



# INSTALLATION MANUAL

**SK-2952**

**Arnett New Front Shock**

**Cadillac DTS, Buick Lucerne**

**(F55 Chassis, w/MagneRide, w/Sport Suspension)**



**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.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.



**WARNING:**

It is recommended that the vehicle receives a wheel alignment after installation.

## COIL STRUT REMOVAL

1. Raise vehicle and remove front wheel to expose the front coil strut. (Figure 1)

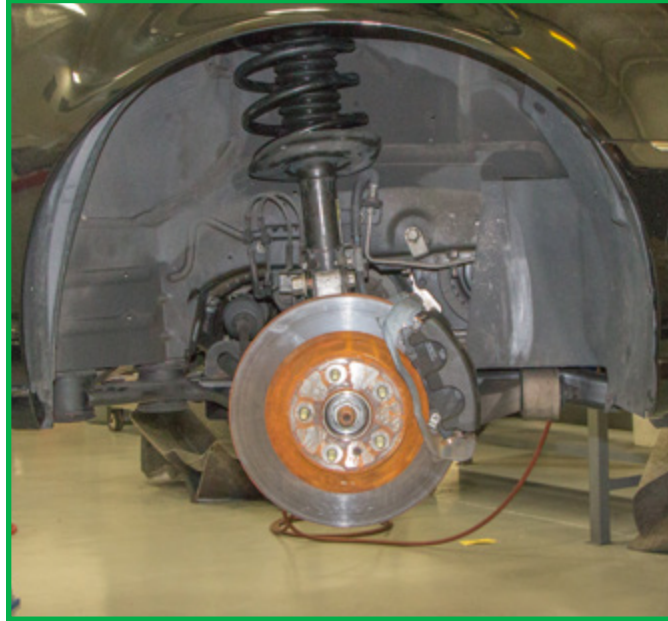


FIGURE 1

2. Unbolt the two side brackets from the strut. (Figures 2, 3)

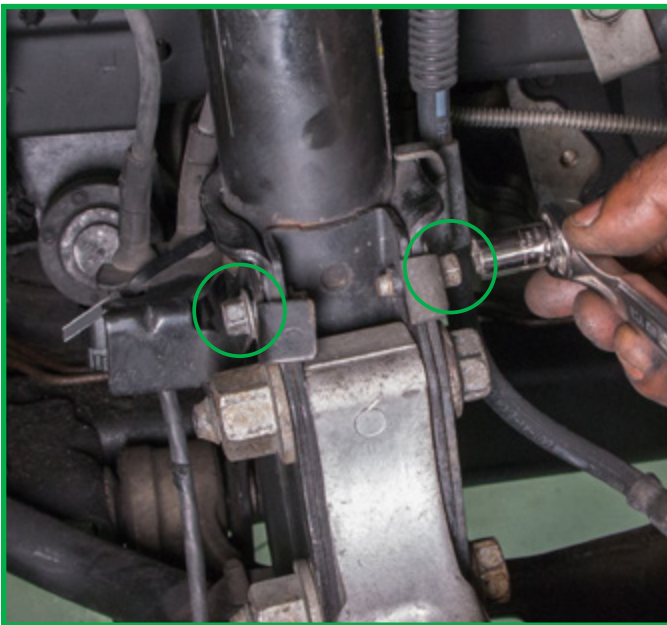


FIGURE 2



FIGURE 3

3. Disconnect coil sensor from the back of the strut. (Figure 4)

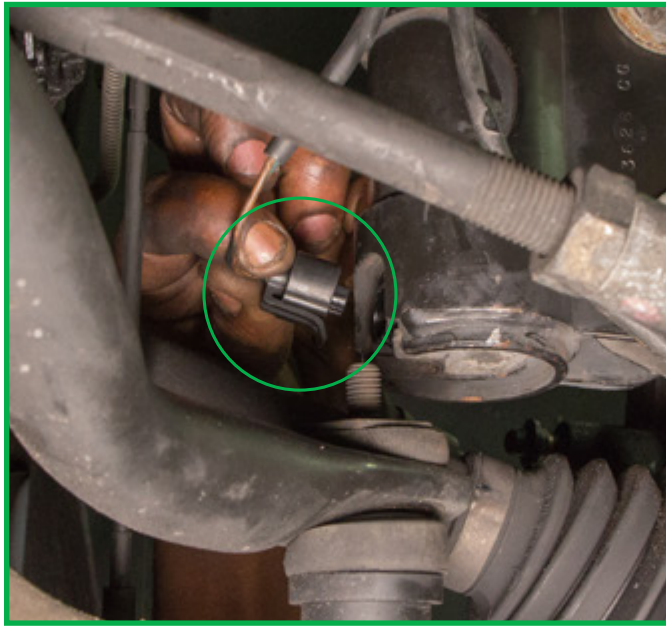


FIGURE 4

4. Remove the 3 top nuts from the strut. (Figure 5)

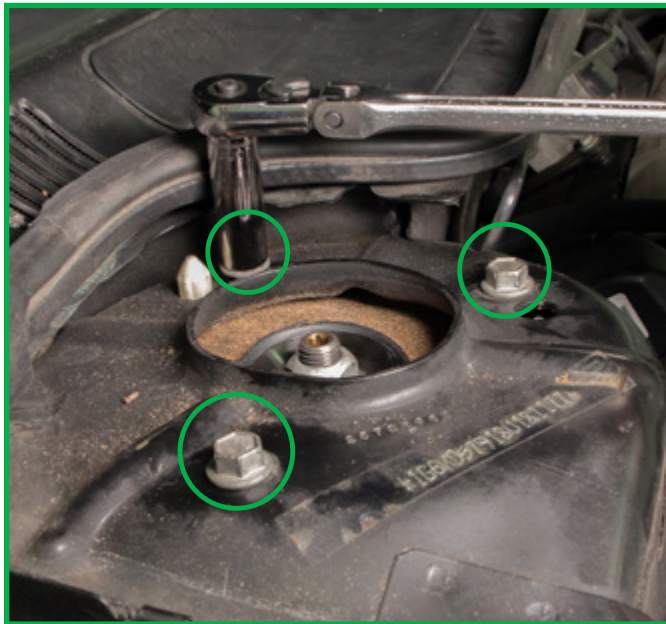


