



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 protective hand, ear, and eye protection when servicing the air suspension system.

Arnott<sup>®</sup> 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.

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### **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.

- 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.

### FRONT AIR STRUT REMOVAL

- SET STEERING TO STRAIGHT AHEAD.
- 2. RAISETHE VEHICLE.
- 3. REMOVETHE APPLICABLE WHEEL. (FIGURE 1)



FIGURE 1





4. REMOVETHE AIR LINE. (FIGURE 2)



FIGURE 2

5. DISCONNECTTHE ELECTRICAL CONNECTION. (FIGURE 3)



FIGURE 3

6. REMOVETHETHREETOP MOUNTING NUTS FROM THE STRUT. (FIGURE 4)



FIGURE 4





7. REMOVE THE WIRES FROM THE WIRE CLIP ON THE SWAY BAR END LINK. (FIGURES 5, 6)







FIGURE 6

8. FOLLOW THE WIRING FROM THE SHOCK AND DISCONNECT AT THE JUNCTION. (FIGURE 7)



FIGURE 7

9. REMOVETHE BRAKE LINE ISOLATOR. (FIGURE 8)



FIGURE 8





10. REMOVETHE SWAY BAR END LINK NUT. (FIGURE 9)



FIGURE 9

11. LOOSENTHE BOTTOM MOUNT BOLT. (FIGURE 10)



FIGURE 10

12. REMOVETHE BOTTOM MOUNT BOLT. (FIGURE 11)



FIGURE 11





13. REMOVETHE CONTROL ARM NUT. (FIGURE 12)



FIGURE 12

### 14. REMOVETHE AXLE BOLT. (FIGURES 13, 14)



FIGURE 13



FIGURE 14

### 15. REMOVETHE AXLE. (FIGURES 15, 16)



FIGURE 15

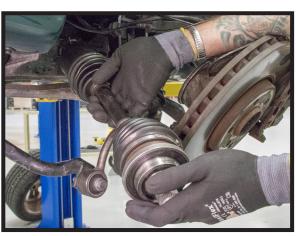


FIGURE 16





16. REMOVETHE STRUT FROM THE VEHICLE. (FIGURE 17)



FIGURE 17

17. REMOVAL COMPLETE.





### FRONT COIL STRUT INSTALLATION



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

1. INSTALLTHE STRUT INTO THE VEHICLE. (FIGURE 18)



FIGURE 18

2. REINSTALLTHE AXLE. (FIGURES 19, 20)







FIGURE 20





3. REATTACHTHE CONTROL ARM TO THE SPINDLE ASSEMBLY AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 21, 22)



FIGURE 21



FIGURE 22

4. REINSTALLTHE UPPER SWAY BAR END LINKTOTHE SPINDLE ANDTIGHTENTO MANUFACTURER'S SPECIFICATIONS. (FIGURES 23, 24)



FIGURE 23



FIGURE 24





5. REINSTALLTHE AXLE BOLT AND TIGHTENTO MANUFACTURER'S SPECIFICATIONS. (FIGURE 25)



FIGURE 25

6. REINSTALLTHE BOTTOM MOUNT BOLT AND TIGHTENTO MANUFACTURER'S SPECIFICATIONS. (FIGURE 26)



FIGURE 26

7. REINSTALLTHE BRAKE LINE ISOLATOR. (FIGURE 27)



FIGURE 27





8. REATTACHTHE WIRES TO THE WIRE CLIP ON THE SWAY BAR END LINK. (FIGURE 28, 29)





FIGURE 28

FIGURE 29

9. INSTALLTHE THREE TOP MOUNTING NUTS TO THE TOP OF THE STRUT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 30)



FIGURE 30

10. REINSTALLTHE WHEEL. (FIGURE 31)



FIGURE 31

11. INSTALLATON COMPLETE.





### **REAR SHOCK AND AIR SPRING REMOVAL**

1. PRIOR TO RAISING VEHICLE, REMOVE APPLICABLE REAR SIDE COMPARTMENT TRIM TO GAIN ACCESS TO SHOCK TOWER. (FIGURE 32)



FIGURE 32

2. REMOVE WHEEL. (FIGURE 33)



FIGURE 33





- 3. DEFLATE AIR SPRING USING A SYSTEM DIAGNOSTIC TOOL.
- 4. IF APPLICABLE, USE OEM TOOL AND REMOVE THE TOP NUT OF SHOCK. (FIGURES 34, 35)







