

DRIVE▶RITE

AIR SUSPENSION SYSTEMS

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DR.02.003447

W21-760-3447

FORD TRANSIT FT350

REAR AXLE, REAR WHEEL DRIVE

From 2004, ABS Vehicles Only

INSTALLATION INSTRUCTIONS



Ford Transit Model 2004 – 2014



New Ford Transit 2014

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Introduction

The purpose of this publication is to assist with the installation of the DR.02.003447 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.

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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)



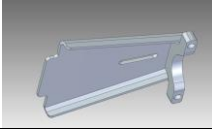

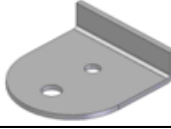

- When inserting the tubing into the connection, it must be pushed in approximately 14mm until a 'click' is heard.
- To remove the tube, you must push the flange in on the connection and at the same time pull the tube. (No tool is necessary.)
- **ATTENTION**, when a tube is removed it is important to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

.Kit Contents

Diagram



HARDWARE LIST

Name	Qty	Picture/Description	Part No.
Lower Bracket	2		DRV-7530
Upper Bracket	2		DRV-7220
Anti-Twist Plate	2		DRV-7221
Clamp	2		DRV-7217
M10 Locknuts	4	for M10 x 65 bolts	3843
M10x1.5-65 Bolts	4	Tighten lower bracket to Clamp	098191
M10 Washers	8	for M10 x 65 bolts	0079
M10x1.5-40 countersunk Bolts	2	Upper Bracket to Chassis (Opt A)	
M10x1.25-40 countersunk Bolts	2	Upper Bracket to Chassis (Opt B)	0119
Cable Ties	10		9037
Thermal Sleeves	2		0899
Air Springs	2	267C1.5 Style	6397
1/4" Tubing	5m	18 feet	1141-1M
5/8-18 UNF Half Nut	2	Upper Bracket to Air Spring	3332
5/8 Flat Washer	2	Upper Bracket to Air Spring	3896
3/8 x 3/4 Flange Lock Bolt	2	Bottom Bracket to Air Spring	3069
1/8" Swivel Elbow	2		3053
1/4" Inflation valve	2		3032
5/16 Flat Washer	4	For Inflation valves	3638
1/4" Tee piece	1		3025

Step by Step Installation

↘ Step 1: Remove the Bump Stop

Raise the chassis from the axle to create enough room to remove the bump stops.

NOTE: Do not strain any brake lines or cables.

Remove the bump stop assembly. These holes will be used to locate the upper brackets. Detach the ABS cables from the holder on the left hand side of the vehicle.

Take note of the thread on the bump stop as it may be a **standard** or **fine thread**. There are Countersunk Bolts provided in the kit to suit both sizes. The correct sized bolt must be used.



↘ Step 2: Upper Bracket to Chassis

Position the upper brackets so that the folded up part of the bracket is facing up and is outside the frame in place of the original bump stops using the correct M10 countersunk bolts that have been determined in Step one. (Discard the other two M10 countersunk bolts).

(Torque to approx. 38Nm for Standard Thread, Torque to approx. 43Nm for Fine Thread).



↘ Step 3: Lower Bracket to Air Spring

Fix the Lower Brackets on the air springs using the 3/8x3/4 Flanged Lock bolts. (Torque to approx. 20-25Nm.)

The Lower Bracket has an oblong hole in order to be able to orientate the air spring in the transverse direction. **Do not tighten the screw before the air spring is positioned correctly.**



↘ Step 4: Place the anti-twist plate

Position the anti-twist plate onto the air spring ensuring that the stud fits into the correct hole.



↘ Step 5: Upper Bracket/Air Spring assembly to chassis

Place the air spring and bracket assembly on the frame and the axle to check the direction of the anti-twist plate.

The bend in the anti-twist plate should be on the inside side of the chassis frame.

Attach the anti-twist plate and the air spring onto the upper bracket using the 5/8-18 nut. This bracket has an oblong hole in order to enable you to orientate the air spring in the longitudinal direction. Install the air fitting onto the air springs.

(Torque to approx. 55-60Nm for 5/8" fittings)



↘ Step 6: Lower Bracket/Air Spring assembly to axle

Fix the lower bracket onto the axle using the axle straps and the M10x1.5-50 screws and M10 nuts.

(Torque to approx. 38Nm)

Take care not to touch the brake line with the support, if need be twist the break line slightly.

Check that the alignment of the air spring is good and not in contact with any other component of the vehicle. Tighten the screw on the lower bracket and the nut on the upper bracket.



↘ Step 7: Connect the Elbows

Screw the elbow connections onto the air bags. Then pass the ABS cable through the higher notch in the air bag bracket.

It is advised to use sealant on the elbow fittings.



Step 8: 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.

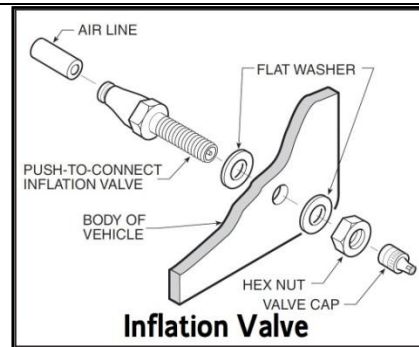


When cutting the air tube, it is vital that the tube is not cut at an angle. This could cause an air leak. It is recommended that a tube cutter or a sharp blade be used.



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.
- Ensure all fittings are fastened to recommended torque.

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.



TÜV SÜD AUTOMOTIVE GMBH Westendstrasse 199 D-80686 München		
Teilgutachten Nr.: Hersteller: Typ:	12-00489-CX-GBM-00 Drive-Rite Ltd. DR.02.0034...	Seite 1 von 9
TEILEGUTACHTEN Nr. 12-00489-CX-GBM-00 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 : Zusatz-Luftfedersystem an der Achse 2		
vom Typ	: DR.02.0034...	
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für das Fahrzeug	: Ford Transit / Tourneo	

TÜV Certificate Available, contact Drive-Rite for details

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