FIGURE 5

5. Loosen and remove the bottom mounting bolts from the strut. (Figures 6, 7)

**NOTE:** Tapping the bolts with a hammer may assist in ease of removal.

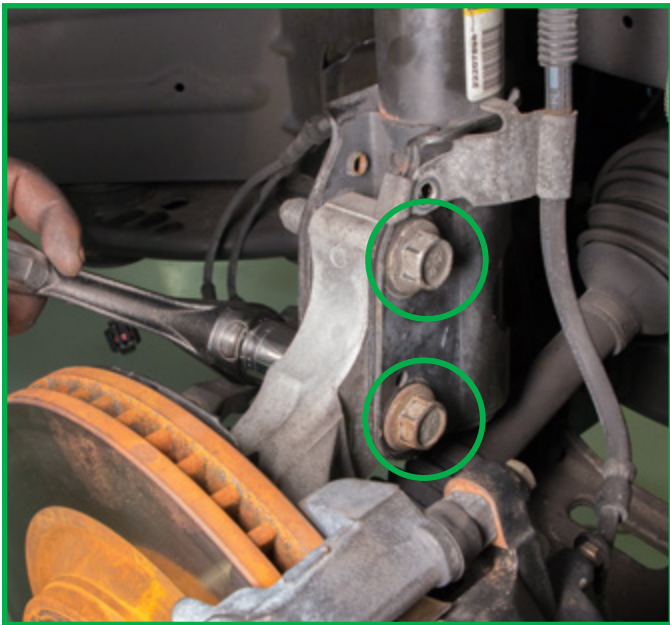


FIGURE 6

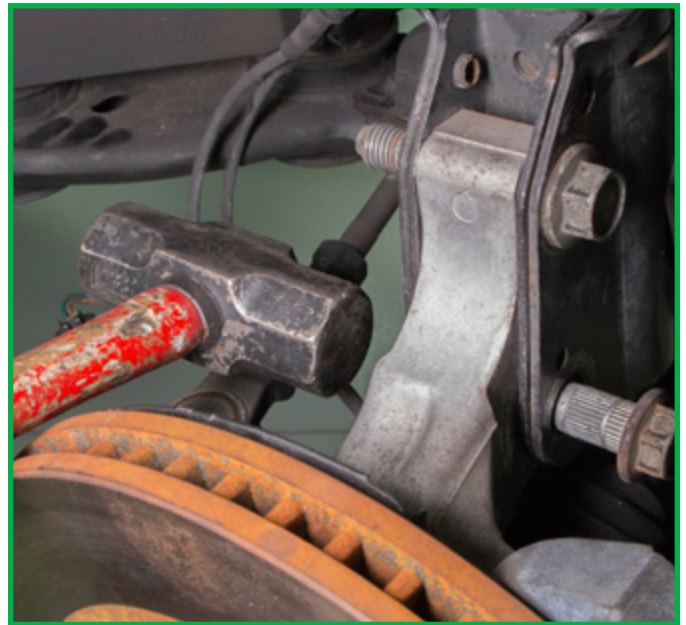


FIGURE 7

6. Remove shock from vehicle. (Figure 8)



FIGURE 8

7. Removal complete.



**WARNING:**

Use a spring compressor tool for the following removal steps.

