Arnott®
Suspension Products

INSTALLATION MANUAL

AH-5653
Arnott New Rear Air Helper Spring
Ford Transit V363 FWD



Engineered to Ride, Built to Last®

CONGRATULATIONS ON YOUR PURCHASE OF AN ARNOTT® SUSPENSION PRODUCT

WE AT ARNOTT LLC ARE PROUD TO OFFER A HIGH QUALITY PRODUCT WITH ALL THE TECHNICAL SUPPORT YOU NEED. THANK YOU FOR YOUR CONFIDENCE IN US AND OUR PRODUCT.

Proper installation is essential to experience and appreciate the benefits of this system. Please take a moment to review these installation instructions before you begin to install these components on your vehicle. The removal and installation of air suspension products should only be performed by a fully qualified and certified automotive professional.

It is equally important to be aware of all necessary safety measures while installing your new Air Suspension System. This includes proper lifting and immobilizing of the vehicle and isolation of any stored energy to prevent personal injury or property damage.

GENERAL INFORMATION

Reading this manual signifies your agreement to the terms of the general release, waiver of liability, and hold harmless agreement, the full text of which is available at www.arnottinc.com and www.arnotteurope.com.



WARNING:

The air suspension system is under pressure (up to 10 bar, or 150 lbf/in). Verify pressure has been relieved and disconnect power to the air suspension system prior to disassembly. Do not allow dirt or grease to enter the system. Always wear standard hand, ear, and eye protection when servicing the air suspension system.

- Not to be stored below 5°F (-15°C) and above 122°F (50°C).
- Avoid damage to air lines and cables.
- Removal and installation is only to be performed by fully qualified personnel.
- Use car manufacturer's diagnostic software.

CAUTION:

Damage to the vehicle and air suspension system can be incurred if work is carried out in a manner other than specified in the instructions or in a different sequence.

To avoid the possibility of short circuits while working with electric components consult your owner's manual on how to disconnect your battery.

Consult your vehicle owner's manual, service manual, or car dealer for the correct jacking points on your vehicle and for additional care, safety and maintenance instructions. Under no circumstances should any work be completed underneath the vehicle if it is not adequately supported, as serious injuries and death can occur.

For vehicles with a "Closed Air Supply System," replacement of components requires proper adherence to procedures set forth within OE servicing literature. Failure to comply with the OE prescribed procedures can result in component damage and/or failure.

All Arnott LCV Kits are approved for road-legal use in accordance with German law. After installation is complete, an official test center must prove all requirements and installation correctly match the vehicle application and instructions. Click here to download the TÜV certificate for this kit.

With the §19/3 regulation, you will receive an approval document specific to your vehicle from the test center.

COMPONENTS

PART NO.	DESCRIPTION	QTY
29-18449	UPPER BRACKET	2
29-21835	LOWER BRACKET	2
21-20785	HELPER SPRING ACCESSORY KIT	1
29-18647	DOUBLE CONVOLUTED AIR SPRING	2
29-21834	FLAT WASHER, M8 - ZINC PLATED	4
29-21836	COUNTERSUNK SCREW M10 X 45	2
29-17570	M8X1.25 X 20 HEX HEAD SCREW	4
29-21829	COUNTERSUNK SCREW M10 X 1.5 PITCH X 16	4
29-18337	M6 X 8MM HEADLESS SCREW	4
29-18334	ELBOW FITTING 6MM TO 1/4” UNC	2
29-18332	6MM TUBING (BLACK)	5
29-18333	6MM TUBING (YELLOW)	5
11-AH-5653_INSTALL	AH-5653 INSTALL MANUAL	1

REMOVAL

1. Remove serial bump stop. (Figure 1)



FIGURE 1

2. Remove the bump stop bracket using a wrench with a 13mm hex nut. (Figure 2)



FIGURE 2

3. Clean the surface by removing all dirt and dust. (Figure 3)

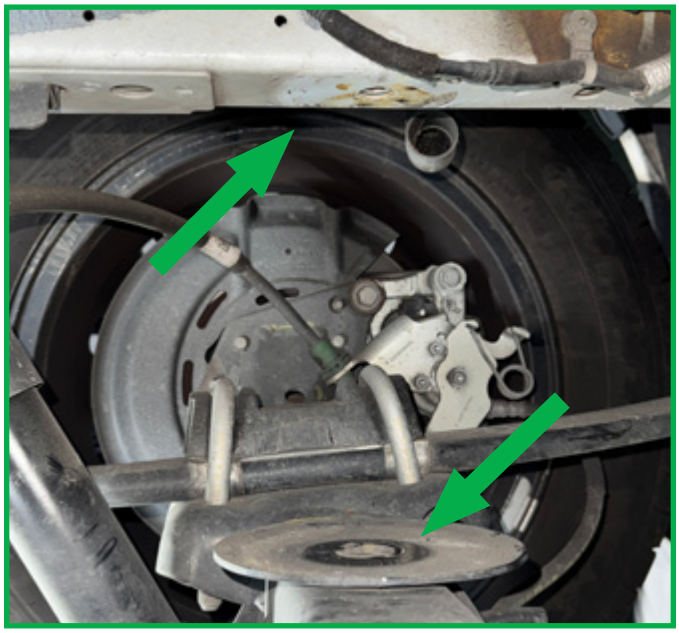


FIGURE 3

INSTALLATION

1. Mount the upper bracket with the M10 x 45 countersunk screw. Make sure that the cut-out points are to the middle of the axle, 90 degrees towards the driving direction. (Figure 4)

