



# INSTALLATION MANUAL

C-4029

Arnott New Coil Spring Conversion Kit  
Lincoln Navigator (U326)/Ford Expedition (U324)  
w/CCD



Engineered to Ride, Built to Last<sup>®</sup>

# 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.arnottsuspension.com](http://www.arnottsuspension.com) and [www.arnotteurope.com](http://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.

## A 4-WHEEL ALIGNMENT IS RECOMMENDED AFTER INSTALLATION

### REAR STRUT REMOVAL

1. Set the steering to straight ahead.
2. Safely raise the vehicle according to the manufacturer's instructions.
3. Remove applicable rear wheel. (Figure 1)



FIGURE 1

4. Disconnect and unroute the electrical connection. (Figures 2, 3)



FIGURE 2



FIGURE 3

5. Disconnect the ride height sensor bracket from the lower control arm. (Figure 4, 5)



FIGURE 4



FIGURE 5

6. Remove the lower shock bolt. (Figures 6, 7)



FIGURE 6



FIGURE 7

7. Remove lower control arm bolt. (Figure 8, 9)



FIGURE 8



FIGURE 9

8. Remove the three (3) shock top mount nuts. (Figures 10, 11)

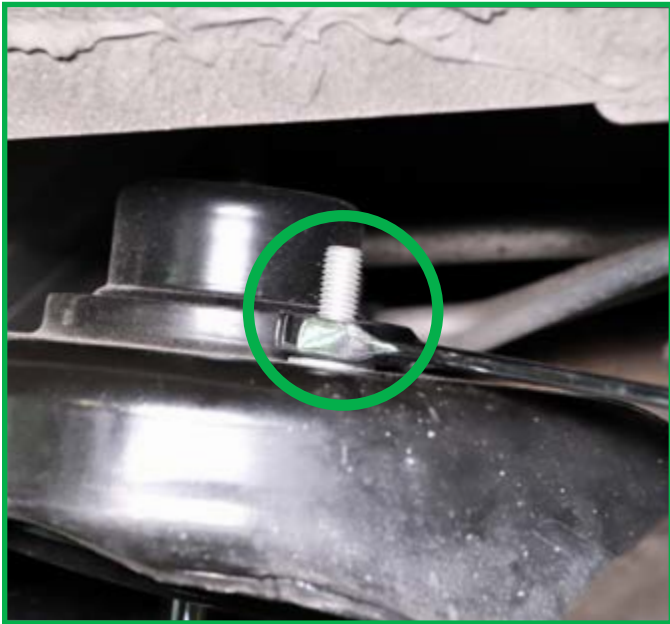


FIGURE 10



FIGURE 11

9. Pull down the lower control arm and the remove strut from the vehicle. (Figure 12)



FIGURE 12

10. Front strut removal complete.

# REAR STRUT INSTALLATION



**WARNING:**

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

1. Insert new Arnott strut into vehicle. (Figure 13)



FIGURE 13

2. Install top mount nuts loosely to hold shock in place. (Figure 14)



FIGURE 14

3. Reconnect the lower control arm and install the lower control arm bolt. Tighten to manufacturer's specifications. (Figures 15, 16)



FIGURE 15



FIGURE 16

4. Position and reinstall the bottom shock mount bolt. Tighten to manufacturer's specifications. (Figures 17, 18)



FIGURE 17



FIGURE 18

5. Reconnect the ride height sensor bracket to the lower control arm. Tighten to manufacturer's specifications. (Figures 19, 20)



FIGURE 19



FIGURE 20

6. Finish tightening top mount nuts to manufacturer's specifications. (Figure 21)



FIGURE 21

7. Reinstall applicable rear wheel.
8. Lower vehicle.
9. Rear strut installation complete.

# FRONT STRUT REMOVAL

1. Ensure the vehicle is properly lifted according to the manufacturer's instructions.
2. Remove the applicable front wheel. (Figure 22)

