

• *Air-suspension*



General information VB-SemiAir / VB-CoilAir

Auxiliary suspension systems, like the VB-CoilAir and the VB-SemiAir, offer the possibility to, within limits, control any suspension problems oneself. Leaf-sprung vehicles and coil sprung vehicles require different auxiliary suspensions.

VB-SemiAir

On a vehicle with leaf springs, an air bellow is fitted between chassis and rear axle. This bellow supports the existing leaf spring.

The VB-SemiAir is supplied as a dual chamber system. The bellows are not in connection with each other. Making use of a dual chamber system allows left and right to be separated, which enables one to level the vehicle even when it is loaded unevenly. The VB-SemiAir has, therefore, two inflation valves.



VB-CoilAir

A vehicle with coil springs will take an air bellow inside the coil spring to support the spring.

The VB-CoilAir is supplied with a single chamber system (as standard), meaning that the bellows are connected with each other left and right. The VB-CoilAir system has only one inflation valve.



With both systems one can control the ride height, within limits, by varying the pressure in the bellows with the help of the inflation valve. This basic system is the starting-point for the adaptation and improvement of the suspension on your vehicle.

Each basic system, VB-CoilAir and VB-SemiAir, contains all necessary parts, to allow fitment to the particular make and model.

VB-Airsuspension supplies the majority of the kits with a brake regulator as standard. Most existing vehicles need this part for safe and reliable road behaviour and optimal braking performance.

The kit for the “basic system” auxiliary suspension* consists of:

- air bellows,
- brackets and reaction supports,
- various connecting material,
- various protection material,
- inflation valve(s).
- air fittings and connection fittings.
- air tube(s),
- brake regulator (if necessary),
- installation instructions.

(*) Depending of the make and model of the vehicle the contents may vary.

Auxiliary suspension offers the following advantages*:

- Higher ride height and increased suspension travel
- Better stability
- Body-roll will decrease when cornering (dual chamber system)
- Spring force can be varied
- Relatively cheap
- Body and load will be protected against damage
- Heavy loads are no longer visible from the outside (less sagging)
- Shock absorbers will work less and, therefore, last longer

(*) Depends on the starting-point.

Options

As an option, the system can be extended with a pressure control system, the VB-PCS (VB-Pressure Control System). Likewise, a further extension is possible with a (extra heavy) compressor kit, the VB-CK (VB-Compressor-Kit).

Both options are available in two versions: a single system kit for the VB-CoilAir (resp. VB-PCS1 and VB-CK1) and a dual system kit for the VB-SemiAir (VB-PCS2 and VB-CK2).

Pressure Control System (PCS)

If the control unit is installed in the cabin within reach, one can operate the suspension, either VB-SemiAir or VB-CoilAir, from the driver's seat. The special pressure protection valve will prevent the pressure inflated into the system from getting too high, thereby preventing the chassis from raising too much and the ride quality becoming uncomfortable.

The VB-PCS consists of the following parts:

Pressure-gauge(s), pressure protection valve(s) with fixing clip included, control panel.



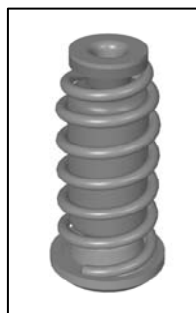
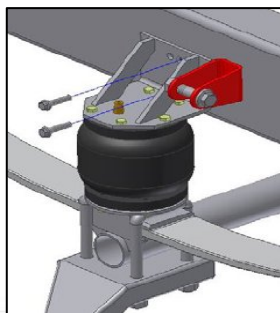
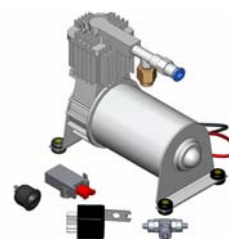
Compressor Kit (CK)

With this supplement to the basic system one can fill the air bellows of the VB-CoilAir or the VB-SemiAir from the driver's seat, provided the control panel in the cabin is within reach. With this feature, driving to the workshop or to a service station to take in air is no longer required. It makes it also possible to adjust the ride height on each side of the vehicle independently.

The supplement could be useful under circumstances like driving on to a ferry or going up or down a steep entrance where too little floor height may lead to problems. Using the compressor in the correct way enables you to, within limits, better level the vehicle whilst on a camp site, for example.

The compressor kit consists of the following components:

Compressor (incl. pressure protection valve, check valves, fittings), switch, electrical components, tubing.



The technical specifications are the standard VB-Airsuspension versions. Other specifications are on request.

VB-Airsuspension reserves the right to make changes without prior notification.

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