Arnott P-2935

Arnott P-2935 Air Suspension Compressor User Manual

For 1998-2002 Lincoln Town Car Models

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Arnott P-2935 Air Suspension Compressor. Please read this manual thoroughly before proceeding with any procedures to ensure correct usage and to maximize the lifespan of the product. This compressor is designed for 1998-2002 Lincoln Town Car models.

Image 1.1: The Arnott P-2935 Air Suspension Compressor. This image displays the complete compressor unit with its integrated dryer, intake air hose, and electrical connectors, ready for installation.

2. Safety Information

Always prioritize safety when working with automotive components. Improper installation or maintenance can lead to vehicle damage or personal injury. It is recommended that installation be performed by a qualified professional.

- Ensure the vehicle is properly supported on a level surface before beginning any work.
- Disconnect the vehicle's battery before working on electrical components.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Refer to your vehicle's service manual for specific procedures and torque specifications.

Image 2.1: Warning regarding cracked air springs. This image shows three examples of damaged air springs with cracks and wear, emphasizing that such conditions must be addressed to validate the compressor's warranty and prevent continuous operation leading to overheating.

WARNING: Cracked air springs must be changed to validate the warranty on the compressor. Continuous operation with cracked air springs will cause the compressor to overheat.

3. Prior to Installation: Diagnosis Checklist

Before installing a replacement air suspension compressor, it is crucial to review the following checklist. Air suspension compressor failure is generally the result of failure(s) in other system components, such as the

compressor relay, fuses, leaking air bladder(s), valve block, or air lines/fittings.

STOP

BEFORE INSTALLING A REPLACEMENT AIR SUSPENSION COMPRESSOR, REVIEW THE CHECKLIST BELOW

Air suspension compressor failure is generally the result of failure(s) in other system components: i.e. compressor relay, fuses, leaking air bladder(s), valve block or air lines/fittings.

PRIOR TO INSTALL
COMPRESSOR DIAGNOSIS CHECKLIST

1. **Suspension system codes**
   Be sure to review all DTC codes prior to new compressor installation.
2. **Fuses and relays**
   Check for blown fuses and ensure the relay is working properly. A failed compressor relay is a top cause of air compressor failure. They normally fail in the **"closed"** position and should be replaced during compressor installation.
3. **Connections**
   Verify that the air line and wiring harnesses are connected without signs of physical damage.
4. **VOSS fitting and valve connections**
   Ensure that the VOSS fittings and valve connections are fully seated and undamaged. Make sure that the airline is secured at the proper depth.
5. **Height sensors**
   Check the electrical connections and the orientation of the height sensor arms.
6. **Damage to air springs and full strut assembly**
   Inspect the air springs and/or air struts for any signs of excessive wear or moisture. Moisture in the system is generally an indicator of a leak elsewhere in the system.
7. **Valve block**
   Check all valve block connections and fittings; inspect for any cracks or other damage.
8. **All airlines**
   Inspect the air lines for kinks, holes or other damage.

MAKE SURE ALL DOORS, HOOD AND TRUNK ARE CLOSED COMPLETELY.

NOTE: **AFTER INSTALLATION, SOME VEHICLES REQUIRE SUSPENSION INITIALIZATION**
Examples of suspension initialization include:
Turning wheel lock to lock, or driving the vehicle over a particular speed.
Refer to the proper Service manual for your vehicle's process.

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)

1	11-COMPRESSOR_DIAGNOSIS_CHECKL	REV 1	07/02/2020

Image 3.1: Compressor Diagnosis Checklist. This image displays a detailed checklist to be followed before installing a new air suspension compressor, covering suspension system codes, fuses, relays, connections, VOSS fitting and valve connections, height sensors, air springs and full strut assembly, valve block, and air lines.

1. **Suspension system codes:** Be sure to review all Diagnostic Trouble Codes (DTCs) prior to new compressor installation.
2. **Fuses and relays:** Check for blown fuses and ensure the relay is working properly. A failed compressor relay is a top cause of air compressor failure. They normally fail in the "closed" position and should be replaced during compressor installation.

3. **Connections:** Verify that the air line and wiring harnesses are connected without signs of physical damage.
4. **VOSS fitting and valve connections:** Ensure that the VOSS fittings and valve connections are fully seated and undamaged. Make sure that the airline is secured at the proper depth.
5. **Height sensors:** Check the electrical connections and the orientation of the height sensor arms.
6. **Damage to air springs and full strut assembly:** Inspect the air springs and/or air struts for any signs of excessive wear or moisture. Moisture in the system is generally an indicator of a leak elsewhere in the system.
7. **Valve block:** Check all valve block connections and fittings; inspect for any cracks or other damage.
8. **All airlines:** Inspect the air lines for kinks, holes, or other damage.

