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W21-760-3458
Nissan D21, D22
4 Wheel Drive

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	Quantity
Bottom Bracket	2
Top Bracket	2
Cable Ties	10
Thermal Sleeves	2
267C 1/4" NPT Air Bellows	2
18 ft. 1/4" Tubing	1

Description	Quantity
3/8-16 Flange Locknut	4
3/8-16 x 3/4 Flange Lock Bolt	2
1/4" Elbow	2
1/4" Inflation Valve	2
5/16 Flat Washer	4
1/4" Tee Piece	1

1 PREPARATION

REMOVE THE RUBBER BUMP STOPS

Your vehicle is equipped with a rubber bump stop which is bolted to the chassis frame. Remove this bump stop and discard. Be sure to save the bolts that were used to remove the bump stop. The bolts will be used to attach the upper mounting bracket.



2 INSTALLATION

MOUNT UPPER AND LOWER BRACKETS TO BELLOWS




Note that the lower mounting bracket has a slot for mounting the bellows to the bracket. The bellows should be positioned so that at least 1" clearance from tyres, frame or other obstructions is achieved. Fasten the lower bracket to the bellows using 3/8" hex head bolts and spring washers provided. The top of the bellows has two studs and an air entrance hole. Attach the upper bracket to the top of the bellows using the 3/8" hex nuts and spring washers provided making sure that the air entrance hole is exposed in the bracket opening. Do not tighten these nuts yet.



INSTALL THE ELBOW FITTING

Install the elbow fitting in the air entrance hole on the top plate of the bellows. The elbow air fittings in your kit have a coating of thread sealant already applied to the threads. No addition sealant is needed. Tighten until the elbow is pointing away from the tyre and any sharp edges (see drawing). Next, cut the air line into two equal lengths, making the cut as square to the axis of the tubing as possible. Do not fold the tubing to cut it in half. This would create an uneven cut and a potential for leaks. Insert one end of the tubing into the elbow and push until a positive click is felt.



<p>INSTALL THE ASSEMBLY ON THE VEHICLE</p> <p>Set the assembly in place over the leaf spring pack as shown in drawing. The lower bracket is fitted using the leaf spring U-bolts that are first removed and then refitted with the mounting bracket in place. It is important to observe the tightening torque on these U-bolt nuts as recommended by your vehicle manufacturer.</p>	
<p>Tighten the upper bracket to the bellows. Using the bolts that held the bump stop in place, bolt the upper bracket to the chassis frame as shown in picture.</p> <p>Repeat procedure for opposite side of the vehicle.</p>	
<p>INSTALL THE AIR LINE</p> <p>Select locations on the vehicle for the air inflation valves. The locations can be on the bumper or on the body of the vehicle. Drill a 5/16" hole and install the air inflation valve. Run the tubing from the bellows to the valve, routing it so that it will be protected from the direct heat of the exhaust system, and away from sharp edges. Secure the tubing in place with nylon ties.</p>	
<p>CHECK THE AIR SYSTEM</p> <p>Once the inflation valves are installed, inflate the bellows to the recommended pressure and check the fittings for air leaks with a solution of soap and water. If a leak is detected at a tubing connection then check to make sure that the tube is cut as square as possible and that it is pushed completely into the fitting. If a leak is detected where the elbow fitting screws into the spring, then screw the elbow into the spring one additional turn until the leak stops. This completes the installation. To prevent possible damage, maintain a minimum of 20 psi in the air bellows at all times!</p>	
<p>FAILURE TO MAINTAIN MINIMUM PRESSURE WILL VOID YOUR WARRANTY</p>	

