Arnott®
Suspension Products

INSTALLATION MANUAL

C-3417
Arnott New Coil Spring Conversion Kit
Jaguar XJ (X351) w/Comfort



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.

A 4-WHEEL ALIGNMENT
IS RECOMMENDED AFTER INSTALLATION

FRONT AIR STRUT REMOVAL

1. Set the steering to straight ahead.
2. Safely lift the vehicle according to the manufacturer's instructions.
3. Deflate and disable the air suspension system according to the manufacturer's instructions.
4. Remove the front wheels.
5. Remove the sway bar end link nut and disconnect it from the lower control arm. (Figure 1)

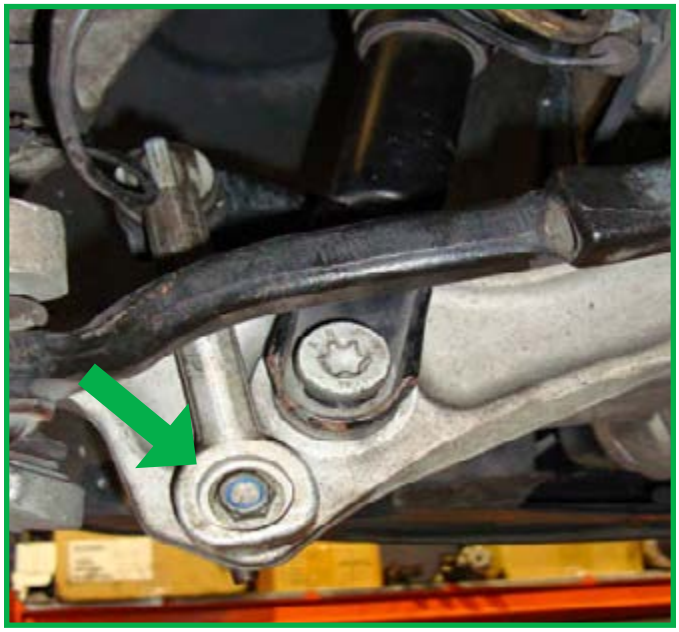


FIGURE 1

6. Remove the upper control arm ball joint nut and separate the upper control arm ball joint. (Figure 2)

