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douper DP057-GAS

Douper 100N/22lb Gas Spring Hinge Instruction Manual

Model: DP057-GAS

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Douper 100N/22lb Gas Spring Hinges. These hinges are specifically designed to provide a controlled, slow-down motion for drop-leaf doors on cabinets, desks, and other furniture, preventing abrupt and potentially damaging closure. Please read these instructions carefully before beginning installation to ensure safe and effective use.

Product Overview

The Douper 100N/22lb Gas Spring Hinges are engineered for durability and smooth operation. Each pack contains two gas spring hinges, along with the necessary mounting screws, designed to support drop-leaf doors weighing between 2.8 lbs and 14 lbs (1.27 kg to 6.35 kg). The hinges are constructed from solid brass and iron with a chrome finish, ensuring long-lasting performance and resistance to corrosion.

Key Features:

- **Soft Drop-Down Mechanism:** Designed to gently damper the closing rate of drop-leaf doors, preventing sudden drops and potential damage or injury.
- **Automatic Extension:** The hinge extends automatically as the door is opened, providing support and stability.
- **Durable Construction:** Made from solid brass and iron with a chrome-plated finish for enhanced durability and corrosion resistance.
- **Adjustable Opening Positions:** Supports opening positions at 75°, 90°, and 105° for versatile application.
- **Weight Capacity:** Optimized for drop-leaf doors weighing between 2.8 lbs and 14 lbs.



Image: A pair of Douper 100N/22lb Gas Spring Hinges, showcasing their design and chrome finish.



Image: The Douper Gas Spring Hinges shown with their retail packaging and included mounting screws.

Specifications

Attribute	Detail
Brand	Douper
Model Number	DP057-GAS
Material	Zinc (Solid Brass and Iron internal components)
Finish Type	Chrome
Mounting Type	Door Mount
Recommended Door Weight	2.8 lbs to 14 lbs (1.27 kg to 6.35 kg)

Attribute	Detail
Overall Length (Compressed)	7.9 inches (approx. 20 cm)
Overall Length (Stretched)	11.4 inches (approx. 29 cm)
Travel Distance	3.5 inches (approx. 8.9 cm)
Item Weight (per hinge)	Approximately 4.95 ounces (140 grams)
Number of Pieces	2 (per pack)
Included Components	Gas Spring Hinges (2), Mounting Screws, Installation Instructions



Image: A visual representation of the hinge dimensions, showing 8-5/8 inches compressed and 11-3/16 inches stretched.

Setup and Installation

Proper installation is crucial for the optimal performance of your Douper Gas Spring Hinges. While detailed instructions are included with your product, here are general guidelines and important considerations:

Before You Begin:

- **Verify Door Weight:** Ensure your drop-leaf door weighs between 2.8 lbs and 14 lbs. Hinges may not function optimally outside this range.
- **Tools Required:** You will need a drill, appropriate drill bits, a screwdriver, a measuring tape, and a pencil for marking.
- **Additional Hinges:** These gas springs are designed to dampen motion and provide support. Standard door hinges (not included) are typically required to bear the primary weight and allow the door to pivot.

Installation Steps:

1. **Determine Mounting Position:** Carefully review the included installation instructions for precise measurements in millimeters. These instructions will guide you on where to mount the hinge plates on both the cabinet frame and the drop-leaf door.
2. **Mount Cabinet Side:** Attach the upper mounting bracket of the gas spring to the inside of the cabinet frame using the provided screws. Ensure it is securely fastened and aligned correctly.
3. **Mount Door Side:** With the door in its closed or partially open position, align the lower mounting bracket of the gas spring to the drop-leaf door. It is often easier to attach the door hardware first, then extend the piston to mark and screw into the cabinet interior.
4. **Secure All Screws:** Once both ends of the gas spring are aligned and marked, pre-drill pilot holes if necessary, and then securely fasten all screws.
5. **Test Operation:** Gently open and close the drop-leaf door to ensure smooth, controlled motion. The hinge should slow the descent and provide support when open.

Important Note: *Some users have found it effective to first measure and install the door-side hardware (approximately 3.5 inches from the edge, depending on your specific setup), then extend the gas spring to its full length and mark the corresponding position on the cabinet interior for the upper bracket. Always refer to the detailed schematic provided with your product for exact measurements.*



Image: Gas spring hinges installed inside a cabinet, demonstrating the soft closing function for a drop-down door.



Image: Illustration of various mounting angles (75°, 90°, 105°) for the gas spring hinge, allowing for different door opening positions.



Image: A close-up view highlighting the thickened mounting bracket and the solid brass construction of the gas spring, indicating its pressure rating of 100N and suitability for 2.8lbs to 14lbs drop leaf.

Operating Instructions

The Douper Gas Spring Hinges are designed for simple and intuitive operation once correctly installed.

- **Opening the Door:** Gently pull the drop-leaf door downwards. The gas spring will automatically extend, providing controlled resistance and preventing the door from falling open too quickly.
- **Holding Position:** Depending on the mounting angle chosen during installation, the hinge will help hold the door in its open position (75°, 90°, or 105°), providing a stable surface.
- **Closing the Door:** To close the door, gently push it upwards. The gas spring will compress, allowing for a smooth and controlled closure without slamming.



Image: A cabinet with a drop-down door demonstrating the soft closing feature provided by the gas spring hinges.



Image: A gas spring hinge shown extending automatically as a cabinet door is opened, illustrating its support function.

Maintenance

The Douper Gas Spring Hinges are designed for minimal maintenance. Following these simple steps will help ensure their longevity and continued smooth operation:

- **Regular Cleaning:** Wipe the hinges periodically with a soft, damp cloth to remove dust and grime. Avoid abrasive cleaners or solvents that could damage the chrome finish.
- **Check Fasteners:** Occasionally check all mounting screws to ensure they remain tight. Loose screws can affect hinge performance and stability.
- **Inspect for Damage:** Visually inspect the gas springs and mounting brackets for any signs of wear, bending, or damage. If any damage is observed, consider replacing the hinge.
- **Avoid Overloading:** Do not exceed the recommended door weight of 14 lbs, as this can strain the hinges and reduce their lifespan.

Troubleshooting

If you encounter issues with your Douper Gas Spring Hinges, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Door drops too quickly or slams shut.	Door weight exceeds recommended limit (over 14 lbs). Incorrect installation angle or position. Hinge is damaged or worn.	Verify door weight is within 2.8 lbs to 14 lbs. If heavier, these hinges are not suitable. Re-check installation measurements and angles according to the provided instructions. Inspect hinges for damage; replace if necessary.
Door does not stay open or requires excessive force to close.	Door weight is too light (under 2.8 lbs). Incorrect installation angle or position. Obstruction preventing full movement.	Verify door weight. If lighter, the hinge may provide too much resistance. Re-check installation measurements and angles. Ensure the hinge can fully extend and compress. Check for any objects or parts of the cabinet/door that might be obstructing the hinge's movement.
Hinges appear loose or wobbly.	Mounting screws are loose. Mounting surface is damaged or weak.	Tighten all mounting screws. Do not overtighten. If the mounting surface is damaged, reinforce it or relocate the hinge if possible.

Warranty and Support

For specific warranty information regarding your Douper Gas Spring Hinges, please refer to the documentation included with your purchase. Warranty terms typically cover manufacturing defects and material flaws under normal use.
If you require further assistance, have questions about installation, or need to report a defective product, please contact Douper customer support through the retailer where you purchased the product or visit the official Douper brand store online.
Douper Brand Store: Visit the Douper Store on Amazon

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