Arnott®
Suspension Products

INSTALLATION MANUAL

C-3020
Arnott New Coil Spring Conversion Kit
Acura MDX (YD2)



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. Raise 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 applicable front wheel.
5. Remove the three top mount access panels. (Figures 1, 2)



FIGURE 1



FIGURE 2

6. Disconnect the damper coil connector. (Figures 3, 4)

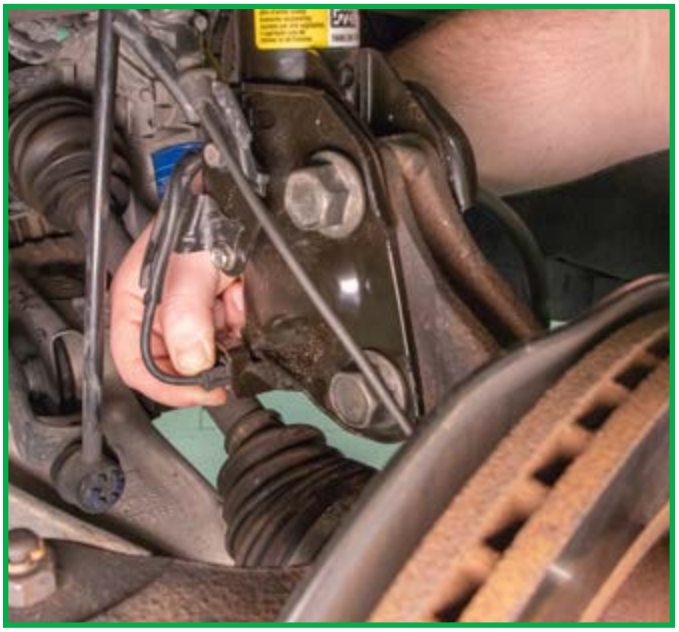


FIGURE 3



FIGURE 4

7. Disconnect the upper and lower wiring brackets. (Figures 5, 6)



FIGURE 5