## COIL STRUT DISASSEMBLY

1. Remove lock nut from the top of the strut. (Figures 9, 10)



FIGURE 9

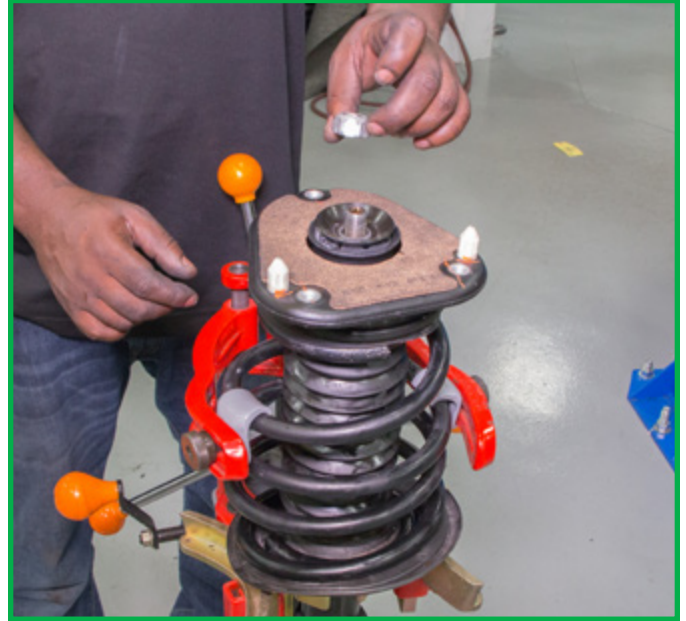


FIGURE 10

2. Remove washer, top mount, and rubber isolator. (Figures 11, 12, 13)



FIGURE 11



FIGURE 12

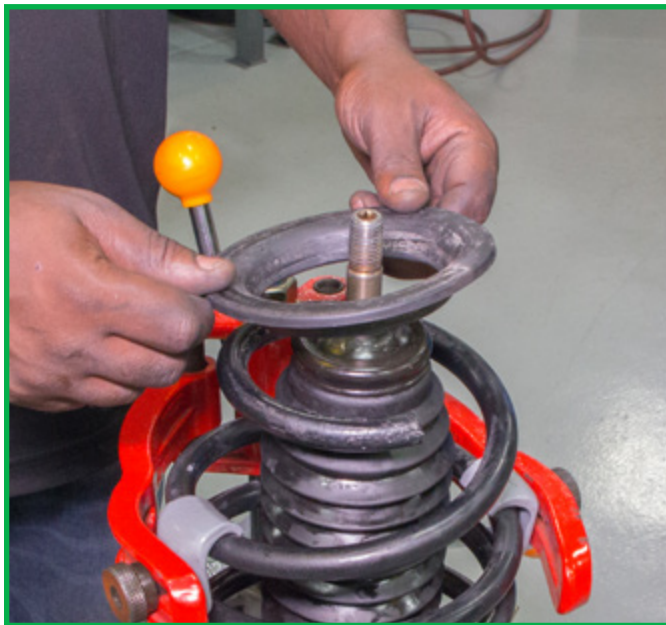


FIGURE 13

3. Loosen tension on spring and remove from coil press. (Figures 14, 15)



FIGURE 14

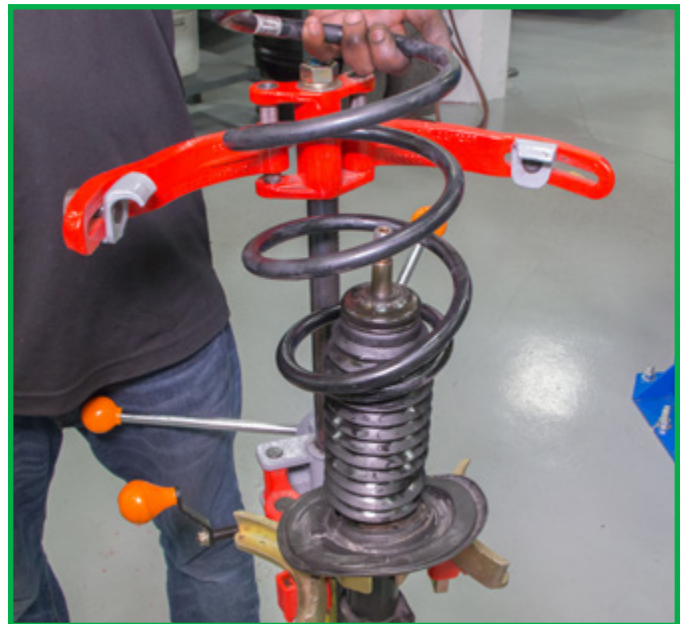


FIGURE 15

4. Remove dust cover and spring isolator. (Figures 16, 17)



FIGURE 16



FIGURE 17

5. Coil strut disassembly complete.

## COIL STRUT REASSEMBLY



**WARNING:**

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

1. Add new strut to spring compressor and remove lock nut, to be used later. (Figures 18, 19)



FIGURE 18



FIGURE 19

2. Install spring isolator from previous strut and align rubber points with the respective holes on the strut base. (Figure 20)



