



# INSTALLATION MANUAL

**SK-4166**  
**Arnott New Front Left Shock**  
**Lincoln Navigator (U554)**



**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](http://www.arnottinc.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.

# FRONT SHOCK REMOVAL

1. Raise vehicle and remove the front left wheel. (Figure 1)



FIGURE 1

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



FIGURE 2

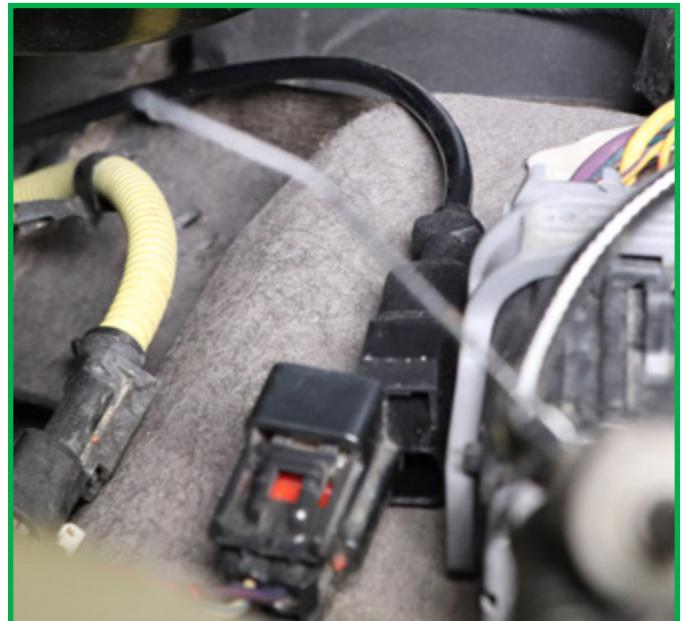


FIGURE 3

3. Remove sway bar end link nut and disconnect. (Figures 4, 5)



FIGURE 4



FIGURE 5

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



FIGURE 6



FIGURE 7

5. Remove the steering rod link nut and disconnect. (Figures 8, 9)

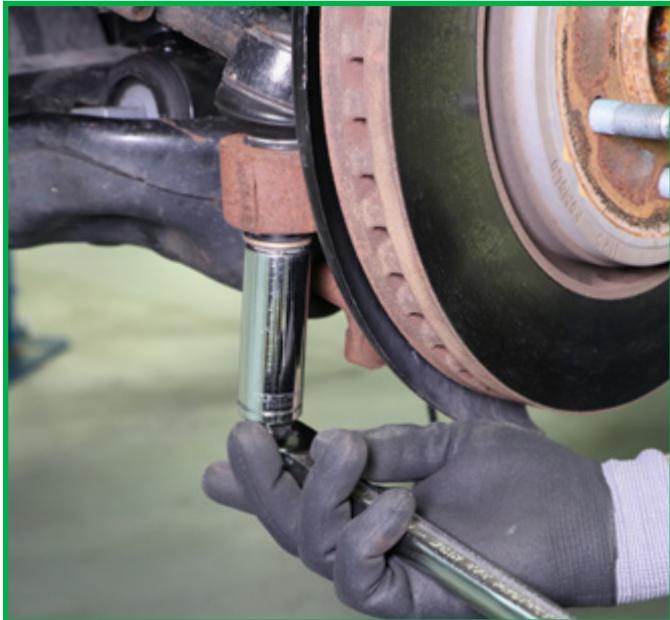


FIGURE 8



FIGURE 9

6. Disconnect the upper control arm. (Figures 10, 11)

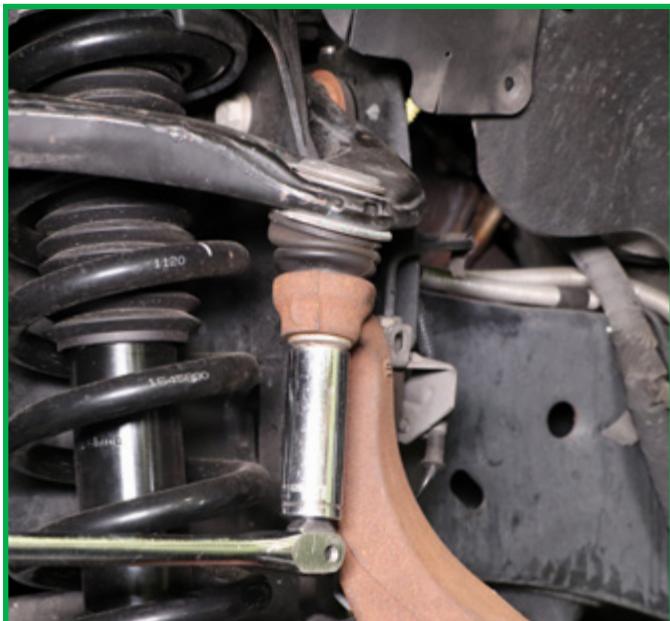


FIGURE 10



FIGURE 11

