Arnott™
Suspension Products

INSTALLATION MANUAL

C-4030
Arnott New Conversion Kit
Ford Fusion (CD391) & Lincoln MKZ (CD533) w/CCD



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.



NOTICE



The included EBM is only suitable for vehicles <u>WITHOUT</u> adaptive headlamps.

Proceeding with installation will result in headlamp error messages.

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)

A 4-WHEEL ALIGNMENT
IS RECOMMENDED AFTER INSTALLATION

FRONT STRUT REMOVAL

1. Set the steering to straight ahead.
2. Safely raise the vehicle according to the manufacturer's instructions.
3. Remove the front wheels. (Figure 1)

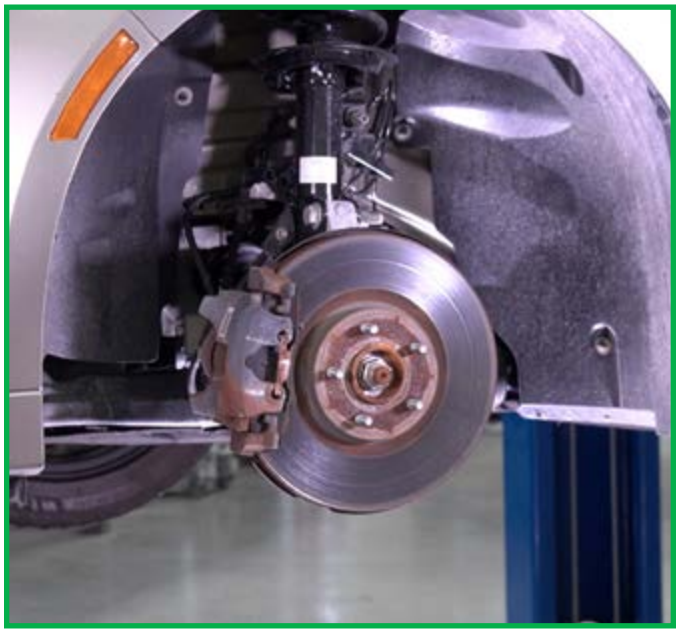


FIGURE 1

4. Disconnect electrical connection and unhook the wire from the retainer bracket. (Figures 2, 3)

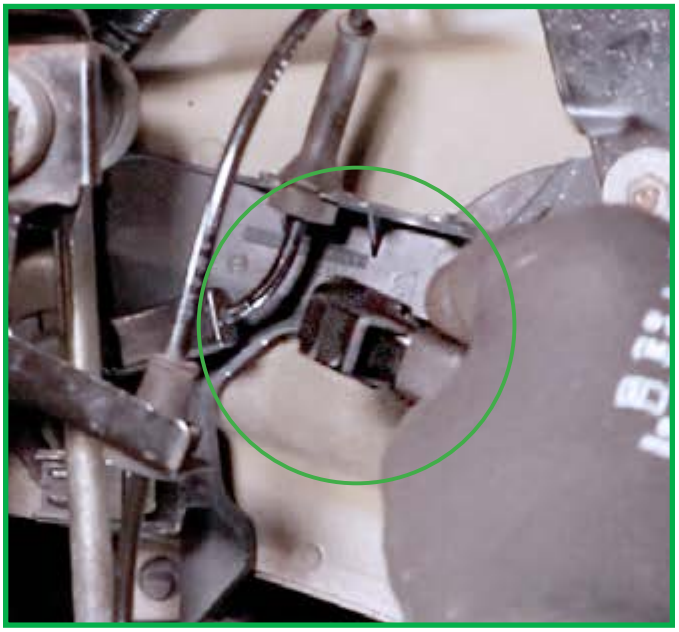


FIGURE 2

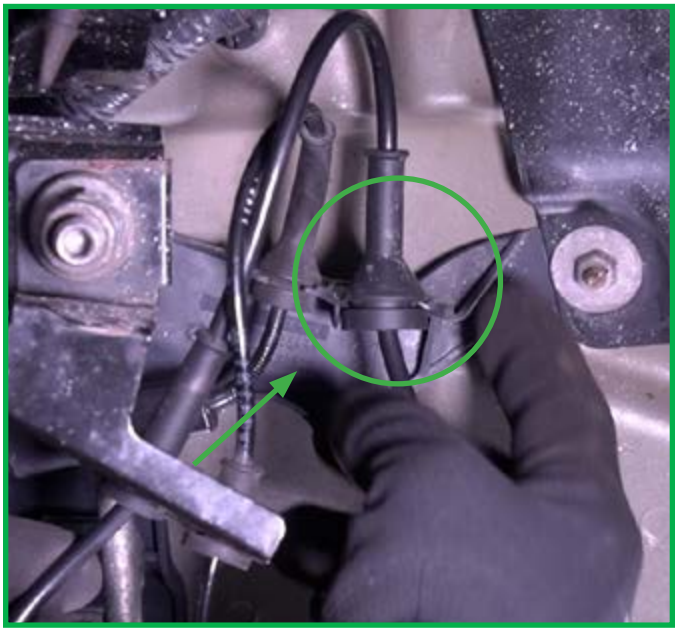


FIGURE 3

5. Remove sway bar link nut and wire retainer bracket. (Figures 4, 5)



