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W23-760-4261
COILRITE AIR SUSPENSION
MERCEDES VITO
2004 ONWARDS REAR WHEEL DRIVE
VERSION 2004 / 1

INSTALLATION INSTRUCTIONS

All work should be carried out in a properly equipped workshop with due regard to Health and Safety Regulations. No further reference to Health and Safety Regulations will be made, but they must be considered at all times. The kit should be opened and the contents checked against the parts list provided. Identify the various components and familiarise yourself with them using drawings and information provided.

Tools required: 13 mm spanner; tube cutter; pistol drill; 8mm mm drill bit.

WARNING: Do not inflate this assembly when it is unrestricted: it must be restricted by a coil spring with a textile sleeve. Do not inflate beyond the recommended operating pressure. Improper use or over inflation may cause property damage or severe personal injury.

PREPARATION OF VEHICLE: It is possible to install the Coilrite airsprings with the vehicle in its normal position on the road, but it may be easier if the coil springs are extended. To do this, raise the rear axle of the vehicle on a jack until the wheels are a few inches off the ground, support the body under the chassis and lower the rear axle to the ground again.

Remove the bump stops by pulling them down to unclip from the top spigots.



Decide which side of the vehicle to mount the inflation valve. The valve should be easily accessible but protected, and on the same side of the vehicle as you intend to mount the pressure gauge (if used): a suitable location for this is inside the rear of the vehicle.



Cut a generous length of air tubing to reach from the inflation valve to the bottom of the nearest coil spring, routing it along the chassis and suspension arm, allowing sufficient slack for suspension movement.

Insert one end of this tube into the air fitting in the airspring.

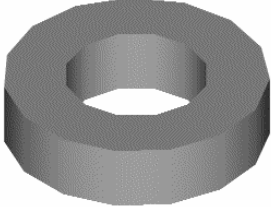
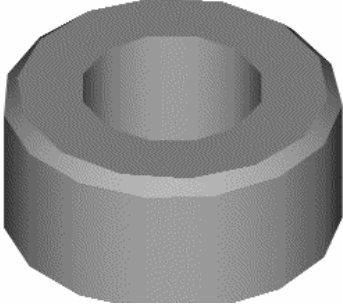


Tube cutter

Enlarge the holes in the plastic plugs holding the bottom of the coil springs to allow the air tubes to pass through.

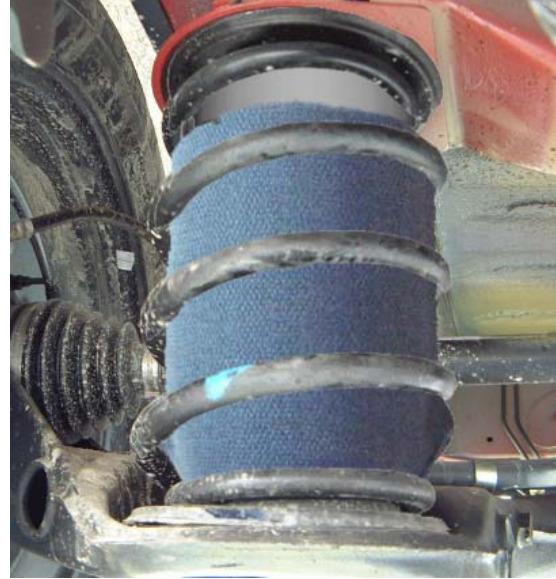


Drill & 8 mm bit

<p>Position the bottom spacers at the bottom of the coil springs.</p>		
<p>Position the top spacers so they cover the top spigots.</p>		
<p>Feed the air tube out through the hole in the bottom of the spring, and compress the airspring to insert it into the coil spring.</p>		

Cut another generous length of air tubing to reach from the bottom of the other coil spring to the tube coming from the first, routing it along the suspension arms so that it can be neatly held in place.

Insert one end of this tube into the air fitting in the second airspring feed the tube through the hole, and insert the airspring into the coil spring, as before.



Feed the tubes out up through the wishbones.

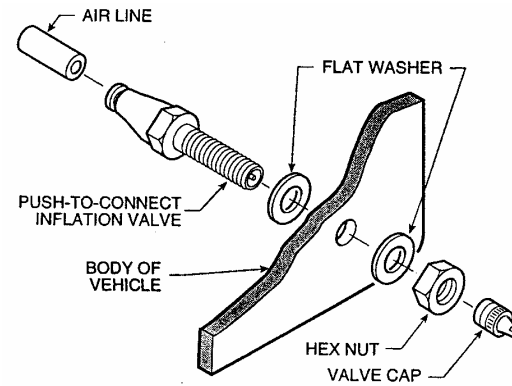
Cut the tube between the inflation valve and the first spring squarely, and insert a T fitting between the 2 ends. Connect the tube from the spring on the other side of the vehicle into the T fitting.



Protect the tube with the sleeving provided where there are any sharp edges.

Drill an 8 mm (5/16") hole and mount the inflation valve as shown, pushing the valve through the hole from behind and attaching with 2 washers and a nut.

Cut the air tube to length, making sure the end is cut squarely, and push the end as far as possible into the back of the inflation valve.



13mm spanner
Pistol drill and 8mm
bit
Tube cutter

OPTION: To mount a pressure gauge inside the rear of the vehicle. Cut the air tube squarely a short distance back from the inflation valve, and insert the ends of the tubes into a Tee fitting. Cut a length of tube long enough to reach from the T fitting to the gauge. Feed the air tube up from below and connect the tube into the gauge and the Tee fitting.

Attach the air tubing to the vehicle securely using nylon ties, making sure the tube is well clear of any sharp edges or sources of heat, with sufficient slack to allow suspension movement.

Do not attach to brake lines. Use protective sleeves supplied as necessary.

Inflate the air helper springs to 5 bar, which is the maximum recommended operating pressure and check for air leaks with soapy water.

For the best ride, use only enough air pressure in the springs to level the vehicle; this amount will vary depending on the load. It is recommended to deflate and inflate in small increments to find the ideal pressure for your vehicle.

Air pressure should be checked frequently and maintained between 2.5 and 5 Bar.

Damage to units may occur if pressure is too low.