

# Installation Manual

VB-3498  
ARNOTT  
VALVE BLOCK  
2016-2019 VOLVO XC90  
2018-2019 VOLVO XC60 (SPA)



Congratulations on your purchase of an Arnett® air suspension product. We at Arnett 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.*

Arnett® is committed to the quality of its products. If you have a question or problem with any Arnett product, please contact Arnett 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-3498 ON A 2016 VOLVO XC90 (SPA)

### VALVE BLOCK REMOVAL

1. RAISE VEHICLE.
2. DEFLATE AIR SPRINGS PER MANUFACTURER'S SPECIFICATIONS.
3. REMOVE FRAME PIN FOR HEATSHIELD. (FIGURE 1)

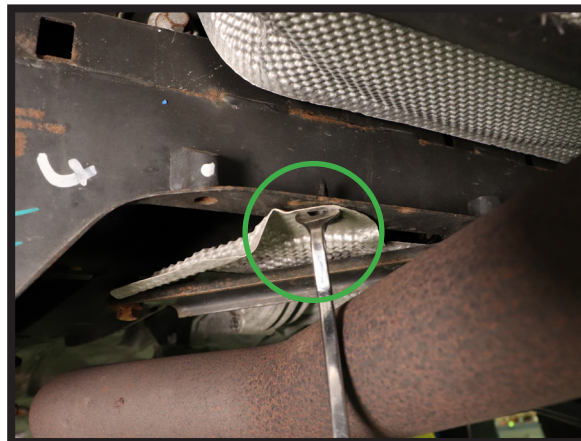


FIGURE 1

4. REMOVE THREE (3) CROSS MEMBER BOLTS AND REMOVE CROSS MEMBER. (FIGURES 2, 3, 4)

