



# INSTALLATION MANUAL

**AS-3801**

**Arnott New Rear Left Air Strut  
BMW 5/6 Series (G31/G32) w-w/o M-Sport, w/o VDC**



**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](http://www.arnottinc.com) and [www.arnotteurope.com](http://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.

# REAR AIR STRUT REMOVAL

1. Disable and deflate the air suspension system per manufacturer's instructions.
2. Raise the vehicle.
3. Remove the rear wheel. (Figure 1)

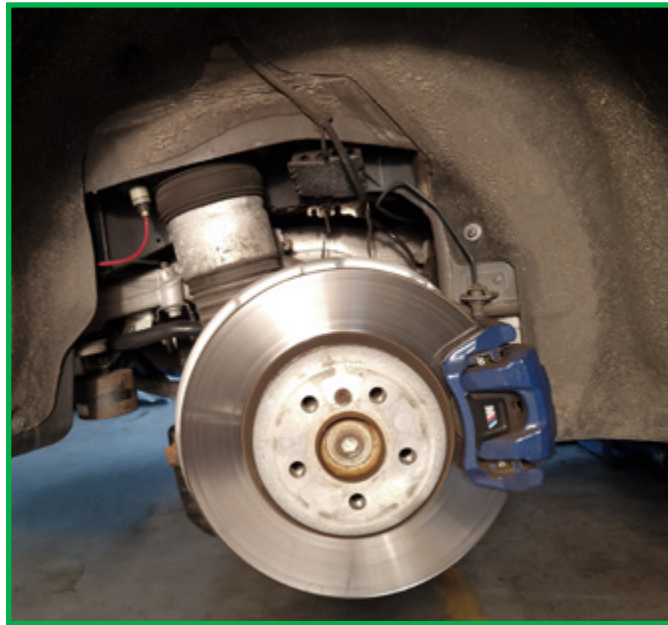


FIGURE 1

4. Remove the air line from the air spring. Use a spanner to loosen the connector and pull the air line out. (Figures 2, 3)



