Arnott™
Suspension Products

INSTALLATION MANUAL

C-4425
Arnott New Coil Spring Conversion Kit
Various GM SUVs (GMT K2YC/YG, LWB)



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.

DISCLAIMER: THE PRODUCT SHOWN IN THE INSTALLATION STEPS BELOW MAY LOOK DIFFERENT THAN THE PART YOU ARE INSTALLING. THE INSTALLATION STEPS ARE THE SAME AND ALL NOTICES AND WARNINGS SHOULD BE ADHERED TO IN THE SAME MANNER.

FRONT SHOCK REMOVAL

1. Lift vehicle and remove applicable front wheel. (Figure 1)



FIGURE 1

2. Unroute and disconnect the electrical connection. (Figures 2, 3)

NOTE: Secure the vehicle's electrical connector in a safe location. It will not be used in the installation of this kit.



FIGURE 2

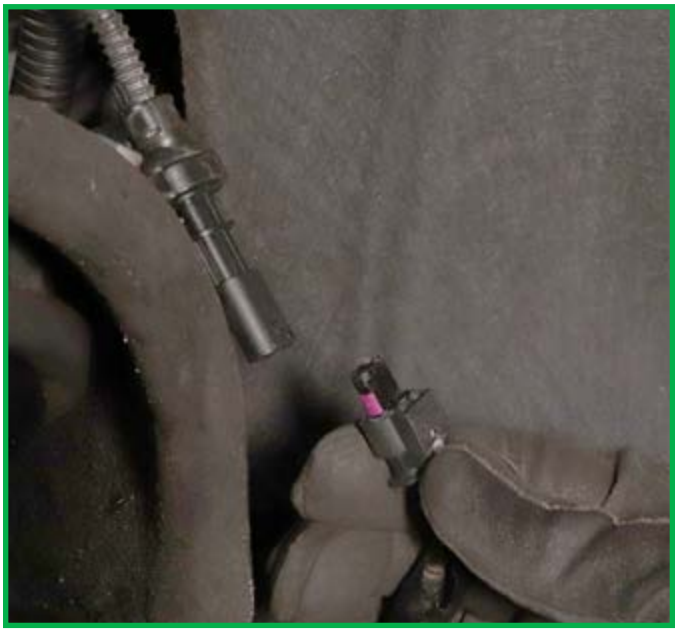


FIGURE 3

3. Remove the three (3) top mount nuts. (Figures 4, 5)



FIGURE 4



FIGURE 5

4. Remove the two (2) bottom mount bolts. (Figures 6, 7)

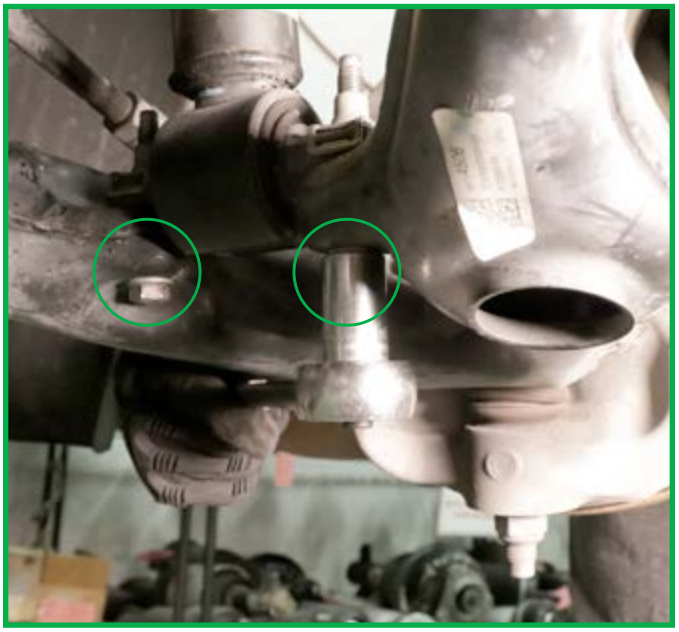


FIGURE 6



FIGURE 7

5. Remove the shock assembly from the vehicle. (Figure 8)



FIGURE 8

6. Removal complete.

FRONT SHOCK INSTALLATION

WARNING:

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

1. Install the assembled shock on to the vehicle. (Figure 9)



FIGURE 9

2. Reinstall the two (2) bottom mount bolts. Tighten to manufacturer's specifications. (Figure 10)



FIGURE 10

3. Reinstall the three (3) top mount nuts. Tighten to manufacturer's specifications. (Figures 11, 12)



FIGURE 11



FIGURE 12

4. Reinstall the applicable front wheel.
5. Lower the vehicle.
6. Installation complete.

REAR AIR SHOCK/COIL SPRING REMOVAL

1. Set steering to straight.
2. Raise vehicle.
3. Remove the rear wheels. (Figure 13)



FIGURE 13

4. Locate and remove the air lines to deflate the air shocks. Turn the metal clip approximately 90° to remove the air line fitting from the air shock. (Figure 14)



FIGURE 14

5. Locate and remove the electrical connectors from the top of the air shocks. (Figure 15)



FIGURE 15

6. Loosen and remove the upper and lower shock mounting nuts. (Figures 16, 17)



FIGURE 16



FIGURE 17

7. Support the axle to relieve pressure from the air shocks mounting points. Remove the upper and lower air shock mounting bolts. (Figure 18)



FIGURE 18

8. Remove the air shocks from the vehicle. (Figure 19)



FIGURE 19

9. Remove the bolts and ride height sensors from the upper control arms. (Figures 20, 21)



FIGURE 20



FIGURE 21

10. Remove the bolt and bracket holding the brake line to the rear differential. (Figures 22, 23)



FIGURE 22

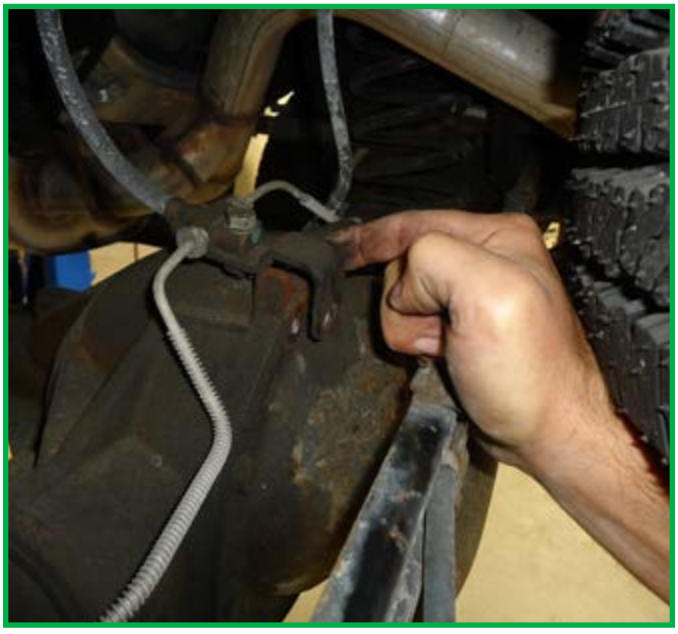


FIGURE 23

11. Remove the nuts on the upper sway bar end links. (Figure 24)



FIGURE 24

12. Using a jack or other suitable device, support the axle to release pressure from the sway bar end links. Remove the sway bar end link bolts. (Figures 25. 26)



FIGURE 25



FIGURE 26

13. Slowly lower the axle and remove the coil springs. (Figure 27)



FIGURE 27

14. Removal complete.

REAR COIL SPRING INSTALLATION

WARNING:

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

NOTE: Secure the air lines and electrical connectors in suitable locations as they are not used for this kit.

1. Place the rubber isolator onto the axle and install the coil spring into the vehicle. Be sure to keep the isolator properly aligned with the coil strut. (Figures 28, 29)



FIGURE 28



FIGURE 29

2. Using a jack or other suitable device, raise the axle until the sway bar end link is realigned with the bolt holes. Reinstall the sway bar end link bolts. (Figures 30, 31)