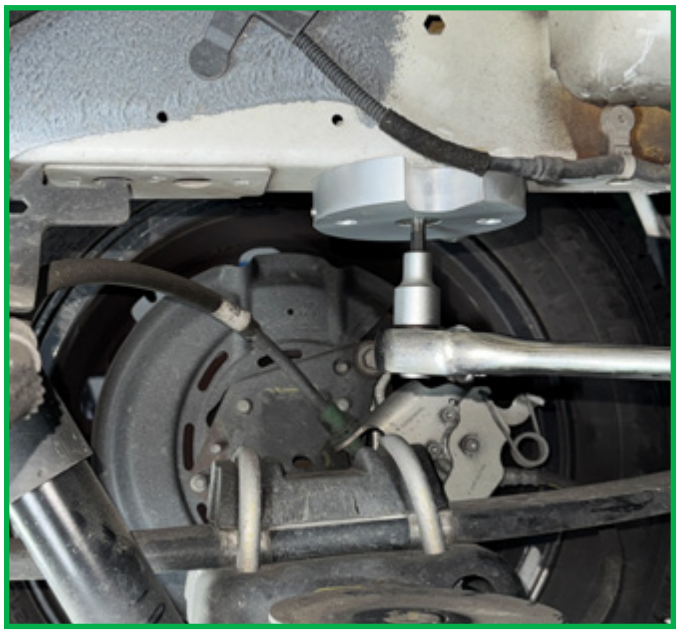


FIGURE 4

2. Bring the pre-assembled air spring in place. **Ensure the air fitting will not be damaged.** Hook in the lower bracket to the plate sitting on top of the axle. Make sure the lower bracket accurately fits flat on the plate. The two bolts on the upper plate of the air spring should match the holes in the upper bracket. (Figure 5)



FIGURE 5

3. Plug in the air line into the fitting (Left Black/Right Yellow). Inflate the air spring manually with the provided inflation valve to max. 2 bar. Check if the air spring is sitting correctly on the lower plate on the axle and verify that the bolts on the upper side of the air spring fit the upper bracket holes.
4. Tighten the headless bolts in the upper bracket with max. 13Nm torque to secure the air spring. Then fixate the lower bracket by tightening the two M8 screws with max. 15 Nm torque. (Figure 6)

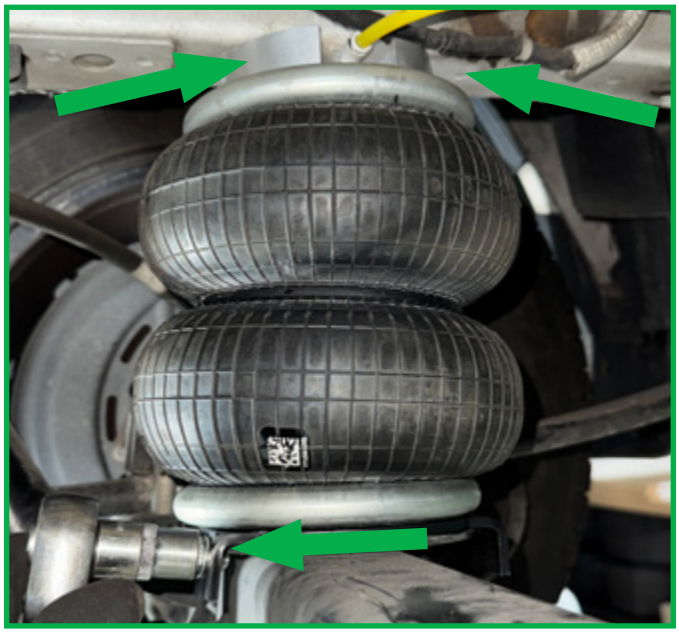


FIGURE 6

5. Route the air line along the frame to an outside point where the inflation valves will be located.

FINAL CHECK

- The work as performed achieved the intended purpose.
- All reservoirs and containers have been filled and all fluids and lubricants are at their correct levels.
- All threaded fasteners released beforehand have been correctly re-tightened.
- The fuel system is free of leaks.
- The lights and signaling equipment are fully operational and the vehicle is roadworthy.

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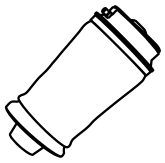
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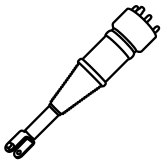
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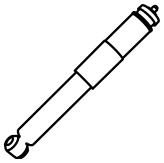
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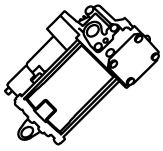
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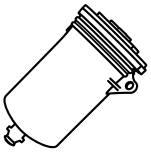
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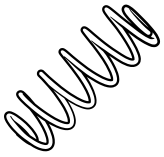

Air Springs

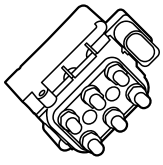

Struts

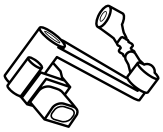

Shocks


Compressors


Dryers


Coil Spring Conversion Kits


Valve Blocks


Ride Height Sensors