FIGURE 2



FIGURE 3

5. Remove the lower shock mounting nut and bolt. (Figure 4)

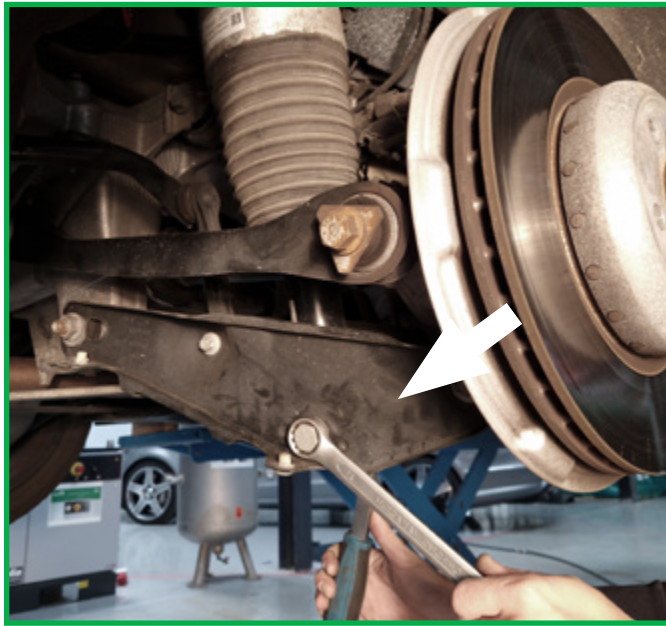


FIGURE 4

6. Loosen and remove the top bolt (1) and top three (3) mounting nuts, located in the trunk. (Figure 5)



FIGURE 5

7. Remove the inner lower control arm nuts and bolts. (Figures 6, 7)

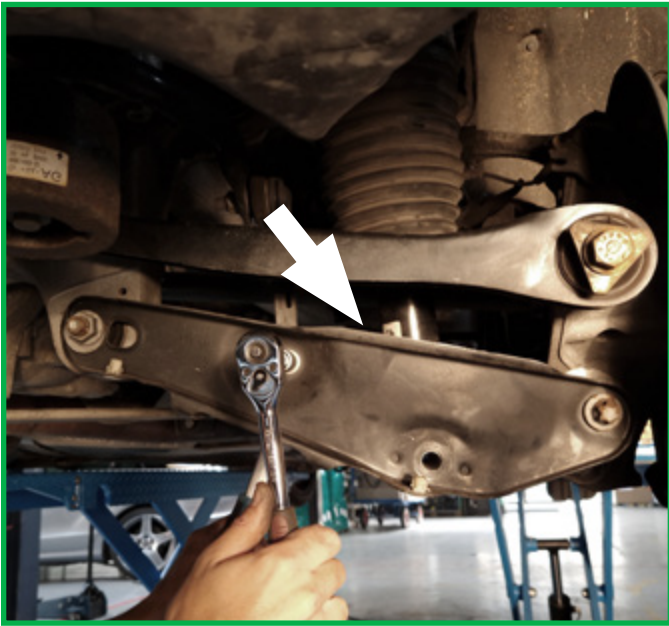


FIGURE 6

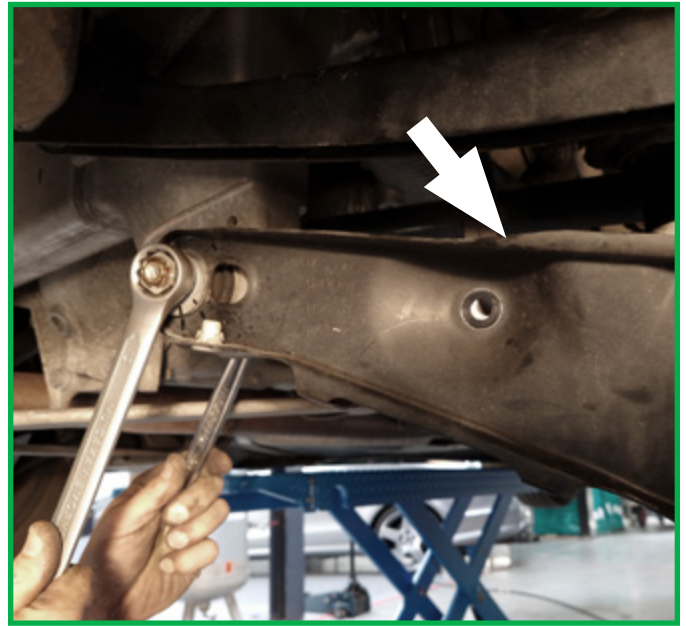


FIGURE 7

8. Remove the air strut from vehicle. (Figure 8)

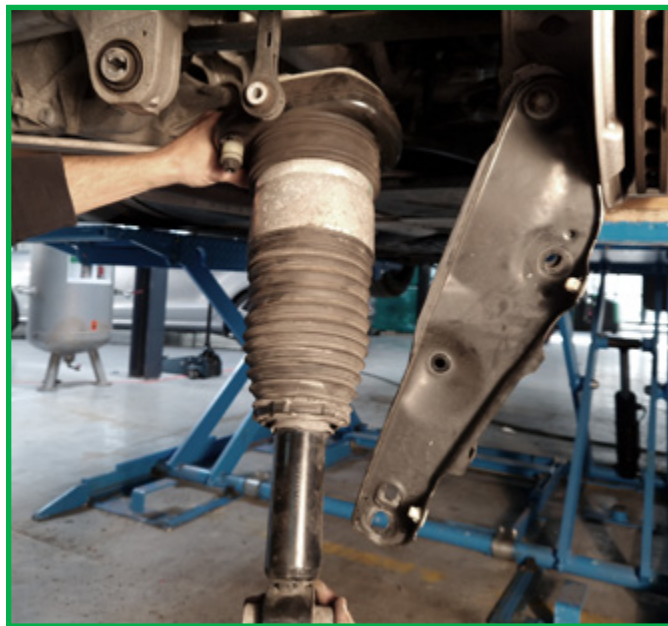


FIGURE 8

9. Removal complete.

# REAR AIR STRUT INSTALLATION



**WARNING:**

Tighten all nuts and bolts to manufacturer's specifications during the installation process.