7. Remove the three (3) top mount nuts. (Figure 12)

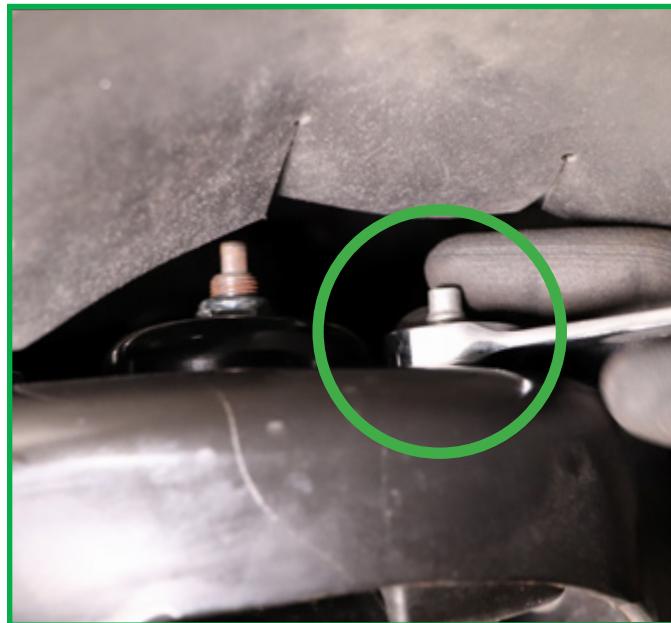


FIGURE 12

8. Remove old shock from the vehicle. (Figure 13)



FIGURE 13

9. Removal complete.

# FRONT SHOCK INSTALLATION



**WARNING:**

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

1. Insert new Arnott shock into vehicle. (Figure 14)



FIGURE 14

2. Install the three (3) top mount nuts and tighten to manufacturer's specifications. (Figure 15)

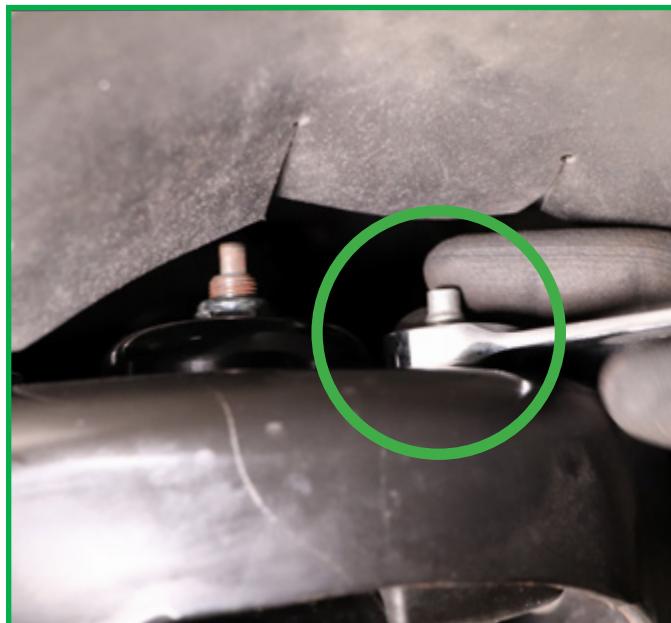


FIGURE 15

3. Connect the upper control arm and tighten to manufacturer's specifications. (Figure 16)



FIGURE 16

4. Reconnect the steering rod link. Tighten to manufacturer's specifications. (Figure 17)

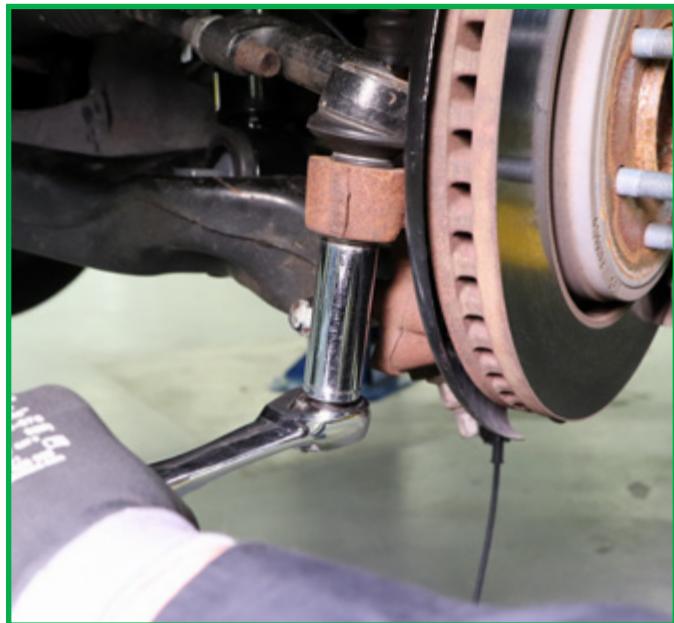


FIGURE 17

5. Install the two (2) lower shock mount bolts. Tighten to manufacturer's specifications. (Figure 18, 19)

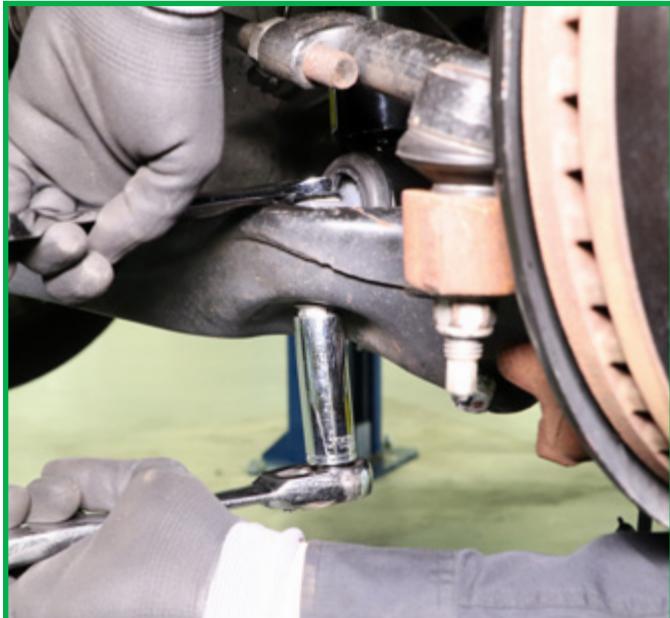