FIGURE 35

5. REMOVE BOTTOM SHOCK NUT/BOLT. (FIGURE 36)



FIGURE 36





6. COMPRESS SHOCK AND REMOVE FROM VEHICLE. (FIGURES 37, 38)



FIGURE 37



FIGURE 38

7. LOCATE AND REMOVE THE ELECTRICAL PLUG FROM THE AIR SPRINGS TOP MOUNT. (FIGURE 39)



FIGURE 39





8. LOCATE AND REMOVE THE AIR LINE FROM THE AIR SPRINGS TOP MOUNT. (FIGURES 40, 41)







FIGURE 41

9. LOOSEN AND REMOVE THE REAR CONTROL ARM NUT AND BOLT. (FIGURE 42)



FIGURE 42

10. DISLOCATE THE AIR SPRING'S TOP MOUNT FROM THE VEHICLE. (FIGURE 43)



FIGURE 43





11. LOOSEN AND REMOVE THE AIR SPRING'S LOWER MOUNTING NUT AND BOLT. (FIGURE 44)



FIGURE 44

12. REMOVE FACTORY AIR SPRING FROM THE VEHICLE BY DISCONNECTING THE FACTORY RUBBER HOSE LEADING FROM THE AIR SPRING TO THE AIR SPRING'S RESERVOIR. SECURE THE HOSE IN A SUITABLE LOCATION AWAY FROM ANY MOVING PARTS OR COMPONENTS WITH EXCESSIVE HEAT. (FIGURE 45)

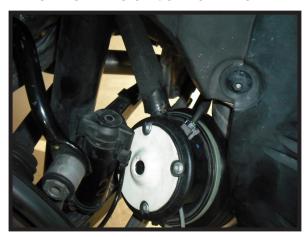


FIGURE 45

13. REMOVAL COMPLETE.

16





### REAR COIL AND SHOCK INSTALLATION



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

1. INSTALL THE NEW SHOCKS INTO THE TOP MOUNTS AND SECURE. (FIGURE 46)



FIGURE 46

2. REMOVE OLD TOP MOUNT CLIPS AND REPLACE WITH THE ONES PROVIDED IN THE KIT. (FIGURES 47, 48)



FIGURE 47



FIGURE 48

3. INSTALL THE UPPER SPRING SEATS ONTO THE NEW CLIPS. (FIGURES 49, 50)



FIGURE 49



FIGURE 50





4. INSTALLTHE LOWER SPRING PERCHES INTO THE LOWER CONTROL ARMS, AND SECURE. (FIGURES 51, 52)

NOTE: PAY SPECIAL ATTENTION TO THE "FACING WHEEL" LABEL ON THE PERCHES TO ORIENT THEM PROPERLY WITHIN THE LOWER CONTROL ARMS.







5. LOOSEN ANDREMOVETHE LOWER SWAY BAR END LINK BOLT. (FIGURES 53, 54)





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6. LOOSEN AND REMOVE REARTRAILING ARM BOLT. (FIGURES 55, 56)







FIGURE 56

7. LOOSEN AND REMOVE THE FRONT TRAILING ARM BOLT. (FIGURES 57, 58)

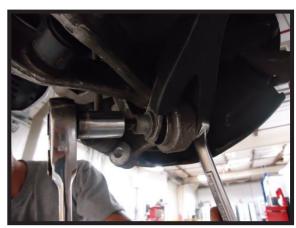


FIGURE 57



FIGURE 58

8. LOOSEN AND REMOVE THE UPPER CONTROL ARM BOLT FROM THE SPINDLE ASSEMBLY. (FIGURE 59)



FIGURE 59





9. LOOSEN AND REMOVE LOWER CONTROL ARM BOLT. (FIGURES 60, 61)







FIGURE 61

10. PULL DOWN ON LOWER CONTROL ARM AND INSTALLTHE SPRING INTOTHETOP SPRING SEAT. (FIGURE 62)



FIGURE 62

11. SLIDETHE SPRING OVERTHE HUMP OF THE LOWER SRING PERCH. (FIGURE 63)



FIGURE 63





12. USING A STAND OR JACK, RAISETHE LOWER CONTROL ARM TO COMPRESS THE SPRING AND INSTALL THE LOWER SHOCK BOLTTO HOLD IN PLACE. (FIGURES 64, 65)





FIGURE 64 FIGURE 65

NOTE: THE LOWER CONTROL ARM BOLT SLEEVE MAY NEED TO BE ADJUSTED WHEN REINSTALLING THE LOWER CONTROL ARM.







