

# Installation Manual

VB-3497  
ARNOTT  
VALVE BLOCK  
2004-2010 VOLKSWAGEN TOUAREG (7L)  
2007-2015 AUDI Q7 (4L)  
2003-2010 PORSCHE CAYENNE (9PA)



Congratulations on your purchase of an Arnott® air suspension product. We at Arnott Incorporated are proud to offer a high quality product at the industry's most competitive pricing. 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, ASE Certified, 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.

## "Engineered to Ride, Built to Last®"



**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.*

Arnott® is committed to the quality of its products. If you have a question or problem with any Arnott product, please contact Arnott by calling 800-251-8993 during normal business hours or email [techassistance@arnottinc.com](mailto:techassistance@arnottinc.com). (In the EU please call +31 (0)73 7850 580 or email [info@arnotteurope.com](mailto:info@arnotteurope.com))

## 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).*

- Not to be stored below 5°F (-15°C) or 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.*

## **THIS MANUAL ILLUSTRATES THE PROPER INSTALLATION OF VB-3497 ON A 2005 VOLKSWAGEN TOUAREG (4L)**

### VALVE BLOCK REMOVAL

1. RAISE VEHICLE.
2. REMOVE TRIM UNDER PASSENGER SIDE TO GAIN ACCESS TO THE PUMP/VALVE BLOCK. (FIGURE 1)

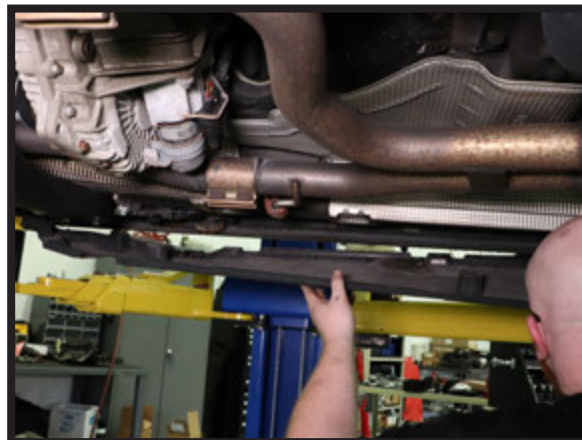


FIGURE 1

3. REMOVE THREE (3) EXTERIOR MOUNT BOLTS TO GAIN ACCESS TO VALVE BLOCK/PUMP ASSEMBLY. (FIGURES 2, 3, 4, 5)

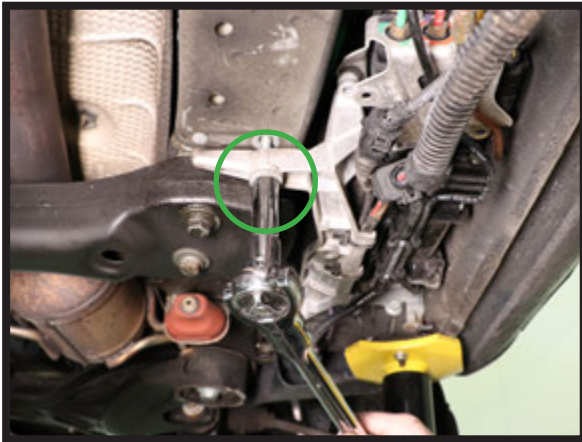


FIGURE 2

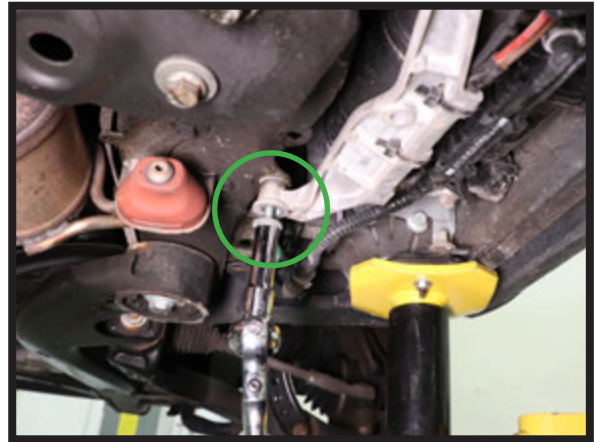


FIGURE 3



FIGURE 4



FIGURE 5

4. REMOVE THREE (3) BOLTS TO SEPARATE THE VALVE BLOCK MOUNT FROM THE BLOCK/COMPRESSOR ASSEMBLY. (FIGURES 6, 7, 8, 9)



FIGURE 6

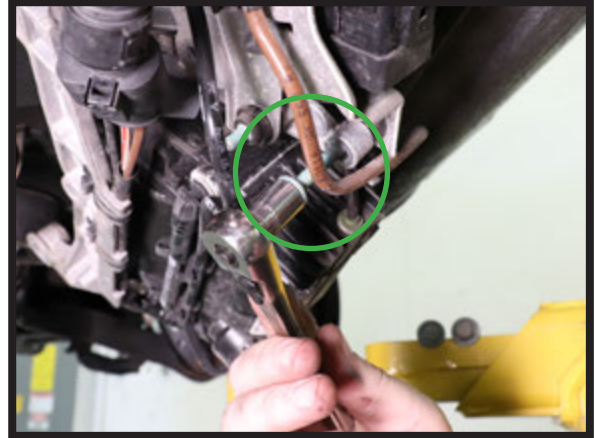


FIGURE 7



FIGURE 8

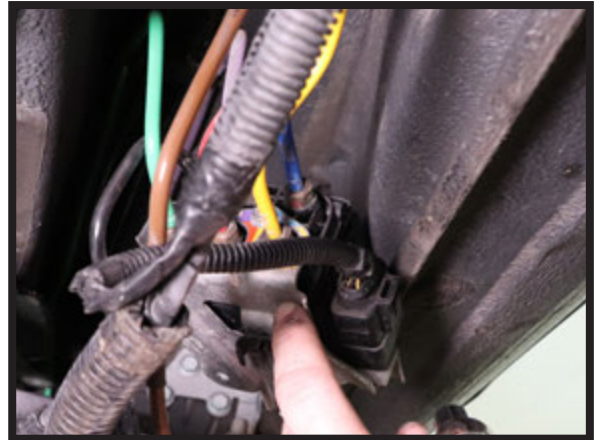


FIGURE 9

5. DISCONNECT THE ELECTRICAL CONNECTION FROM THE VALVE BLOCK. (FIGURE 10)



FIGURE 10

6. DISCONNECT THE AIR LINES AND REMOVE THE VALVE BLOCK FROM VEHICLE. (FIGURES 11, 12)

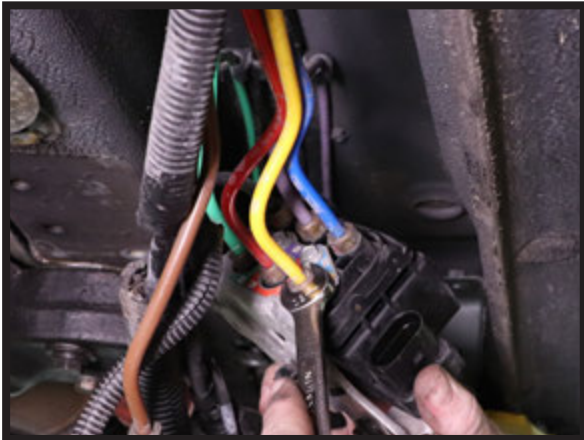


FIGURE 11



FIGURE 12

7. REMOVAL COMPLETE.

## VALVE BLOCK INSTALLATION



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



*Do not remove the air fittings from the valve block. Doing so may cause damage and/or void warranty. Remove the shipping pins from the new air fittings and insert the air lines until fully seated.*