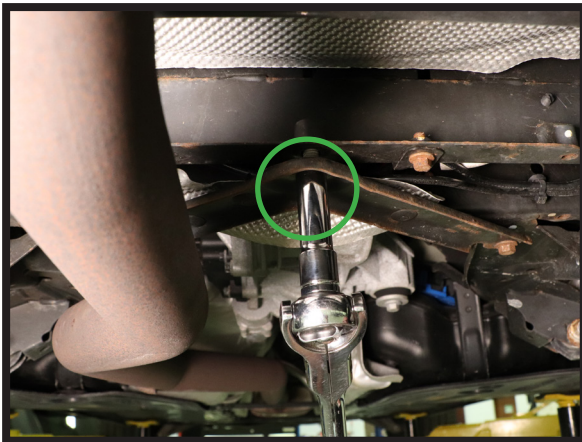


FIGURE 2



FIGURE 3

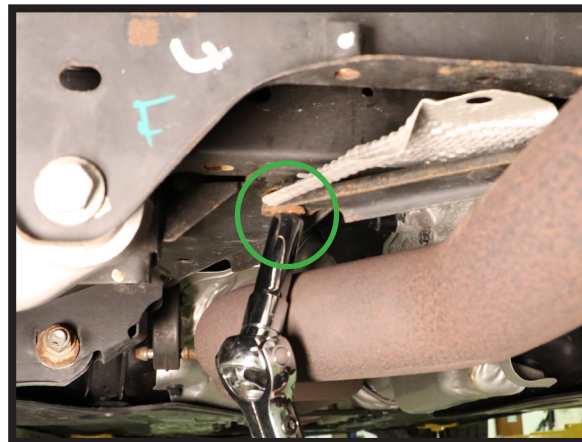


FIGURE 4



5. REMOVE THREE (3) VALVE BLOCK BRACKET BOLTS. (FIGURES 5, 6, 7)

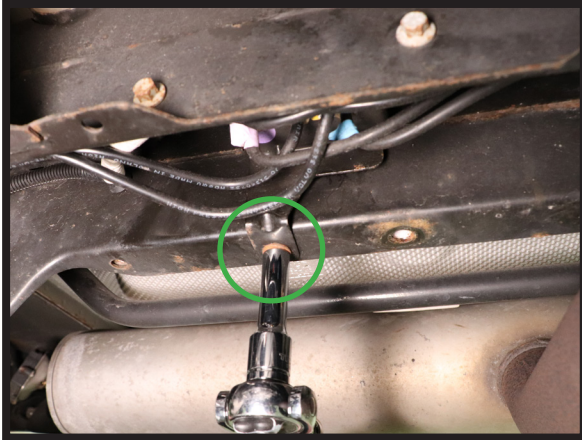


FIGURE 5

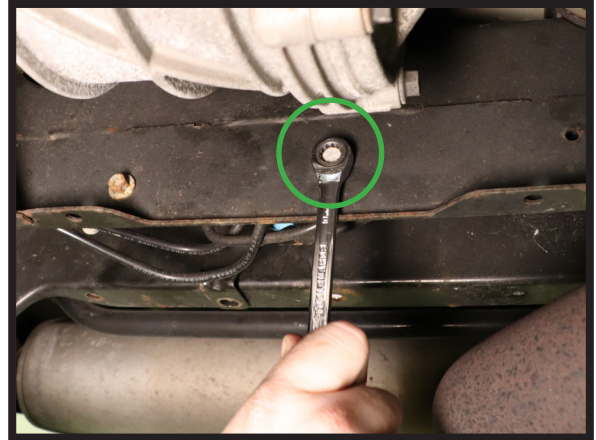


FIGURE 6

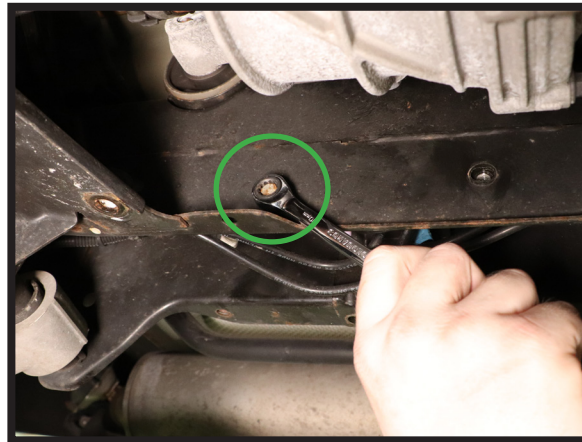


FIGURE 7

6. DISCONNECT THE ELECTRICAL CONNECTION FROM THE VALVE BLOCK. (FIGURE 8)

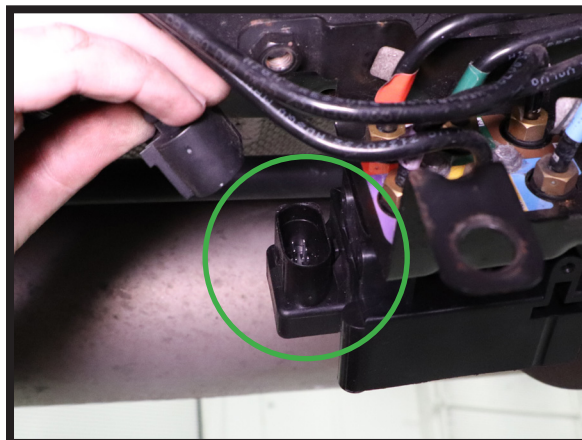


FIGURE 8

7. DISCONNECT THE AIR LINES AND REMOVE THE VALVE BLOCK FROM VEHICLE. (FIGURES 9, 10)



FIGURE 9

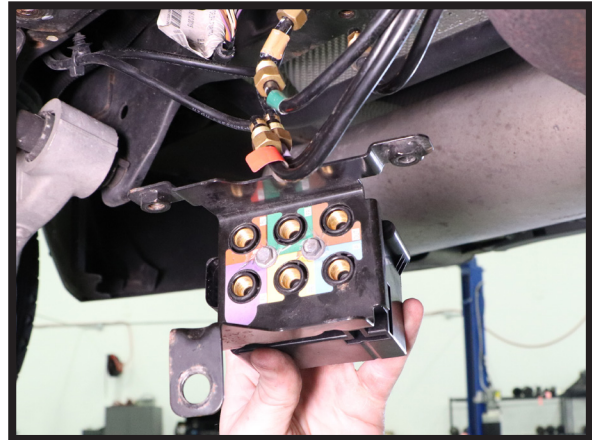


FIGURE 10

8. 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 IN THE SAME ORIENTATION USING THE PROVIDED SCREWS. REMOVE SHIPPING PINS. (FIGURES 11, 12)