13. REINSTALL AND TIGHTEN THE LOWER CONTROL ARM BOLT. (FIGURES 66, 67)







FIGURE 67

14. REINSTALL AND TIGHTEN THE UPPER CONTROL ARM BOLT FROM THE SPINDLE ASSEMBLY. (FIGURE 68)



FIGURE 68

15. REINSTALL AND TIGHTEN THE FRONT TRAILING ARM BOLT. (FIGURES 69, 70)



FIGURE 69



FIGURE 70





### 16. REINSTALL AND TIGHTEN THE REAR TRAILING ARM BOLT. (FIGURES 71, 72)







FIGURE 72

### 17. REINSTALL AND TIGHTEN THE LOWER SWAY BAR END LINK BOLT. (FIGURES 73, 74)



FIGURE 73



FIGURE 74

### 18. INSTALLATION OF REAR SPRINGS AND SHOCKS COMPLETE.



It is nesessary to have your vehicle aligned after installing this kit.





### **ELECTRONIC BYPASS MODULE INSTALLATION**

1. BEGIN BY REMOVING THE FRONT PASSENGER SIDE FLOOR MAT. (FIGURE 75)



FIGURE 75

2. PULL BACKTHE KICK PANNEL AND REMOVETHE FOAM INSULATION BENEATH. (FIGURES 76, 77)



FIGURE 76



FIGURE 77

3. LOCATE AND REMOVETHETHREE NUTS HOLDINGTHE METAL SHIELD. (FIGURE 78)



FIGURE 78





4. REMOVETHE METAL SHIELD AND REST IT ONTHE FLOORTO EXPOSETHE VEHICLES AIR SUSPENSION CONTROL MODULE. (FIGURE 79)



FIGURE 79

5. LOCATE THE VEHICLES AIR SUSPENSION CONTROL MODULE MOUNTED ON THE METAL SHIELD.
DISCONNECT ALLTHREE (TWO LARGE AND ONE SMALL) PLUGS CONNECTED TO THE SIDE. (FIGURES 80, 81)



FIGURE 80



FIGURE 81

6. LOCATE A SUITABLE GROUND AND INSTALLTHE BLACK WIRE FROM THE ELECTRONIC BYPASS MODULES WIRING HARNESS. (FIGURES 82, 83)



FIGURE 82



FIGURE 83





7. LOCATETHE POSITIVE 12 VOLT POWER SOURCE AND INSTALLTHE REDWIRE FROMTHE ELECTRONIC BYPASS MODULES WIRING HARNESS. (FIGURES 84, 85, 86)

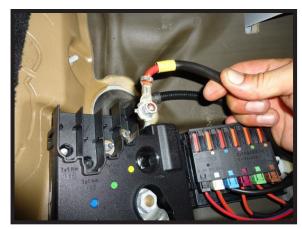


FIGURE 84

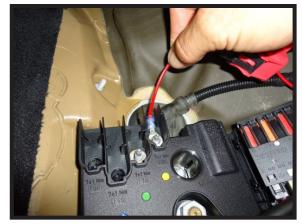


FIGURE 85



FIGURE 86

8. LOCATE THE SMALL, TWO WIRE PLUG FROM THE VEHICLES WIRING HARNESS AND PLUG IT INTO THE ELECTRONIC BYPASS MODULES WIRING HARNESS. (FIGURE 87)

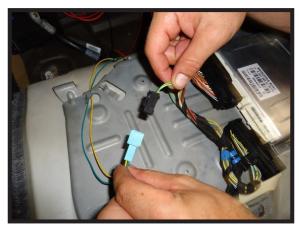


FIGURE 87





9. PLUGTHE NEW WIRING HARNESS INTO THE ELECTRONIC BYPASS MODULE. (FIGURE 88)

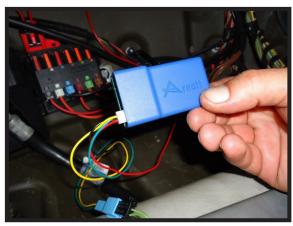


FIGURE 88

10. SECURETHE ELECTRONIC BYPASS MODULE IN A SUITABLE LOCATION AND REINSTALL ALL PANELS IN REVERSE ORDER OF WHICHTHEY WERE DISASSEMBLED. (FIGURE 89)

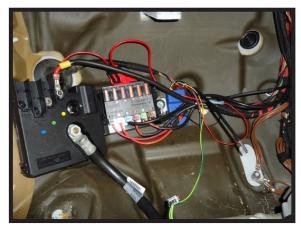


FIGURE 89

11. ELECTRONIC BYPASS MODULE INSTALLATION COMPLETE.

**NOTE:** DO NOT PLUGTHE FACTORY WIRING HARNESS BACK INTO THE VEHICLES AIR SUSPENSION CONTROL MODULE.