travel, the vehicle can be levelled when at a standstill using the AutoLevel function.

- The automatic level control on 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 that you weigh the axles before driving the vehicle.

Use

The VB-Airsuspension system improves the suspension and automatically controls the height of the front and rear axles on the chassis.

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

Note:
To be able to use the vehicle functions effectively, the various vehicle components need to be run in for several kilometres. Minor side effects may be experienced when the vehicle first driven. For example, the expected levels of comfort may not be immediately apparent or noises may be heard.

Safety rules

Note:
- The built-in air suspension 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 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 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.

Note:
The built-in air suspension system must not be modified.

Risk of damage!
In case of damage or faults that cannot be rectified, press the SERVICE button to deactivate the system. Contact an approved VB-partner immediately.

The check light comes on to indicate a fault. If this happens, drive extra carefully and at much lower speed. Removing the fuses deactivates the system.
“Your remote control may not include all functions. Find out what you can do.”

### Operation

#### Starting the air suspension system

1. Switch on the air suspension system
   - The check light comes on for one second: *The system has started correctly.*
   - LED for the front and/or rear axle comes on: *The vehicle is at the ride height.*
   - One or both LEDs in the vehicle shown indicate the axle(s) for which manual adjustment is enabled.
   - LEDs for the front and/or rear axle and a function button come on: *The selected level is reached.*

#### ‘Selected axle’ display

One or both LEDs in the vehicle shown indicate the axle(s) for which manual adjustment is enabled.

#### Note:

When raising or lowering, make sure there is enough space above, below and along the sides of the vehicle.

- The air suspension system is ready for use when you switch on the ignition.
- While driving, the control functions are limited or unavailable. In such situations, the safe ride-height is controlled automatically.
- When raising or lowering with the handbrake on, tension or noises may occur in the vehicle. If you then release the handbrake, there may be unexpected, slight up-and-down movements.

#### Commercial vehicle

<table>
<thead>
<tr>
<th>Button</th>
<th>Summary</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Check light</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Sport</td>
<td>&gt; 0 km/h</td>
</tr>
<tr>
<td>3</td>
<td>Car Park</td>
<td>&lt; ± 30 km/h</td>
</tr>
<tr>
<td>4</td>
<td>Vehicle height-up</td>
<td>&lt; ± 5 km/h</td>
</tr>
<tr>
<td>5</td>
<td>Vehicle height-down</td>
<td>&lt; ± 5 km/h</td>
</tr>
<tr>
<td>6</td>
<td>Selected axle display</td>
<td>&lt; ± 5 km/h</td>
</tr>
<tr>
<td>7</td>
<td>Front - Rear</td>
<td>&lt; ± 5 km/h</td>
</tr>
</tbody>
</table>

#### Motorhome

<table>
<thead>
<tr>
<th>Button</th>
<th>Summary</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>AutoLevel</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>OffRoad</td>
<td>&lt; ± 30 km/h</td>
</tr>
<tr>
<td>10</td>
<td>Vehicle height 1</td>
<td>&lt; ± 5 km/h</td>
</tr>
<tr>
<td>11</td>
<td>Vehicle height 2</td>
<td>&lt; ± 5 km/h</td>
</tr>
<tr>
<td>12</td>
<td>Service</td>
<td>&lt; ± 5 km/h</td>
</tr>
<tr>
<td>13</td>
<td>Forward position</td>
<td>&lt; ± 30 km/h</td>
</tr>
<tr>
<td>14</td>
<td>Backward position</td>
<td>&lt; ± 5 km/h</td>
</tr>
<tr>
<td>15</td>
<td>Water tank</td>
<td></td>
</tr>
</tbody>
</table>
Commercial vehicle ride height/axle selection

1. Switch on ignition, apply handbrake. Vehicle standing still or driving at < ± 5 km/h.
2. short press: at vehicle height, one or both LEDs come on.
3. long press: axle selection enabled.

Lower commercial vehicle

1. Switch on ignition, apply handbrake. Vehicle standing still or driving at < ± 5 km/h.
2. Keep button pressed until the required level is reached.
   - The button flashes during lowering.
   - The button is lit continuously when the level is reached.