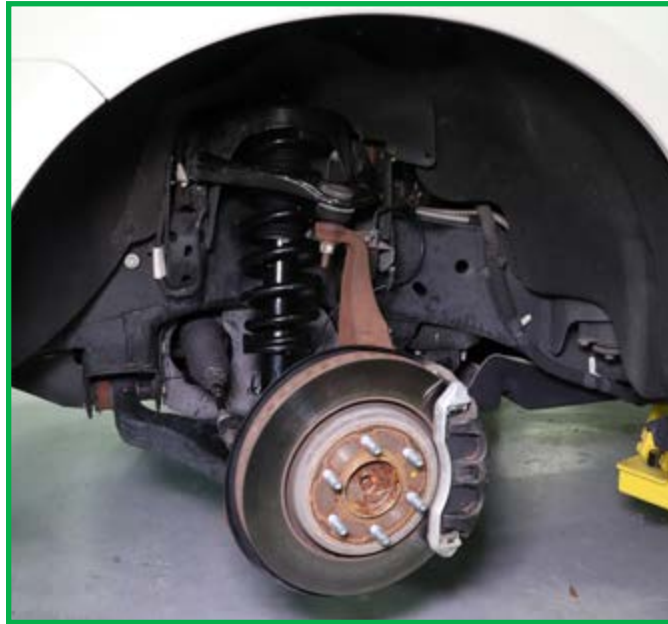


FIGURE 22

3. Disconnect and unroute the electrical connection. (Figures 23, 24)



FIGURE 23



FIGURE 24

4. Remove the sway bar end link nut and disconnect. (Figures 25, 26)



FIGURE 25



FIGURE 26

5. Remove the two (2) lower shock mount bolts. (Figures 27, 28)



FIGURE 27



FIGURE 28

6. Remove the steering rod link nut and disconnect. (Figures 29, 30)

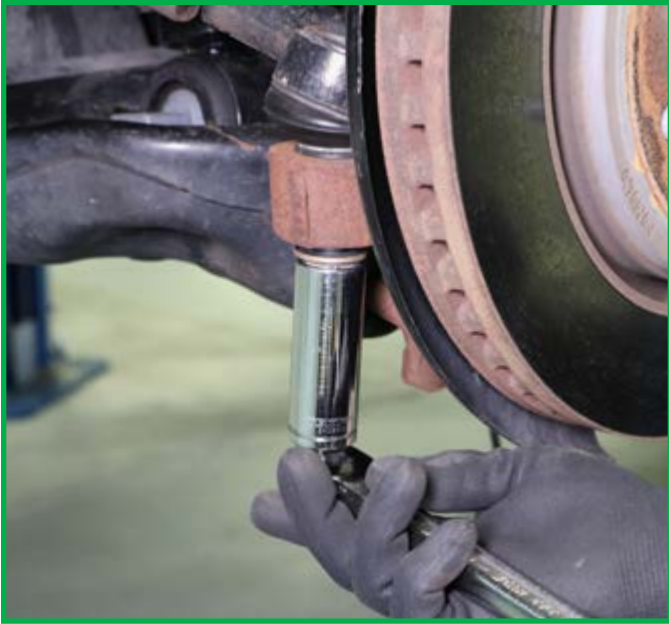


FIGURE 29

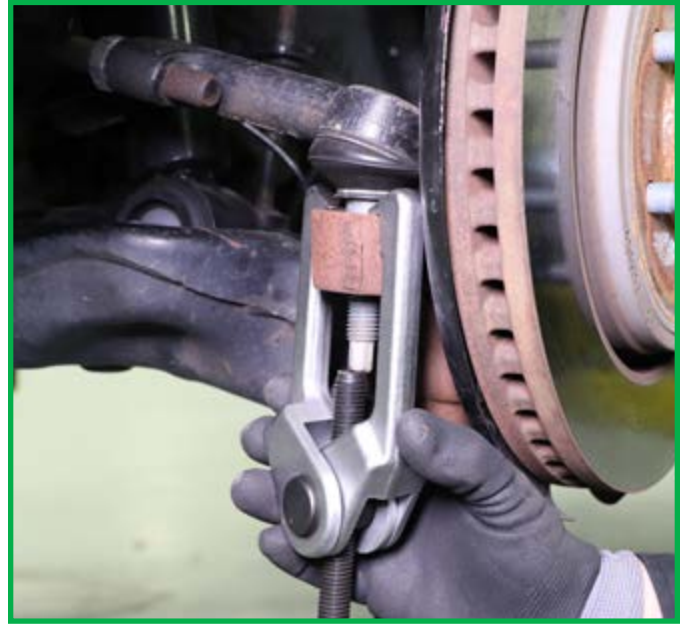


FIGURE 30

7. Disconnect the upper control arm. (Figures 31, 32)

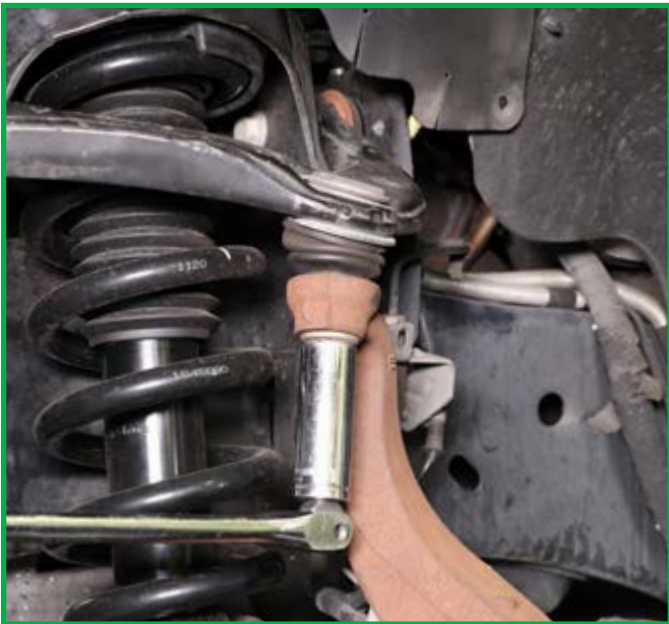


FIGURE 31



FIGURE 32

8. Remove the three (3) top mount nuts. (Figure 33)

