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.02.013475

W21-760-3475

TOYOTA HILUX VIGO 2006-2012
ISUZU D-MAX 2012-Current

INSTALLATION INSTRUCTIONS

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Introduction

The purpose of this publication is to assist with the installation of the DR.02.013475 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 for 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.

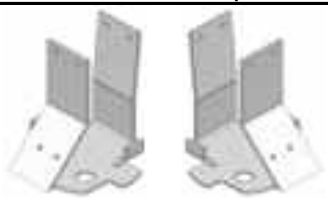
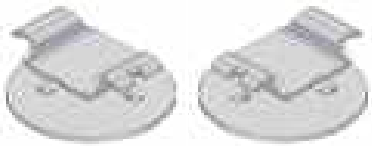
Kit Contents

Diagram




Lower Left **Upper Left** **Upper Right** **Lower Right**

HARDWARE LIST

Description	Quantity	Picture/Description	Part No.
Upper Bracket	1 (Handed)		DRV-7171-02
Lower Bracket	1 (Handed)		DRV-7172-02
M8x1.25-100 Bolt	4	Upper Bracket to Chassis	3859
M8x1.25-20 Bolt	1		0004
M8 Flat Washers	6	For M8x1.25-100 bolts	0007
M8 Spring Washers	4	For M8x1.25-100 bolts	0011
M8 Locknut	5	For M8x1.25-100 bolts	0033
3/8" x 3/4"UNC Countersunk Bolt	4	Lower bracket to Air Spring	0111
Cable Ties	12		9037
3/8" UNC Flange Locknut	4	Upper bracket to Air spring	3022
3/8" Flat Washer	4		0071
5/16 Flat Washer	4	For Inflation Valves	3638
224C-1.5 Air Bellows	2		6859
1/4" Tee Piece	1		3025
1/4" Inflation Valve	2		3032
1/4" to 1/4" Elbow	2		3031
1/4" Tubing	5M		1141-1M

Step by Step Installation

Step 1: Assemble the Brackets and Air Spring

Assemble the Upper Bracket to the air spring using the 3/8 UNF Flange Locknut. Screw in the 1/4" elbow air fittings to the top of the air springs. The use of thread sealant is recommended here.

Using 3/8 UNC x 3/4" Countersunk bolts, attach the lower brackets to the air springs, ensuring the brackets are orientated as shown.

Tighten the bolts to 25Nm.

Align the Upper and Bottom bracket as shown in the photograph, *ensuring that the flanges of the Upper Brackets are running in line with the flanges of the Lower Bracket.*

Bottom Right **Top Right**

Step 2: Remove the Bump Stops

Raise the rear of the vehicle and drop the back axle to allow as much space to work with as possible. ***Do not over stretch and brake lines or cables.***

Loosen the U-bolts on the leaf springs and remove the bump stops.

Step 3: Prepare the Air Spring assembly

Compress the air spring assembly and hold it compressed using an Inflation valve as shown.

Step 4: Air Spring assembly to Vehicle

Place the assembly between the chassis and leaf spring.

Ensure that the air spring assembly is facing inboard (towards the centre of the vehicle).

Slip the U-bolts over the Lower Brackets as shown in the picture below.

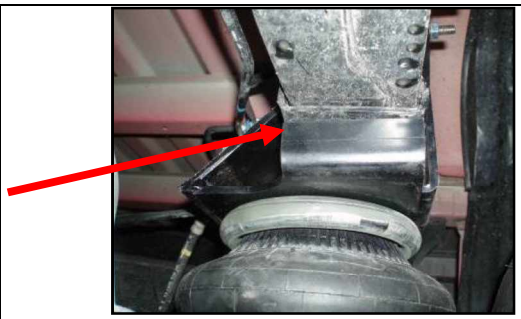
Attach the Upper Brackets to the chassis using the M8 Bolts with washers and Nyloc nuts. Tighten the Upper Brackets until the bracket has pulled in to rest against the upper part of the chassis on both sides.

Step 5: Secure the Upper Bracket

Attach the Upper Bracket so that the front and rear flanges sits on the chassis bracket as shown.

The flat area of the Chassis Bracket should be fully resting on the Upper Bracket.

Torque the U-bolts to 165Nm, +/- 10%.



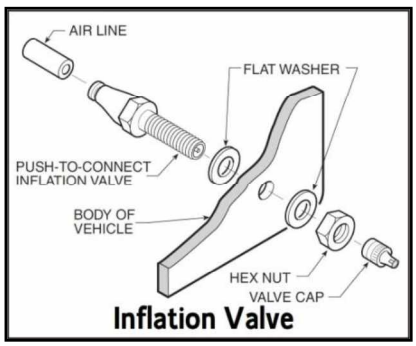
Step 6: Routing the air tubing

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.

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