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MB SPRINTER (2/3 Series)/ VW CRAFTER (28-35) **W21-760-3500**

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 pictures and information provided.

WARNING

Do not inflate this assembly when it is unrestricted. When installed, a minimum of 10 psi should be maintained in the air springs at all times to avoid damage. Do not inflate beyond 100 psi.

If it is necessary to raise the vehicle by the frame, deflate both air springs completely. Re-inflate the air springs after the vehicle is lowered to the ground.

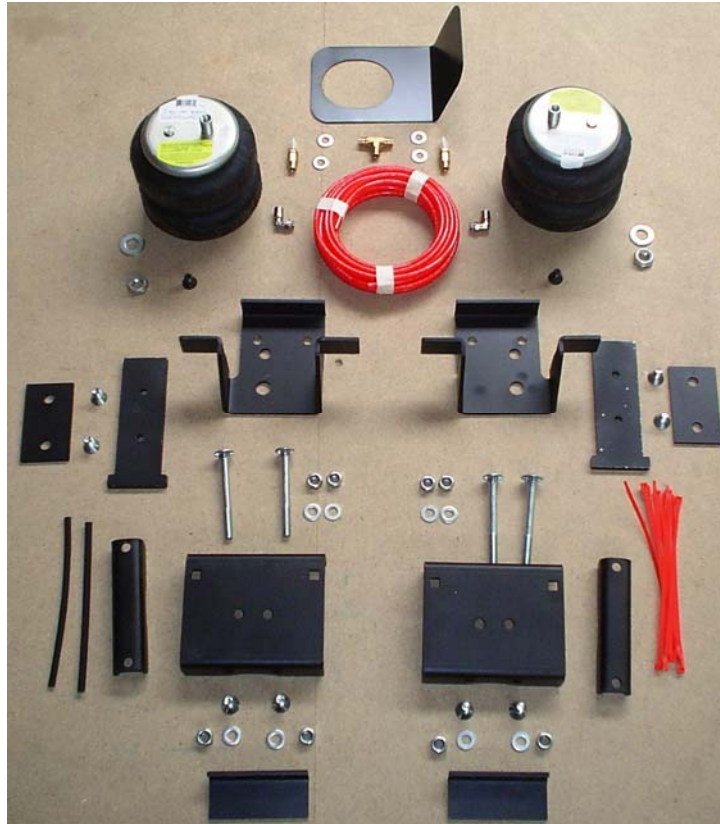
IMPORTANT

This kit is not designed to increase the GVW (Gross Vehicle Weight) of your vehicle. For your safety and to prevent possible damage to your vehicle, do not exceed the maximum load recommended by the vehicle manufacturer at any time.

Note: The assembly of this kit should be carried out by trained technical personnel. This is necessary, as auxiliary tools are required for assembly.



KIT CONTENTS



PREPARATION:

In order for the kit to be installed on the vehicle, it is necessary firstly to provide free space within the range of the rear axle. Usually, there are no additional components which could interfere with installing the kits in this space. However, if components are interfering with mounting the kit, then it must be clarified whether it is still possible to mount this kit or whether these additional parts can be moved accordingly. You must always take care not to interfere with the vehicle parts, e.g. brake hoses, cables etc. These could be jammed or damaged while assembling the kit. In order to ensure this does not occur, they may need to be partially shifted.

Parts List

Description	Quantity
Upper Bracket	1 (Handed)
Lower Bracket	2
Lower Bracket Clamp	2
Upper Clamp Plate	2
Spacer Plate	2
Axle Clamp	2
5/8" UNF Lock Nuts	2
5/8" Flat Washer	2
3/8" x 3/4" Countersunk Bolts	2
M10 x 20 Countersunk Bolts	4
M10 x 25 Countersunk Bolt	4
M10 Flat Washer	12

Description	Quantity
M10 x 140 Carriage Bolt	4
M10 Nyloc Nut	8
5/16" Flat Washer	4
Heat Shield	1
Cable Ties	6
Airspring	2
1/4" Tee Piece	1
1/4" Inflation Valve	2
1/8" Elbow	2
1/4" Tubing	5M
Thermal Sleeves	2