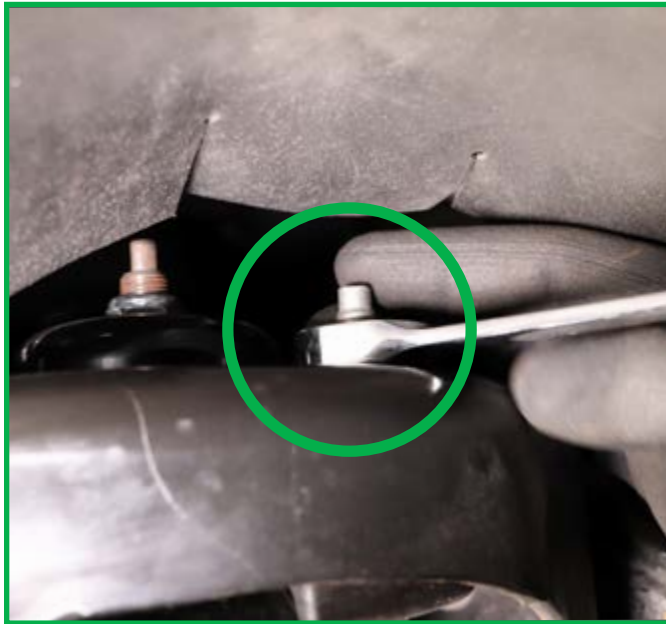


FIGURE 33

9. Remove old strut from the vehicle. (Figure 34)



FIGURE 34

10. Front strut removal complete.

# FRONT SHOCK INSTALLATION



**WARNING:**

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

1. Insert new Arnott strut into the vehicle. (Figure 35)



FIGURE 35

2. Install the three (3) top mount nuts and tighten to manufacturer's specifications. (Figure 36)

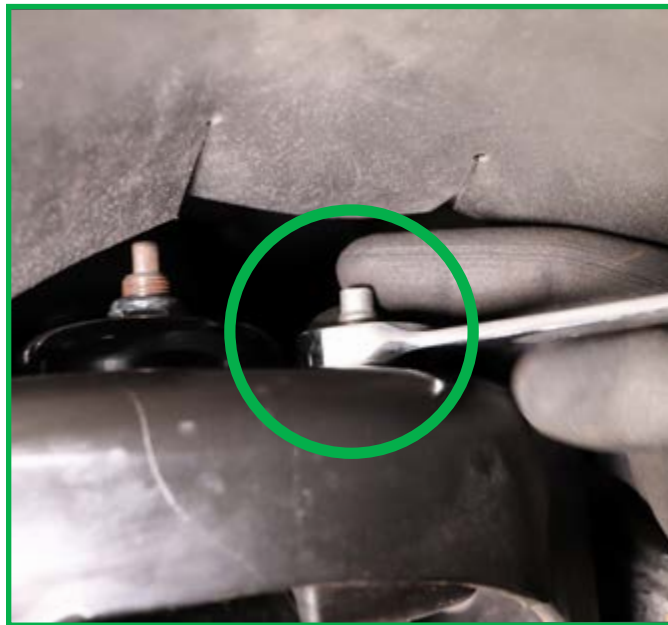


FIGURE 36

3. Connect the upper control arm and tighten to manufacturer's specifications. (Figure 37)

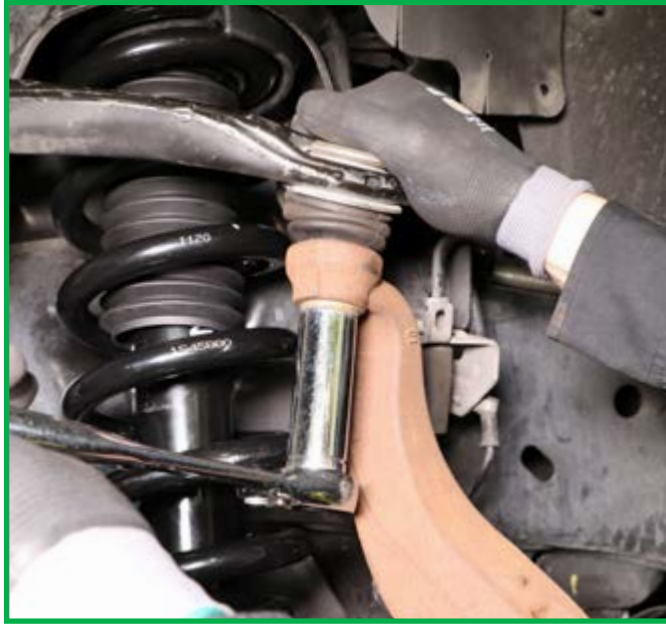


FIGURE 37

4. Reconnect the steering rod link. Tighten to manufacturer's specifications. (Figure 38)