FIGURE 4



FIGURE 5

6. Disconnect sway arm link from the strut. (Figures 6, 7)

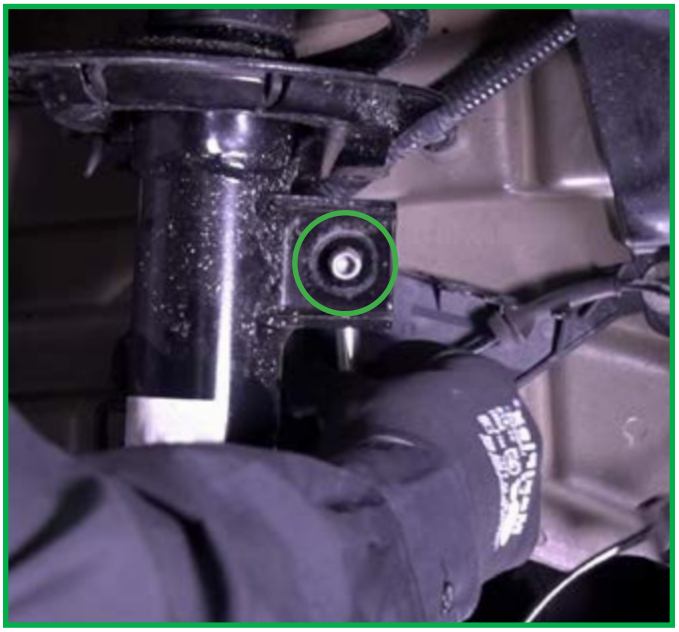


FIGURE 6

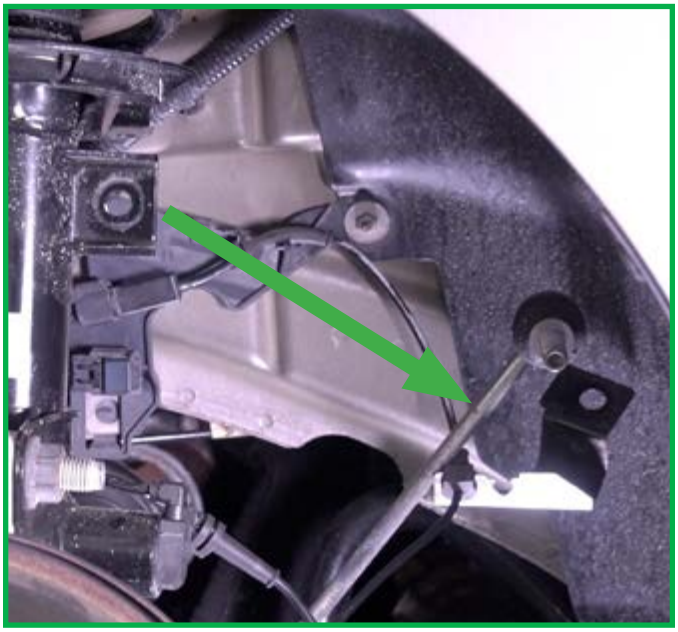


FIGURE 7

7. Remove the brake line retainer bracket bolt and disconnect bracket. (Figures 8, 9)

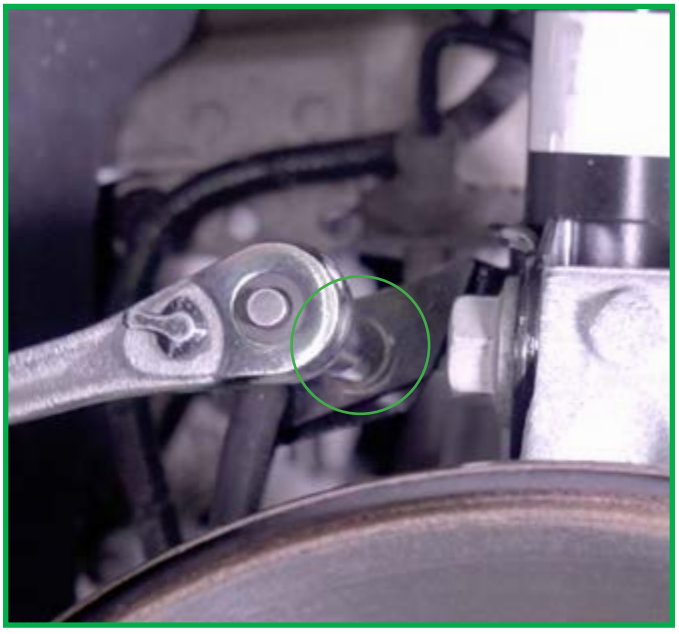


FIGURE 8



FIGURE 9

8. Remove the three (3) top mount bolts from under the hood. (Figure 10)

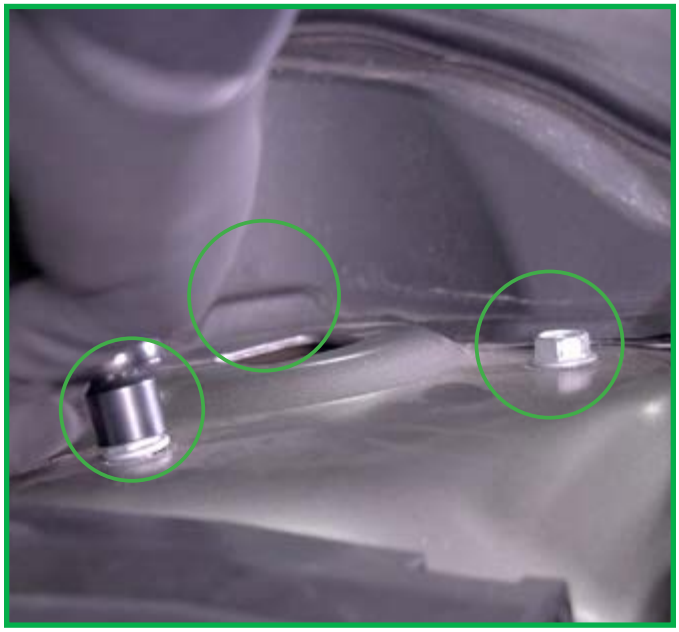


