

# Installation Manual

**C-2818**  
**ARNOTT PREMIUM COIL SPRING CONVERSION KIT**  
**w/EBM**  
**FOR 2000-2006**  
**VARIOUS SHORT WHEELBASE GM SUVs**



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).

## 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.*

## FRONT SHOCK REMOVAL

1. SET STEERING TO STRAIGHT.
2. RAISE VEHICLE.
3. REMOVE THE FRONT WHEELS. (FIGURE 10-1)



FIGURE 10-1

4. LOCATE AND REMOVE THE UPPER SHOCK SENSOR PLUG. TURN THE PLUG COUNTER CLOCKWISE TO UNLOCK IT FROM THE SHOCK. (FIGURES 10-2, 10-3)



FIGURE 10-2



FIGURE 10-3

5. SUPPORT THE LOWER A-ARM WITH A JACK OR OTHER SUITABLE DEVICE TO RELIEVE PRESSURE FROM THE SHOCK'S MOUNTING POINTS. (FIGURE 10-4)



FIGURE 10-4

6. REMOVE THE UPPER MOUNTING NUT, WASHER, AND RUBBER ISOLATOR. (FIGURES 10-5, 10-6)



FIGURE 10-5



FIGURE 10-6

7. REMOVE THE LOWER SHOCK MOUNTING NUT AND BOLT. (FIGURES 10-7, 10-8)



FIGURE 10-7

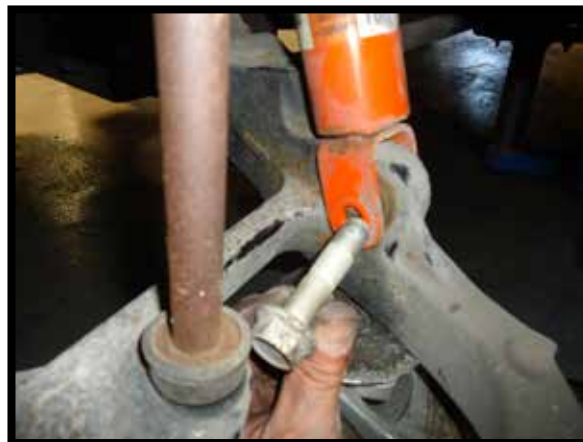


FIGURE 10-8

8. REMOVE THE SHOCK FROM THE VEHICLE. (FIGURE 10-9)



FIGURE 10-9

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## FRONT SHOCK INSTALLATION



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

1. INSTALL THE SHOCK IN REVERSE ORDER OF REMOVAL.

### **NOTE:**

*Secure the sensor harness in a way not to interfere with any moving parts or components with excessive heat.*



## REAR AIR SHOCK/COIL SPRING REMOVAL

1. REMOVE THE REAR WHEELS. (FIGURE 30-1)



FIGURE 30-1

2. LOCATE AND REMOVE THE AIR LINES TO DEFLATE THE AIR SHOCKS. TURN THE METAL CLIP APPROX. 90° TO REMOVE THE AIR LINE FITTING FROM THE AIR SHOCK. (FIGURE 30-2)



FIGURE 30-2

3. LOCATE AND REMOVE THE ELECTRICAL CONNECTORS FROM THE TOP OF THE AIR SHOCKS. (FIGURE 30-3)



FIGURE 30-3

4. LOOSEN AND REMOVE THE UPPER AND LOWER SHOCK MOUNTING NUTS. (FIGURES 30-4, 30-5)



FIGURE 30-4



FIGURE 30-5

5. SUPPORT THE AXLE TO RELIEVE PRESSURE FROM THE AIR SHOCKS MOUNTING POINTS. REMOVE THE UPPER AND LOWER AIR SHOCK MOUNTING BOLTS. (FIGURE 30-6)



FIGURE 30-6

6. REMOVE THE AIR SHOCKS FROM THE VEHICLE. (FIGURE 30-7)



FIGURE 30-7

7. REMOVE THE BOLTS AND RIDE HEIGHT SENSORS FROM THE UPPER CONTROL ARMS. (FIGURES 30-8, 30-9)



FIGURE 30-8



FIGURE 30-9

8. REMOVE THE BOLT AND BRACKET HOLDING THE BRAKE LINE TO THE REAR DIFFERENTIAL. (FIGURES 30-10, 30-11)



FIGURE 30-10



FIGURE 30-11

9. REMOVE THE NUTS ON THE UPPER SWAY BAR END LINKS. (FIGURE 30-12)



FIGURE 30-12



10. 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 30-13, 30-14)



FIGURE 30-13



FIGURE 30-14

11. SLOWLY LOWER THE AXLE AND REMOVE THE COIL SPRINGS. (FIGURE 30-15)



FIGURE 30-15

## REAR COIL SPRING INSTALLATION



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

1. INSTALL THE REAR COIL CONVERSION IN THE REVERSE ORDER OF REMOVAL.

### **NOTE:**

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

## ELECTRONIC BYPASS MODULE INSTALLATION

1. LOCATE THE AIR RIDE CONTROLLER IN THE REAR RIGHT SIDE OF THE CARGO AREA.
2. REMOVE (3) CONNECTORS FROM AIR RIDE CONTROLLER. (FIGURE 40-1)



FIGURE 40-1

2. CUT ORANGE AND BLACK WIRES (PINS 'D' AND 'E') FROM GRAY CONNECTOR. (FIGURE 40-2)



FIGURE 40-2

3. LOCATE PIN B-8 ON PINK 24 PIN CONNECTOR AND CUT WIRE. (FIGURE 40-3)

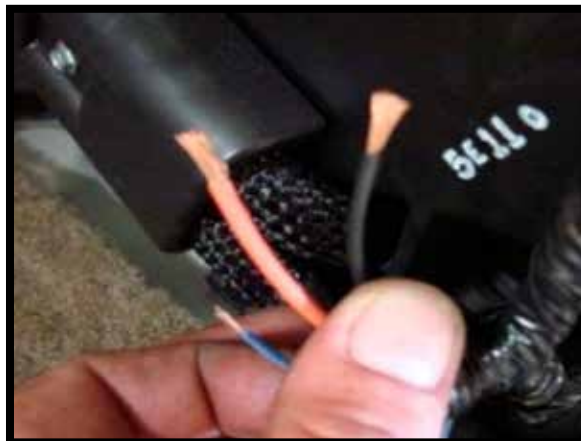


FIGURE 40-3

4. CONNECT TO THE WIRING HARNESS SIDE (FIGURES 40-4, 40-5)

ELECTRONIC BYPASS MODULE	FROM	TO	VEHICLE'S WIRING HARNESS
	BLUE	BLUE	
	RED	ORANGE	
	BLACK	BLACK	

FIGURE 40-4



FIGURE 40-5

5. CONTROLLER AND CONTROLLER I.D. PLATE. (FIGURES 40-6, 40-7)



FIGURE 40-6



FIGURE 40-7

6. **DO NOT** RECONNECT AIR RIDE CONTROLLER.
7. REPLACE FACTORY 25A FUSE WITH SUPPLIED 5A FUSE.
8. EBM INSTALLATION COMPLETE.