Installation Manual

SK-2952
ARNOTT FRONT SHOCK KIT
CADILLAC DTS/BUICK LUCERNE
(G-PLATFORM)

Arnott® Air Suspension Products

Congratulations on your purchase of an Arnott® air suspension product. We at Arnott Incorporated are proud to offer a high quality product at the industry's most competitive pricing. 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, ASE Certified, 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.

"Engineered to Ride, Built to Last®"

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.*

Arnott® is committed to the quality of its products. If you have a question or problem with any Arnott product, please contact Arnott by calling 800-251-8993 during normal business hours or email techassistance@arnottinc.com. (In the EU please call +31 (0)73 7850 580 or email info@arnotteurope.com)

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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.

- Not to be stored below 5°F (-15°C) or 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.

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)

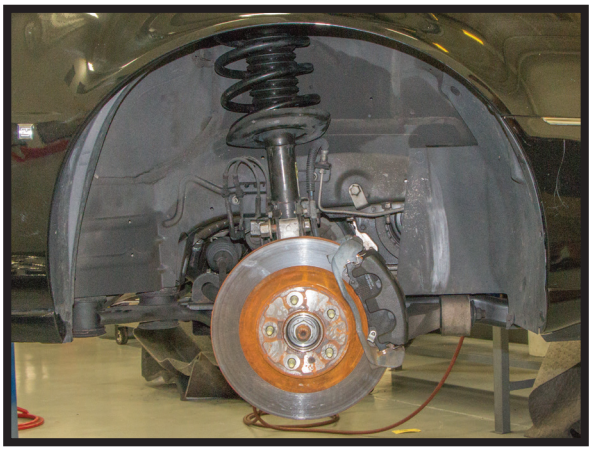

FIGURE 1

2. UNBOLT THE TWO SIDE BRACKETS FROM THE STRUT. (FIGURES 2, 3)

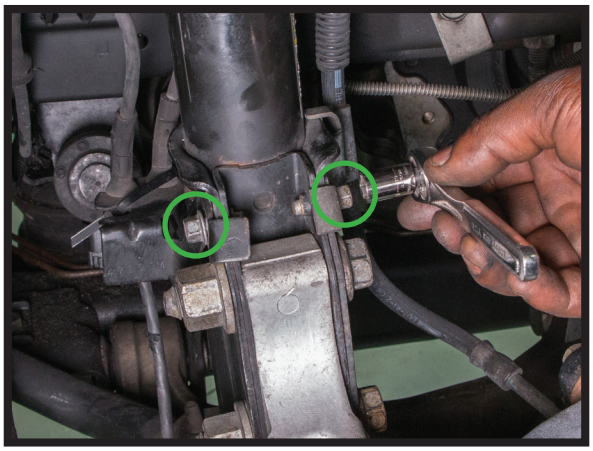

FIGURE 2

FIGURE 3

3. DISCONNECT COIL SENSOR FROM THE BACK OF THE STRUT. (FIGURE 4)

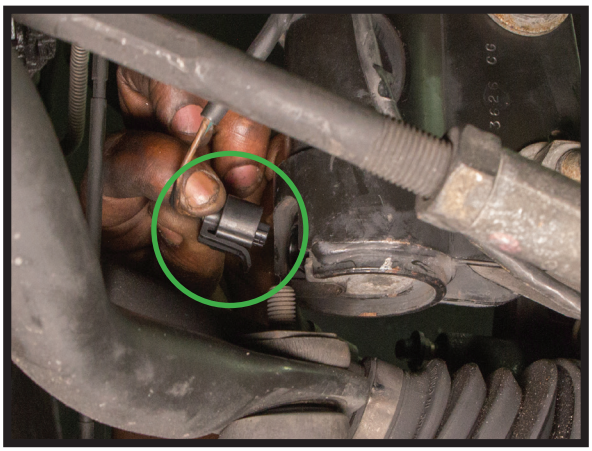

FIGURE 4

4. REMOVE THE 3 TOP NUTS FROM THE STRUT. (FIGURE 5)

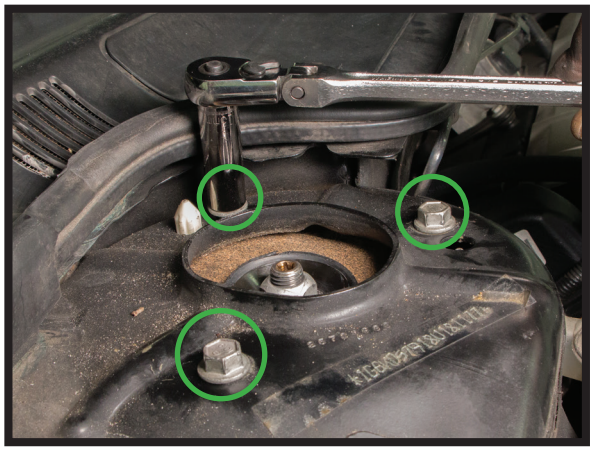

FIGURE 5

5. LOOSEN AND REMOVE THE BOTTOM MOUNTING BOLTS FROM THE STRUT. (FIGURES 6, 7)

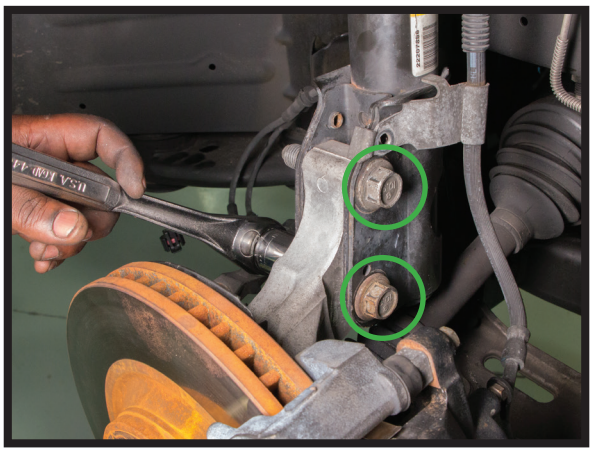

FIGURE 6

FIGURE 7

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

6. REMOVE SHOCK FROM VEHICLE. (FIGURE 8)

FIGURE 8

7. REMOVAL COMPLETE.

Use a spring compressor tool for the following removal steps.