FIGURE 18



FIGURE 19

6. Reinstall the sway bar end link and nut. Tighten to manufacturer's specifications. (Figure 20)

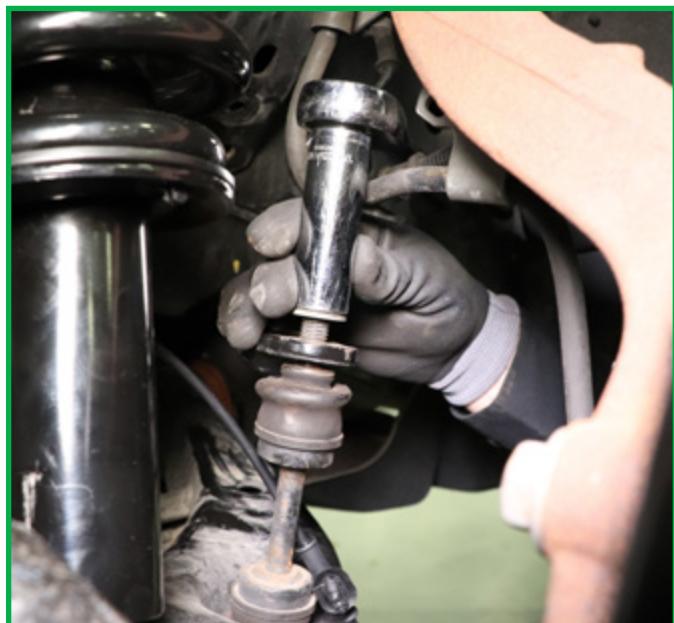


FIGURE 20

7. Route and reconnect the electrical connection to the shock. (Figures 21, 22)



FIGURE 21

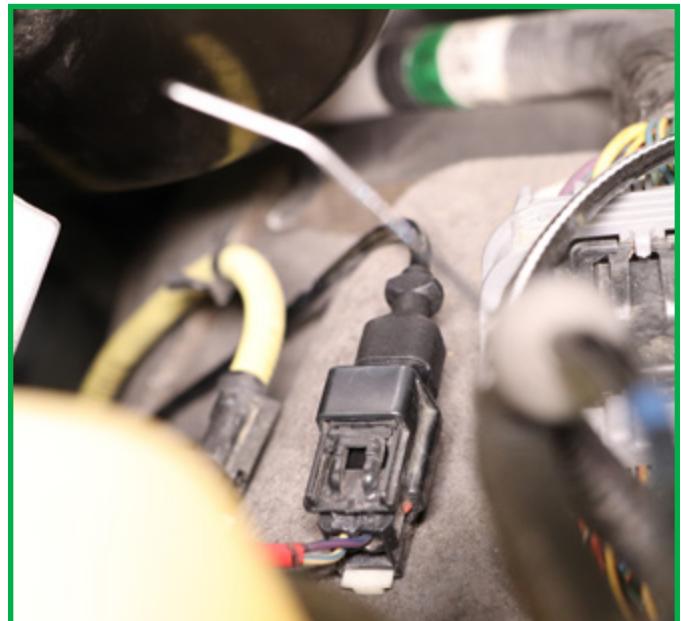


FIGURE 22

8. Reinstall the front left wheel.
9. Lower the vehicle.
10. Installation complete.



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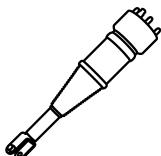
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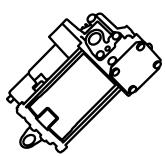
Air Springs



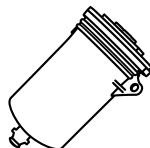
Struts



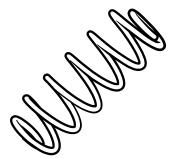
Shocks



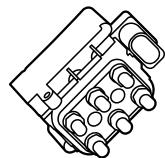
Compressors



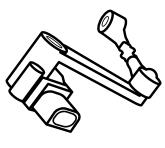
Dryers



Coil Spring  
Conversion Kits



Valve Blocks



Ride Height  
Sensors