

Installation Manual

C-3020 ARNOTT COIL SPRING CONVERSION KIT ACURA MDX (YD2)



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)

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.

FRONT AIR STRUT REMOVAL

1. SET THE STEERING TO STRAIGHT AHEAD.
2. RAISE THE VEHICLE.
3. REMOVE APPLICABLE FRONT WHEEL.
4. REMOVE THE THREE TOP MOUNT ACCESS PANELS. (FIGURES 1, 2)



FIGURE 1



FIGURE 2

5. DISCONNECT THE DAMPER COIL CONNECTOR. (FIGURES 3, 4)



FIGURE 3



FIGURE 4

6. DISCONNECT THE UPPER AND LOWER WIRING BRACKETS. (FIGURES 5, 6)



FIGURE 5



FIGURE 6

7. DISCONNECT THE BRAKE LINE BRACKET. (FIGURE 7)

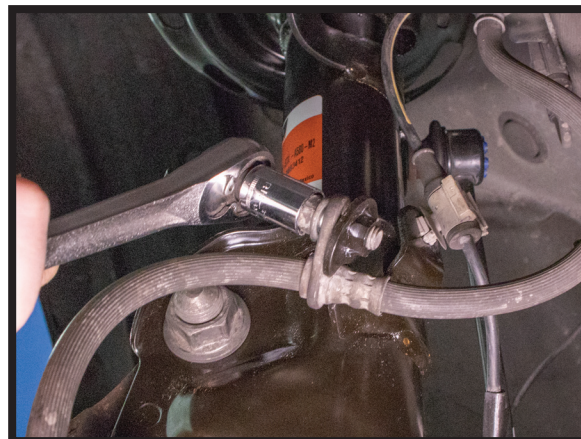


FIGURE 7

8. LOOSEN AND REMOVE THE UPPER NUT AND BOLT FROM THE SWAY BAR END LINK.
(FIGURES 8, 9)



FIGURE 8



FIGURE 9

9. LOOSEN AND REMOVE THE TWO BOTTOM MOUNT BOLTS. (FIGURES 10, 11)

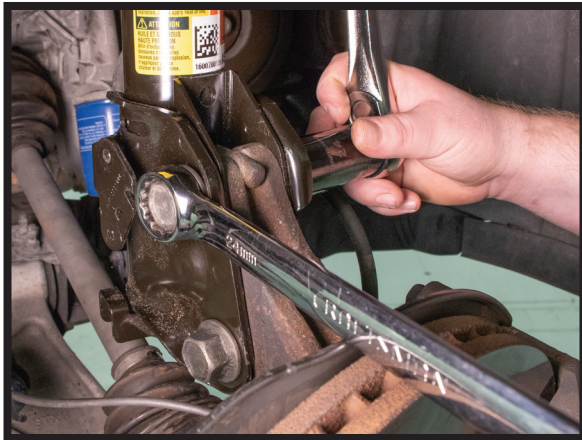


FIGURE 10



FIGURE 11

10. REMOVE THE COIL STRUT FROM THE VEHICLE. (FIGURE 12)



FIGURE 12

11. REMOVAL COMPLETE.

FRONT COIL STRUT INSTALLATION



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

1. INSTALL THE COIL STRUT INTO THE VEHICLE. (FIGURE 13)



FIGURE 13

2. INSTALL THE TWO BOTTOM MOUNT BOLTS AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 14, 15)



FIGURE 14



FIGURE 15

3. REINSTALL THE UPPER SWAY BAR END LINK NUT AND BOLT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (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)

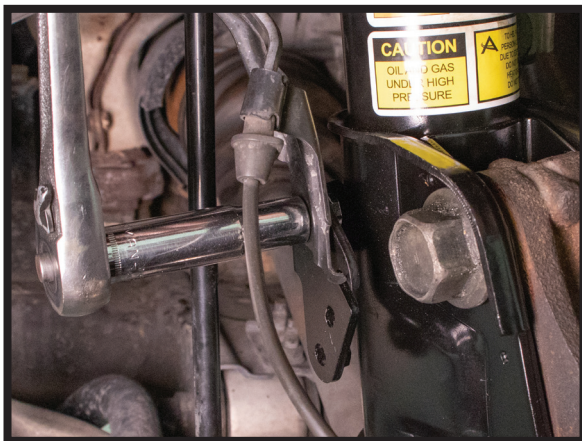


FIGURE 18



FIGURE 19

NOTE: SECURE LOOSE AND OR HANGING WIRES AWAY FROM MOVING PARTS.