COIL STRUT DISSASSEMBLY

1. REMOVE LOCK NUT FROM THE TOP OF THE STRUT. (FIGURE 9, 10)

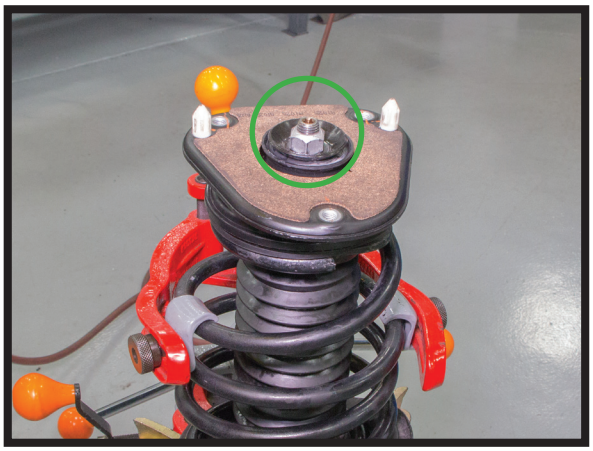

FIGURE 9

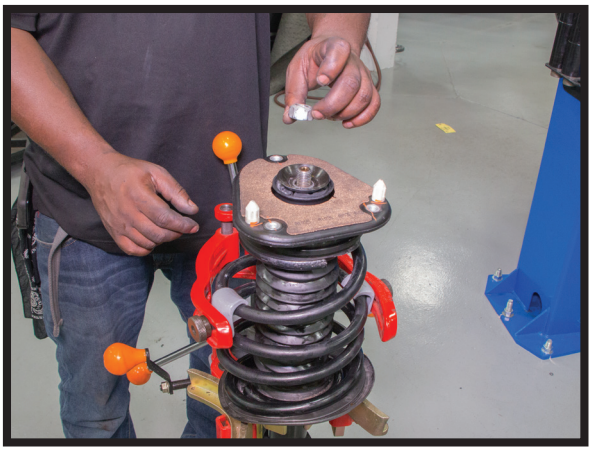

FIGURE 10

2. REMOVE WASHER, TOP MOUNT, AND RUBBER ISOLATOR. (FIGURES 11, 12, 13)

FIGURE 11

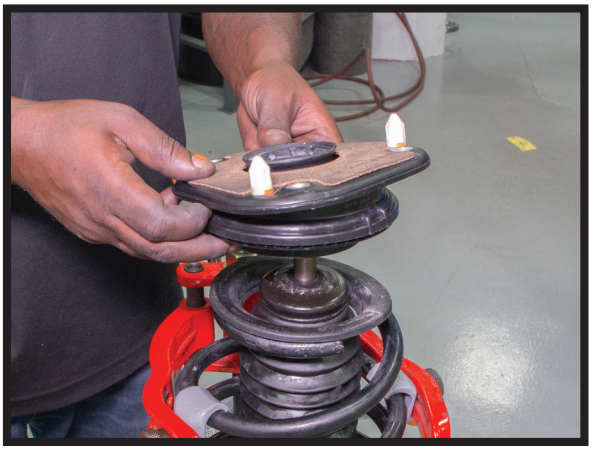

FIGURE 12

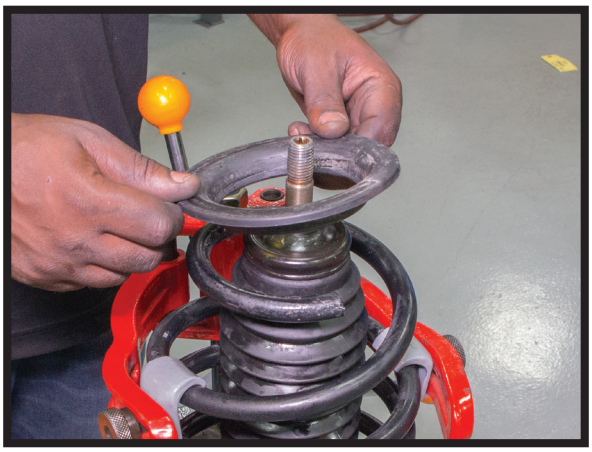

FIGURE 13

3. LOOSEN TENSION ON SPRING AND REMOVE FROM COIL PRESS. (FIGURE 14, 15)

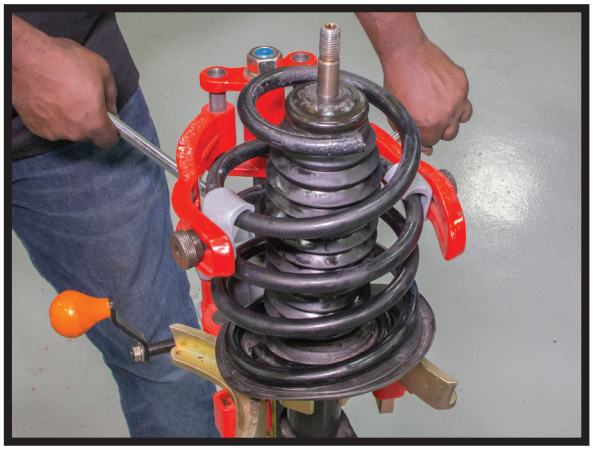

FIGURE 14

