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douper DP057-TATAMI-250N

Douper 250N Gas Struts Instruction Manual

Model: DP057-TATAMI-250N
Brand: douper

1. Product Overview

The Douper 250N Gas Struts are heavy-duty soft-close lid supports designed to provide safe and controlled opening and closing for various types of lids, such as toy boxes, tatami storage, window seats, and other chests. These pneumatic lid lifters prevent lids from slamming shut, protecting users from injury and extending the lifespan of your furniture.



Image: Douper 250N Gas Struts providing soft-close functionality on a wooden chest lid.

2. Specifications

Feature	Detail
Brand	douper
Model Number	DP057-TATAMI-250N
Pressure/Force	250N
Weight Limit (per strut)	40 Pounds
Weight Limit (per pair)	Up to 80 Pounds
Finish Type	Unfinished
Mounting Type	Face Mount
Hole Count	5
Opening Angle	75° - 105° (Adjustable)
Construction	Gas Spring
Material	Cold-rolled steel

3. Package Contents

Each package contains the following items:

- 2 x Douper 250N Gas Struts
- Mounting Accessories (screws, brackets)
- Installation Manual



Image: Package contents including two gas struts, mounting hardware, and manual.

Your browser does not support the video tag.

Video: Unboxing of Douper Heavy Duty Gas Struts (200N model shown, similar to 250N). This video demonstrates the package contents and initial look at the product.

4. Safety Information

- Ensure proper installation according to the provided measurements to prevent malfunction and potential injury.
- Keep fingers and other body parts clear of moving parts during operation to avoid pinching or crushing.
- Do not exceed the specified weight limits for the lid (40 lbs per strut, 80 lbs for a pair). Overloading can cause damage to the struts or the furniture.
- Regularly check all screws and connections to ensure they are tight and secure.
- If the struts show signs of damage or wear, replace them immediately.

5. Installation Instructions

Follow these steps carefully for optimal performance and safety. The hinges are designed for a 75° to 105° opening angle. Incorrect placement measurements may affect functionality.

5.1 Prepare for Installation

1. Identify the mounting locations on your lid and the side panel of the furniture.
2. Ensure the surface is clean, dry, and structurally sound to hold the screws.
3. Gather necessary tools: measuring tape, pencil/marker, drill, screwdriver.

5.2 Determine Placement Measurements

Accurate measurements are crucial for correct operation. Refer to the diagram below for guidance. The provided video also demonstrates the measurement process.



Image: Recommended lid open angle for installation (75°-105°).

Your browser does not support the video tag.

Video: Installation guide for Douper Gas Struts (200N model shown, similar to 250N). This video provides visual instructions for measuring

and mounting the struts.

1. **Horizontal Distance (Side Edge to Screw Point 1):** Measure 3 5/8 inches from the side edge of the furniture to the first screw point on the side bracket.
2. **Inside Height (Top Edge to Screw Point):** Measure 5 1/2 inches from the top inside edge of the furniture to the screw point on the side bracket.
3. **Vertical Distance (Bottom Edge to Screw Point on Lid):** Measure 6 1/8 inches from the bottom edge of the lid to the screw point on the lid bracket.
4. **Horizontal Distance (Side Edge to Screw Point 2):** Measure 3 1/8 inches from the side edge of the furniture to the second screw point on the side bracket.

5.3 Mounting the Struts

1. Mark the precise locations for drilling pilot holes based on the measurements.
2. Pre-drill small pilot holes at the marked points to prevent wood splitting.
3. Attach the circular mounting bracket to the side panel of the furniture using the provided screws. Ensure it is securely fastened.
4. Attach the rectangular mounting bracket to the underside of the lid using the provided screws.
5. Connect the gas strut to both the side panel bracket and the lid bracket. The struts are reversible and can be used for left-hand or right-hand mounting.
6. Repeat the process for the second gas strut on the opposite side of the lid.



Image: Reinforced design and reversible mounting for flexible installation.

6. Operating Instructions

Once installed, the Douper 250N Gas Struts will assist in opening and gently closing your lid.

- **Opening:** Gently lift the lid. The gas struts will engage and assist in lifting the lid, holding it open at the set angle (between 75° and 105°).
- **Closing:** Apply slight downward pressure to the lid. The soft-close mechanism will slow the descent, preventing abrupt slamming.



Image: Soft-close feature in action, ensuring gentle lid closure.



Image: Visual representation of the lid's controlled closing motion.

7. Maintenance

To ensure the longevity and continued smooth operation of your Douper Gas Struts, perform the following maintenance checks periodically:

- **Cleaning:** Wipe the struts with a soft, damp cloth to remove dust and debris. Avoid abrasive cleaners or solvents.
- **Fastener Check:** Periodically inspect all mounting screws to ensure they are tight. Re-tighten if necessary.
- **Functionality Check:** Test the opening and closing mechanism to ensure it operates smoothly and the lid stays open at the desired angle.

8. Troubleshooting

If you encounter issues with your Douper Gas Struts, consider the following common problems and solutions:

- **Lid does not stay open or closes too quickly:**
  - Verify that the lid's weight does not exceed the maximum capacity (40 lbs per strut, 80 lbs for a pair).
  - Check if the installation measurements were followed precisely. Incorrect placement can reduce the effective support.
  - Ensure both struts are installed and functioning correctly.
- **Lid is difficult to close or stays open too much:**
  - Confirm the lid's weight is within the recommended range. If the lid is too light, the struts may exert too much force.
  - Review the installation angles. The struts are designed for 75°-105° opening. If the lid opens beyond this, it might not close easily.
- **Screws are loose or stripped:**
  - Re-tighten any loose screws. If a screw is stripped, consider using a larger screw or wood filler to secure it.

9. Warranty and Support

Douper products are manufactured with quality and durability in mind. For any questions, concerns, or warranty inquiries regarding your 250N Gas Struts, please contact Douper customer support through the retailer where you purchased the product or visit the official Douper website for assistance.

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