6. REINSTALL THE WHEEL.
7. INSTALLATION COMPLETE.

REAR AIR STRUT REMOVAL

1. REMOVE THE APPLICABLE REAR WHEEL.
2. DISCONNECT THE ELECTRICAL CONNECTION. (FIGURE 20)

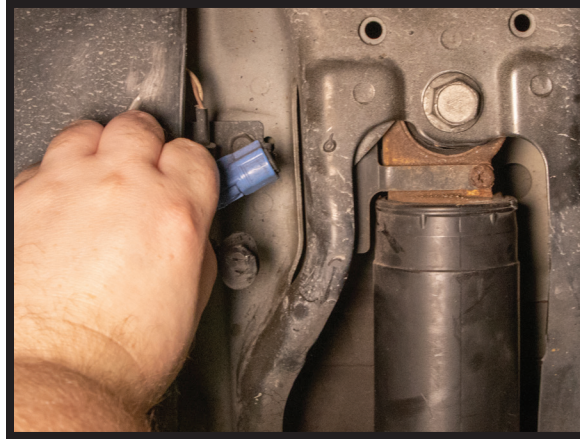


FIGURE 20

3. LOOSEN AND REMOVE THE BOTTOM SWAY BAR END LINK NUT AND DISCONNECT THE SWAY BAR END LINK. (FIGURE 21)



FIGURE 21

4. 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

5. LOOSEN AND REMOVE THE SHOCK'S UPPER MOUNTING BOLT. (FIGURE 23)



FIGURE 23

6. REMOVE THE SHOCK FROM THE VEHICLE. (FIGURE 24)



FIGURE 24

REAR COIL SPRING INSTALLATION



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

1. INSTALL THE SHOCK INTO THE VEHICLE. (FIGURE 25)



FIGURE 25

2. REINSTALL THE SHOCK'S UPPER MOUNTING BOLT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 26)



FIGURE 26

3. REINSTALL THE SHOCK'S LOWER MOUNTING BOLT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 27)



FIGURE 27

4. REINSTALL THE BOTTOM SWAY BAR END LINK NUT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 28)



FIGURE 28

5. SECURE THE ELECTRICAL CONNECTION AWAY FROM MOVING PARTS. (FIGURES 29, 30)



FIGURE 29



FIGURE 30

6. REMOVAL COMPLETE.

ELECTRONIC BYPASS MODULE INSTALLATION

1. DISASSEMBLE THE PROPER TRUNK COMPARTMENTS TO EXPOSE THE ACTIVE DAMPING MODULE. (FIGURES 31, 32, 33, 34, 35)

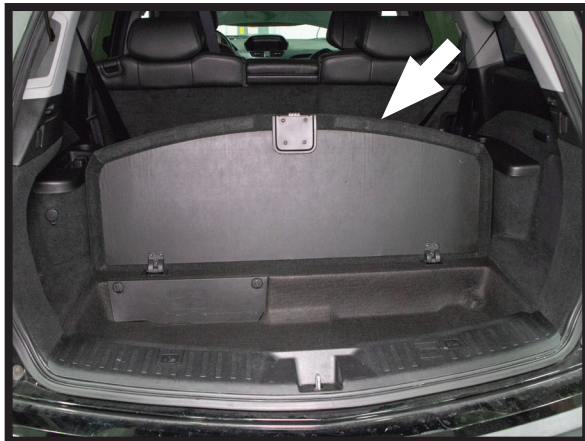


FIGURE 31



FIGURE 32



FIGURE 33



FIGURE 34



FIGURE 35

2. REMOVE THE THREE SCREWS FROM THE ACTIVE DAMPING MODULE AND DETACH. (FIGURES 36, 37, 38)

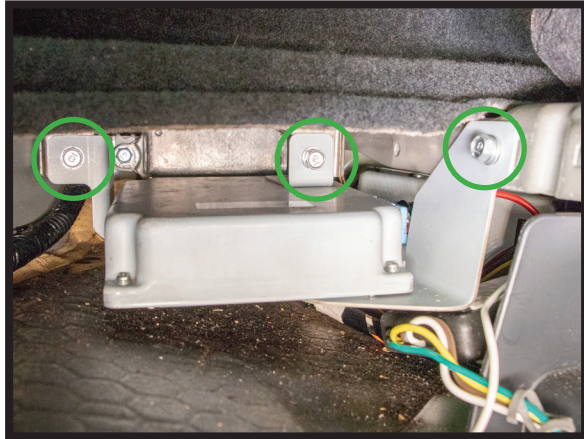


FIGURE 36



FIGURE 37



FIGURE 38

3. DISCONNECT THE ELECTRICAL CONNECTIONS FROM THE ACTIVE DAMPING MODULE. (FIGURE 39)

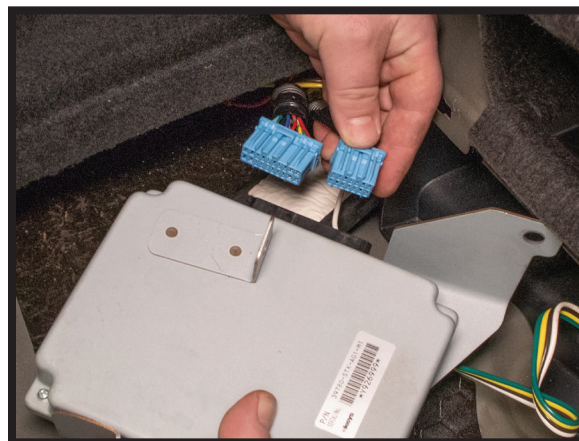


FIGURE 39

4. CAREFULLY EXPOSE THE WIRE LOOM AND SPLICE THE EBM ONTO THE EXISTING WIRE HARNESS, FOLLOWING THE DIAGRAM IN STEP 6. (FIGURES 40, 41)