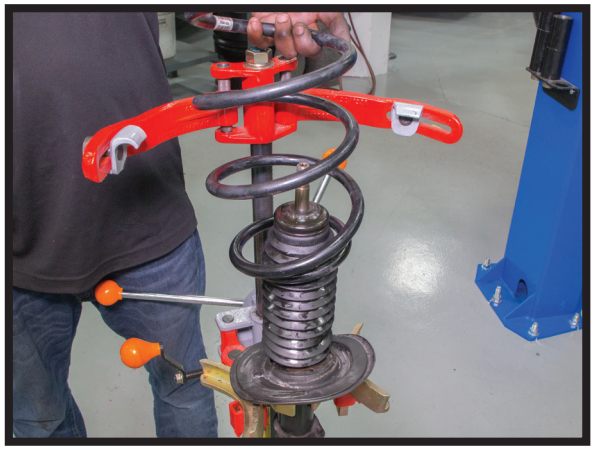

FIGURE 15

4. REMOVE DUST COVER AND SPRING ISOLATOR. (FIGURES 16, 17)

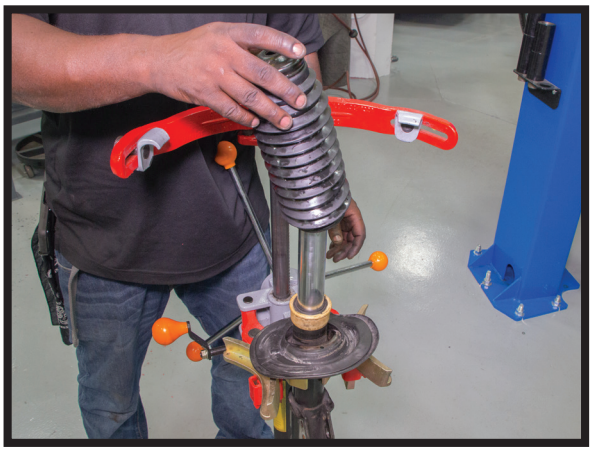

FIGURE 16

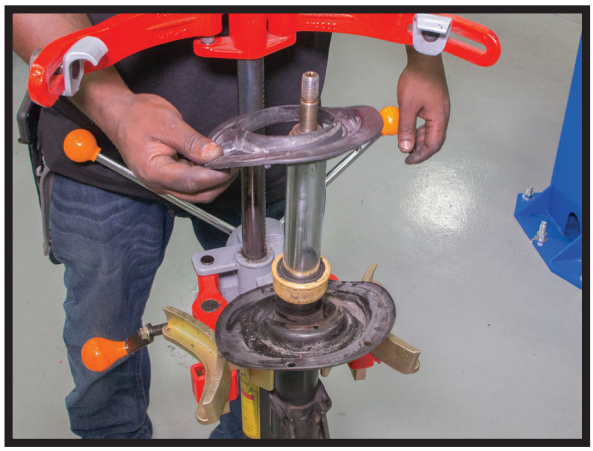

FIGURE 17

5. COIL STRUT DISSASSEMBLY COMPLETE.

COIL STRUT REASSEMBLY

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

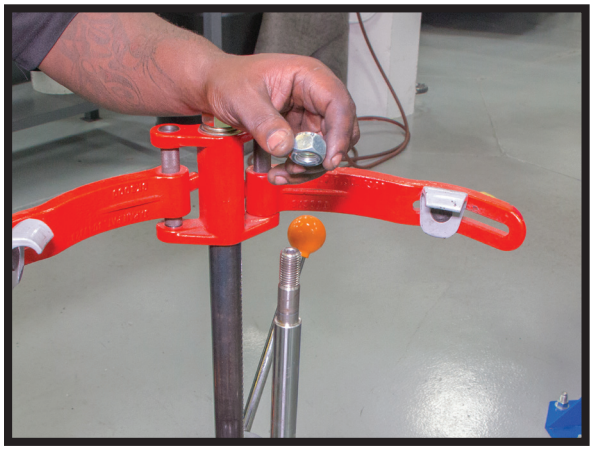

FIGURE 19

2. INSTALL SPRING ISOLATOR FROM PREVIOUS STRUT AND ALIGN RUBBER POINTS WITH THE RESPECTIVE HOLES ON THE STRUT BASE. (FIGURE 20)