1. REMOVE THE BRACKET FROM THE OLD VALVE BLOCK AND PLACE ON NEW VALVE BLOCK. (FIGURES 13, 14)

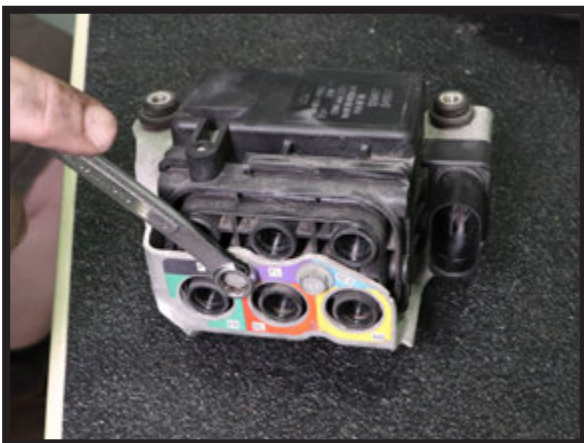


FIGURE 13



FIGURE 14

2. REINSTALL THE VALVE BLOCK MOUNT ON TO THE BLOCK/COMPRESSOR ASSEMBLY USING THE EXISTING HARDWARE. (FIGURES 15, 16)

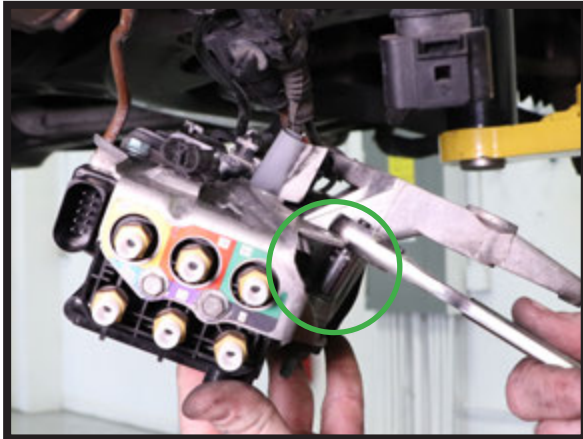


FIGURE 15

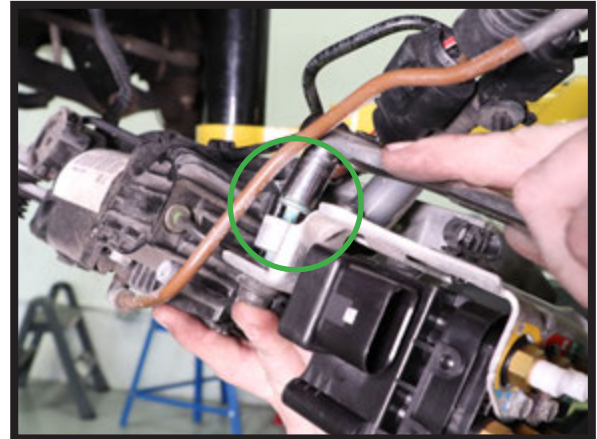


FIGURE 16

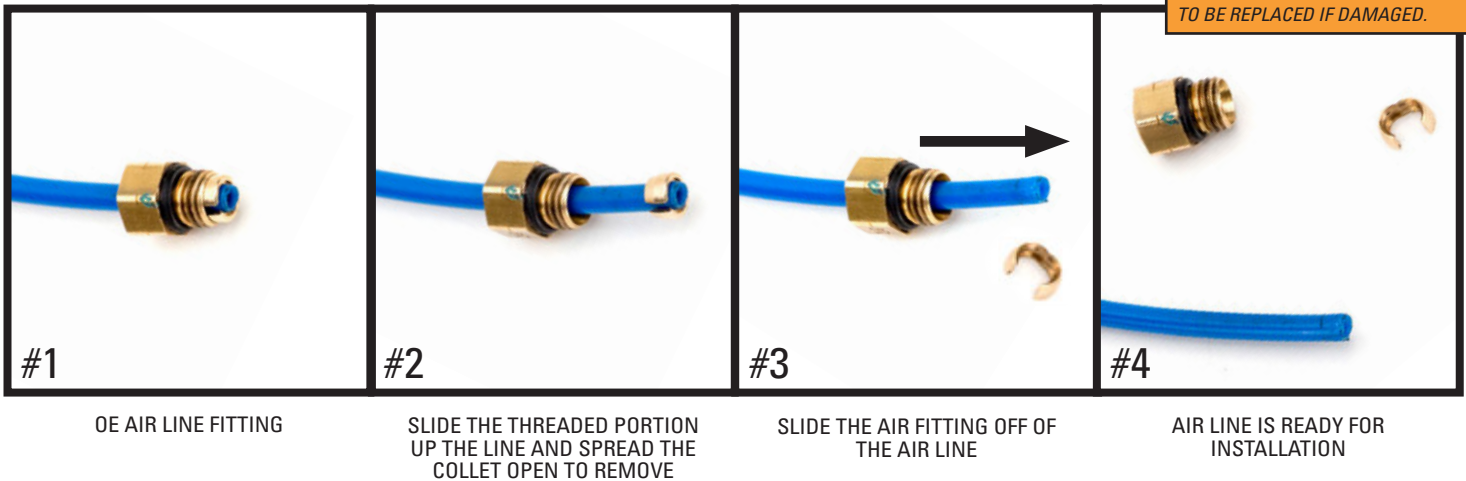
3. PREPARE THE EXISTING AIR LINES BY REMOVING THE OLD AIR FITTINGS, USING THE FIGURE BELOW AS AN EXAMPLE. (FIGURE 17)

**REMOVAL**



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

**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

AIR LINE IS READY FOR INSTALLATION

FIGURE 17

4. REMOVE THE SHIPPING PINS FROM THE VALVE BLOCK. INSERT AIRLINES IN THE PROPER FITTINGS. PUSH THE AIR LINES IN UNTIL THEY ARE FIRMLY SEATED. (FIGURES 18, 19, 20)