FIGURE 11



FIGURE 12

2. PREPARE THE EXISTING AIR LINES BY REMOVING THE OLD AIR FITTINGS, USING THE FIGURE BELOW AS AN EXAMPLE. (FIGURE 13)

## 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.

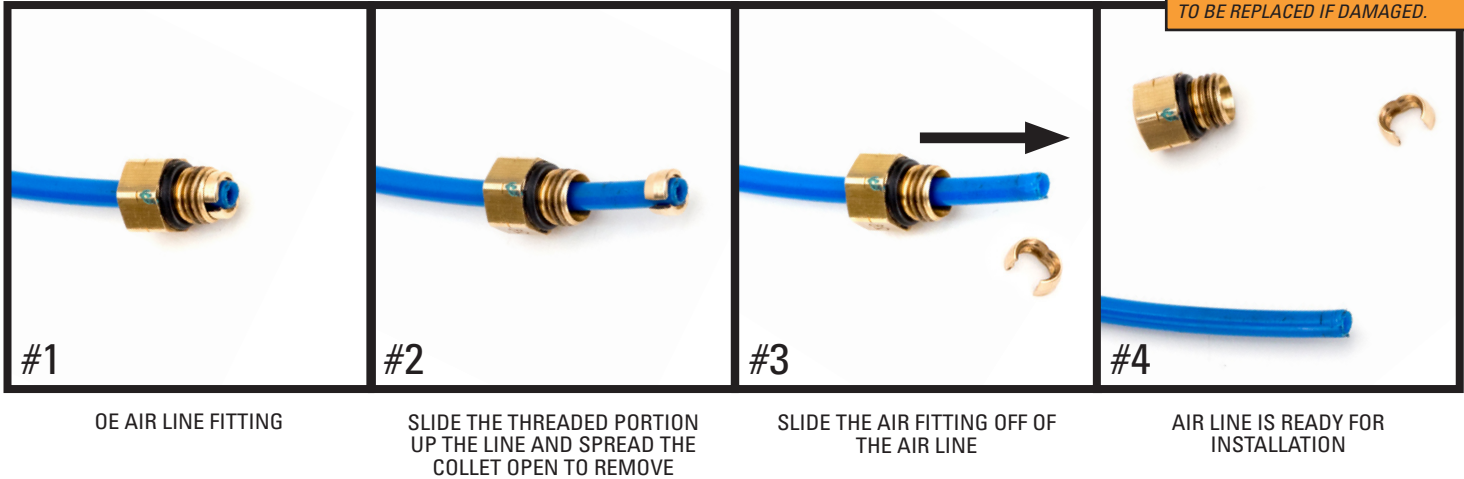


FIGURE 13

3. INSERT THE AIR LINES INTO THE VALVE BLOCK. PRESS THE LINES IN FIRMLY UNTIL THEY ARE FULLY SEATED. (FIGURE 14)

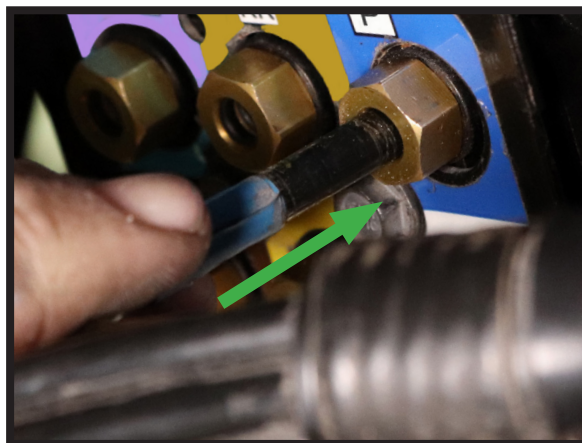


FIGURE 14



4. RECONNECT THE ELECTRICAL CONNECTION. (FIGURE 15)

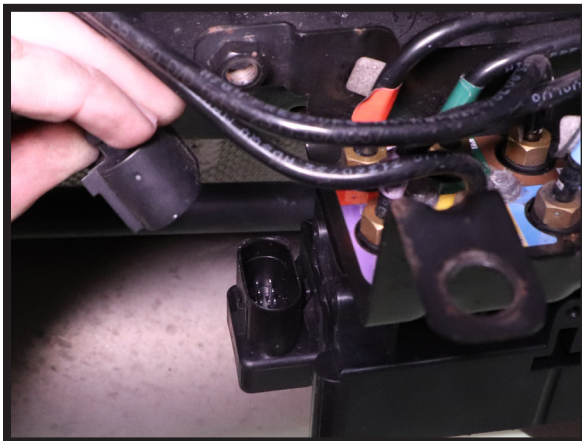


FIGURE 15