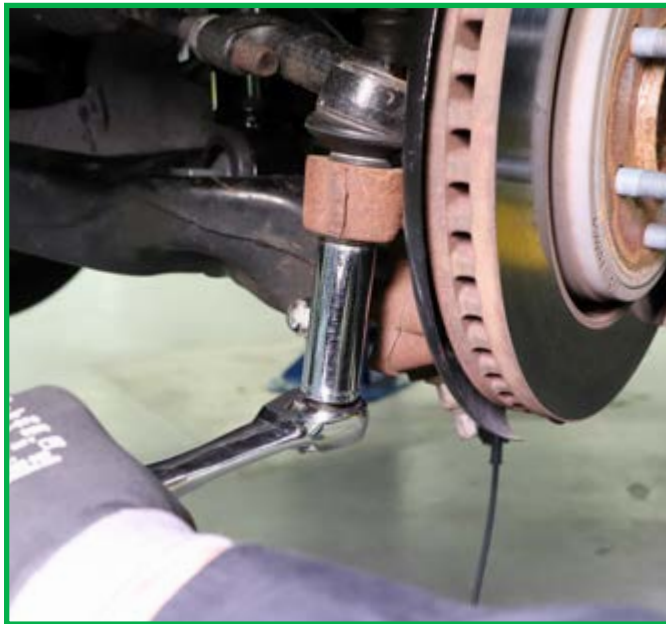


FIGURE 38

5. Install the two (2) lower shock mount bolts. Tighten to manufacturer's specifications. (Figure 39, 40)



FIGURE 39



FIGURE 40

6. Reinstall the sway bar end link and nut. Tighten to manufacturer's specifications. (Figure 41)



FIGURE 41

7. Reinstall the applicable front wheel.
8. Lower the vehicle.
9. Installation complete.

# ELECTRONIC BYPASS MODULE (EBM) INSTALLATION

1. Remove the lower trim panel from each side of the front center console. Remove the retaining screws. (Figures 42, 43)



FIGURE 42



FIGURE 43

2. Move the front seats forward and remove the rear screws on the center console. (Figures 44, 45)



