

Soft Close Gas Springs Mounting Instructions

Caution:

- Compatibility Check:** Theoretically, a set of Soft Close gas springs is capable of efficiently **SLOW CLOSING** (NOT Lifting) a lid weighing up to 33 lb (150N). To ensure compatibility, the recommended side length for the box or door height is less than 30 inches.
- Inspection Upon Receipt:** To ensure you get the correct product, check these measurements: Compressed Length (8.3 inches), Extended Length (14.2 inches), and Stroke Length (5.9 inches). Each strut comes with 5 screws and 2 brackets. All you need for installation is a screwdriver and a drill.
- Safety Caution:** It's HIGH PRESSURE inside, DO NOT open it, DO NOT approach the high temperature, DO NOT scratch, dent, chip, bend, or paint the Rod, and DO NOT puncture or incinerate it.
- Installation Tips:** During the installation process, make sure that the end fittings are aligned properly. This ensures that side load forces are not applied due to misalignment, optimizing the safety and lifespan of the gas spring. Besides, **ROD UP INSTALLATION IS THE KEY TO SOFT CLOSE.**

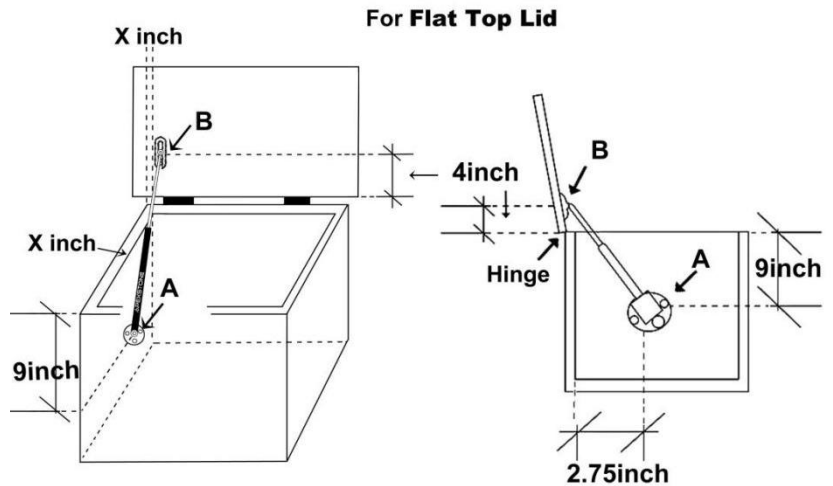
Installation Steps

Step 1: Open the top panel or lid to approximately a 95-degree angle.

Step 2: Prepare a pen, determine the Mounting Points.

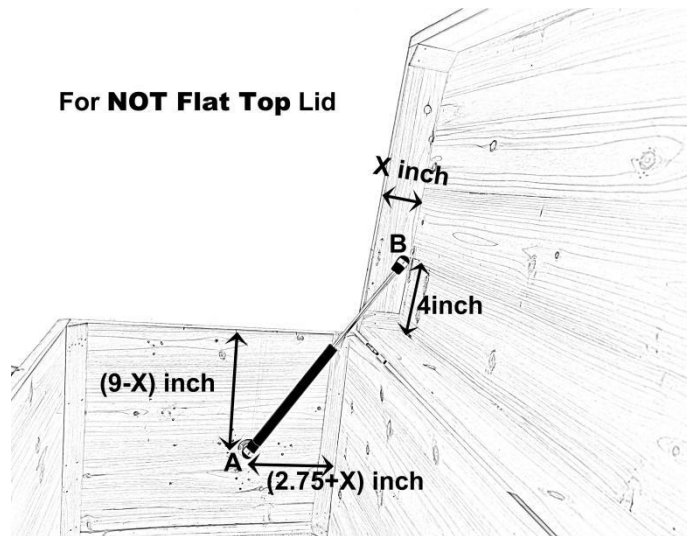
● For Flat Top Lid

Mark Lower Mounting **Point A**, approximately 9 inches vertically from box edge, about 2.75 inches towards the box inner side. Then, extend the strut to maximum length and mark Upper Mounting **Point B**, about 4 inches vertically from the hinge direction, ensuring alignment with **Point A**.



● For Non-Flat Top Lid

Please account for the lid depth, X inches. Mark Lower Mounting **Point A**, approximately (9-X) inches vertically from box edge and (2.75+X) inches towards the box inner side. Then, extend the strut to maximum length and mark Upper Mounting **Point B**, about 4 inches vertically from the hinge direction, ensuring alignment with **Point A**.



Step 3: Pre-drill the hole marked before, install round bracket at **Point A**. Then, install the rectangle bracket at **Point B**.

