



INSTALLATION MANUAL

C-3697

Arnott New Rear Coil Spring Conversion Kit
BMW X5 (E70) & BMW X6 (E71)



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

AIR SPRING 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 applicable rear wheel(s). (Figure 1)



FIGURE 1

5. Remove the fasteners and paneling under the right side of the vehicle to expose the vehicle's air suspension valve block. (Figures 2, 3, 4)



FIGURE 2



FIGURE 3



FIGURE 4

6. Locate the valve block and slowly remove the air lines to ensure the air spring is fully deflated. The air hose on the right will deflate the right air spring, and the air hose on the left will deflate the left air spring. (Figure 5)

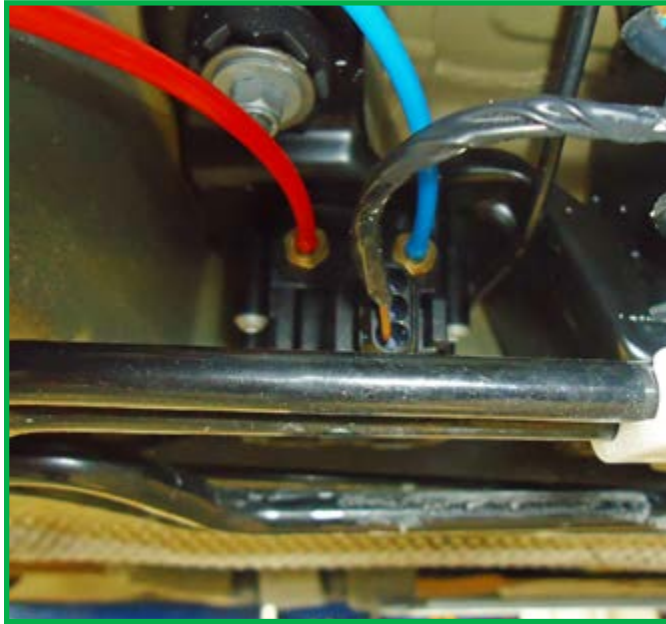


FIGURE 5

7. Remove the bottom piston from the lower spring seat by pressing in the two locking tabs and pushing upward on the bottom piston. (Figures 6, 7)



FIGURE 6



FIGURE 7

8. Remove the top of the air spring by turning counterclockwise approximately 90 degrees, and pull the air spring out. (Figures 8, 9)



FIGURE 8



FIGURE 9

9. Remove the air line from the air spring. Remove the air line fitting from the air hose and discard it. (Figures 10, 11)



FIGURE 10

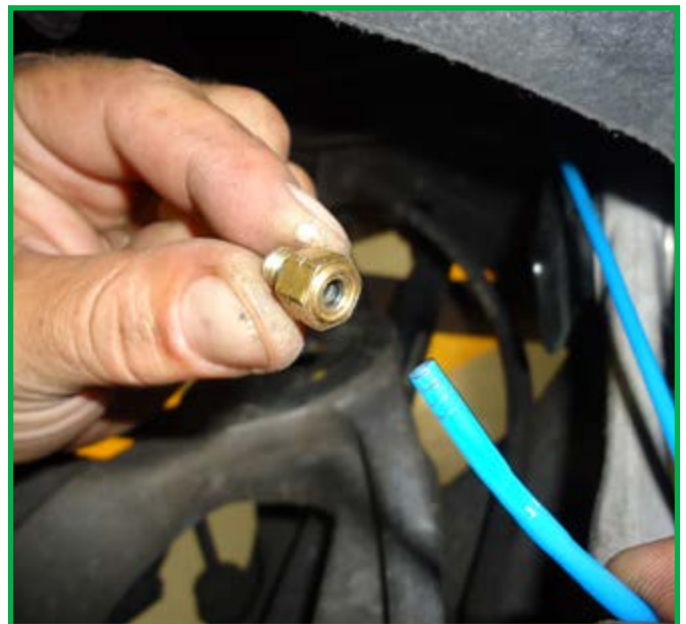


FIGURE 11

10. Place the unused air line in a suitable location, away from friction or heat sources.
11. Air spring removal complete.

COIL SPRING INSTALLATION



WARNING:

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

1. Assemble the provided lower coil spring perch and hardware onto the frame of the vehicle. Do not fully tighten yet. (Figures 12, 13, 14, 15)



FIGURE 12



FIGURE 13



FIGURE 14



FIGURE 15

2. Place the upper coil spring perch onto the coil spring. (Figures 16, 17)



FIGURE 16



FIGURE 17

3. Place the new coil spring into the mounting position. The top mount perch will seat into the frame of the vehicle. (Figure 18)