Alternatively

1. Button - short press. The vehicle is lowered to the lowest position.
   - The button flashes during lowering.
   - The button is lit continuously when the lowest level is reached.

Ending the function

- Button - short press.
- Button - long press.

Reset commercial vehicle to ride-height


Vehicle is brought to ride height.

“An extra control switch can be fitted - on the rear doors for example.”
Motorhome ride-height/axle selection

1. Switch on ignition, apply handbrake. Vehicle standing still or driving at < ± 5 km/h.
2. Short press: at vehicle height, one or both LEDs come on.

Raise motorhome

1. Switch on ignition. Vehicle standing still or driving at < ± 5 km/h.
2. Keep button pressed until the required level is reached.
   - The button flashes during raising.
   - The button is lit continuously when the level is reached.

Alternatively

1. Button - short press. The vehicle is raised to the highest position.
   - The button flashes during raising.
   - The button is lit continuously when the highest level is reached.

Ending the function

- Button - short press.
- Button - short press.

Lower motorhome

1. Switch on ignition. Vehicle standing still or driving at < ± 5 km/h.
2. Keep button pressed until the required level is reached.
   - The button flashes during lowering.
   - The button is lit continuously when the level is reached.

Alternatively

1. Button - short press. The vehicle is lowered to the lowest position.
   - The button flashes during lowering.
   - The button is lit continuously when the lowest level is reached.

Ending the function

- Button - short press.
- Button - short press.

Reset motorhome to ride-height

- From unknown level:

Vehicle is brought to ride-height.
"The AutoLevel function works best when the vehicle is parked on level ground."

Save level you have set

1. Switch on ignition. Vehicle standing still or driving at ≤ 5 km/h.
2. Press button \( \uparrow \) or \( \downarrow \) to select the desired axle.
3. Press button \( \uparrow \) or \( \downarrow \) to set the desired level.
4. Keep button \( \uparrow \) or \( \downarrow \) pressed until you hear a signal.

Activate stored level

1. Switch on ignition. Vehicle standing still or driving at ≤ 5 km/h.
2. Button \( \uparrow \) or \( \downarrow \) - short press.
   - The button flashes while the level is being activated.
   - The button is lit continuously when the level is reached.

AutoLevel

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

With the AutoLevel option, the vehicle is set to a horizontal position (levelled) automatically. This is only possible if the vehicle is standing still and adequate suspension travel is available.

1. Switch on ignition
2. Switch off the ignition and within 6 minutes briefly press button \( \uparrow \).
   - The button flashes during adjustment.
   - The button is lit continuously for 10 seconds once the vehicle is in the ideal position.
   - The system then switches off.

End function and reset vehicle to ride-height

1. Switch on the ignition and press button \( \uparrow \) briefly
   - When buttons \( \uparrow \) or \( \downarrow \) are no longer lit, the vehicle is at the ride height once more.

Alternatively:

After you drive away, the AutoLevel function automatically switches off. The vehicle is reset to the ride height.

However, VB-Airsuspension recommends that you reset the vehicle to ride-height before driving away. If you omit to do so, the system automatically resets to ride-height to minimise possible damage.
OffRoad setting (high driving position)
Press button \[\text{OffRoad}\] to raise the whole vehicle.
This increases the ground clearance.
1. Switch on ignition. Vehicle standing still or driving at \(< ± 30\ \text{km/h}\).
   - The button flashes during adjustment.
   - The button is lit continuously when the level is reached.

End function and reset commercial vehicle to ride-height
1. Button \[\text{OffRoad}\] or \[\text{Front Rear}\] - long press.

End function and reset motorhome to ride-height
1. Button \[\text{OffRoad}\] or \[\text{Front Rear}\] - short press.

Parking (low driving position)
Press button \[\text{Parking}\] to lower the whole vehicle.
To remind you, a bleeping sound can be heard while the vehicle remains in the low driving position.
1. Switch on ignition. Vehicle standing still or driving at \(< ± 30\ \text{km/h}\).
   - The button flashes during adjustment.
   - The button is lit continuously when the level is reached.

