



INSTALLATION MANUAL

MR-3839

Arnett New Front Magnetic Strut
Various GM SUVs (GMT K2XX, w/MagneRide)

INSTALLATION VIDEO

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



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.

MAGNETIC STRUT REMOVAL

1. Lift the vehicle.
2. Remove the applicable front wheel. (Figure 1)



FIGURE 1

3. Unroute and unplug the electrical connection at the top of the strut. (Figures 2, 3)



WARNING:

Do not pull directly on the wires. Move the harness out of the way to avoid pinching it.



FIGURE 2



FIGURE 3

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



FIGURE 4



FIGURE 5

5. Remove the two (2) bottom mount bolts. (Figure 6)



FIGURE 6

6. Remove the strut assembly from the vehicle. (Figure 7)



FIGURE 7

7. Removal complete.

MAGNETIC STRUT DISASSEMBLY

1. Using the proper equipment, compress the coil spring of the strut assembly in order to safely begin disassembly. (Figure 8)



FIGURE 8

2. Remove the wire retaining clip and set it aside for reuse. (Figure 9)



FIGURE 9

3. Remove the electrical connector and discard it. (Figure 10)



FIGURE 10

4. Ensure the coil spring is safely compressed. Then, remove the top mount retaining nut. (Figures 11, 12)



FIGURE 11



FIGURE 12

5. Remove the top mount assembly and set it aside for reuse. (Figures 13, 14)



FIGURE 13



FIGURE 14

6. Decompress the coil spring and remove it. Set aside for reuse. (Figure 15)



FIGURE 15

7. Remove the rubber ring from the strut. Set aside for reuse. (Figure 16)



FIGURE 16

8. Disassembly complete.

MAGNETIC STRUT ASSEMBLY



WARNING:

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

1. Prepare the new strut for assembly by safely mounting it on the compressor. (Figure 17)



FIGURE 17

2. Place the rubber ring onto the new strut in the same orientation as before. (Figures 18, 19)



FIGURE 18



FIGURE 19

3. Place the coil spring onto the strut and safely compress it to continue with assembly. (Figures 20, 21)



FIGURE 20

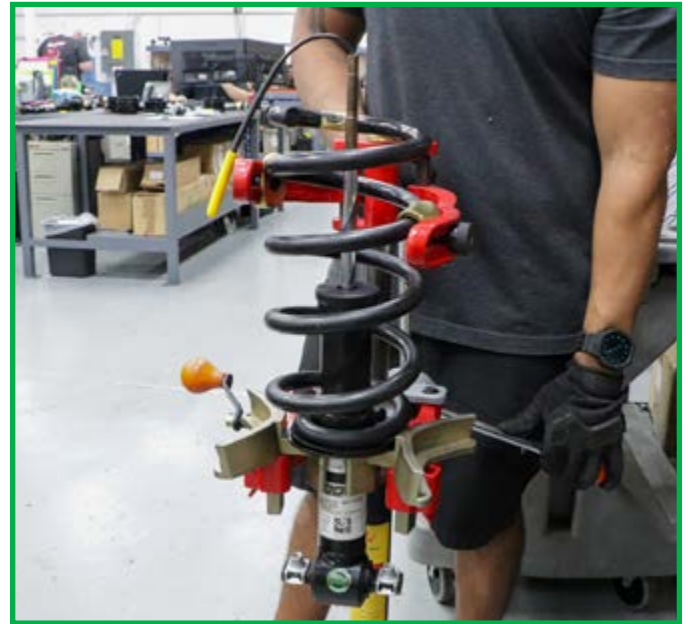


FIGURE 21

4. Place all parts of the top mount assembly onto the new strut. (Figures 22, 23, 24)



FIGURE 22



FIGURE 23



FIGURE 24

5. Install the provided top mount retaining nut. Safely tighten to the manufacturer's specifications. (Figures 25, 26)



FIGURE 25



FIGURE 26

6. Place the provided electrical connector onto the wire leads as shown. Ensure the wires are fully seated. (Figures 27, 28, 29, 30)



FIGURE 27



FIGURE 28



FIGURE 29



FIGURE 30

7. Reinstall the wire retaining clip. (Figure 31)



FIGURE 31

8. Assembly complete.

MAGNETIC STRUT ASSEMBLY INSTALLATION



WARNING:

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

1. Position the assembled strut into the vehicle from below. (Figure 32)



FIGURE 32

2. Reinstall the three (3) top mount nuts by hand to hold the strut in place. Tighten them snug, but do not torque fully yet. (Figures 33)



FIGURE 33

3. Reinstall the two (2) bottom mount bolts. (Figure 34)

NOTE: Start the hardware by hand to avoid cross-threading.



FIGURE 34

4. Torque the top mount nuts and the bottom mount bolts to the manufacturer's specifications.
5. Reroute and plug the electrical connection. (Figures 35, 36)



WARNING:

Ensure the connector is fully seated and locked. A loose connection can trigger suspension warning lights.



FIGURE 35



FIGURE 36

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

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