1. Install the new strut into the vehicle. (Figure 9)



FIGURE 9

2. Install the lower strut mount bolt and lower control arm nuts and bolts. Tighten to manufacturer's specifications. (Figure 10)

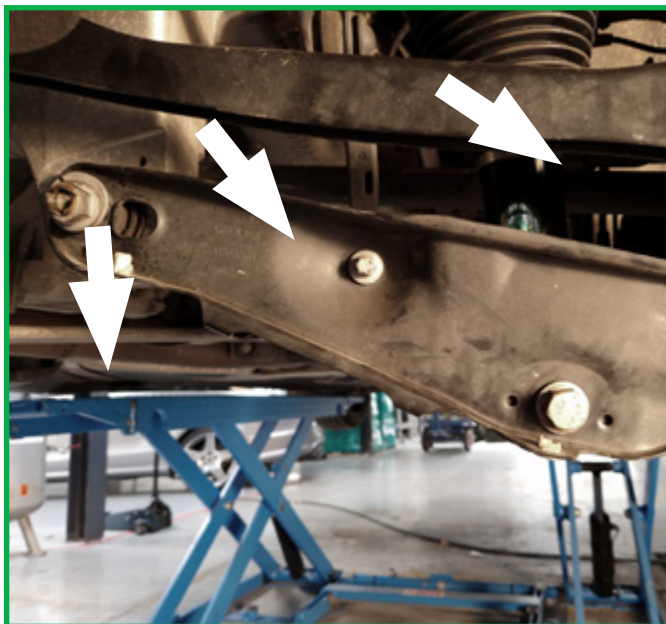


FIGURE 10

3. Tighten the top mount nuts and bolt to manufacturer's specifications. (Figure 11)



FIGURE 11

4. Prep the new air strut for installation by removing the silver threaded shipping plug, installing the provided VOSS fitting, and removing the white shipping pin. (Figures 12, 13, 14, 15)