MAKE SURE ALL DOORS, HOOD AND TRUNK ARE CLOSED COMPLETELY before and after installation procedures.

4. Installation Guidelines

The Arnott P-2935 Air Suspension Compressor is designed for direct replacement in compatible vehicles. It includes a dryer and intake air hose for a complete installation.

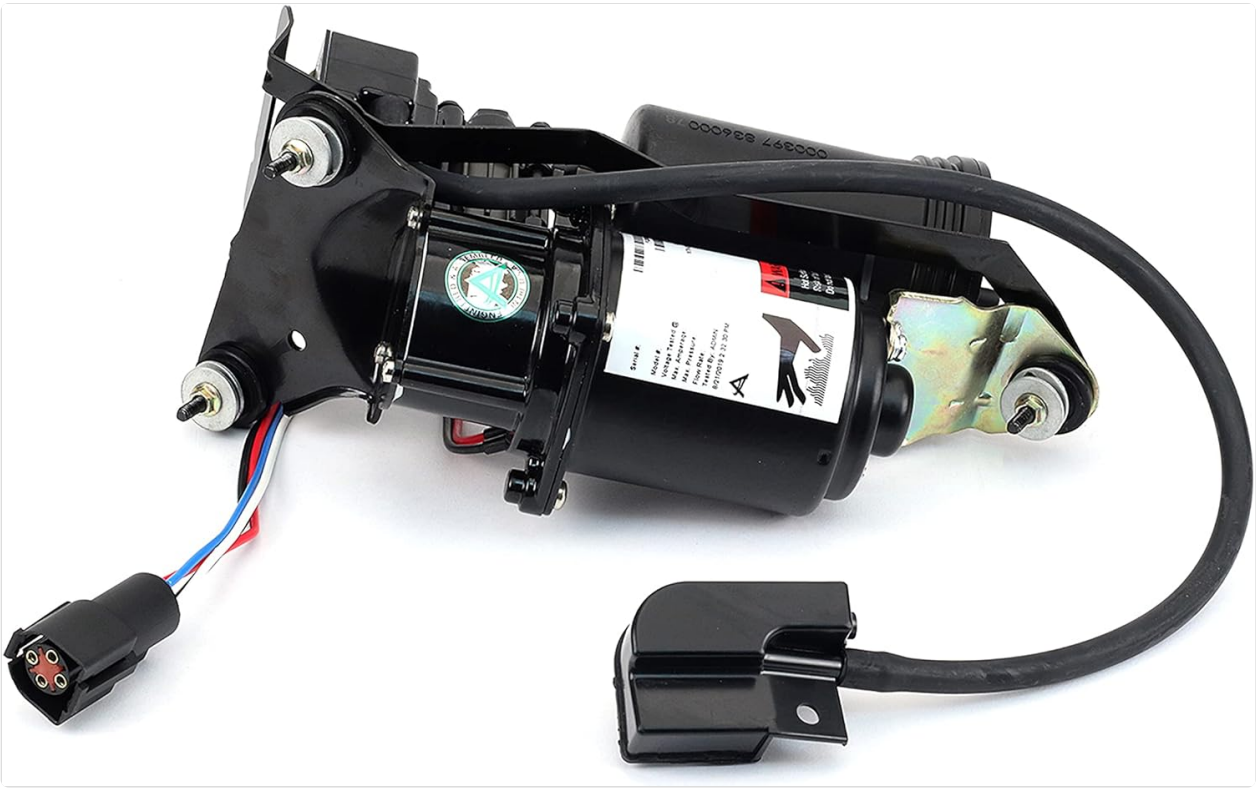

Image 4.1: Side view of the Arnott P-2935 Air Suspension Compressor. This angle highlights the robust mounting bracket and the integrated electrical connections.

While specific step-by-step instructions are beyond the scope of this general manual, the following points are critical:

- Always refer to your vehicle's specific service manual for detailed removal and installation procedures.
- Ensure all connections, including electrical and air lines, are secure and free from leaks after installation.
- After installation, some vehicles require suspension initialization. Refer to the proper service manual for your vehicle's process. Examples of suspension initialization include turning the wheel lock to lock, or driving the vehicle over a particular speed.

Image 4.2: Arnott P-2935 Air Suspension Compressor in its original packaging. This image shows the compressor unit as it would appear when unboxed, emphasizing genuine Arnott branding.

5. Operation

The Arnott P-2935 Air Suspension Compressor operates automatically, controlled by your vehicle's air suspension system. It maintains the correct ride height by supplying compressed air to the air springs as needed.