Step 4: Prepare the gas strut with the **Rod UP**.

Step 5: Attach the strut to the ball mount by snapping the strut end fittings onto the ball studs.

Step 6:

- For a lid weighing less than 11 pounds, consider using a single gas strut.
- For a lid weighing more than 11 pounds, it's recommended to install two struts. Repeat above process on the opposite side to complete the installation.

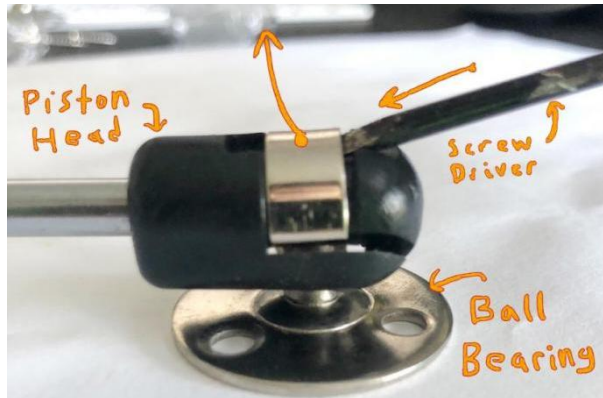
If satisfactory performance is not achieved, adjustments may be necessary. Please refer to the next page for guidance.

Step 7: Test the performance by opening and closing the lid cover several times to ensure smooth operation and secure joint connections.

Adjustment Method

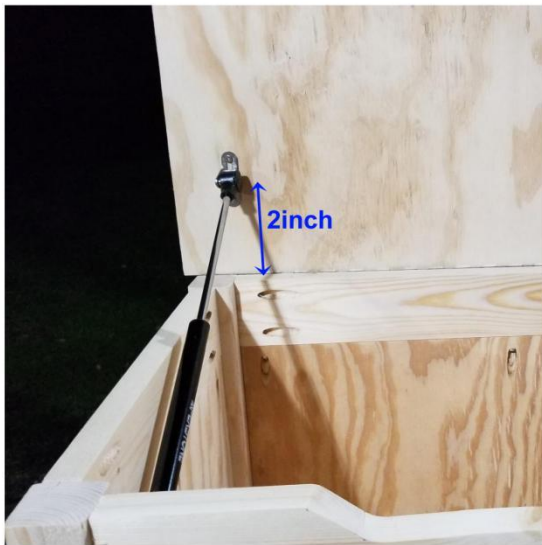
If the lid closes too slowly because it's lightweight, or if it's a very heavy lid that doesn't slow down when closing, adjusting the mounting points can improve its performance.

1. Keep Lid Open Angle Stay the Same.
2. Slide the flat blade screwdriver slowly into the slot under retaining clip of the piston head, then pull it back so that you can release (**NOT REMOVE. It is challenge to reinstall**) the clip and remove the piston head from the ball bearing without ease.
3. Move the brackets to the new mounting position according to the following rule.

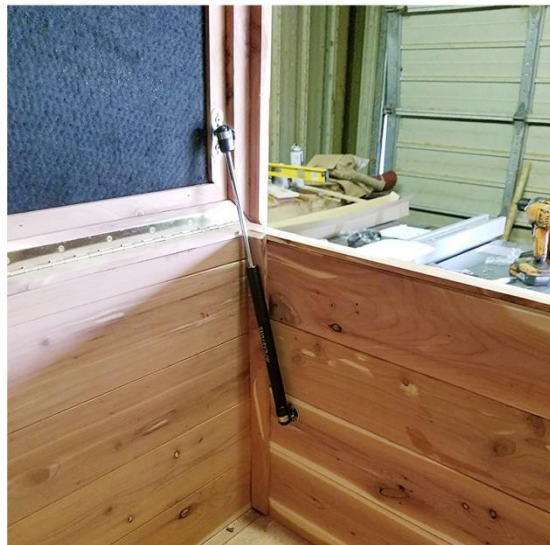


Adjusting Direction

1. **For lighter lid:** If you find it still difficult to close the door and desire quicker closure of the light lid, shift Upper Mounting Point downward by 2 inch, orienting the installation more horizontally, as shown in the left figure.
2. **For heavier lid:** If you want to slow down the closing of a heavy lid, adjust the mounting point to a more vertically oriented, as illustrated in the Right Figure. Also, you can install 3 hinges when necessary.



Lighter Lid
Install 1 Strut More Horizontally



Heavier Lid
Install 2 to 3 Struts More Vertically

Need help from us?

Message us via: alvinluo2013@gmail.com

For additional technical information on mounting or any other questions, please feel free to email us. Our specialized support team is more than happy to assist you.