



INSTALLATION MANUAL

C-3633

Arnott New Coil Spring Conversion Kit w/EBM
Hyundai Equus (VI)



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 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 front wheels. (Figure 1)



FIGURE 1

5. Disconnect the height sensor bracket. (Figure 2)



FIGURE 2

6. Remove the air line from the check valve. (Figure 3)



FIGURE 3

7. Disconnect the brake line bracket from the strut body. (Figures 4, 5)

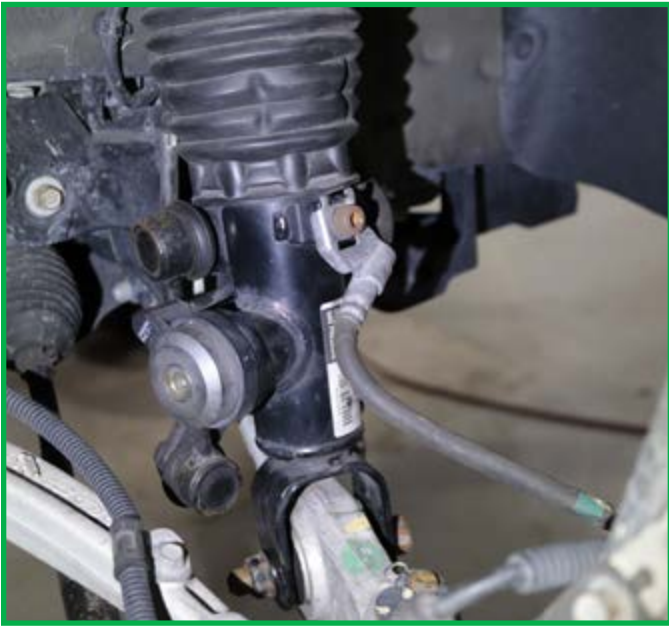


FIGURE 4



FIGURE 5

8. Disconnect the strut's wiring connector from the vehicle. (Figure 6)



FIGURE 6

9. Disconnect the sway bar link from the strut. (Figure 7)



FIGURE 7

10. Remove the lower strut mount bolt. (Figure 8)



FIGURE 8

11. Disconnect the upper control arms from the spindle. (Figure 9)



FIGURE 9

12. Remove the four bolts retaining the upper strut mount bracket. (Figure 10)



FIGURE 10

13. Remove the strut from the vehicle. (Figure 11)



FIGURE 11

14. Remove the three top mount nuts and separate the bracket from the strut. (Figures 12, 13, 14)



FIGURE 12



FIGURE 13



FIGURE 14

15. Removal complete.

FRONT COILOVER STRUT INSTALLATION



WARNING:

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

1. Install the upper bracket onto the new Arnott strut, using the provided hardware. Ensure that the brake line bracket on the strut is oriented to the front. (Figures 15, 16)



FIGURE 15



FIGURE 16

2. Install the new strut into the vehicle. (Figure 17)



FIGURE 17

3. Insert the lower mount bolt. Do not tighten at this time. (Figure 18)



FIGURE 18

4. Using an appropriate jack, raise the wheel hub to seat the upper bracket properly into the body. Install the four mounting bolts and tighten to manufacturers' specifications. (Figure 19)



FIGURE 19

5. Raise the wheel hub to normal ride height and tighten the lower mount bolt to manufacturer's specifications. (Figure 20)



FIGURE 20

6. Connect the brake line bracket to the strut. Tighten to manufacturer's specifications. (Figure 21)



FIGURE 21

7. Connect the sway bar link to the strut. Tighten to manufacturer's specifications. (Figure 22)



FIGURE 22

8. Connect the upper control arms to the spindle. Tighten to manufacturer's specifications. (Figure 23)



FIGURE 23

9. Reconnect the ride height sensor bracket. Tighten to manufacturer's specifications. (Figure 24)



FIGURE 24

10. Seal off and secure the air lines and electrical connectors in a suitable location.
11. Reinstall the wheels.
12. Installation complete.

REAR AIR SPRING AND SHOCK 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 wheels. (Figure 25)



FIGURE 25

4. Remove the air line from the air spring. (Figure 26)



FIGURE 26

5. Disconnect the ride height sensor link. (Figure 27)



FIGURE 27

6. Disconnect the sway bar link from the sway bar. (Figure 28)



FIGURE 28

7. Remove the lower control arm bolt and disconnect the arm from the knuckle. (Figures 29, 30)



FIGURE 29



FIGURE 30

8. Remove the air spring from the vehicle. (Figure 31)



FIGURE 31

9. Disconnect the shock's electrical connector from the vehicle. (Figure 32)



FIGURE 32

10. Remove the shock upper mount bolts. (Figure 33)



FIGURE 33

11. Remove the shock lower mount bolt. (Figure 34)



FIGURE 34

12. Remove the shock from the vehicle. (Figure 35)



FIGURE 35

13. Removal complete.

REAR SHOCK AND COIL SPRING INSTALLATION



WARNING:

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

1. Place the lower spring perch into the spring seat on the lower control arm. (Figure 36)



FIGURE 36

2. Ensure the upper spring isolator is seated properly. Position the spring into the upper spring seat and then guide over the lower spring perch. (Figures 37, 38)



FIGURE 37



FIGURE 38

3. Use an appropriate jack to raise the lower control arm into position. Reconnect the sway bar link and install the lower control arm to wheel knuckle bolt. Tighten to manufacturer's specifications. (Figures 39, 40)



FIGURE 39



FIGURE 40

4. Install the new shock into the vehicle. (Figure 41)



FIGURE 41

5. Install the upper shock mount bolts. Tighten to manufacturer's specifications. (Figure 42)



FIGURE 42

6. Install the lower shock mount bolt. Tighten to manufacturer's specifications. (Figure 43)



FIGURE 43

7. Reconnect the ride height sensor link. (Figure 44)



FIGURE 44

8. Seal off and secure air lines and electrical connections in a suitable location.
9. Reinstall the wheels.
10. Installation complete.