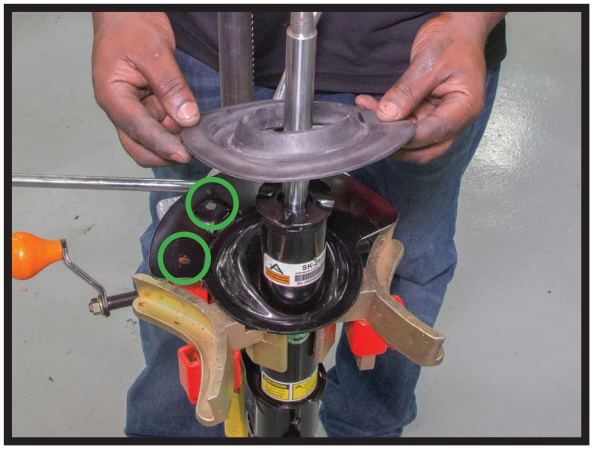

FIGURE 20

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)

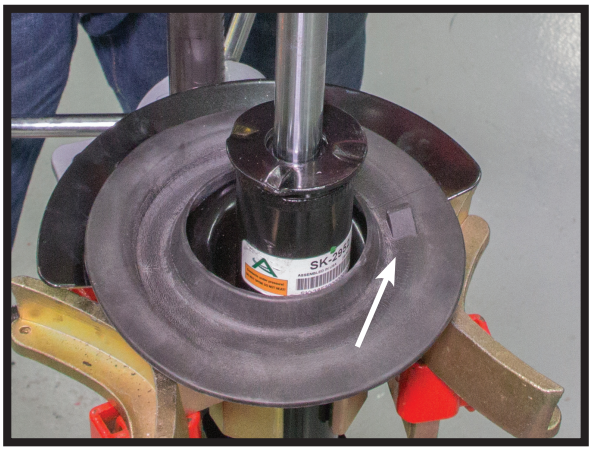

FIGURE 22

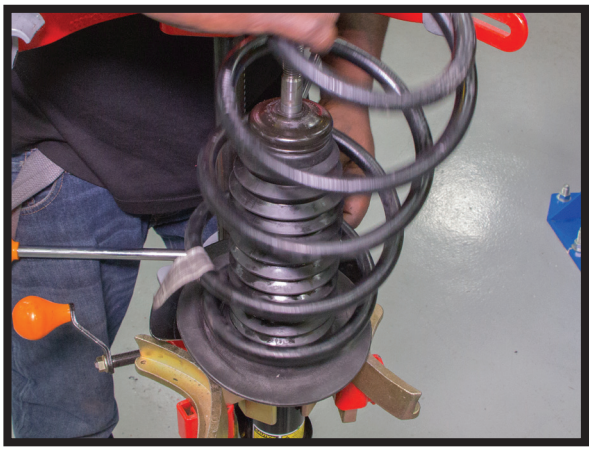

FIGURE 23

5. COMPRESS COIL AND ADD RUBBER ISOLATOR. (FIGURES 24, 25)

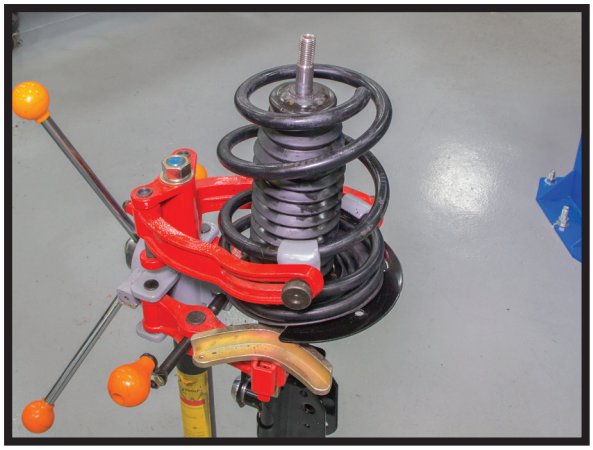

FIGURE 24

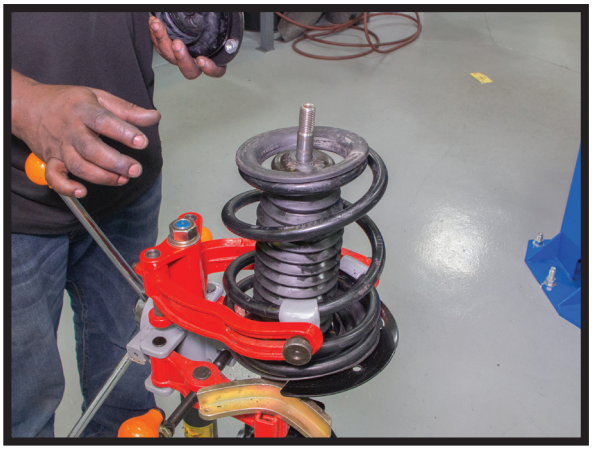

