

Stabilus 084875

Stabilus 084875 Gas Spring Instruction Manual

Model: 084875

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1. PRODUCT OVERVIEW

The Stabilus 084875 Gas Spring is a high-quality component designed to optimize opening, closing, lifting, lowering, and adjusting mechanisms. As a product from a world leader in gas springs and dampers, it provides reliable assistance and protection against vibrations. This manual provides essential information for the safe and effective use of your Stabilus gas spring.



Figure 1: Stabilus 084875 Gas Spring, a black cylindrical component with a slender rod extending from one end, designed to assist in lifting and holding applications.

2. KEY FEATURES

- **Stabilus Original Quality:** Manufactured to high standards for durability and performance.
- **Optimal Length:** Total extended length of 385.00 mm for various applications.
- **Extension Force:** Provides a robust extension force of 900 Newtons.
- **Model Number:** Identified by Stabilus Article Number 084875.
- **Material:** Constructed from durable Alloy Steel.
- **Color:** Black finish.

3. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of the gas spring. It is recommended that installation be performed by a qualified professional if you are unsure of the procedure.

3.1 Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the area is clear and stable before beginning installation.
- Never attempt to open, heat, or modify the gas spring, as it contains pressurized gas.
- Support the component (e.g., trunk lid, hood) that the gas spring will assist before removing the old unit.

3.2 Installation Steps (General)

1. **Identify Mounting Points:** Locate the existing mounting points on your application.
2. **Remove Old Gas Spring (if applicable):** Carefully detach the old gas spring from its mounting points. This may require a small flat-head screwdriver or a specialized tool to release retaining clips. Ensure the component is securely supported before removal.
3. **Compare Dimensions:** Before installing, compare the dimensions of the new Stabilus 084875 gas spring with the old one and the application's requirements. Refer to the technical drawing below.
4. **Attach New Gas Spring:** Securely attach the new gas spring to the designated mounting points. Ensure the rod end is typically mounted to the moving part and the cylinder end to the stationary part, though this can vary by application. The ball sockets should snap firmly onto the ball studs.
5. **Test Functionality:** Slowly operate the component (e.g., open and close the trunk lid) to ensure the gas spring functions smoothly and correctly. Check for any binding or unusual noises.