End function and reset commercial vehicle to ride-height
1. Button \[\text{Parking}\] or \[\text{Front Rear}\] - long press.

End function and reset motorhome to ride-height
1. Button \[\text{Parking}\] or \[\text{Front Rear}\] - short press.

Sport
Press button \[\text{Sport}\] to lower the whole vehicle while driving.
This provides greater stability at higher speeds.
1. Switch on ignition.
   - The button flashes during adjustment.
   - The button is lit continuously when the level is reached.

End function and reset commercial vehicle to ride-height
1. Button \[\text{Sport}\] or \[\text{Front Rear}\] - long press.

End function and reset motorhome to ride-height
1. Button \[\text{Sport}\] or \[\text{Front Rear}\] - short press.
Water tank

The button allows you to tilt the vehicle to the side. This makes it easier to empty the wastewater tank on vehicles.

1. Switch on the ignition, vehicle standing still.
   - The button flashes during adjustment.
   - The button is lit continuously when the maximum tilt angle is reached.

End function and reset motorhome to ride-height


Forward position

The button allows you to tilt the vehicle forwards. This can be useful if you need ground clearance at the back when manoeuvring.

1. Switch on ignition. Vehicle standing still or driving at ± 35 km/h.
   - The button flashes during adjustment.
   - The button is lit continuously when the level is reached.

End function and reset motorhome to ride-height

1. Button or - short press.

Backward position

The button allows you to tilt the vehicle backwards. This can be useful for loading and unloading.

1. Switch on the ignition, vehicle standing still.
   - The button flashes during adjustment.
   - The button is lit continuously when the level is reached.

End function and reset motorhome to ride-height

1. Button or - short press.

With the ‘extra time’ option, the air suspension system can be operated for up to one hour after the ignition is switched off.
“With the ‘emergency valve kit’ option, the air suspension system can be pressurised at any time (see page 22).”

Note:
Does the vehicle have a tailgate and/or jacks? Remember: If any of these systems are active at the same time as the air suspension system, the air suspension system must be switched off using the SERVICE button.

Service

1. The SERVICE button has only one function:
   - Switching service mode on and off.

Service mode can be used to switch off the system in order to carry out work on the air suspension or read out possible faults. To guarantee total safety, we recommend you remove the fuses from the air suspension system.

Switch service mode on and off

1. Press once
   - The button is lit continuously.

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.

7.5 A fuse – for the controller
40 A fuse – for the compressor

“With the ‘emergency valve kit’ option, the air suspension system can be pressurised at any time (see page 22).”

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Switch service mode on and off

1. Press once
   - The button is lit continuously.
Troubleshooting

- Functional faults can be diagnosed using the table below. If you cannot correct the fault, contact your nearest trained VB-Airsuspension partner.
- In case of air loss, immediately contact an authorised specialist workshop and drive extra carefully at a much lower speed (max ± 30 km/h.).
- Information about trained partners and the spare parts you might need can be obtained from VB-Airsuspension Aftersales. They will be pleased to help.