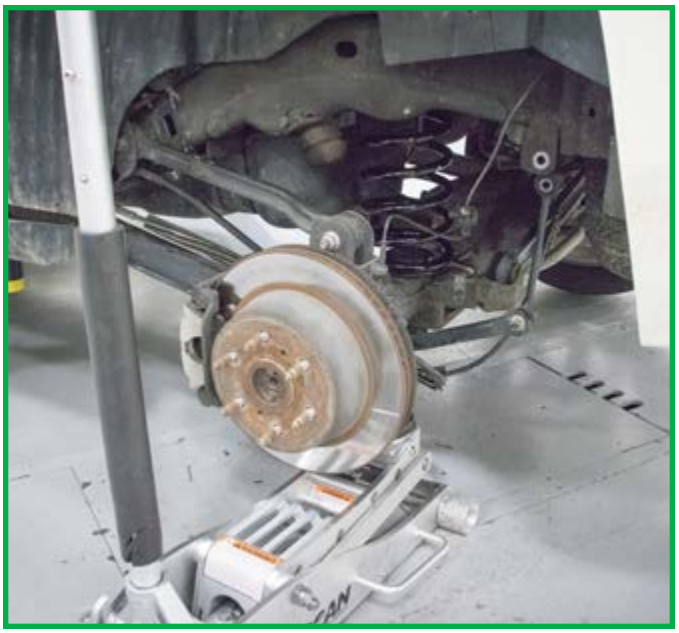


FIGURE 30



FIGURE 31

3. Install the shock into the vehicle. (Figure 32)

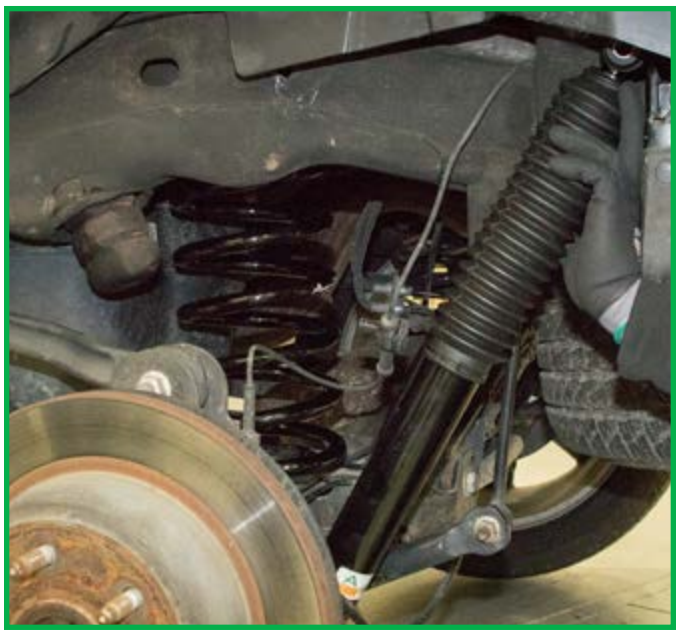


FIGURE 32

4. Install the upper and lower shock mounting hardware and tighten to manufacturer's specifications. (Figures 33, 34)



FIGURE 33



FIGURE 34

5. Reinstall the brake line bracket and ride height sensors, tightening to manufacturer's specifications. (Figures 35, 36, 37)



FIGURE 35



FIGURE 36



FIGURE 37

6. Reinstall the wheel.
7. Lower the vehicle.
8. Installation complete.

ELECTRONIC BYPASS MODULE INSTALLATION

WARNING:

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

WARNING:

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.

1. Locate BCM beneath the driver's side of the dash behind the OBD connector. (Figure 38)



FIGURE 38

2. Using the wiring diagram, match the wires and splice them together with the T-Tap connectors. (Figures 39, 40)

ELECTRONIC BYPASS MODULE	BCM PLUG	BCM PIN#	BCM WIRE/COLOR
Red	Green	6	Violet/Black
Black	Blue	2	Black
Blue	Natural	25	Blue
Green	Natural	24	White

FIGURE 39



FIGURE 40

3. Once all the wires have been connected you will need to secure the EBM under the dash and away from any source of heat and/or any moving parts.
4. EBM installation complete.
5. Remove the cover from the fuse box in the engine compartment. (Figure 41)



FIGURE 41

6. Remove the 30-amp fuse in location #24 labeled as “RTD”. (Figures 42, 43)



FIGURE 42



FIGURE 43

NOTE: Secure the air lines and electrical connectors in suitable locations as they are not used for this kit.

7. Reinstall the fuse box cover.
8. Installation complete.

Arnott™
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HOW HELPFUL WAS THIS MANUAL?

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NEED IMMEDIATE SUPPORT?

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