5. REINSTALL THE THREE (3) BRACKET BOLTS. TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 16, 17, 18)



FIGURE 16



FIGURE 17

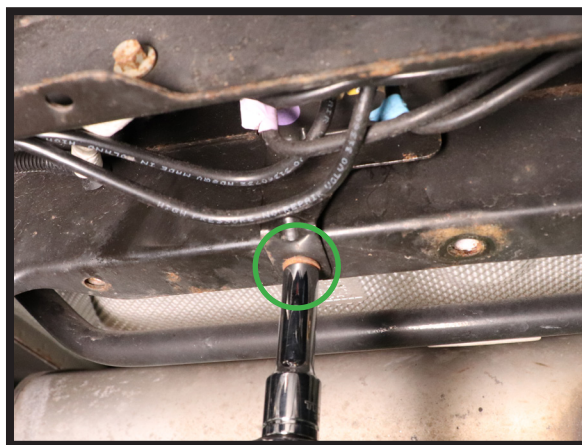


FIGURE 18

6. REINSTALL THE THREE (3) CROSS MEMBER BOLTS AND HEAT SHIELD PIN. TIGHTEN BOLTS TO MANUFACTURER'S SPECIFICATIONS. (19, 20, 21, 22)

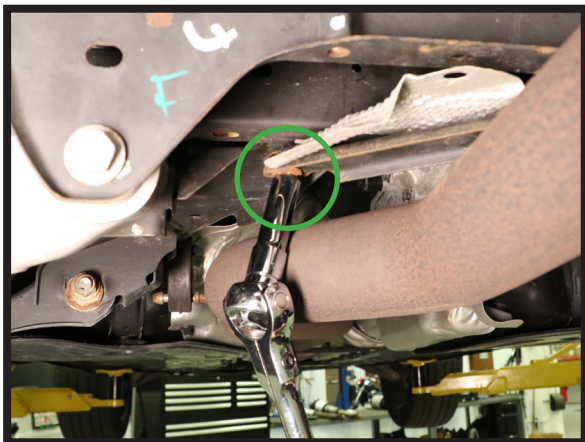


FIGURE 19



FIGURE 20

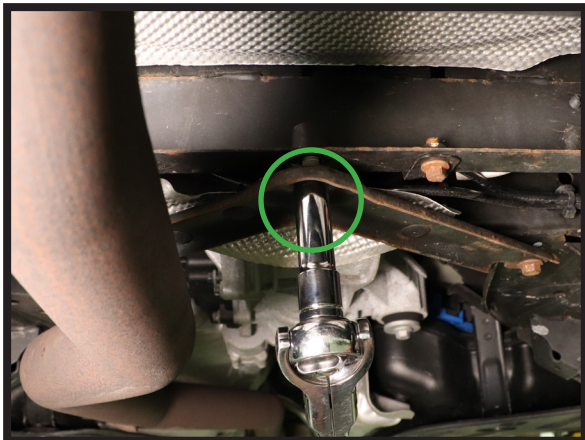


FIGURE 21



FIGURE 22

7. INFLATE AIR SPRINGS PER MANUFACTURER'S SPECIFICATIONS.  
8. LOWER VEHICLE.  
9. INSTALLATION COMPLETE.