FIGURE 44



FIGURE 45

3. Tilt the console forward to gain access to the Vehicle Dynamics Module underneath. (Figures 46, 47)



FIGURE 46



FIGURE 47

4. Remove the two harnesses from the VDM. (Figure 48, 49)

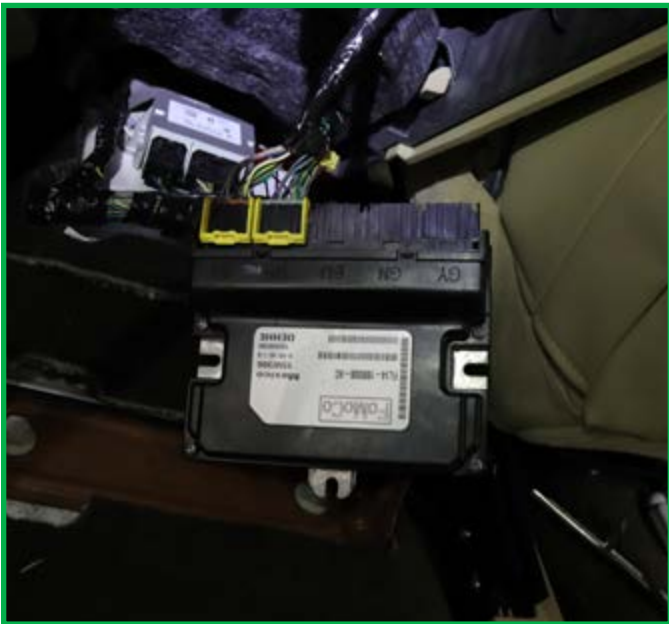


FIGURE 48



FIGURE 49

5. According to the table below, splice the EBM harness wires to the applicable control module harness wires using the four (4) supplied heat-shrink butt connectors. (Figures 50, 51)

	FROM	TO	PIN #	CONNECTOR #	
EBM HARNESS	Red	White/Brown	7	C3272B	VEHICLE'S WIRING HARNESS
	Black	Black/Violet	6	C3672A	
	Blue	White/Blue	8	C3672A	
	Green	White	9	C3672A	