FIGURE 10

9. Remove the two (2) bottom strut mount bolts. (Figures 11, 12, 13)



FIGURE 11

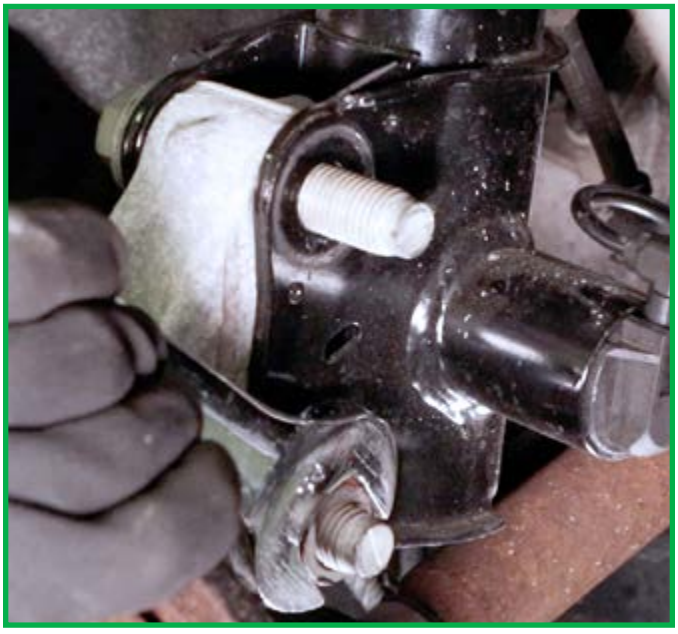


FIGURE 12

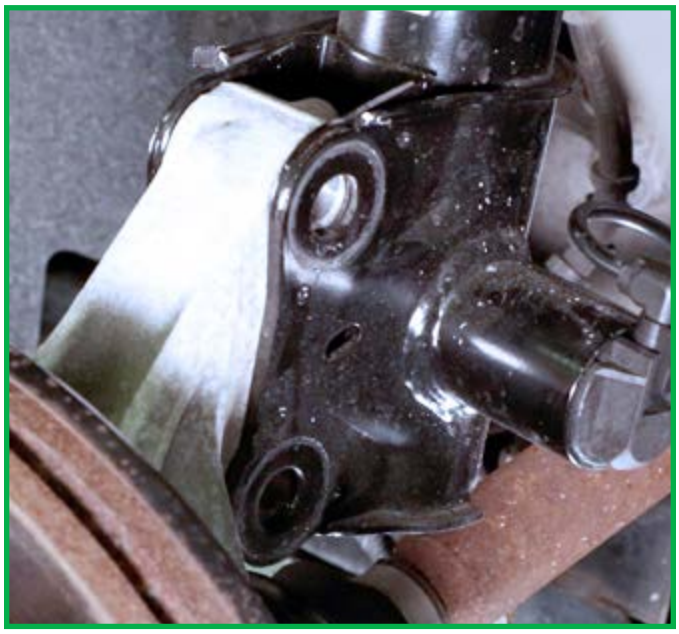


FIGURE 13

10. Separate the bottom strut mount from the wheel carrier. (Figure 14)



FIGURE 14

11. Remove old strut from the vehicle. (Figure 15)

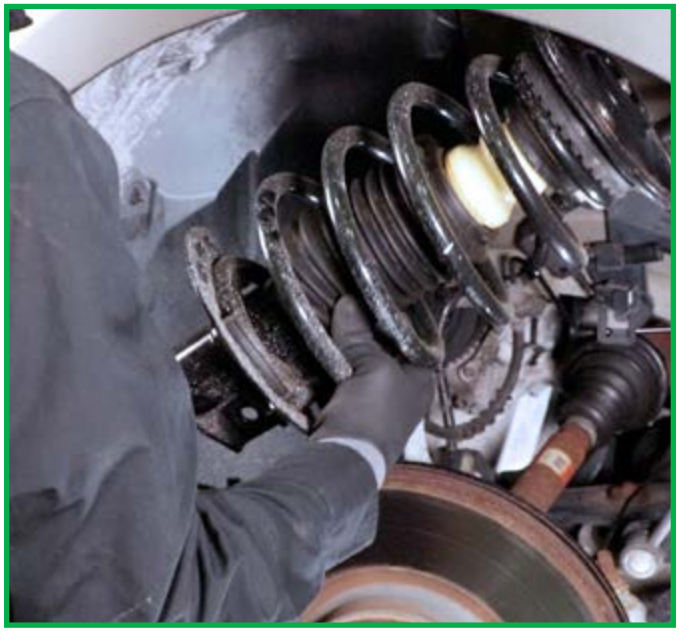


FIGURE 15

12. Front strut removal complete.

FRONT STRUT INSTALLATION

WARNING:

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

1. Insert new Arnott strut into vehicle. (Figure 16)

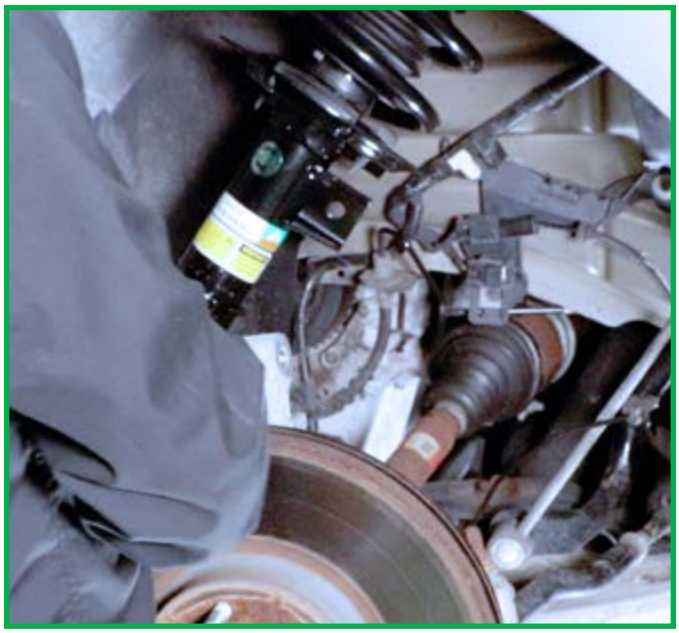


FIGURE 16

2. Position the wheel carrier between the bottom strut mount. (Figure 17)



FIGURE 17

3. Reinstall the two (2) bottom strut mount bolts/nuts. (Figures 18, 19)

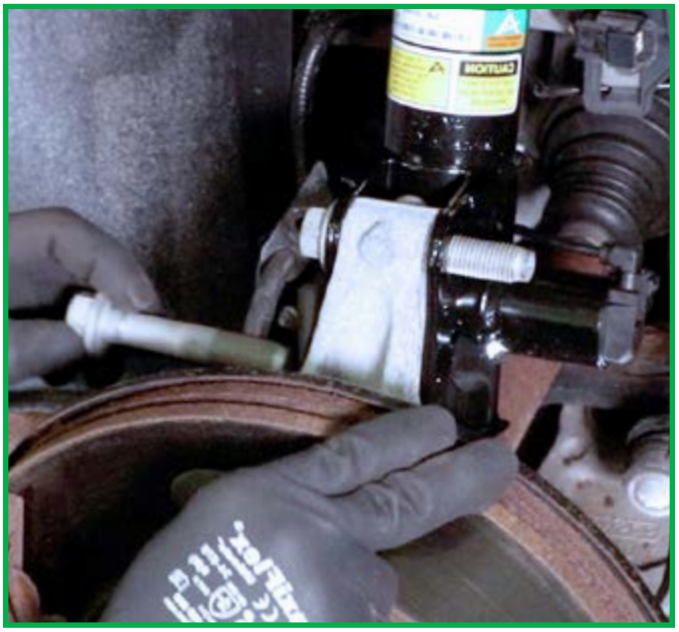


FIGURE 18

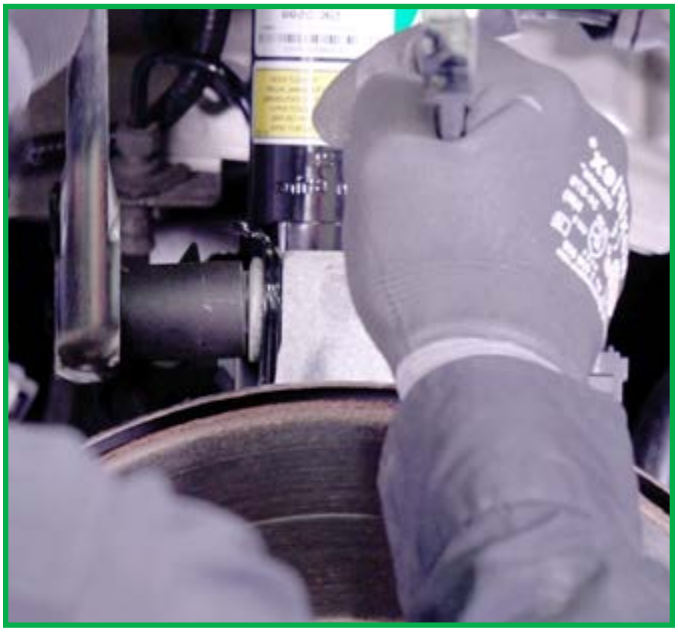


FIGURE 19

4. Install the three (3) provided top mount bolts from under the hood. (Figures 20, 21)

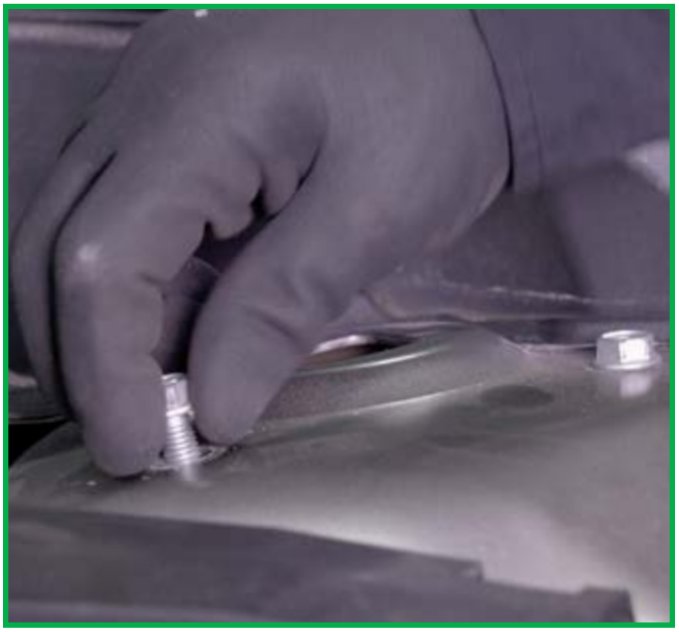


FIGURE 20

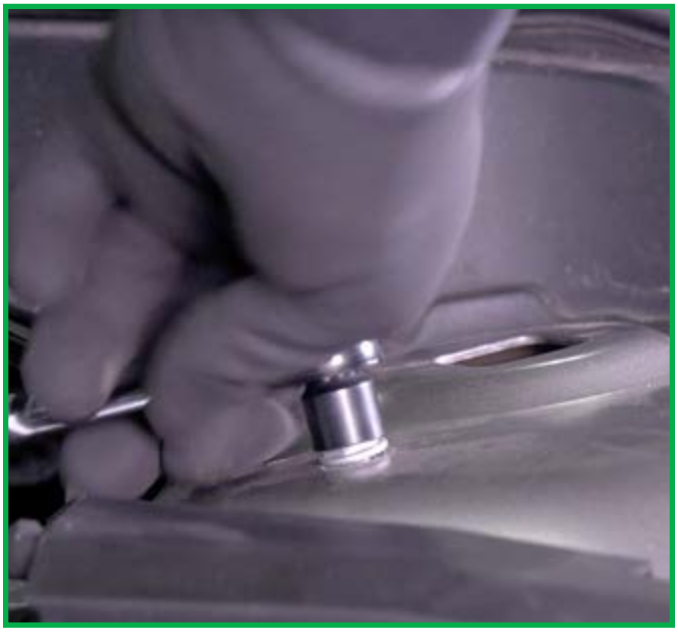


FIGURE 21

5. Reattach the brake line retainer clip. (Figure 22)

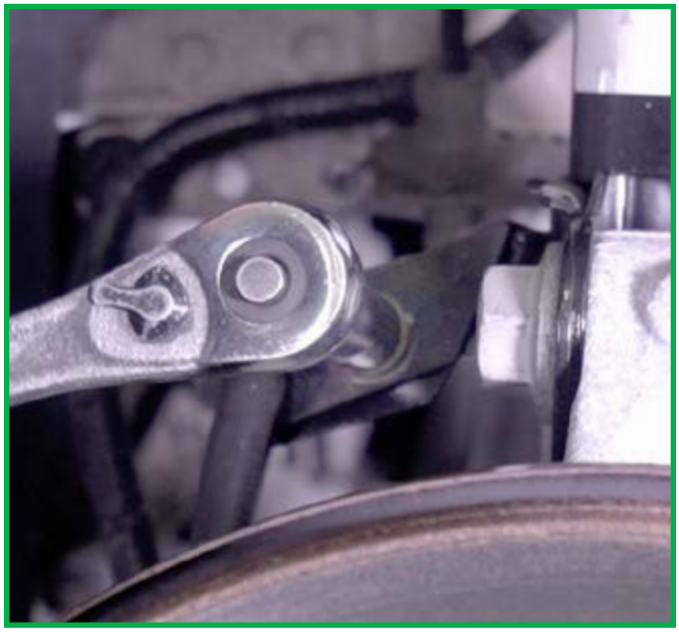


FIGURE 22

6. Reconnect the sway arm link and wire retainer bracket to the strut. (Figures 23, 24)