FIGURE 25

6. INSTALL TOP MOUNT AND ALIGN AS SHOWN BELOW. (FIGURES 26, 27)

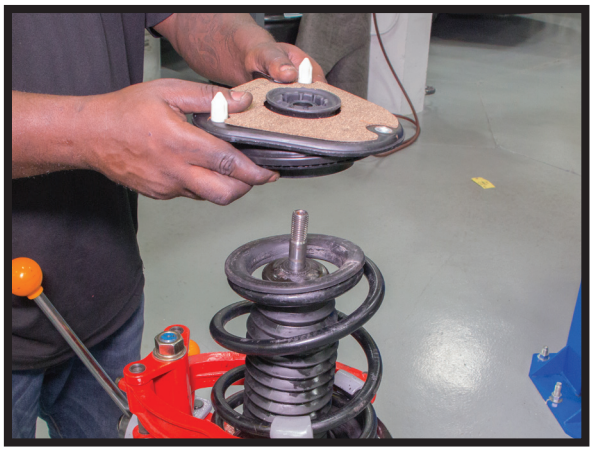

FIGURE 26

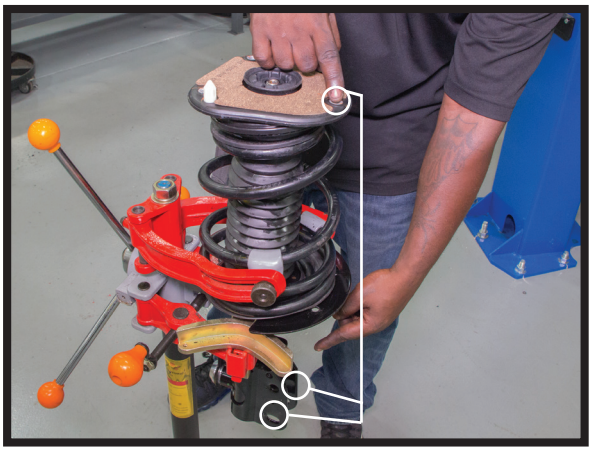

FIGURE 27

7. INSTALL WASHER AND LOCK NUT (FIGURES 28, 29)

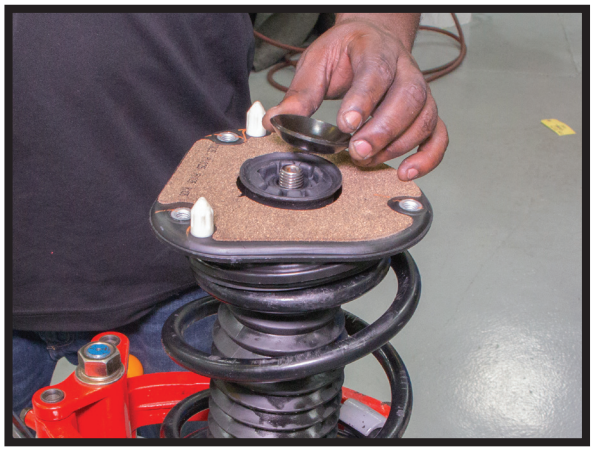

FIGURE 28

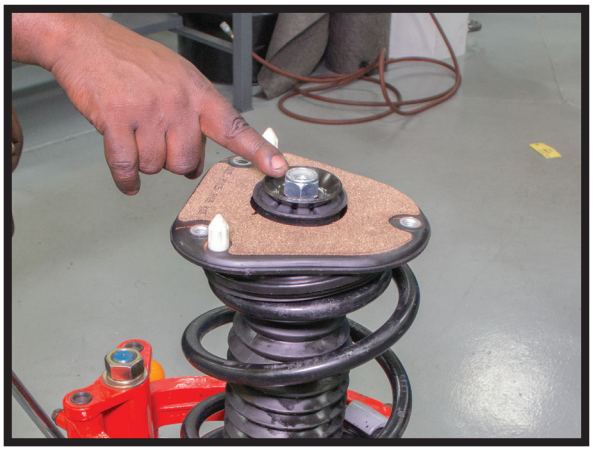

FIGURE 29