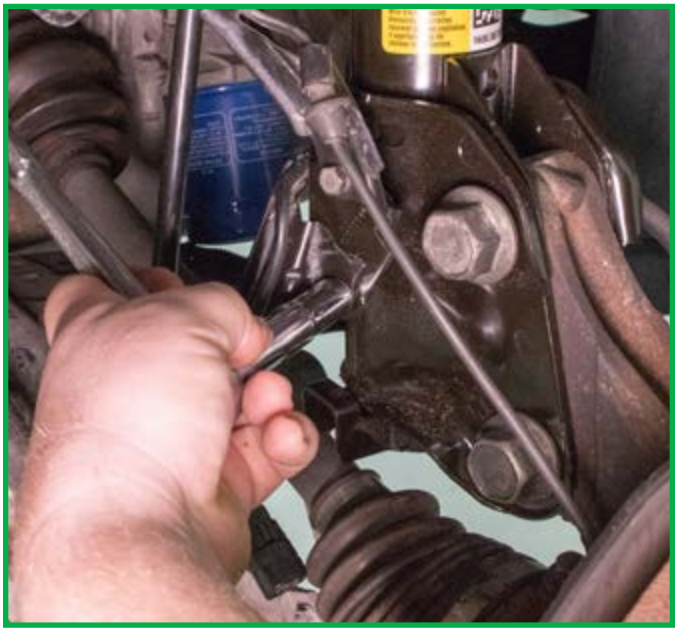


FIGURE 6

8. Disconnect the brake line bracket. (Figure 7)

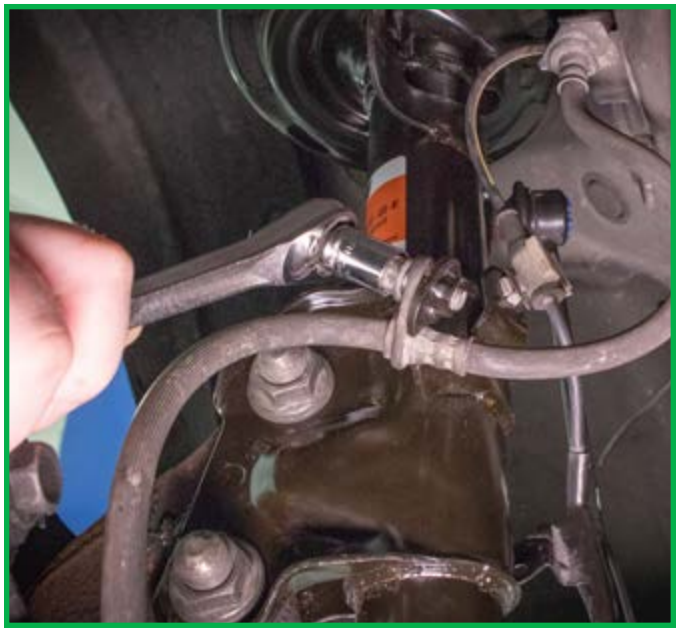


FIGURE 7

9. Loosen and remove the upper nut and bolt from the sway bar end link. (Figures 8, 9)

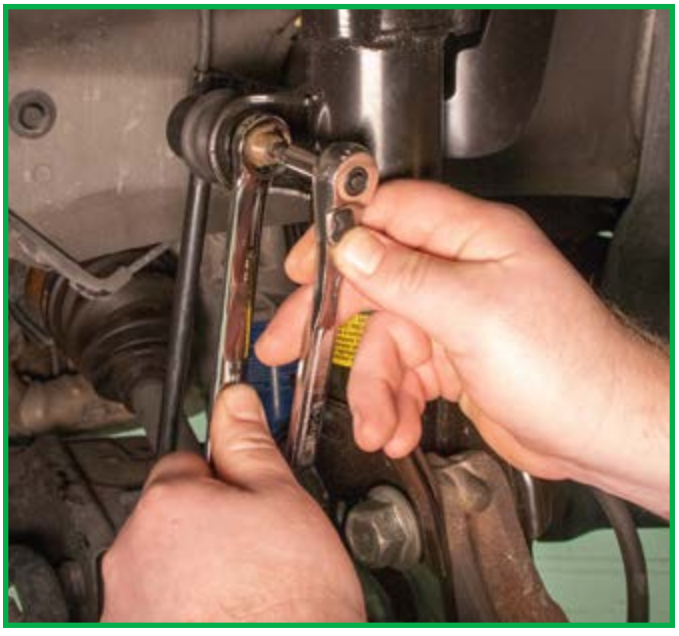


FIGURE 8



FIGURE 9

10. Loosen and remove the two bottom mount bolts. (Figures 10, 11)



FIGURE 10



FIGURE 11

11. Remove the coil strut from the vehicle. (Figure 12)



FIGURE 12

12. Front air strut removal complete.

FRONT COILOVER STRUT INSTALLATION

WARNING:

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

1. Position the coilover strut into the vehicle. (Figure 13)



FIGURE 13

2. Install the two bottom mount bolts. (Figures 14, 15)

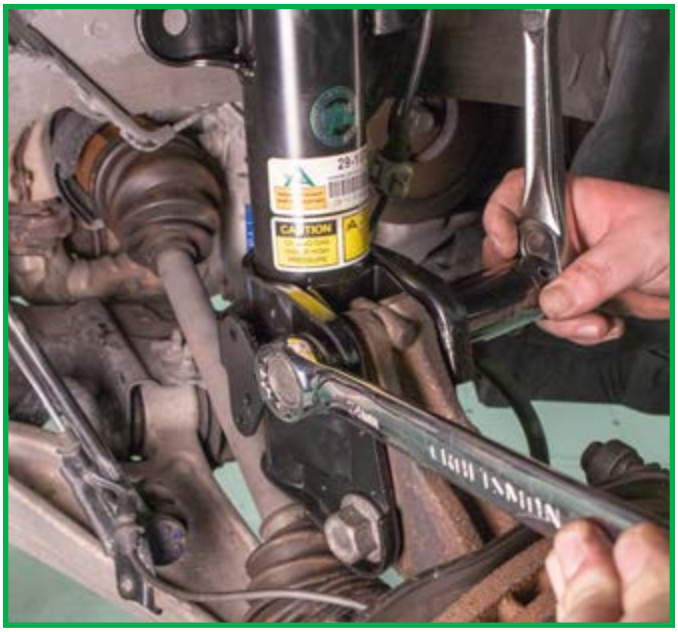


FIGURE 14



FIGURE 15

3. Reinstall the upper sway bar end link nut and bolt. (Figure 16)



FIGURE 16

4. Reinstall the brake line bracket. (Figure 17)



FIGURE 17

5. Reconnect the upper and lower wiring brackets. (Figures 18, 19)



FIGURE 18



FIGURE 19

NOTE: Secure loose and / or hanging wires away from moving parts.

6. Repeat for the other front side strut.
7. Reinstall the wheels.
8. Front coilover strut installation complete.

REAR SHOCK REMOVAL

1. Ensure the vehicle is properly raised according to the manufacturer's instructions.
2. Ensure the air suspension is deflated and deactivated according to the manufacturer's instructions.
3. Remove the applicable rear wheel.
4. Disconnect the electrical connection. (Figure 20)



FIGURE 20

5. Loosen and remove the bottom sway bar end link nut and disconnect the sway bar end link. (Figure 21)



FIGURE 21

6. Using a floor jack to support the weight of the lower control arm, loosen and remove the shock's lower mounting bolt. (Figure 22)



FIGURE 22

7. Loosen and remove the shock's upper mounting bolt. (Figure 23)



FIGURE 23

8. Remove the shock from the vehicle. (Figure 24)



FIGURE 24

9. Rear shock removal complete.

REAR SHOCK INSTALLATION

WARNING:

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

1. Position the shock into the vehicle. (Figure 25)



FIGURE 25

2. Reinstall the shock's upper mounting bolt. (Figure 26)



FIGURE 26

3. Reinstall the shock's lower mounting bolt. (Figure 27)



FIGURE 27

4. Reinstall the bottom sway bar end link nut and tighten to the manufacturer's specifications. (Figure 28)



FIGURE 28

5. Secure the electrical connection away from moving parts. (Figures 29, 30)



FIGURE 29



FIGURE 30

6. Repeat for the other rear side shock.
7. Rear shock installation complete.

ELECTRONIC BYPASS MODULE (EBM) INSTALLATION

1. Disassemble the proper trunk compartments to expose the active damping module. (Figures 31, 32, 33, 34, 35)



FIGURE 31



FIGURE 32



FIGURE 33



FIGURE 34



FIGURE 35

2. Remove the three screw from the active damping module and detach. (Figures 36, 37, 38)



FIGURE 36



FIGURE 37



FIGURE 38

3. Disconnect the electrical connections from the active damping module. (Figure 39)



FIGURE 39

4. Carefully expose the wire loom. (Figure 40)

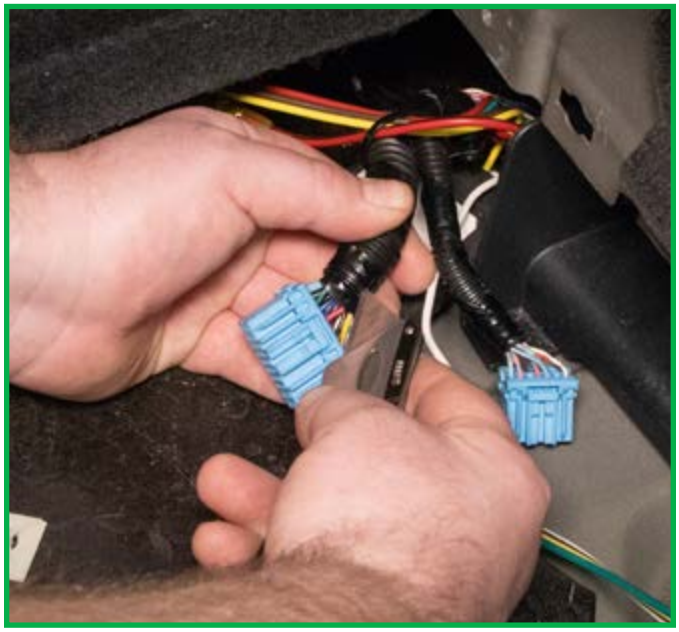


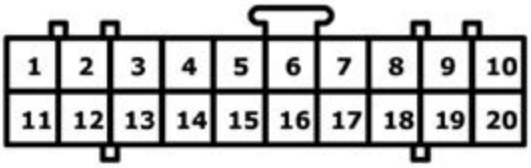
FIGURE 40

5. 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 42, 43)

   Active damper control unit connector end view as viewed from the wire side of the connector (Figure 41) :

Active Damper Control Unit (USA: Advance, Advance/Entertainment; Canada: Elite)
- LT BLU
- Left Side of Cargo Area
- On Floor Wire Harness (Left Branch)

Connector A



Connector B

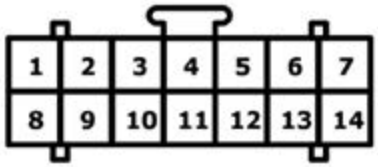


FIGURE 41

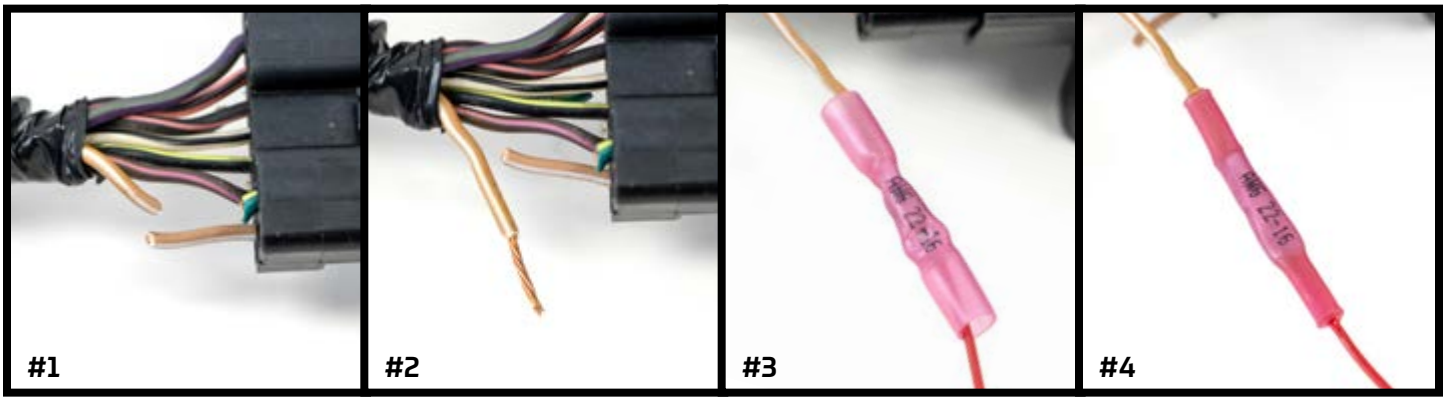
FROM	TO (PIN)	2007 - 2009	2010 - 2013
Black	A18	Black	Black
Red	A8	Green	Yellow
Blue	B1	White	White
Green	B8	Red	Red

FIGURE 42

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 43

NOTE: Do not plug the factory wiring harness back into the vehicle's air suspension control module.

6. Connect the EBM to the EBM harness.
7. Secure the EBM in a suitable location, away from friction or pinch points.
8. Reinstall the active damping module and secure it using the three screws. Tighten to the manufacturer's specifications. (Figure 44)



FIGURE 44

9. Reinstall the trunk compartment covers.
10. EBM installation complete.

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HOW HELPFUL WAS THIS MANUAL?

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

https://bit.ly/4mms6nL

NEED IMMEDIATE SUPPORT?

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