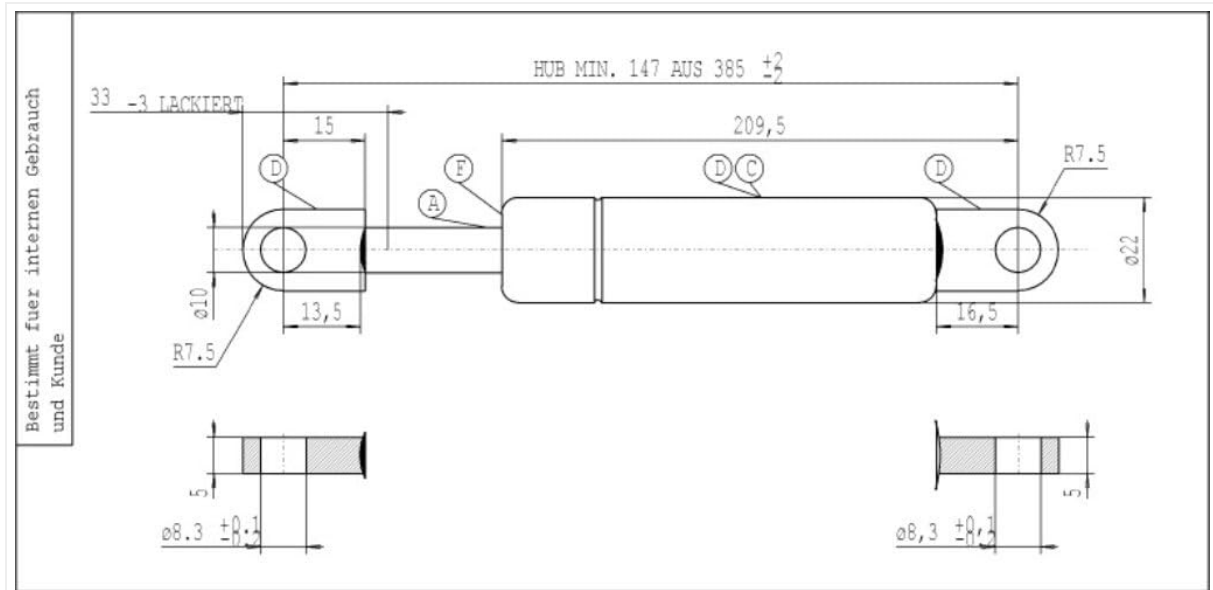


Figure 2: Technical drawing of the Stabilus 084875 Gas Spring, showing key dimensions including overall length (385 mm), stroke (147 mm), and mounting point diameters (10 mm and 22 mm). This diagram is essential for proper installation and fitment.

4. OPERATING INSTRUCTIONS

The Stabilus 084875 Gas Spring operates passively by providing assistance during the opening and closing of a component. It stores energy when compressed and releases it when extended, making heavy lids or doors feel lighter and easier to manage.

- **Opening:** When the component is lifted, the gas spring extends, providing a controlled and assisted opening motion.
- **Holding:** The gas spring holds the component securely in its open position, preventing it from falling unexpectedly.
- **Closing:** When the component is pushed down, the gas spring compresses, offering resistance for a smooth and controlled closing action.

No active user input is required for the gas spring to function once installed correctly.

5. MAINTENANCE

Stabilus gas springs are designed to be maintenance-free under normal operating conditions. However, periodic inspection can help ensure longevity and proper function.

- **Visual Inspection:** Periodically check the gas spring for any signs of damage, such as dents, bends,

or corrosion on the cylinder or rod.

- **Leak Detection:** Look for any oily residue around the rod seal, which could indicate a gas leak. A leaking gas spring will lose its force over time.
- **Mounting Points:** Ensure that the mounting points are secure and free from wear or damage.
- **Cleanliness:** Keep the rod clean and free from dirt, dust, or debris, as this can damage the seal. Wipe with a clean, damp cloth if necessary. Do not use abrasive cleaners.

If any issues are detected, refer to the Troubleshooting section or contact Stabilus support.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your gas spring.

Problem	Possible Cause	Solution
Component does not stay open or falls quickly.	Loss of gas pressure (worn out gas spring).	Replace the gas spring.
Component is difficult to close.	Gas spring is too strong for the application, or incorrect model.	Verify the gas spring model is correct for your application. If not, replace with the appropriate force rating.
Squeaking or grinding noise during operation.	Dry or worn mounting points; dirt on the rod.	Lubricate mounting points (if applicable and safe). Clean the rod. If noise persists, inspect for damage.
Visible oil leakage around the rod.	Damaged seal.	Replace the gas spring immediately.

If the problem persists after attempting these solutions, contact Stabilus customer support or a qualified technician.

7. TECHNICAL SPECIFICATIONS

Attribute	Detail
Model Name	LIFT-O-MAT®
Item Model Number	084875
Manufacturer Part Number	084875
Brand	Stabilus
Color	Black
Material	Alloy Steel
Extended Length	385 Millimeters
Operating Force	900 Newtons
Item Weight	350 g

Attribute	Detail
Package Dimensions	48.7 x 4.6 x 4.6 cm
Auto Part Position	Front (<i>Note: This may vary based on specific vehicle application.</i>)
Global Trade Identification Number (GTIN)	04046577014008

8. WARRANTY AND SUPPORT

8.1 Warranty Information

Specific warranty terms for the Stabilus 084875 Gas Spring are provided by Stabilus. Please refer to the official Stabilus website or contact their customer service for detailed warranty information, including coverage period and conditions.

8.2 Customer Support

For technical assistance, product inquiries, or to report an issue, please contact Stabilus directly through their official support channels. Always provide your product model number (084875) and any relevant purchase details when seeking support.

You can typically find contact information on the official Stabilus website: www.stabilus.com