FIGURE 23



FIGURE 24

7. Tighten all nuts and bolts to the manufacturer's specifications.
8. Reinstall the front wheels.
9. Front strut installation complete.

REAR SHOCK REMOVAL

1. Ensure the vehicle is properly raised according to the manufacturer's instructions.
2. Remove the rear wheels. (Figure 25)



FIGURE 25

3. Follow the line from the shock to the electrical connection located inside the wheel well and disconnect the electrical connection. (Figures 26, 27)



FIGURE 26



FIGURE 27

4. Unclip and unroute the shock electrical line. (Figures 28, 29)



FIGURE 28



FIGURE 29

5. Remove the two (2) shock top mount bolts. (Figures 30, 31)



FIGURE 30



FIGURE 31

6. Remove the two (2) bottom mount bolts. (Figures 32, 33)



FIGURE 32



FIGURE 33

7. Remove the old shock from the vehicle. (Figure 34)



FIGURE 34

8. Rear shock removal complete.

REAR SHOCK INSTALLATION

WARNING:

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

1. Secure the unused electrical line away from sources of friction or heat.
2. Insert new Arnott shock into vehicle. (Figure 35)



FIGURE 35

3. Install the two (2) supplied bottom mount bolts. (Figures 36, 37)



FIGURE 36



FIGURE 37

4. Reinstall the two (2) top mount bolts. (Figures 38, 39)



FIGURE 38



FIGURE 39

5. Tighten all bolts to the manufacturer's specifications.
6. Reinstall the rear wheels.
7. Lower the vehicle.
8. Rear shock installation complete.

ELECTRONIC BYPASS MODULE (EBM) INSTALLATION

NOTE: The included EBM does not apply to vehicles equipped with adaptive headlight leveling. Installing on vehicles equipped with adaptive headlight leveling will result in headlamp error messages.