FIGURE 20

3. Install dust cover from previous strut. (Figure 21)



FIGURE 21

4. Add coil spring and align it with the notch on the spring isolator. (Figures 22, 23)



FIGURE 22

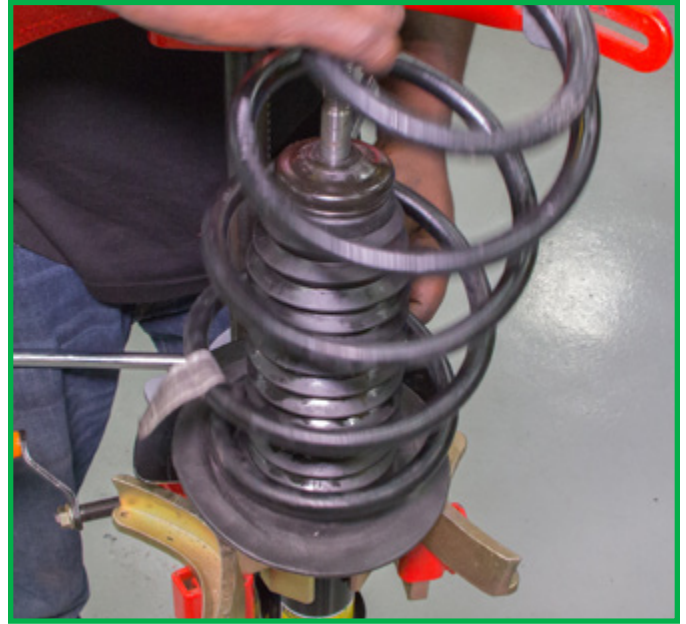


FIGURE 23

5. Compress coil and add rubber isolator. (Figures 24, 25)



FIGURE 24



FIGURE 25

6. Install top mount and align as shown below. (Figures 26, 27)



FIGURE 26

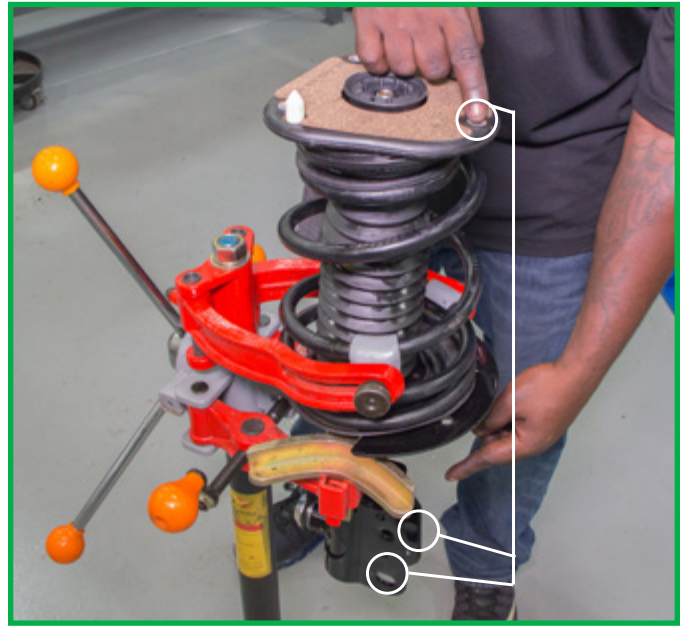


FIGURE 27

7. Install washer and lock nut. (Figures 28, 29)

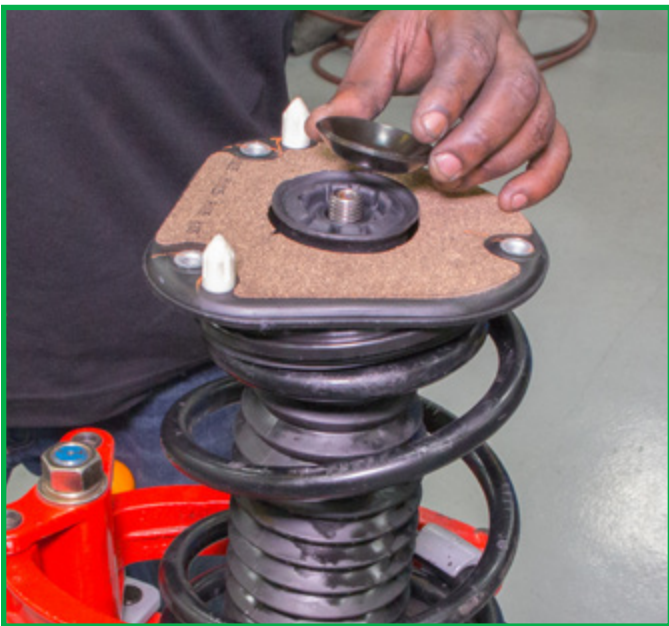


FIGURE 28

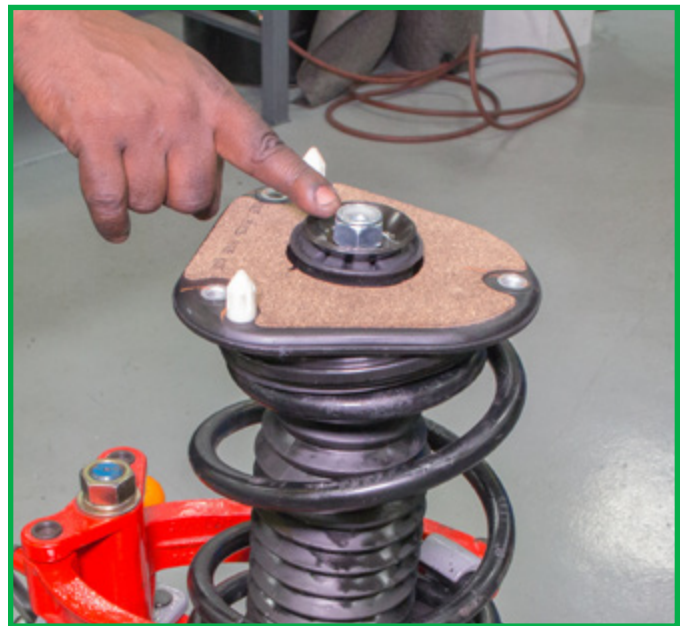


FIGURE 29

8. Tighten lock nut to manufacturer specifications. (Figure 30)



FIGURE 30

9. Carefully loosen tension on spring and release coil press.
10. Re-check alignment once coil press has been released.
11. Coil strut reassembly complete.

# COIL STRUT INSTALLATION



**WARNING:**

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

1. Installation is in reverse order of shock removal.

