

How to Install Gas Spring

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Contents

Tools Required

- tape measure
- pencil
- drill
- screwdriver
- support prop

Hardware Required

- Gas Spring
- mounting brackets
- retaining clips

Key Measurements

- door weight
- door height
- force rating
- stroke length
- bracket distance
- opening angle

Related Installation Guides

- [How to Install Adjustable Stay](#)
- [How to Install Bi Fold Lift System](#)
- [How to Install Cabinet Lift System](#)
- [How to Install Chest Lid Support](#)
- [How to Install Door Stay](#)
- [How to Install Downward Opening Flap Hardware](#)

Related Resources

- [Related Product: Gas Spring](#)
- [Related FAQ: Gas Spring](#)

Need OEM installation support?

Use this guide as a planning reference, then request support for drawings, samples, and production installation checks for Gas Spring.

[Request Installation Support](#)

Product Installation Overview

Gas Spring installation requires bracket position, pivot point distance, opening angle, panel weight, support force, and careful left-right symmetry in the Lift Systems, Flap Fittings, Lid Supports, and Gas Struts assembly.

For B2B furniture production, use this Gas Spring guide to standardize marking, drilling, mounting, fastening, and final inspection before the hardware is approved for cabinet, panel, or furniture assembly.

Important installation note:

This is only a simple installation tutorial. Specific adjustments should be made according to the actual furniture, panel material, and hardware specifications.

Product

Gas Spring

Category

Lift Systems, Flap Fittings, Lid Supports, and Gas Struts

Installation profile

Lift System, Stay, and Gas Strut Installation

Priority

84

Industry Data

Use these installation signals to prepare tools, verify measurements, and avoid common alignment or fastening mistakes before production use.

- **Tools to prepare:** tape measure, pencil, drill, screwdriver and support prop Prepare these before drilling or fastening the hardware.
- **Measurement checks:** door weight, door height, force rating and stroke length Confirm these measurements against the panel, door, drawer, or frame before installation.
- **Hardware and supplies:** Gas Spring, mounting brackets and retaining clips Check compatibility with the actual furniture material and order specification.
- **Step sequence:** Confirm door or lid weight and opening direction, Mark bracket pivot points on the cabinet and moving panel, Drill pilot holes and install mounting brackets, Attach the arm and Open and close the panel to test travel Follow the sequence

so alignment errors are caught before final tightening.

Gas Spring

Detailed Gas Spring Installation Tutorial

Before You Start

Before installing Gas Spring, dry-fit Gas Spring on the furniture part and confirm the door weight reference. