

DRIVE▶RITE

AIR SUSPENSION SYSTEMS

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DR.02.013123

W21-760-3123

RENAULT MASTER / NISSAN INTERSTAR

OPEL & VAUXHALL MOVANO

Heavy Duty, 1998-2009

INSTALLATION INSTRUCTIONS



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Introduction

The purpose of this publication is to assist with the installation of the DR.02.013123 kit.

It is important to read and understand the entire installation guide before beginning installation or performing any maintenance, service or repair. The information here includes a hardware list and step-by-step installation information.

Drive-Rite reserves the right to make changes and improvements to its products and publications at any time. Contact Drive-Rite at +353 1 8612 632 or visit us online at www.driveriteair.com for the latest version of this manual.

IMPORTANT SAFETY NOTICE

The installation of this kit does not alter the Gross Vehicle Weight Rating (GVWR) or payload of the vehicle. Check your vehicle's owner's manual and do not exceed the maximum load listed for your vehicle.

Gross Vehicle Weight Rating = the maximum allowable weight of the fully loaded vehicle (including passengers and cargo). This number — along with other weight limits, as well as tire, rim size and inflation pressure data — is shown on the vehicle's Safety Compliance Certification Label.

Payload: The combined, maximum allowable weight of cargo and passengers that the truck is designed to carry. Payload is GVWR minus the Base Curb Weight.

Precautions

Never exceed the maximum and minimum recommended pressure limits:

- Minimum Pressure 1 Bar (14.5 p.s.i)
- Maximum Pressure 7 Bar (100 p.s.i)

NEVER DRIVE WITH DEFLATED AIRSPRINGS

Special Instructions for Air Connections

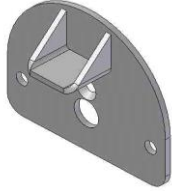
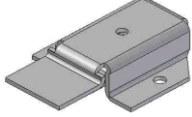
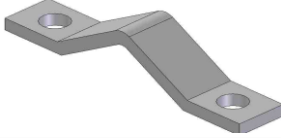
- To cut the tubing correctly an appropriate cutter must be used (not scissors)



- When inserting the tubing into the connection, it must be pushed in approximately 14mm until a 'click' is heard.
- To remove the tube, you must push the flange in on the connection and at the same time pull the tube. (No tool is necessary.)
- **ATTENTION**, when a tube is removed it is important to trim 14mm from the end before reconnection.
- It is advisable that LOCTITE or similar sealant be used on the threaded fittings.

Kit Contents

↓ HARDWARE LIST

Description	Quantity	Picture/Description	Part #
Upper Bracket	2		DRV-7019
Lower Bracket	2		
Axle Strap	2		
M10 x 1.5 - 40mm Countersunk Bolt	4	Top Bracket to vehicle	
M10 Flat Washers	8	For Axle Strap	0079
M10 Nyloc nut	4	For Axle Strap	3843
M10 x 75 Hex Head Bolt	4	For Axle Strap	0148
3/8" UNC x 3/4" Countersunk Screw	2	Top Bracket to air spring	0111
3/8" UNC x 3/4" Flange Bolt	2	Bottom Bracket to air spring	3069
Air Spring	2	Double Convolute	6784
Air Fitting 1/4" to 1/4" Straight	2		3046
Tee Piece 1/4"	1		3025
Inflation Valve 1/4"	2		3032
5/16 Flat Washer	4	For inflation valves	3033
Cable Tie	10		
Tubing 1/4"	5m		1141-1M
Thermal Sleeves	2		0899

Step by Step Installation

Step 1: Prepare the Air Spring Assembly

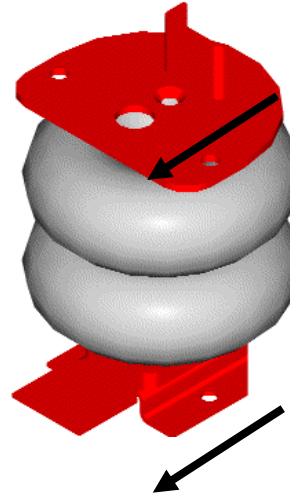
Using 3/8 UNC x 1/2" countersunk bolts assemble the Upper Brackets to the Air Springs.

Screw in the 1/4" to 1/4" air fittings to the top of the Air Springs. *The use of thread sealant is recommended here.*

Using the 3/8 UNC x 1" bolts, connect the Lower Brackets to the air springs as shown in the diagram.

So that the tongue at the bottom is on the same side as the large air fitting hole at the top.

Tighten the bolts to 25Nm.



Step 2: Air Spring Assembly to Chassis

Remove the bump stops and keep the bolts later.