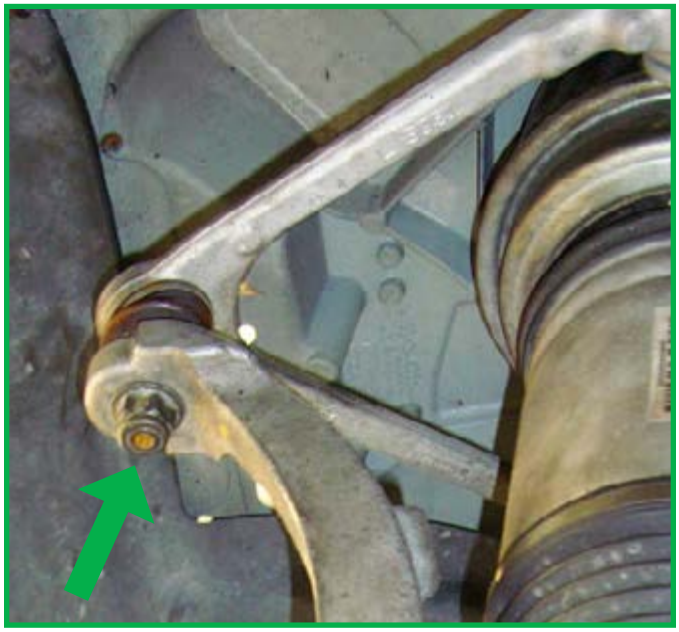


FIGURE 2

7. Remove the lower shock mount nut/bolt. (Figure 3)

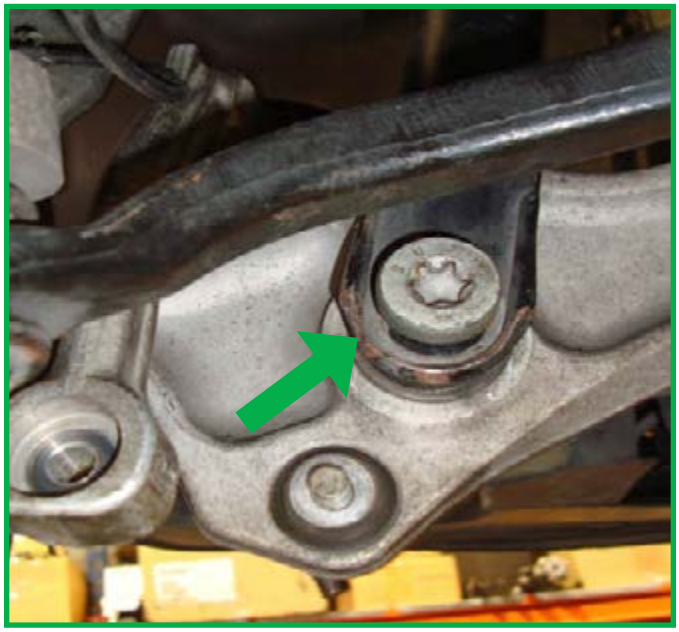


FIGURE 3

8. Disconnect the electrical connector from the top of the shock (push on the sides of the connector to release). **Tie off the wires not needed with the coil conversion.** (Figure 4)

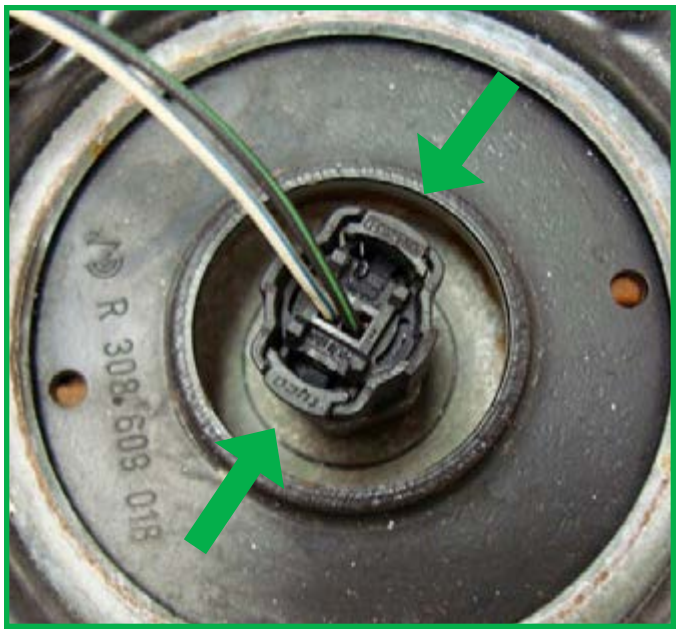


FIGURE 4

9. Disconnect the air line from the check valve and remove the four (4) upper shock mounting nuts. Tuck the unused airline into a suitable location (away from moving parts and sources of heat). (Figure 5)

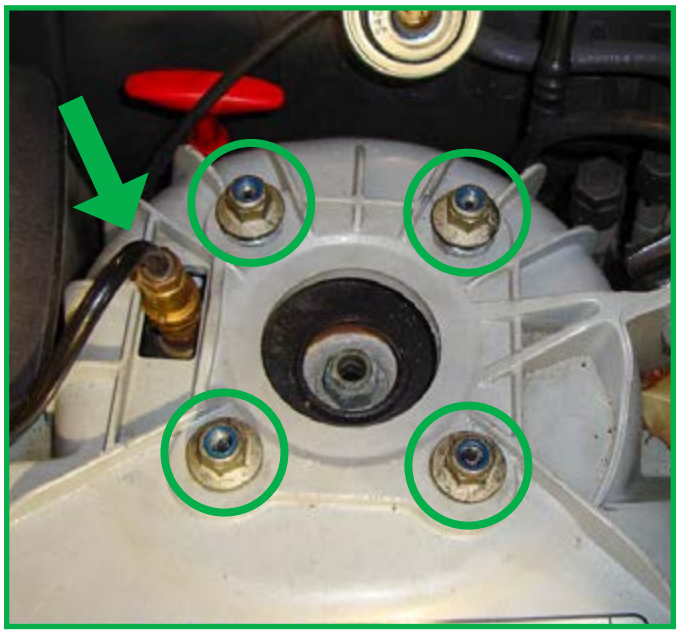


FIGURE 5

10. Remove the air strut.

FRONT COILOVER STRUT INSTALLATION

WARNING:

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

1. Position the new Arnott coilover strut onto the vehicle. (Figure 6)



FIGURE 6

2. Install the lower mounting bolt. (Figure 7)



FIGURE 7

3. Attach the upper control arm ball joint and install the nut. (Figures 8, 9)



FIGURE 8



FIGURE 9

4. Install the sway bar end link bolt and nut. (Figures 10, 11)



FIGURE 10



FIGURE 11

5. Install the provided new upper mounting nuts. (Figure 12)

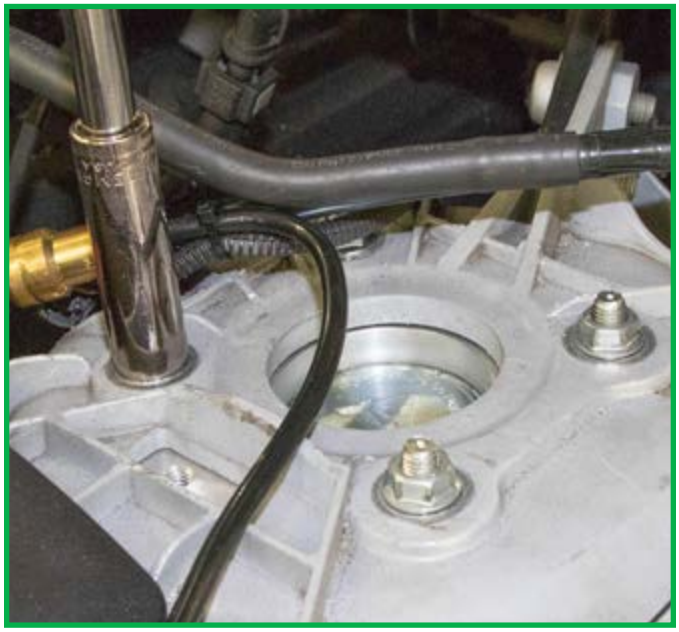


FIGURE 12

6. Front coilover strut installation complete.

REAR AIR STRUT REMOVAL

1. Ensure the vehicle is properly lifted according to the manufacturer's instructions.
2. Ensure the air suspension is deflated and deactivated according to the manufacturer's instructions.
3. Remove the rear wheels.

NOTE: With the vehicle properly lifted, shift the car into neutral to release tension on the rear suspension prior to disassembly.

4. Remove the luggage compartment side trim to expose the top side of the air strut. (Figure 13)



FIGURE 13

5. Disconnect the air line from the check valve. (Figure 14)



FIGURE 14

6. Disconnect the electrical connector from the top of the air strut (push on the sides of the connector to release). (Figure 15)