8. TIGHTEN LOCK NUT TO MANUFACTURER SPECIFICATIONS. (FIGURE 30)

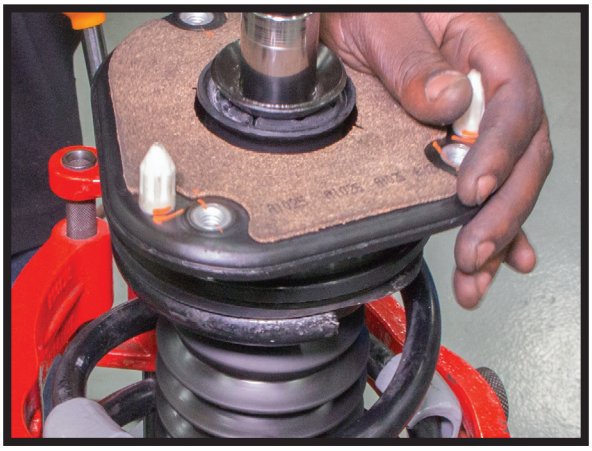

FIGURE 30

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

Tighten all nuts and bolts to manufacturer's specifications during the installation 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)*

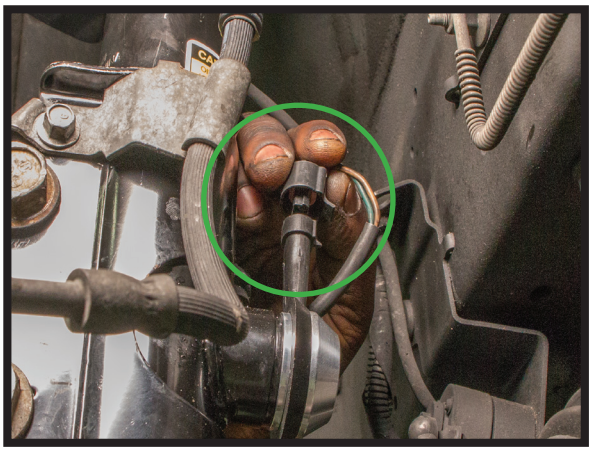

FIGURE 31