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W21-760-3126

Renault Master

Rear Axle Kit

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

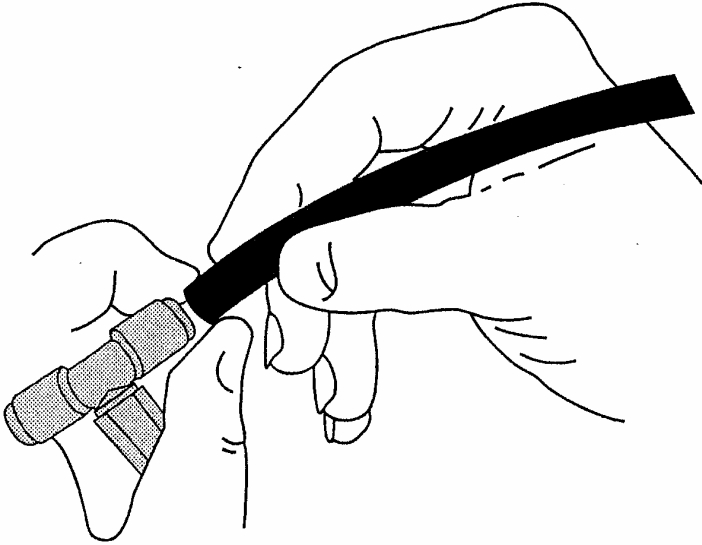
Do not inflate this assembly when it is unrestricted. When installed, a minimum of 10 psi should be maintained in the air bellows at all times to avoid damage. Do not inflate beyond 100 psi.

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.

Tools required:

Jack or 4 post lift or other means of raising vehicle ; Torque wrench ; 22, 17, 16, 14, 13, 10, 7,6 and 5 mm spanners ; screwdriver ; 5.5 mm and 3/32 inch Allen keys ; crimping tool ; tube cutter ; wire cutters ; Pistol drill ; 8 mm, 8.2 mm, 8.5 mm drill bits Measuring tape; torx screwdriver size 20 ; hacksaw.



SPECIAL INSTRUCTIONS FOR AIR FITTINGS

1. Cut the air tube cleanly at right angles using a special cutter or similar (not scissors). It is important to cut squarely to avoid leaks.
2. Insert the tube into the fitting by pushing hard. You will feel/hear a click. (The tube must go about 14 mm into the fitting.)
3. To take the tube out, just push back the collar on the fitting and pull out the tube. (No tools needed.)
4. **WARNING** When you have taken the tube out of the fitting, cut 14 mm off the tube before re-inserting it.

PARTS LIST

Referance no.	Description	Qty
06	Elbow air fitting 1/4bsp /1/4	2
07	T air fitting 1/4/1/4/1/4	1
11	Nylon tube 1/4 Ø	5 M
52	Bracket top airspring rh RS1R	1
53	Bracket top airspring lh RS1L	1
54	Bolt countersunk 3/8 unc x 1/2	4
55	Bolt 3/8 unc x 3/4	2
56	Washer Spring 3/8	2
57	Bracket bottom airspring RS2	2
58	U bolt 14 mm	4
59	Nut nyloc M14	8
60	Washer hardened M14	8

Position the bottom airspring brackets (57) on the axle up against the spring seat. Secure the u-bolts(58) with hardened washers (60) and nylocs. (59) Do not torque yet.



22 mm spanner

Make sure the outside of the tower rests against the bottom of the spring seat to prevent rotation. Give clearance to brake lines.

Remove bump stops, but keep the bump stops and their bolts.






16 mm spanner

Attach the airbags to the top airspring brackets (52 and 53) with countersunk screws (54).



Allen key 5.5 mm

<p>Screw an elbow air fitting (06) into top of each airspring.</p>		14 mm spanner	Use Loctite (19)
<p>Replace the bump stops sandwiching the top airspring brackets in between.</p>		16 mm spanner	RS1R on the right of the vehicle, RS1L on the left, with the airspring at the rear.

Bolt the bottom of each airspring to the bottom bracket with bolts (55) and spring washers (56).		14 mm spanner	Adjust top brackets if necessary to align airsprings.
Fully torque the U-bolt nuts.		Torque wrench	150 Nm.
Fully torque the bottom airspring bolts.		Torque wrench	25 Nm.
Fully torque the bump stop bolts.		Torque wrench	50 Nm.
<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>			

CHECK THE AIR SYSTEM

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 10 psi in the air bellows at all times!

FAILURE TO MAINTAIN MINIMUM PRESSURE WILL VOID YOUR WARRANTY