FIGURE 15

7. Remove the four (4) air strut upper mounting nuts. (Figure 16)

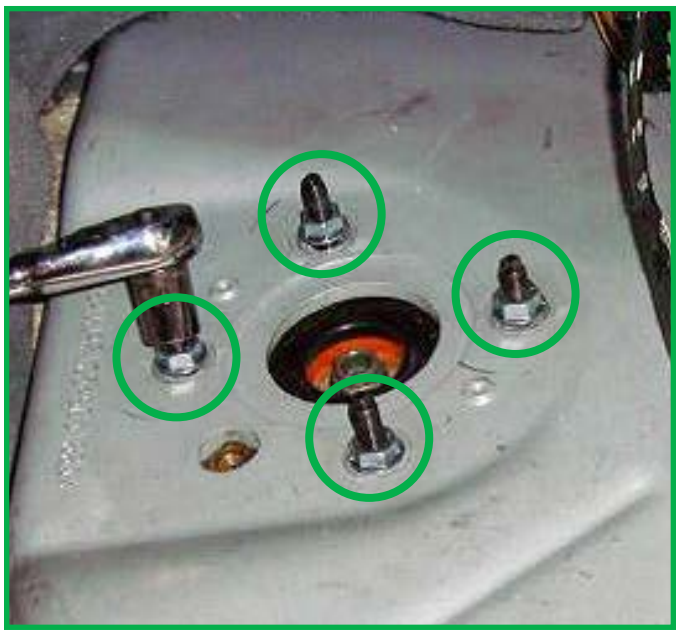


FIGURE 16

8. Detach the rear tie rod. (Figure 17)

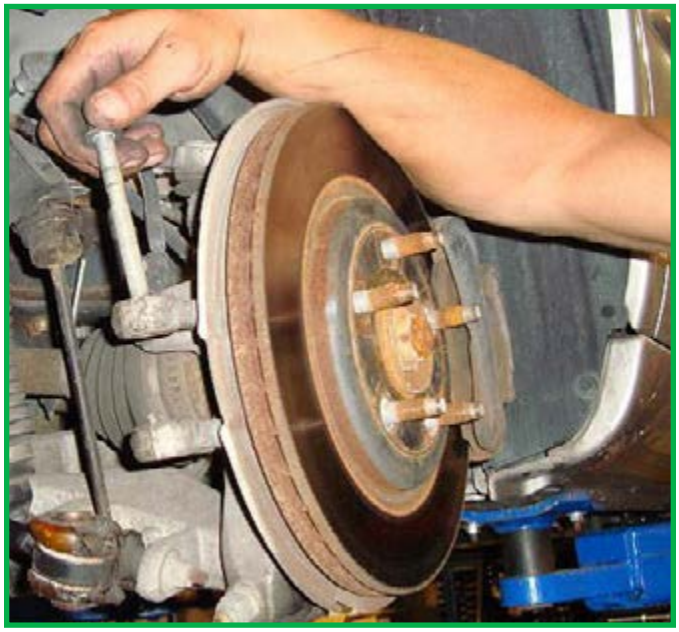


FIGURE 17

9. Remove the lower air strut mounting bolt. (Figure 18)



FIGURE 18

10. Remove the air strut. (Figure 19)



FIGURE 19

REAR COILOVER STRUT INSTALLATION

WARNING:

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

1. Position the rear coilover strut onto the vehicle. (Figure 20)



FIGURE 20

2. Install the four (4) provided new upper mounting nuts to hold the coil spring in place, but do not tighten them yet.

3. Install the lower strut mounting bolt. (Figure 21)



FIGURE 21

4. Install the tie rod bolt and nut. (Figures 22, 23)



FIGURE 22



FIGURE 23

5. Tighten the upper mounting nuts. (Figure 24)



FIGURE 24

6. Rear coilover strut installation complete.

ELECTRONIC BYPASS MODULE (EBM) INSTALLATION

1. Remove the right-side trunk paneling to reveal the air suspension control module. **Note that there are two configurations depending on the model year: split and combined.** (Figures 25, 26)



FIGURE 25 (SPLIT)



FIGURE 26 (COMBINED)

2. Remove all five (5) harness connections to the module. **They will remain unplugged.** (Figures 27, 28, 29, 30)



FIGURE 27



FIGURE 28



FIGURE 29

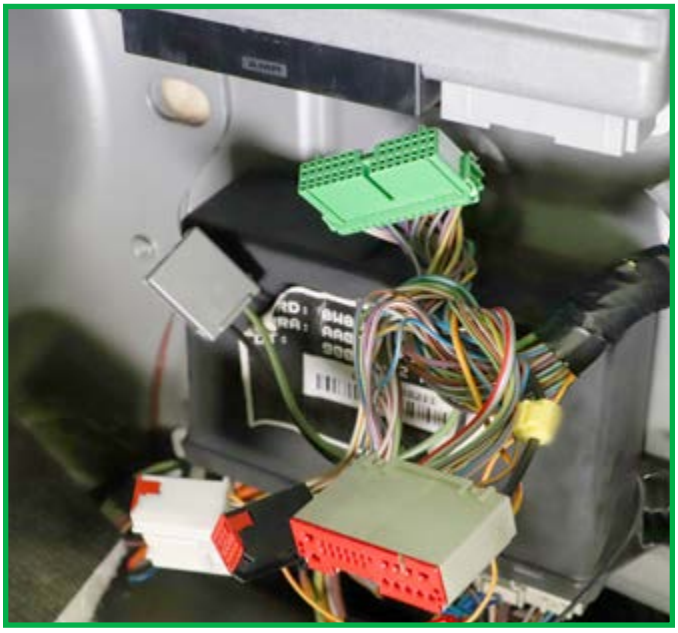


FIGURE 30

3. According to the table below, splice the EBM harness wires to the applicable control module harness wires using the four (4) supplied heat-shrink butt connectors. (Figures 31, 32)