- The compressor will activate when the vehicle's ride height sensors detect a drop below the programmed level.
- Normal operation may involve intermittent activation, especially after loading the vehicle or during changes in temperature.
- Unusual noises, frequent cycling, or failure to maintain ride height may indicate a system issue requiring

inspection.

Image 5.1: Alternative view of the Arnott P-2935 Air Suspension Compressor. This perspective provides a closer look at the motor and various components, including the heavy-duty construction.

6. Maintenance

The Arnott P-2935 Air Suspension Compressor is designed for durability and a long service life, featuring a heavy-duty motor and an epoxy electro-coated finish to prevent corrosion. Regular maintenance of the overall air suspension system is crucial for the longevity of the compressor.

- **System Inspection:** Periodically inspect air lines, connections, and air springs for any signs of leaks, cracks, or damage. Address any issues promptly to prevent overworking the compressor.
- **Dryer Function:** The integrated dryer helps remove moisture from the air system. Ensure the system remains sealed to prevent excessive moisture ingress.
- **Cleanliness:** Keep the compressor area free from excessive dirt and debris to ensure proper ventilation and operation.

7. Troubleshooting

If you experience issues with your air suspension system, consider the following common troubleshooting steps:

- **Compressor Not Activating:** Check fuses and relays related to the air suspension system. Verify electrical connections to the compressor.

- **Vehicle Not Reaching Ride Height:** Inspect air springs, air lines, and valve block for leaks. A significant leak will prevent the system from pressurizing.
- **Compressor Running Constantly:** This often indicates a leak in the air suspension system, causing the compressor to overwork to maintain pressure. Refer to the "Prior to Installation: Diagnosis Checklist" in Section 3 for a thorough inspection.
- **Unusual Noises:** Investigate any grinding, squealing, or excessive vibration. This could indicate a mechanical issue with the compressor or its mounting.

For persistent issues, consult a qualified automotive technician or contact Arnott customer support.

8. Product Specifications

Feature	Specification
Brand	Arnott
Model Number	P-2935
Item Weight	7 pounds
Product Dimensions	8.38 x 9.75 x 7.75 inches
Exterior	Machined
Special Features	Heavy Duty
OEM Part Number	LINCOLN%F8VZ5319AA
Includes	Dryer, Intake Air Hose

9. Warranty and Support

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**.
For customers in the EU, please call **+31 (0)73 7850 580** or email **info@arnotteurope.com**.
Please retain your proof of purchase for warranty claims. The warranty may be voided if the product is installed incorrectly or if underlying system issues (such as cracked air springs) are not addressed, leading to compressor failure.

Related Documents - P-2935

Arnott Air Suspension Parts Catalog 2020 | Premium Auto Parts
Explore the Arnott Air Suspension 2020 Parts Catalog, featuring a comprehensive range of air springs, struts, compressors, and conversion kits for luxury vehicles. Trusted quality and innovation for over 30 years.

	[Arnott Rear Air Spring A-2220 Installation Manual for Lincoln Town Car, Ford Crown Victoria, Mercury Grand Marquis] Installation manual for Arnott Rear Air Spring model A-2220, compatible with 1990-2011 Lincoln Town Car and 1992-2011 Ford Crown Victoria/Mercury Grand Marquis. Includes removal and installation instructions, safety precautions, and contact information.
	[Arnott Air Suspension Compressor Relay Service Bulletin 21-8695] Technical service bulletin from Arnott regarding the mandatory replacement of the air suspension compressor relay for various Audi, Jaguar, Mercedes-Benz, Land Rover, BMW, Volkswagen, and Porsche models to prevent damage and warranty issues. Includes specific relay locations for each vehicle model.
	[Arnott AS-2786 Front Left Air Strut Installation Manual for Mercedes-Benz E-Class (W211) and CLS-Class (W219)] Comprehensive installation guide for the Arnott AS-2786 front left air strut, designed for Mercedes-Benz E-Class (W211) and CLS-Class (W219) vehicles equipped with AIRMATIC suspension (excluding 4MATIC and AMG models). Includes detailed removal steps, safety precautions, and contact information.
	[Arnott Compressor Relay Service Bulletin 29-9694 for BMW Vehicles] Technical service bulletin from Arnott detailing the 29-9694 compressor relay replacement for various BMW models, emphasizing warranty and damage prevention. Includes relay locations for BMW 5 Series, X5, X6, and 7 Series.
	[Arnott AS-3285 Rear Air Shock Installation Manual for Infiniti QX56/QX80 & Nissan Armada] Detailed installation manual for the Arnott AS-3285 New Rear Air Shock, designed for Infiniti QX56/QX80 (Z62) and Nissan Armada (Y62) vehicles. Includes step-by-step removal and installation instructions.