Arnott®
Suspension Products

INSTALLATION MANUAL

AS-5679
Arnott New Front Air Strut
RAM 1500 (DT)



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.arnottsuspension.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.

FRONT AIR STRUT REMOVAL

NOTE: Use an appropriate jack to support the lower control arm and knuckle. Adjust as needed during the removal and installation process.

1. Set the steering to straight ahead.
2. Raise the vehicle.
3. Refer to the manufacturer's procedures for deflating and disabling the air suspension.
4. Remove the applicable front wheel. (Figure 1)



FIGURE 1

5. Remove the wire from the upper control arm and brake line routing clips. (Figure 2)



FIGURE 2

6. If applicable, remove the two wiring harness clips from the shock mounting studs.
7. Disconnect the air line fitting at the top of the strut. (Figure 3)



FIGURE 3

8. Loosen and remove the two (2) sway bar end link nuts. (Figures 4, 5)

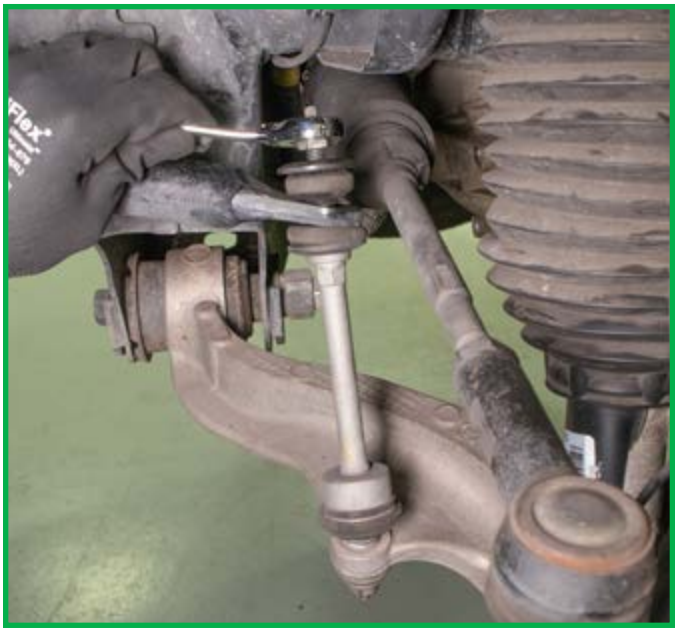


FIGURE 4

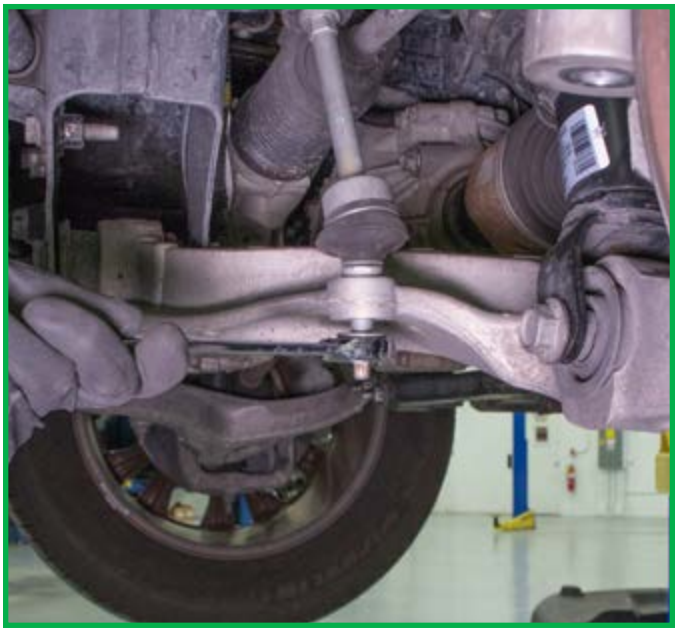


FIGURE 5

9. Remove the lower strut bolt at the lower control arm. (Figure 6)



FIGURE 6

10. Disconnect the upper control arm from the knuckle by removing the ball joint nut. (Figure 7)

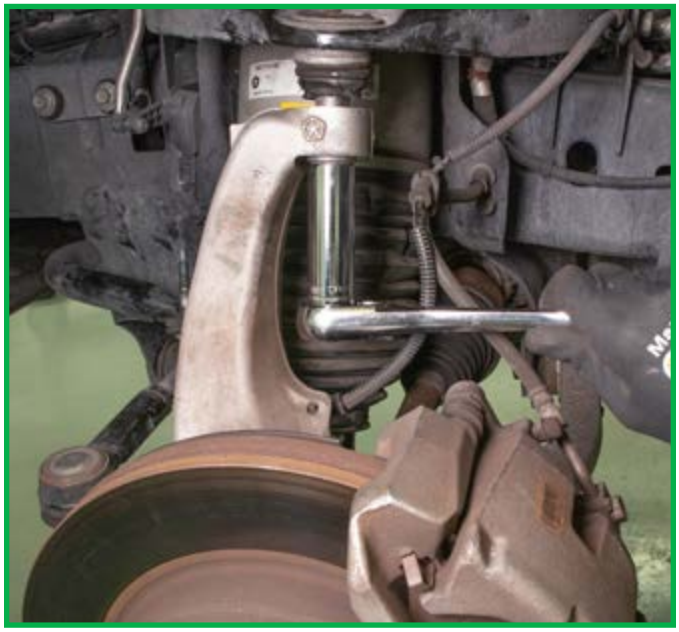


FIGURE 7

11. Remove the three upper mounting nuts while holding onto the strut from below. (Figure 8)



FIGURE 8

12. Remove the strut from the vehicle. (Figure 9)



FIGURE 9

NEW ARNOTT AIR STRUT INSTALLATION

WARNING:

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

1. Position the strut into the vehicle. (Figure 10)



FIGURE 10

2. Loosely install the three upper mounting nuts by hand, but do not tighten yet.
3. Reconnect the upper control arm to the knuckle by installing the ball joint nut. (Figure 11)



FIGURE 11

4. Install the lower strut bolt at the lower control arm. (Figure 12)



FIGURE 12

5. Install the two (2) sway bar end link nuts. (Figures 13, 14)



FIGURE 13



FIGURE 14

6. Tighten the three upper mounting nuts, and all other nuts and bolts, to the manufacturer's specifications. (Figure 15)



FIGURE 15

7. Remove the shipping cap from the valve at the top of the strut and install the provided air fitting. Tighten to the manufacturer's specifications. Then, remove the white shipping pin from the air fitting. (Figures 16, 17)

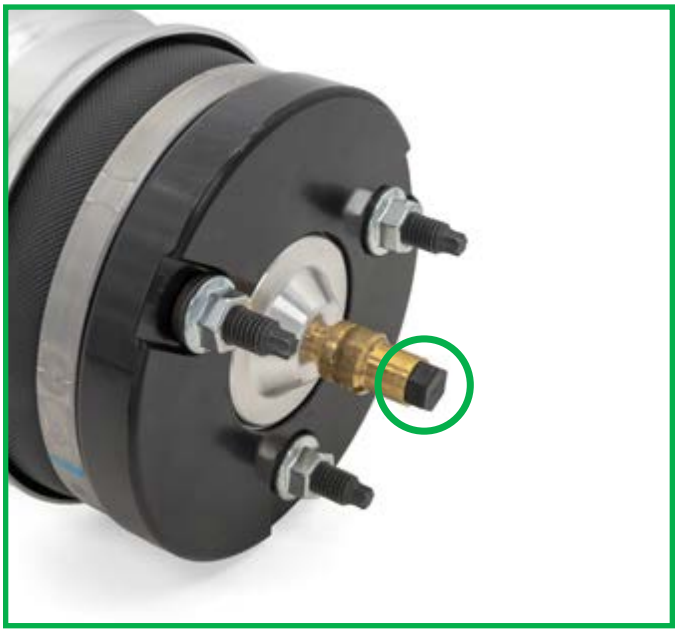


FIGURE 16



FIGURE 17

8. Remove the existing air line elbow, and then install the new provided elbow onto the air line. (Figures 18, 19)



FIGURE 18



FIGURE 19

9. Install the air line until fully seated, pulling outward slightly to confirm engagement. (Figures 20, 21)



FIGURE 20

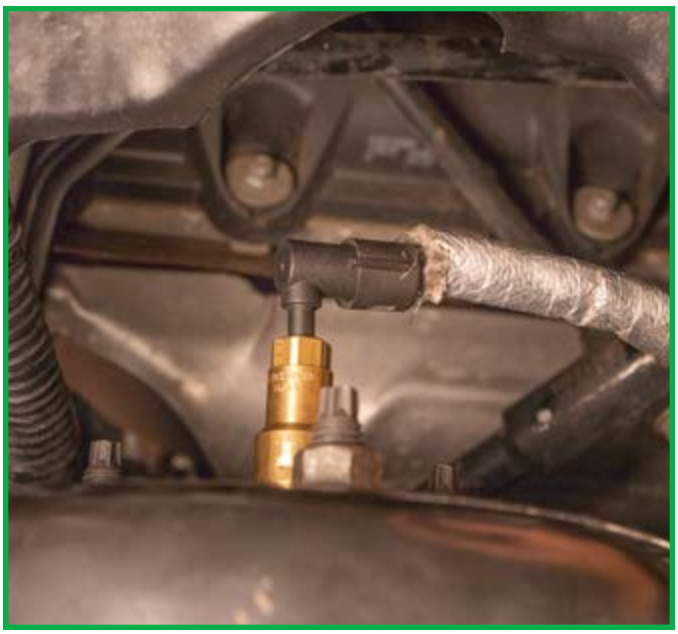


FIGURE 21

10. If applicable, reinstall the two wiring harness clips to the shock mounting studs.
11. Reattach the wire to the two routing clips. (Figure 22)



FIGURE 22

12. Reinstall the wheel.
13. Follow the manufacturer's specifications for enabling and inflating the air suspension system.
14. Lower the vehicle.
15. Installation complete.

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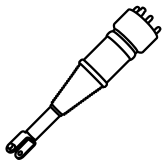
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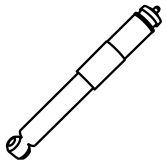
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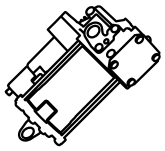
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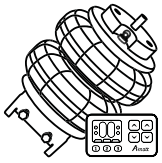
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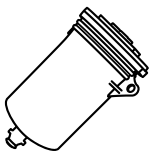

Air Springs

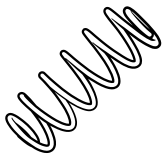

Struts

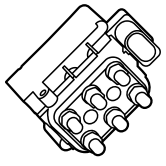

Shocks

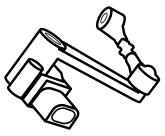

Compressors

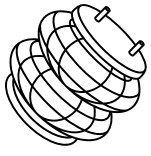

LCV Air Helper Spring Kits


Dryers


Coil Spring Conversion Kits


Valve Blocks


Ride Height Sensors


Pickup Truck Air Helper Springs