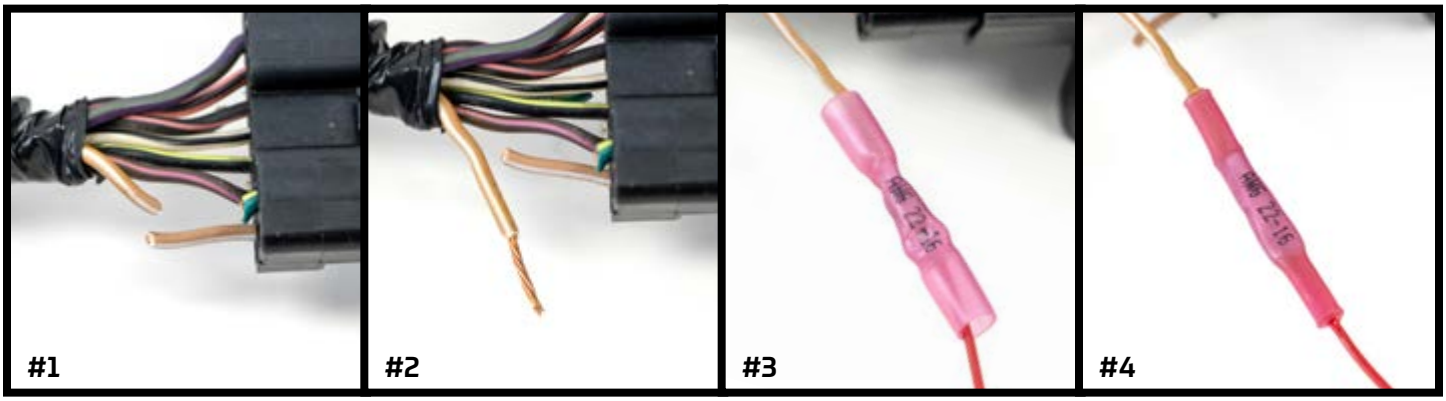
	FROM	TO	PIN LOCATION		
			SPLIT	COMBINED	
ELECTRONIC BYPASS MODULE	Black	Black	24	6	AIR SUSPENSION CONTROL MODULE CONNECTIONS
	Red	Yellow/Orange	20	17	
	Blue	White/Blue	17	8	
	Green	White	18	9	

FIGURE 31

HEAT-SHRINK BUTT CONNECTOR INSTALLATION

BEFORE CUTTING
Verify you are working with the correct wires. Check the manufacturer's wiring diagram for your specific vehicle.

NOTE: Make all new connections to the **HARNESS SIDE**, not the connector side.



IDENTIFY AND CUT THE APPLICABLE WIRE TO THE CONTROL MODULE.

STRIP 10MM OF INSULATION WITH A SUITABLE TOOL. TWIST EXPOSED WIRE.

INSERT THE WIRE INTO THE BUTT CONNECTOR AND CRIMP ACCORDING TO THE TABLE ABOVE.

USE AN APPROPRIATE TOOL TO HEAT SHRINK.

FIGURE 32

4. Connect the EBM to the EBM harness. (Figures 33, 34)



FIGURE 33



FIGURE 34

5. Place the EBM in a suitable location, away from friction or pinch points.

NOTE: **Do not plug the suspension control modules back in**. They remain unplugged. There should be no suspension error lights present in the instrument cluster.

6. Reassemble the trunk paneling.
7. Installation complete.

A 4-WHEEL ALIGNMENT IS RECOMMENDED AFTER INSTALLATION

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HOW HELPFUL WAS THIS MANUAL?

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https://bit.ly/46YqQ41

NEED IMMEDIATE SUPPORT?

We're happy to help! Reach out using the contact information above.