INSTALLATION

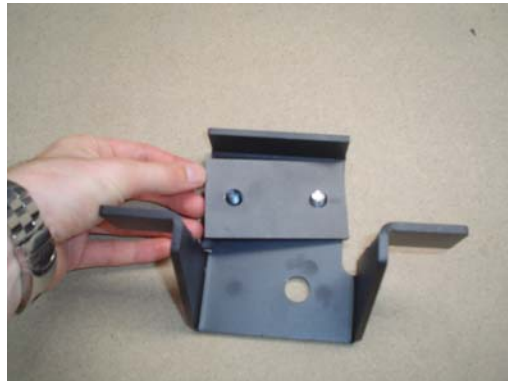
Remove the original bump stops located above the rear axle.



Slide the Upper Clamp Plate over the original bump stop location as shown. Ensure this plate is inserted from the rear of the vehicle.



Before the Upper Brackets can be bolted onto the upper clamp plate, a Spacer Plate must be fitted to the Upper Brackets as shown. Note that the upper brackets are handed. The picture on the right shows the Left side Upper Bracket.



Fasten the Upper Brackets including the Spacer Plate to the Upper Clamp Plate. Ensure the two flanges are facing outboard towards the wheel as shown. Secure in place using the M10 x 20 countersunk bolts.



Assemble the Lower Bracket and the Lower Bracket Clamp as shown using the M10 x 25 countersunk bolts, flat washers and nyloc nuts.



Bolt the Lower Brackets to the air spring using the 3/8"x 3/4"countersunk bolt.

Compress the air spring for ease of installation.

Note that the fittings related to the bags are imperial. Do not mix up the imperial and metric fittings.



Note that some models have an exhaust location which is close to the air spring assembly on the right hand side. In this instance a heat shield must be used to protect the bag. The heat shield will mount between the Upper Bracket and the air spring. Bend the heat shield so it is half way between the air spring and the closest point to the exhaust. Be sure that the heat shield will not contact any other components as the suspension compresses.



Fit the Lower Bracket in position. The circular cutout on the Lower Bracket should be resting on the axle on bolt sides.



The Lower Bracket Clamp must sit tightly between the 2 U-Bolts that hold the leafspring in place. This prevents the lower bracket from rotating on the axle.



Secure the upper bracket to the bag using the 5/8" Nyloc nut and flat washer.



The Lower Bracket is secured to the axle using the Axle Clamp and the M10 x 140 carriage bolts, washers and locknuts.



Insert the 1/8" elbow into the airspring as shown and route the 1/4" tubing to the inflation valve location.

Repeat the above steps for the opposite side.

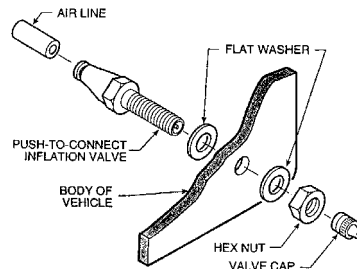


Decide which side of the vehicle to mount the inflation valve: a suggested location is at the front or rear of the rear wheel arch. It should be easily accessible but protected, and on the same side of the vehicle as you intend to mount the pressure gauge (if applicable): a suitable location for this is inside the rear of the vehicle.



Drill an 8 mm (5/16") hole and mount the inflation valve as shown in the diagram, pushing the valve through the hole from behind and attaching the 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 and the opposite end into the air spring fitting.



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 Tee fitting to the gauge. Feed the air tube up from below and connect the tube into the gauge and the Tee fitting.

IMPORTANT:

Do not attach air tubing to brake lines.

Protect the tube with sleeving where there are any sharp edges or sources of heat.

Examination:

After assembly, inflate air bellows and check all mounting bolts are tight. Screw all connections tight again. It must be ensured that the mounting brackets cannot move. If the plates touch the brake hose at the airspring, then these must be moved by suitable means.

Check for air leaks, using soapy water if necessary.