FIGURE 18

4. Tighten the nut on the lower coil spring perch to the manufacturer's specifications. (Figure 19)



FIGURE 19

5. Installation steps apply to both rear sides of the vehicle.
6. Coil spring installation complete.

ELECTRONIC BYPASS MODULE (EBM) INSTALLATION

1. Remove the right side trunk paneling to reveal the control module. (Figures 20, 21)



FIGURE 20



FIGURE 21

2. Remove the harness connection to the control module. It will remain unplugged. (Figures 22, 23)

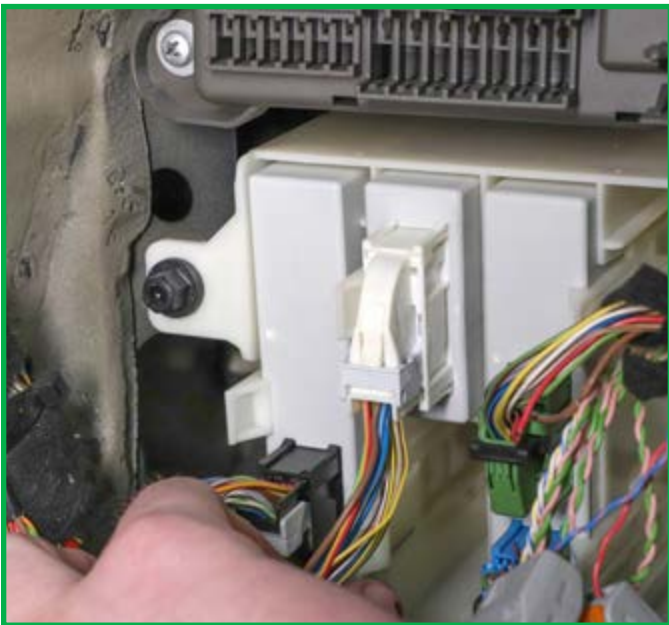


FIGURE 22



FIGURE 23

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. (Figure 24, 25)

	FROM	TO	PIN LOCATION	
ELECTRONIC BYPASS MODULE	Red	Red/Yellow	22	AIR SUSPENSION CONTROL MODULE CONNECTIONS
	Black	Brown	6	
	Green	Lt. Green	25	
	Blue	Orange/Green	24	

FIGURE 24

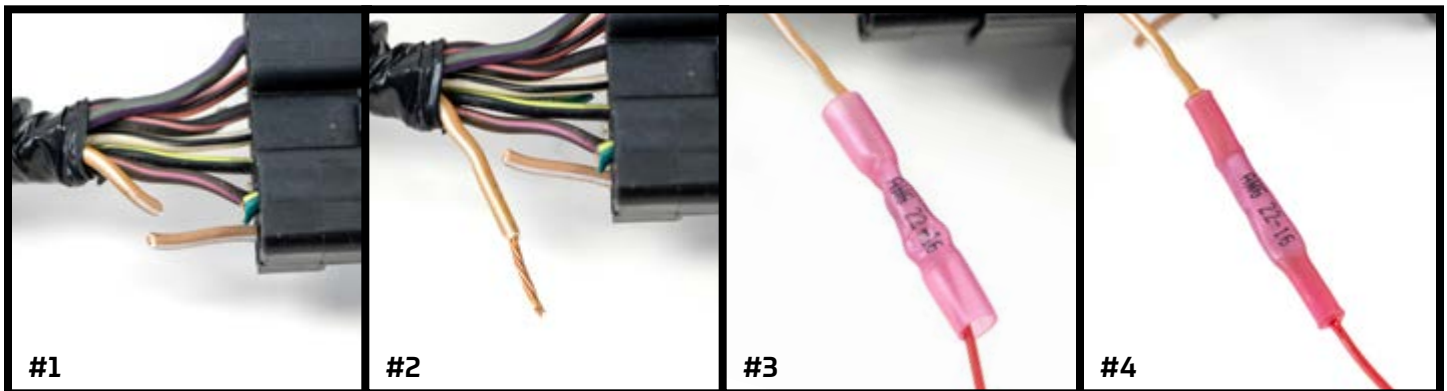
HEAT-SHRINK BUTT CONNECTOR INSTALLATION



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 **HARNES 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 25

4. Connect the EBM to the EBM harness. (Figures 26, 27)



FIGURE 26



FIGURE 27

5. Secure the wires and 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**

Arnott®

Suspension Products

Arnott US Business Office:

www.arnottsuspension.com

100 Sea Ray Drive
Merritt Island, FL 32953

Call: 800.251.8993

321.868.3016

Fax: 321.868.3703

Email: techassistance@arnottinc.com

Arnott Europe Business Office:

www.arnotteurope.com

Industrieweg 19
5145 PD, Waalwijk (NL)

NL Phone: +31 73 7850 580

DE Phone: +31 85 2087 438

UK Phone: +44 203 3186 124

BE Phone: +32 258 846 90

ES Phone: +34 91 901 10 56

FR Phone: +32 78 48 46 93

Email: info@arnotteurope.com



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<https://bit.ly/4b77FYj>

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