FIGURE 12

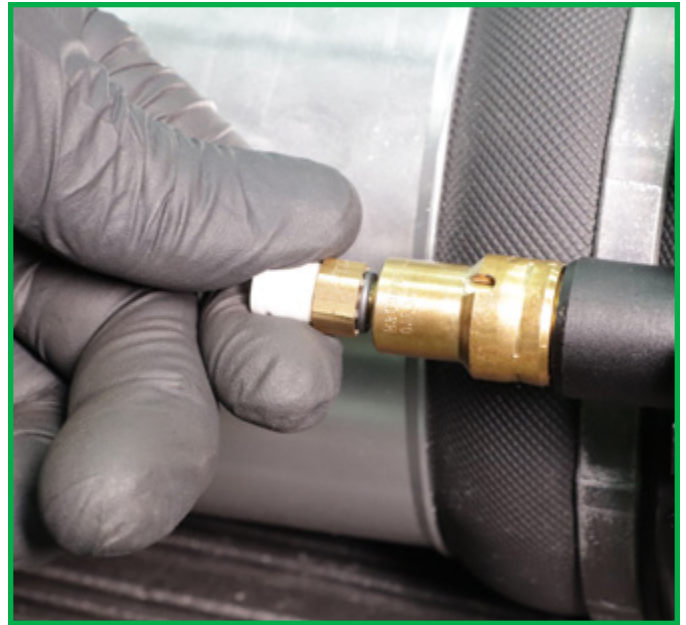


FIGURE 13

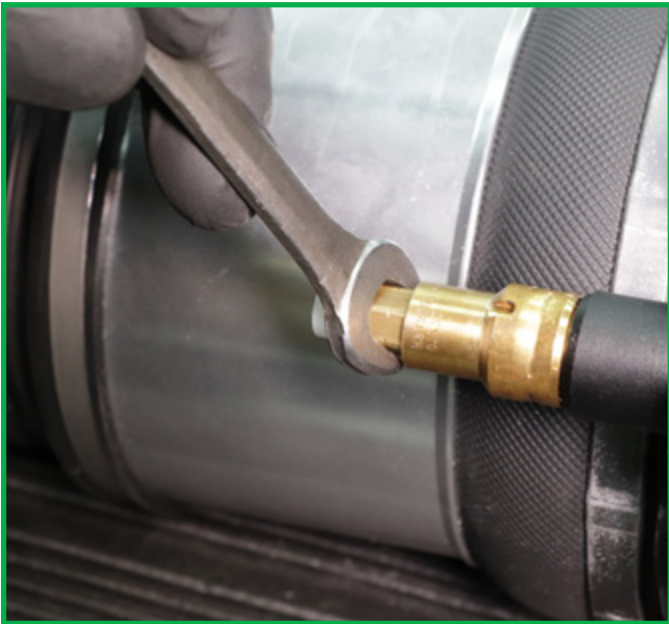


FIGURE 14



FIGURE 15

5. Prepare air line by removing old VOSS fitting using the figure below as an example. (Figure 16)

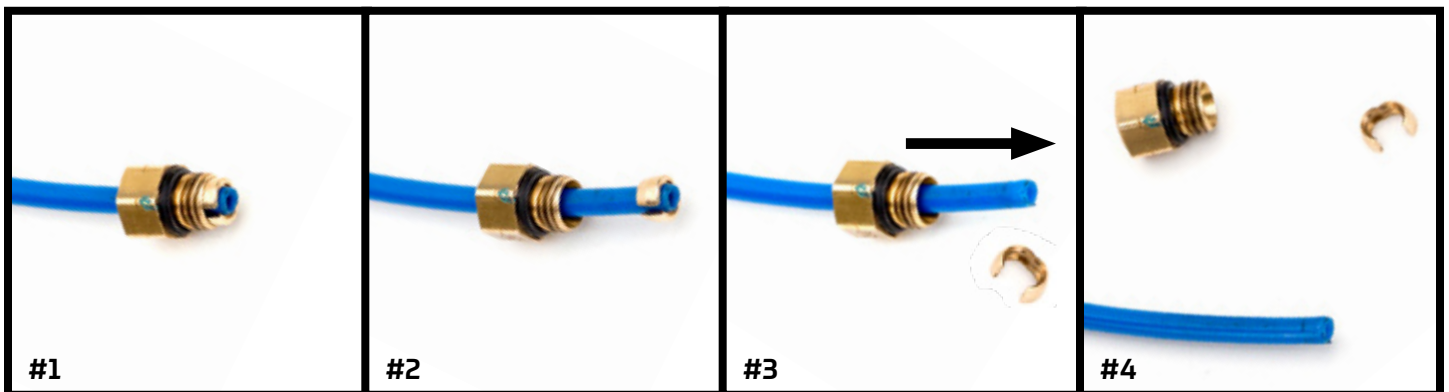
#### REMOVAL



Prior to inserting the existing air line into the new air strut you will need to remove the old original equipment air line fitting and discard.

#### NOTE:

Scratches and/or deep cuts in the air line can result in possible leaks. Inspect the air line before insertion. Air line needs to be replaced if damaged.



#1  
OE AIR LINE FITTING

#2

SLIDE THE THREADED  
PORTION UP THE LINE  
AND SPREAD THE COLLET  
OPEN TO REMOVE

#3

SLIDE THE AIR FITTING  
OFF OF THE AIR LINE

#4

DISCARD OE AIR LINE  
FITTING

FIGURE 16

6. Insert air line into strut VOSS fitting. Press air line in firmly until it is seated. (Figure 17)



FIGURE 17

7. Reinstall the wheel.
8. Lower the vehicle.
9. Enable and inflate the air suspension per manufacturer's instructions.
10. Installation complete.

**NOTE:** The vehicle must be re-aligned after replacement of the rear air strut.

# Arnott™

## Suspension Products

### Arnott US Business Office:

[www.arnottinc.com](http://www.arnottinc.com)

100 Sea Ray Drive  
Merritt Island, FL 32953

**Call:** 800.251.8993

321.868.3016

**Fax:** 321.868.3703

**Email:** [techassistance@arnottinc.com](mailto:techassistance@arnottinc.com)

### Arnott Europe Business Office:

[www.arnotteurope.com](http://www.arnotteurope.com)

Docterskampstraat 1E/1F, 3  
5222 AM 's-Hertogenbosch (NL)

**NL Phone:** +31 73 7850 580

**DE Phone:** +31 85 2087 438

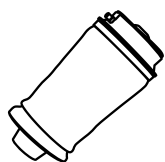
**UK Phone:** +44 203 3186 124

**BE Phone:** +32 258 846 90

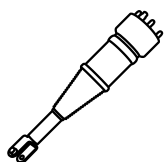
**ES Phone:** +34 91 901 10 56

**FR Phone:** +32 78 48 46 93

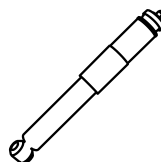
**Email:** [info@arnotteurope.com](mailto:info@arnotteurope.com)



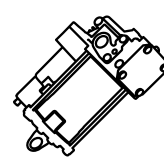
Air Springs



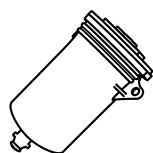
Struts



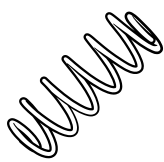
Shocks



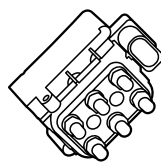
Compressors



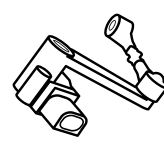
Dryers



Coil Spring  
Conversion Kits



Valve Blocks



Ride Height  
Sensors