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Nissan Cabstar

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.

WARNING

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

IMPORTANT

This kit is not designed to increase the GVW 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.



Parts List

Description	QTY
Lower Bracket	2
Upper Bracket	2
Upper Bracket Clamp	2
Axle Strap	2
Upper Strap	2
3/8" spring Washer	2
Air Spring	2
Straight air Fitting	2
Nylon Ties	10
5/16 Flat Washers	4

Description	QTY
M10 Flat Washer	20
M10X75 Bolt	4
M10X90 Bolt	4
M10 Locknuts	12
3/8X3/4 UNC C'Sink Bolt	2
3/8X3/4 UNC Hex Bolt	2
Tee Piece	1
1/4" Pneumatic Tubing	5M
Inflation Valve	2

Special Instructions for Air Connections



1. To cut the tubing correctly an appropriate cutter must be used (not a scissors)
2. When inserting the tubing into the connection it must be pushed in approximately 14mm until a click is heard.
3. To remove the tube, push the flange on the connection and at the same time pull the tube. (No tool is necessary.)
4. ATTENTION, when a tube is removed it is important to trim 14mm from the end before reconnection.
5. IT is advisable that LOCKTITE be used on the threaded fittings.

Important

- The Installation manual should be read entirely before beginning assembly.
- This kit does not increase the G.V.W. (gross vehicle weight) of your vehicle, for your safety and to avoid any damage to your vehicle do not exceed the maximum loading recommended by the manufacturer.
- Do not inflate air bags before assembly.
- Once the kit is installed, do not exceed the max and min pressure limits, incorrect use or over inflation can cause deterioration of your suspension.

PREPARATION:

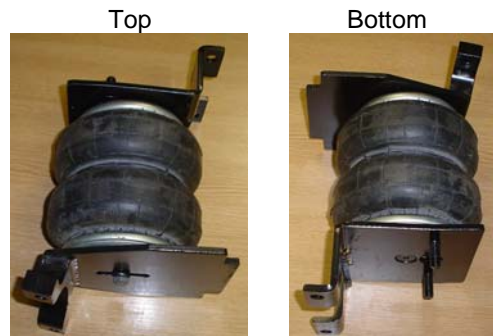
In order for the kit to be installed on the vehicle, it is necessary firstly to provide free space within the range of the rear axle. Usually, there are no additional components which could interfere with installing the kits in this space. However, if components are interfering with mounting the kit, 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 must be partially shifted.

Installation

Fit the air spring to the lower bracket as in the photo using the 3/8" UNC hex bolt and spring washer; do not fully tighten the bolt.

Fit the upper bracket to the top of the airspring using the 3/8" countersunk bolt.

Screw in the straight air fitting to the top of the air spring.



Compress the airspring assembly and fit it between the chassis and the axle as shown.




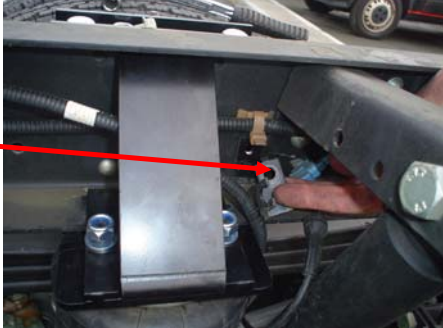
Note that the outboard end of the lower bracket must be sitting on the flat surface between the two U-Bolts.



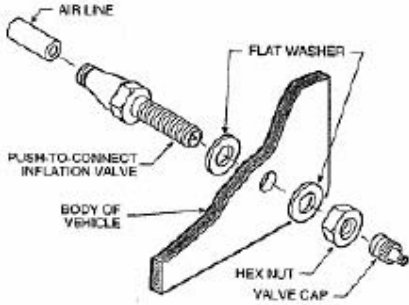
The upper bracket fits between the existing bump stop bracket. The angled flange must be resting against the chassis as shown.



Place 2 x M10 flat washers over each of the M10 studs as shown. These will act as spacers.



<p>Fit the upper clamp plate to the upper bracket with the flange pressing against the inside of the chassis C-Section. Make sure that the base of the chassis is clamped between the upper bracket and the clamp plate and then secure fully with M10 Nuts and washers.</p>	
<p>Use the Upper strap with the M10 x 90 Bolts, Nuts and washers and secure in place as in the photo. Do not fully tighten the bolts as some adjustment may be needed later on.</p>	
<p>Secure the Lower Bracket to the axle using the axle strap with the M10 nuts and washers along with the M10X75 bolts.</p>	
<p>Make sure the air spring is correctly aligned and then fully tighten the 3/8" UNC hex bolt on the lower bracket. Tighten all remaining nuts and bolts.</p>	
<p>Note that the airbag should not come into contact with any part of the vehicle as this will cause the rubber to wear. The brake line bracket that is bolted to the chassis must be removed and reversed with its opposite side. (Put the left bracket on the right and vice versa)</p>	

<p>The bracket arm will now be more rearward and will prevent the brake lines from coming into contact with the bags.</p>	
<p>Check the position and the alignment of the air spring making sure that it will not interfere with any other part of the vehicle, and then tighten all bolts.</p>	
<p>Choose whether you want separate inflation valves for each side or one valve common to both sides using the T shaped connector.</p>	
<p>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 with 2 washers and a nut.</p> <p>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.</p>	 
<p>Route the tubing along the frame work to the straight fitting in the top of the spring. Use the nylon ties provided to tie the tubing up into a safe position.</p> <p>In the case of using one common inflation valve the tee piece must be used by routing the tubing from the air springs into two of the holes in the tee piece and another piece of tubing rooted from the remaining hole to the inflation valve.</p>	

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.

IMPORTANT:

Attach all tubing securely to the underneath of the vehicle using nylon ties.

Do not attach to brake lines.

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

If the vehicle is fitted with ABS and Load Sensing Valve (LSV), then adjust the LSV to give maximum braking (1:1).

If the vehicle is fitted with ABS and no LSV, then no brake adjustment is required.

For vehicles without ABS, please contact us on +353 1 4507833.

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 can not move. If the plates touch the brake hose at the air bellows, then these must be moved by suitable means.