



# INSTALLATION MANUAL

## SK-3604 Arnott New Front Right Strut BMW X5 (F15)



INSTALLATION VIDEO

<https://bit.ly/43a45a0>



**Engineered to Ride, Built to Last<sup>®</sup>**

# 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.arnottinc.com](http://www.arnottinc.com) and [www.arnotteurope.com](http://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.

# STRUT REMOVAL

1. Deflate and disable the air suspension system according to the manufacturer's specifications.
2. Raise the vehicle and remove the front wheel. (Figure 1)



FIGURE 1

3. Locate the wiring harness connector box and disconnect the strut's wire. (Figures 2, 3)

**NOTE:** Set the harness in a safe place so that it will not be pulled or pinched during the removal and installation process.



FIGURE 2



FIGURE 3

4. Unroute wires from the brackets on the strut. (Figure 4)



FIGURE 4

5. Remove the bolt connecting the upper control arm to the steering knuckle. (Figures 5, 6)



FIGURE 5



FIGURE 6

6. Remove the bolt connecting the sway bar link to the steering knuckle. (Figures 7, 8)



FIGURE 7



FIGURE 8

7. Remove the bolt from the lower control arm to the lower strut mount. (Figure 9)



FIGURE 9

8. Remove the bolt from the clevis to the strut. (Figures 10, 11)



FIGURE 10



FIGURE 11

9. Use an appropriate tool to spread the tube clamp and separate the bottom of the strut from the mount. (Figure 12)

**NOTE:** Do not pry directly on the strut body.



FIGURE 12

10. Remove trim in the engine bay as needed to access the top mount (Figure 13). Remove the top mount nuts (Figure 14). Hold onto the strut from below to keep it from falling.



FIGURE 13



FIGURE 14

11. Carefully remove the strut from the vehicle. (Figure 15)



FIGURE 15

12. Disconnect the acceleration sensor from the strut by removing the bracket hardware. (Figures 16, 17)



FIGURE 16



FIGURE 17

13. Removal complete.

## STRUT INSTALLATION



**WARNING:**

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

1. Install the acceleration sensor bracket onto the new Arnott strut. (Figure 18)



FIGURE 18

- Carefully install the new Arnott strut into the vehicle. Loosely thread on the included top mount nuts by hand to hold the strut in place. Do not tighten yet. (Figure 19)



FIGURE 19

- Seat the bottom of the strut into the tube clamp. Do not install the bolt at this point. (Figure 20)

**NOTE:** Make sure the strut is fully seated into the clamp and correctly oriented.



FIGURE 20

4. Install the bolt to connect the lower strut mount to the lower control arm. Do not tighten at this point. (Figure 21)



FIGURE 21

5. Use an appropriate jack to support the wheel hub during installation. (Figure 22)



FIGURE 22

6. Reconnect the upper control arm to the knuckle. Tighten to the manufacturer's specifications. (Figures 23, 24)



FIGURE 23



FIGURE 24

7. Reconnect the sway bar link to the knuckle. Tighten to the manufacturer's specifications. (Figure 25)



FIGURE 25

8. Torque the tube clamp and lower mount bolts to the manufacturer's specifications. (Figures 26, 27)



FIGURE 26



FIGURE 27

9. Tighten the top mount nuts to the manufacturer's specification. (Figure 28)



FIGURE 28

10. Reroute wires to the brackets on the strut body. (Figure 29)



FIGURE 29

11. Connect the strut's wire harness to the vehicle. Move wires back into place and away from any friction points. (Figures 30, 31)



FIGURE 30



FIGURE 31

12. Reinstall the wheel. (Figure 32)



FIGURE 32

13. Installation complete.



**HOW HELPFUL WAS THIS MANUAL?**

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

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

**NEED IMMEDIATE SUPPORT?**

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

# Arnott®

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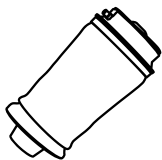
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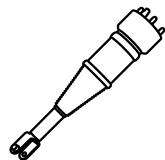
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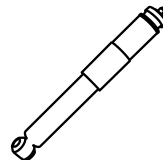
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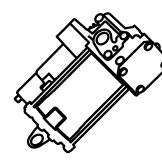
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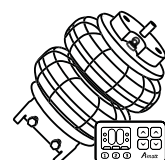
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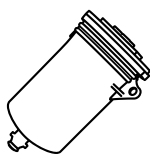
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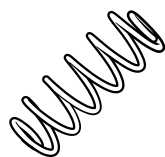
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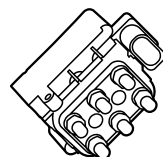
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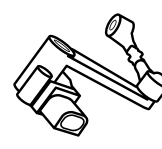
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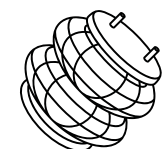
Coil Spring  
Conversion Kits



Valve Blocks



Ride Height  
Sensors



Pickup Truck Air  
Helper Springs