FIGURE 50

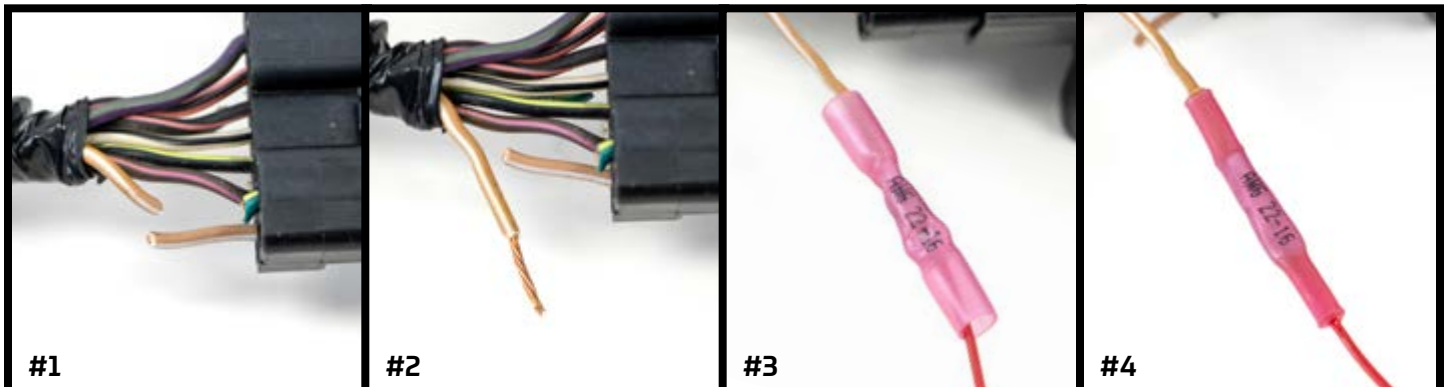
## HEAT-SHRINK BUTT CONNECTOR INSTALLATION



### BEFORE CUTTING

Verify you are working with the correct wires. Check the manufacturer's wiring diagram for your specific vehicle.

**NOTE:** Make all new connections to the **HARNESS SIDE**, not the connector side.



#1 IDENTIFY AND CUT THE APPLICABLE WIRE TO THE CONTROL MODULE.

#2 STRIP 10MM OF INSULATION WITH A SUITABLE TOOL. TWIST EXPOSED WIRE.

#3 INSERT THE WIRE INTO THE BUTT CONNECTOR AND CRIMP ACCORDING TO THE TABLE ABOVE.

#4 USE AN APPROPRIATE TOOL TO HEAT SHRINK.

FIGURE 51

6. Connect the EBM to the EBM harness. (Figure 52)



FIGURE 52

7. Secure the EBM to a safe location. **Do not plug the VDM harnesses back into the VDM.**
8. Reinstall the center console and replace the trim.
9. Installation complete.

**A 4-WHEEL ALIGNMENT  
IS RECOMMENDED AFTER INSTALLATION**

# Arnott™

## Suspension Products

### Arnott US Business Office:

[www.arnottsuspension.com](http://www.arnottsuspension.com)

100 Sea Ray Drive  
Merritt Island, FL 32953

**Call:** 800.251.8993

321.868.3016

**Fax:** 321.868.3703

**Email:** [techassistance@arnottinc.com](mailto:techassistance@arnottinc.com)

### Arnott Europe Business Office:

[www.arnotteurope.com](http://www.arnotteurope.com)

Industrieweg 19  
5145 PD, Waalwijk (NL)

**NL Phone:** +31 73 7850 580

**DE Phone:** +31 85 2087 438

**UK Phone:** +44 203 3186 124

**BE Phone:** +32 258 846 90

**ES Phone:** +34 91 901 10 56

**FR Phone:** +32 78 48 46 93

**Email:** [info@arnotteurope.com](mailto:info@arnotteurope.com)



#### HOW HELPFUL WAS THIS MANUAL?

Scan the QR code or click the link below to let us know.

<https://bit.ly/4rljmPH>

#### NEED IMMEDIATE SUPPORT?

We're happy to help! Reach out using the contact information above.