

DRIVE▶RITE

AIR SUSPENSION SYSTEMS

Unit 626 Kilshane Avenue, North West Business Park, Ballycoolin, Dublin 15, Ireland

Telephone: +353 1 8612 632 Fax: +353 1 8612 647 email: info@driveriteair.com

Web: www.driveriteair.com

DR.02.013127

W21-760-3127

RENAULT MAXITY, NISSAN CABSTAR

3.5 Tonne

INSTALLATION INSTRUCTIONS



Table of Contents

Table of Contents.....	2
Introduction.....	3
IMPORTANT SAFETY NOTICE.....	3
Special Instructions for Air Connections	3
Kit Contents	4
HARDWARE LIST	4
Step by Step Installation	5
Step 1: Prepare the Air Spring Assemblies	5
Step 2: Fit the Air Spring Assembly into position	5
Step 3: Upper Bracket Chassis Clamp to Upper Bracket.....	6
Step 4: Secure the Air Spring Assembly with Strap Brackets	6
Step 5: Precautions	6
Step 6: Routing the Air Tubing	7

Introduction

The purpose of this publication is to assist with the installation of the DR.02.013127 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

Note: Any torque values given are for general information, not for specific installation. Always use the torque values of the factory service manual if they differ from the torque values recommended here.

Special Instructions for Air Connections

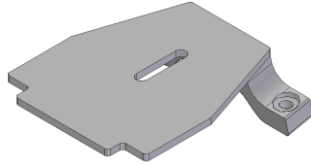
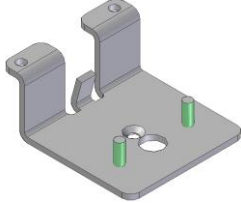
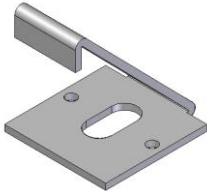
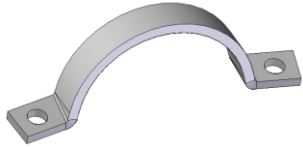
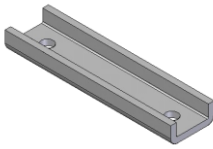
- To cut the tubing correctly an appropriate cutter must be used (not scissors)



- 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

Name	Quantity	Picture/Description	Part #
Lower Bracket	2		DRV-7231
Upper Bracket	2		DRV-7232
Upper Bracket Chassis Clamp	2		DRV-7233
Axle Strap	2		DRV-7234
Upper Strap	2		DRV-7235
M10 Flat Washer	20	Spacers, M10 Bolts	0079
M10x1.5-75mm Bolt	4	Axle Strap to Lower Bracket	0148
M10x1.5-90mm Bolt	4	Upper Strap to Upper Bracket	
M10 Nylocs	12	M10 Bolts, Upper Bracket	3843
3/8" UNC x 3/4" Countersunk Screw	2	Upper Bracket to Air Spring	0111
3/8" UNC x 3/4" Hex Head Bolt	2	Lower Bracket to Air Spring	3069
Air Spring	2		6784
Straight Air Fitting	2		3046
1/4" Tee Piece	1		3025
1/4" Inflation Valve	2		3032
Cable Tie	10		9037
1/4" Tubing	5m	18 Feet	1141-1M

Step by Step Installation

Step 1: Prepare the Air Spring Assemblies

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.

It is recommended that sealant is used to help secure the air fitting to the air spring.



Lower Bracket



Upper Bracket

Step 2: Fit the Air Spring Assembly into position

Compress the Air Spring 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 brackets. 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.*



Step 3: Upper Bracket Chassis Clamp to Upper Bracket

Fit the Upper Bracket Chassis Clamp 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 Upper Bracket Chassis Clamp and then secure fully with M10 Nuts and washers.



Step 4: Secure the Air Spring Assembly with Strap Brackets

Use the Upper Strap with the M10x1.5-90mm Bolts, M10 Nuts and washers to secure in place, as in the photo. *Do not fully tighten the bolts as some adjustment may be needed later.*

Secure the Lower Bracket to the axle using the Axle Strap with the M10 nuts and washers along with the M10x1.5-75mm bolts.



Upper Strap



Axle Strap

Step 5: Precautions

Note that the Air Spring 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)*



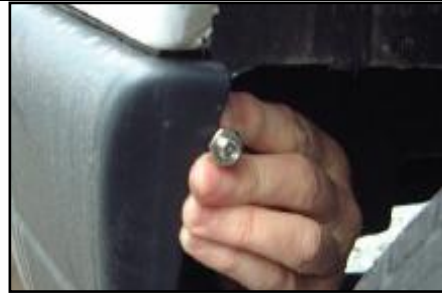
The bracket arm will now be more rearward and will prevent the brake lines from coming into contact with the bags.

Make sure the Air Spring is correctly aligned and then fully tighten the 3/8" UNC hex bolt on the Lower Bracket. Then **tighten all remaining nuts and bolts.**



Step 6: 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.

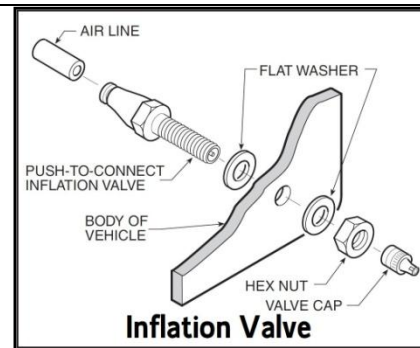


When cutting the air tube, it is vital that the tube is not cut at an angle. This could cause an air leak. It is recommended that a tube cutter or a sharp blade.



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.

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



DRIVE▶RITE

AIR SUSPENSION SYSTEMS

Unit 626 Kilshane Avenue, North West Business Park, Ballycoolin, Dublin 15, Ireland

Telephone: +353 1 8612 632 Fax: +353 1 8612 647 email: info@driveriteair.com

Web: www.driveriteair.com