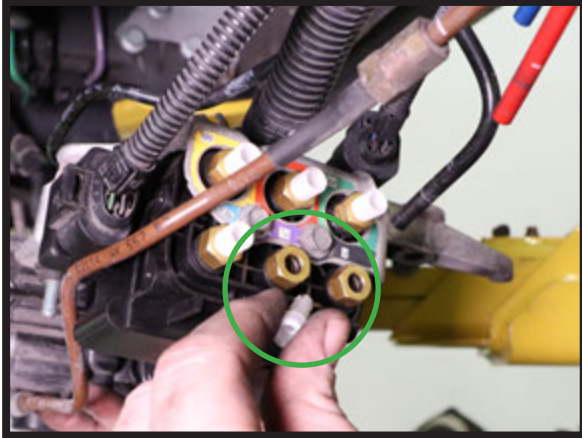


FIGURE 18

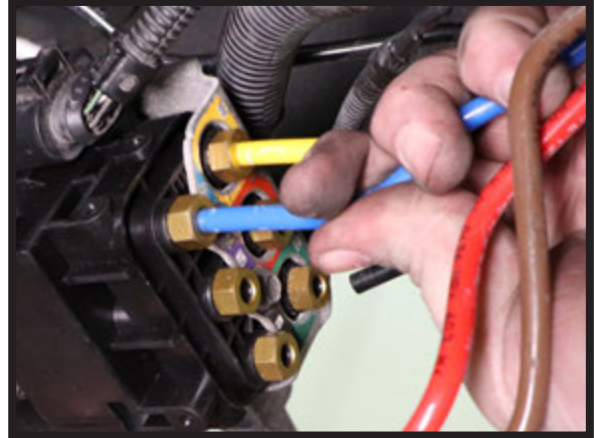


FIGURE 19



FIGURE 20

5. RECONNECT THE ELECTRICAL CONNECTION TO THE VALVE BLOCK. (FIGURE 21)



FIGURE 21

6. REINSTALL THE THREE (3) EXTERIOR MOUNT BOLTS AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 22, 23, 24)

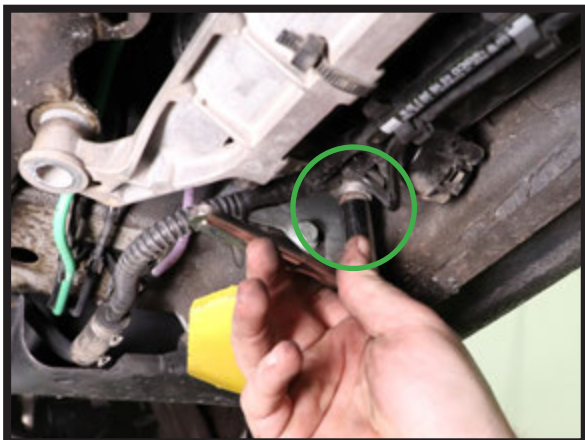


FIGURE 22

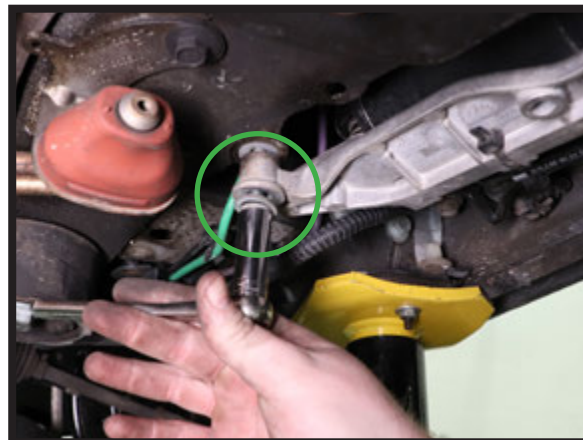


FIGURE 23

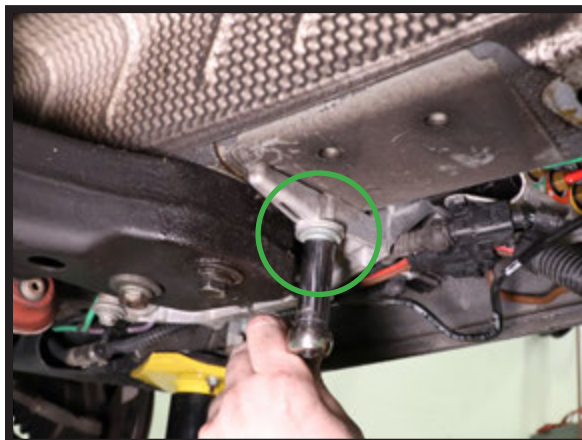


FIGURE 24

7. REINSTALL THE TRIM UNDERNEATH THE PASSENGER SIDE.  
8. LOWER VEHICLE.  
9. INSTALLATION COMPLETE.