ELECTRONIC BYPASS MODULE (EBM) INSTALLATION

1. Remove the driver's side trim inside the trunk to gain access to the suspension control module. (Figures 45, 46)



FIGURE 45



FIGURE 46

2. Disconnect the two wire harnesses from the module. **The harnesses will remain unplugged.** (Figures 47, 48)

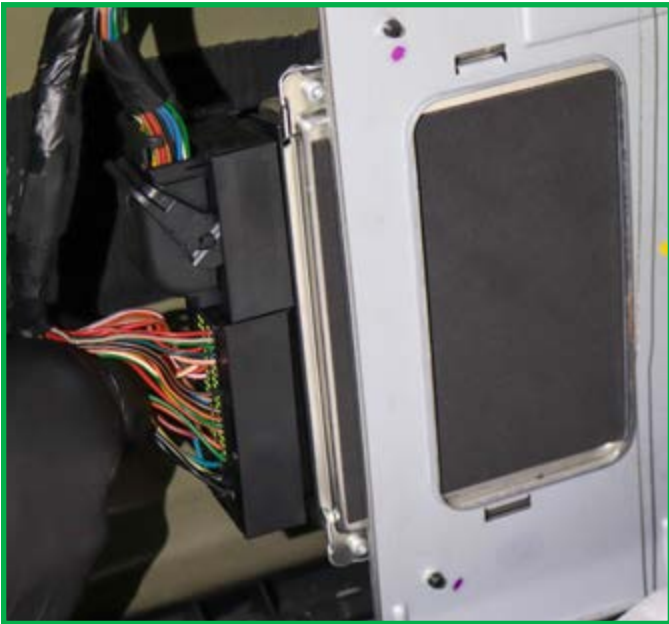


FIGURE 47



FIGURE 48

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 49, 50)

	FROM	TO	PIN LOCATION	
ELECTRONIC BYPASS MODULE	Black	Black	1	AIR SUSPENSION CONTROL MODULE CONNECTOR F01-A
	Red	Gray/Orange	3	
	Green	Green	81	
	Blue	Orange	61	

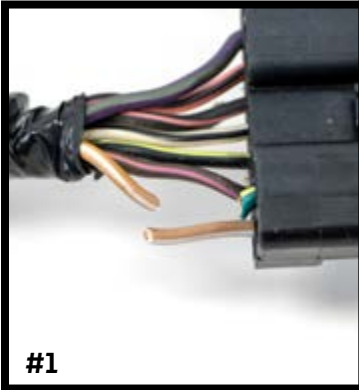
FIGURE 49

HEAT-SHRINK BUTT CONNECTOR INSTALLATION



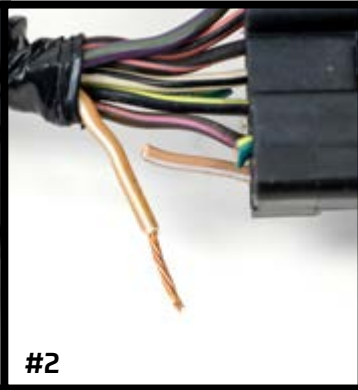
BEFORE CUTTING
Verify you are working with the correct wires. Check the manufacturer’s wiring diagram for your specific vehicle.

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



#1

IDENTIFY AND CUT THE APPLICABLE WIRE TO THE CONTROL MODULE.



#2

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



#3

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



#4

USE AN APPROPRIATE TOOL TO HEAT SHRINK.

FIGURE 50

4. Connect the EBM to the EBM harness. (Figure 51)

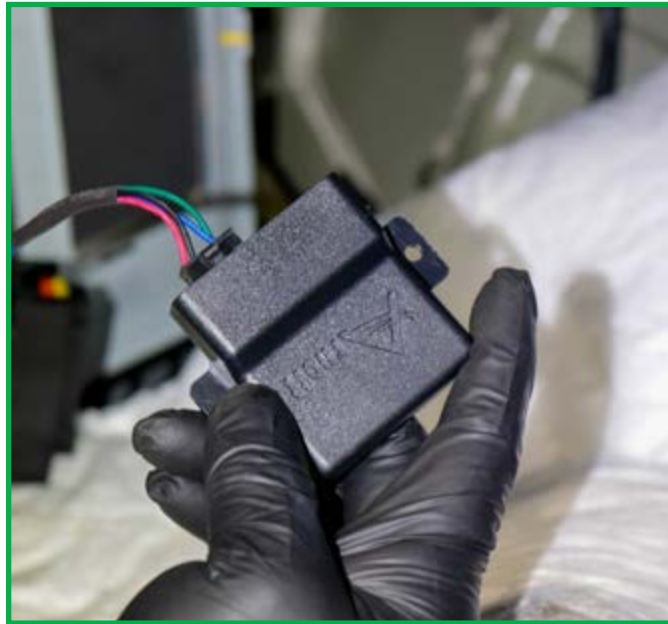


FIGURE 51

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. Installation complete.

**A 4-WHEEL ALIGNMENT
IS RECOMMENDED AFTER INSTALLATION**

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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/46Tl8jP>

NEED IMMEDIATE SUPPORT?

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