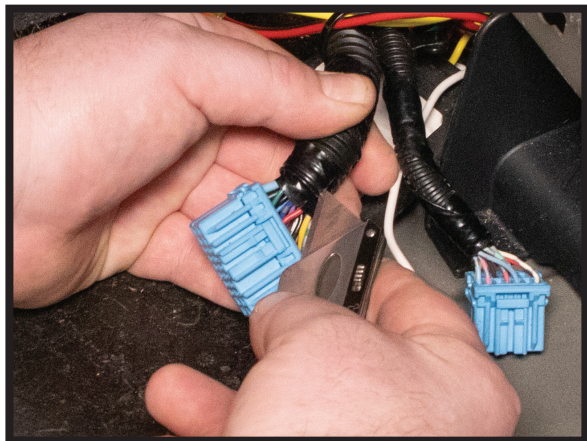


FIGURE 40

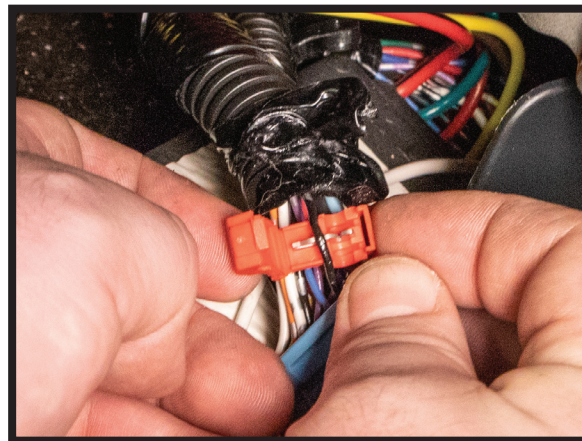


FIGURE 41

5. CONNECT THE EBM TO THE APPROPRIATE SPLICE CONNECTORS AS INDICATED IN STEP 6. (FIGURES 42, 43)

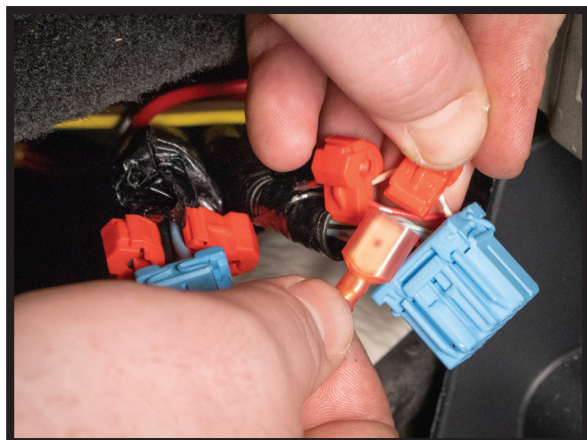


FIGURE 42

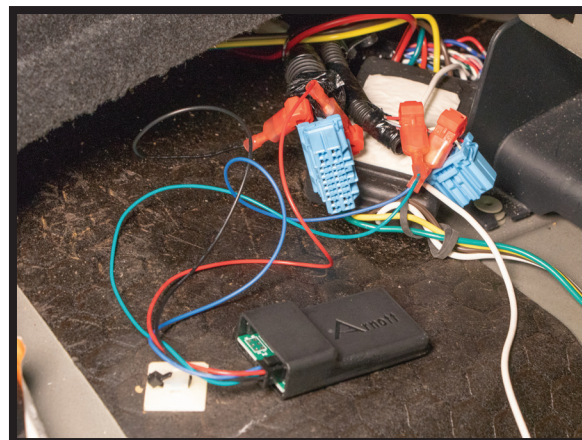


FIGURE 43

NOTE:

DO NOT PLUG THE FACTORY WIRING HARNESS BACK INTO THE VEHICLES AIR SUSPENSION CONTROL MODULE.

6. ACTIVE DAMPER CONTROL UNIT CONNECTOR END VIEW AS VIEWED FROM THE WIRE SIDE OF THE CONNECTOR. (FIGURE 44).

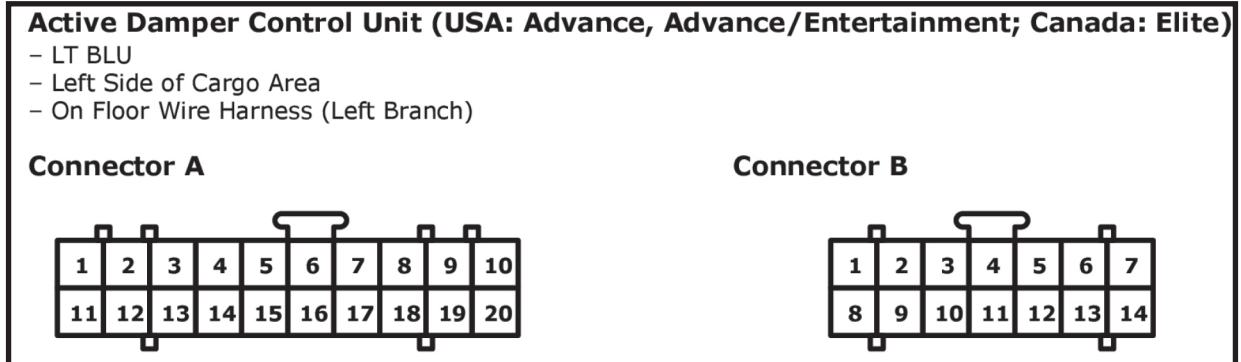


FIGURE 44

| FROM | TO (PIN) | 2007-2009 | 2010-2013 |
|-------|----------|-----------|-----------|
| BLACK | A18 | BLACK | BLACK |
| RED | A8 | GREEN | YELLOW |
| BLUE | B1 | WHITE | WHITE |
| GREEN | B8 | RED | RED |

NOTE:

DO NOT PLUG THE FACTORY WIRING HARNESS BACK INTO THE VEHICLES AIR SUSPENSION CONTROL MODULE.

7. REINSTALL THE ACTIVE DAMPENING MODULE AND SECURE USING THE THREE SCREWS. TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 45)



FIGURE 45

8. REINSTALL THE TRUNK COMPARTMENT COVERS.
9. EBM INSTALLATION COMPLETE.