**NOTE:** Be sure to reconnect Coil Sensor; it may look slightly different than the original, as shown below. (Figure 31)

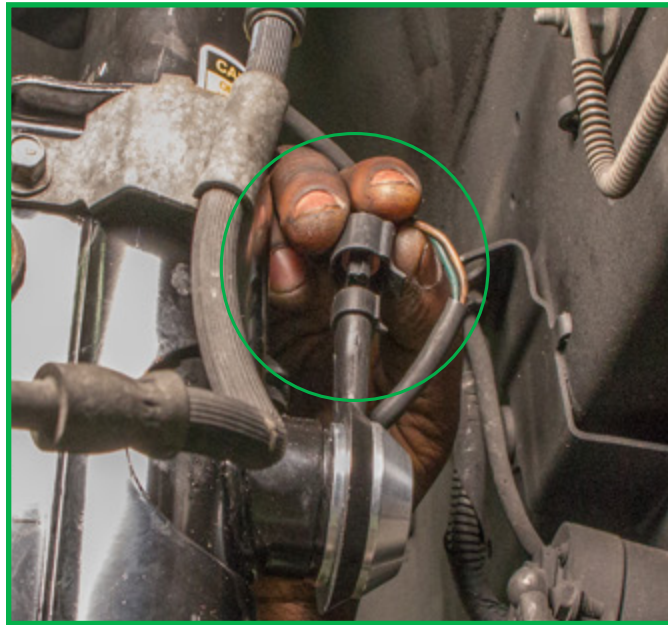


FIGURE 31

# Arnott®

## Suspension Products

### Arnott US Business Office:

[www.arnottinc.com](http://www.arnottinc.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

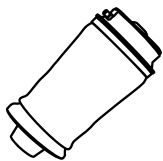
**UK Phone:** +44 203 3186 124

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

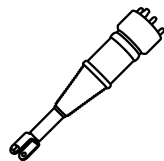
**ES Phone:** +34 91 901 10 56

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

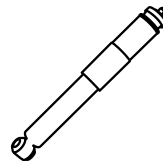
**Email:** [info@arnotteurope.com](mailto:info@arnotteurope.com)



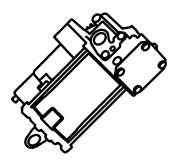
Air Springs



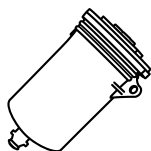
Struts



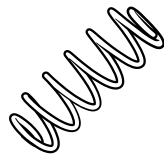
Shocks



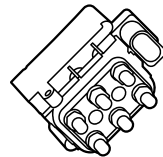
Compressors



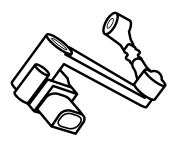
Dryers



Coil Spring  
Conversion Kits



Valve Blocks



Ride Height  
Sensors