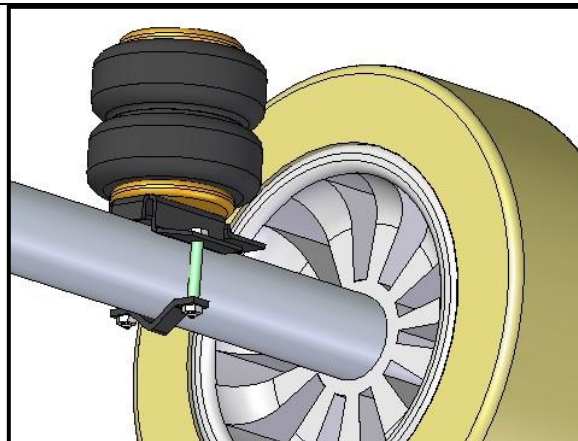
Feed the whole Air Spring assembly up onto the chassis, with the "tower" on the inner side of the chassis rail.

Secure the Upper Bracket to the chassis with the original bump stop bolts. *(To make this easier, compress the Air.)*

Step 3: Lower Bracket to Axle

Fit the Bottom Bracket on the axle tube and secure with Axle strap, bolts, nuts and washers. The tongue should just touch the spring.

Fully torque the axle strap and bump stop bolts to 50Nm.



Step 4: Routing the Air Tubing

Cut a long length of tubing in order to connect the valve to the nearest air spring. Do the same for the opposite side. Choose whether you want separate inflation valves for each side or one valve common to both sides using the T shaped connector. Use the nylon ties provided to tie the tubing up into a safe position.

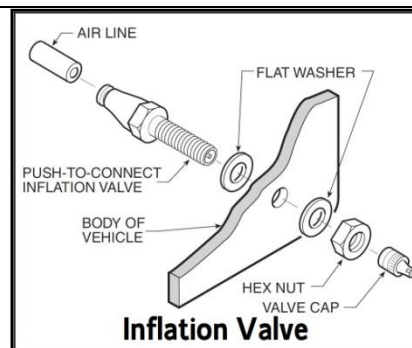


When cutting the air tube, it is vital that the tube is not cut at an angle. This could cause an air leak. It is recommended that a tube cutter or a sharp blade.



Drill an 8mm (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.

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.



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 sleeves provided where there are any sharp edges or sources of heat.

Examination:

After assembly, inflate air springs 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 air springs, then these must be moved by suitable means.

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


For vehicles without ABS and have a LSV fitted you will need to fit the brake modulation kit. X70 LSV kit available, contact Drive-Rite for details.

For vehicles without ABS, please contact us on +353 1 8612632.



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TÜV SÜD AUTOMOTIVE GMBH Westendstrasse 199 D-80686 München		 Automotive
Teilgutachten Nr.:	11-00576-CX-GBM-01	
Hersteller:	Driverite Ltd.	
Typ:	DR.02.013123	Seite 1 von 7

TEILEGUTACHTEN

Nr. 11-00576-CX-GBM-01
TGA-Art: 8.1

über die Vorschriftsmäßigkeit eines Fahrzeuges bei bestimmungsgemäßem Ein- oder Anbau von Teilen gemäß § 19 Abs. 3 Nr. 4 StVZO

für das Teil / den Änderungsumfang : Zusatzluftfedersystem für die Achse 2

vom Typ : DR.02.013123

Ausführungen: : DR.02.013123/DR.11.012196
DR.02.013123/DR.11.026534
DR.02.013123/DR.11.006110
DR.02.013123/DR.11.012236
DR.02.013123/DR.11.016113
DR.02.013123/DR.11.006112
DR.02.013123/DR.11.012436
DR.02.013123/DR.11.012332

des Herstellers : Driverite Ltd.
Unit 626 Kilshane Avenue, North West Business Park,
Ballycoolin
IRL - 15 Dublin

für das Fahrzeug : Renault Master / Nissan Interstar / Opel Movano

0. Hinweise für den Fahrzeughalter

Unverzügliche Durchführung und Bestätigung der Änderungsabnahme:
Durch die vorgenommene Änderung erlischt die Betriebserlaubnis des Fahrzeuges, wenn nicht unverzüglich die gemäß StVZO § 19 Abs. 3 vorgeschriebene Änderungsabnahme durchgeführt und bestätigt wird oder festgelegte Auflagen nicht eingehalten werden!
Nach der Durchführung der technischen Änderung ist das Fahrzeug unter Vorlage des vorliegenden Teilgutachtens unverzüglich einem amtlich anerkannten Sachverständigen oder Prüfer einer Technischen Prüfstelle oder einem Prüfingenieur einer amtlich anerkannten Überwachungsorganisation zur Durchführung und Bestätigung der vorgeschriebenen Änderungsabnahme vorzuführen.

Einhaltung von Hinweisen und Auflagen:
Die unter III. und IV. aufgeführten Hinweise und Auflagen sind dabei zu beachten.

Mitführen von Dokumenten:
Nach der durchgeführten Abnahme ist der Nachweis mit der Bestätigung über die Änderungsabnahme mit den Fahrzeugpapieren mitzuführen und zuständigen Personen auf Verlangen vorzuzeigen; dies entfällt nach erfolgter Berichtigung der Fahrzeugpapiere.

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von der Akkreditierungsstelle des Kraftfahrt-Bundesamtes, Bundesrepublik Deutschland

TÜV Certificate Available, contact Drive-Rite for details

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