<table>
<thead>
<tr>
<th>Fault</th>
<th>Possible cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle is tilted</td>
<td>Load was moved after the air suspension was switched off</td>
<td>Switch on the air suspension, lower the vehicle and reset the vehicle height</td>
</tr>
<tr>
<td>The remote control does not respond</td>
<td>Ignition switched off</td>
<td>Switch on ignition</td>
</tr>
<tr>
<td></td>
<td>7.5 A fuse faulty</td>
<td>Replace the 7.5 A fuse</td>
</tr>
<tr>
<td></td>
<td>Battery voltage too low</td>
<td>Charge the battery</td>
</tr>
<tr>
<td>Compressor not working</td>
<td>Ignition switched off</td>
<td>Switch on ignition</td>
</tr>
<tr>
<td></td>
<td>40 A fuse faulty</td>
<td>Replace the 40 A fuse</td>
</tr>
<tr>
<td></td>
<td>Battery voltage too low</td>
<td>Charge the battery</td>
</tr>
<tr>
<td>Compressor does not switch off</td>
<td>Compressor relay faulty</td>
<td>Remove 40 A relay</td>
</tr>
<tr>
<td></td>
<td>Air loss</td>
<td>Consult workshop</td>
</tr>
<tr>
<td>Air suspension does not lower</td>
<td>Driving too fast</td>
<td>Stick to speed limit</td>
</tr>
<tr>
<td></td>
<td>7.5 A fuse faulty</td>
<td>Replace the 7.5 A fuse</td>
</tr>
<tr>
<td>Air suspension does not raise</td>
<td>Vehicle too heavily loaded</td>
<td>Reduce load</td>
</tr>
<tr>
<td></td>
<td>Driving too fast</td>
<td>Stick to speed limit</td>
</tr>
<tr>
<td></td>
<td>7.5 A fuse faulty</td>
<td>Replace the 7.5 A fuse</td>
</tr>
</tbody>
</table>

In case of faults that are not mentioned in this table or that you cannot rectify yourself, contact a trained VB-Airsuspension partner.
Below are the possible error codes and the faults they refer to.

**Basic remote control**
On some vehicles the air suspension system has a 'basic remote control'. This remote control has three fixed modes: highest position, ride height and lowest position.

**Check light**
1. Activate manual operation:
   - The check light comes on for one second: *The system has started correctly.*
   - The check light remains lit: *The vehicle is not at ride height.*
   - The check light keeps flashing: *The system is detecting a fault (see error code for solution).*

**Switch**
1. Activate manual operation:
   - From highest position, press switch briefly downwards: *Vehicle sets itself to ride height automatically.*
   - From lowest position, press switch briefly upwards: *Vehicle sets itself to ride-height automatically.*
   - From ride height, press switch briefly downwards: *Vehicle sets itself to the lowest position.*
   - From ride height, press switch briefly upwards: *Vehicle sets itself to the highest position.*

**Error code**
If the system detects a fault, the CHECK-LED on the remote control flashes. If you then press the SERVICE button, a combination of lit and flashing LEDs on the various buttons provides an error code.

<table>
<thead>
<tr>
<th>LEDs on the buttons are off</th>
<th>LEDs on the buttons are flashing</th>
<th>LEDs on the buttons are lit</th>
</tr>
</thead>
</table>

In view of the many features and options, your remote control may differ from the example shown. However, the error codes are the same in all cases.
Remedying faults
To clear a fault, turn the ignition on and off again. The fault is now cleared. 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 partner of VB-Airsuspension.

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 drop 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

Servicing
Maintenance 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.

<table>
<thead>
<tr>
<th>Date: <strong>-</strong>-____</th>
<th>Stamp:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kilometre reading: ____________ km.</td>
<td></td>
</tr>
<tr>
<td>Work carried out:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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<tr>
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<tr>
<td>Work carried out:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
"Keep a record of all services, so you have as full an overview as possible of work done on the vehicle."

| Date:               ____ - _____ - ________ | Stamp: |
| Kilometre reading: ____________ km.        |
| Work carried out:                                            |
| ______________________________________________ |
| ______________________________________________ |
| ______________________________________________ |

| Date:               ____ - _____ - ________ | Stamp: |
| Kilometre reading: ____________ km.        |
| Work carried out:                                            |
| ______________________________________________ |
| ______________________________________________ |
| ______________________________________________ |

| Date:               ____ - _____ - ________ | Stamp: |
| Kilometre reading: ____________ km.        |
| Work carried out:                                            |
| ______________________________________________ |
| ______________________________________________ |
| ______________________________________________ |

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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 claims will be admitted 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.
“You may contact us at any time if you have questions or if anything is unclear. Send an e-mail to info@vbairsuspension.com.”
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 spring suspension to full air suspension systems, we offer customers the ideal solution for a range of applications, such as ambulances, car transporters, motorhomes, 4x4 vehicles and pick-ups. Now you can see why an increasing number of truck and body manufacturers are incorporating VB-Airsuspension’s systems in their own ranges.