1. Remove trim on the left side of the trunk to gain access to the Vehicle Dynamics Module.
2. Disconnect the two harnesses connected to the VDM: Brown (C4396C) and White (C4396D).
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 40, 41)

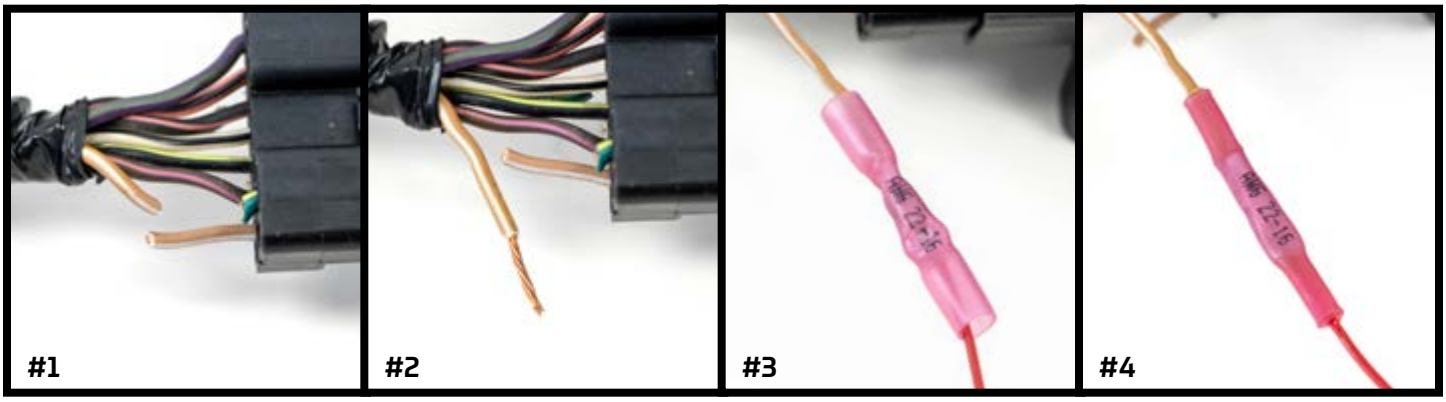
	WIRE COLOR	WIRE COLOR	PIN	CONNECTOR #	
EBM	Red	Blue/Brown	7	C4396C	VEHICLE HARNESS
	Black	Black/Green	6	C4396D	
	Blue	Green	8	C4396D	
	Green	Gray	9	C4396D	

FIGURE 40

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 41

4. Connect the EBM to the EBM harness. (Figures 42, 43)



FIGURE 42



FIGURE 43

5. Secure 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 trim.
7. Installation complete.

A 4-WHEEL ALIGNMENT IS RECOMMENDED AFTER INSTALLATION

HOW HELPFUL WAS THIS MANUAL?

Scan the QR code or click the link below to let us know.

https://bit.ly/410fuc9

NEED IMMEDIATE SUPPORT?

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

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Arnott US Business Office:

www.arnottsuspension.com

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Merritt Island, FL 32953

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Fax: 321.868.3703
Email: techassistance@arnottinc.com

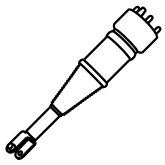
Arnott Europe Business Office:

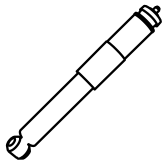
www.arnotteurope.com

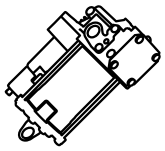
Industrieweg 19
5145 PD, Waalwijk (NL)

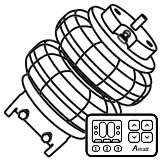
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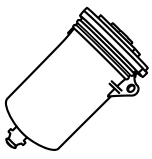

Air Springs

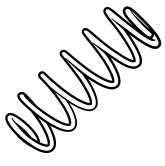

Struts

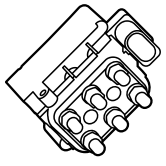

Shocks

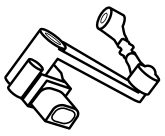

Compressors

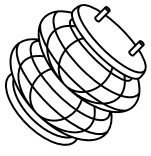

LCV Air Helper Spring Kits


Dryers


Coil Spring Conversion Kits


Valve Blocks


Ride Height Sensors


Pickup Truck Air Helper Springs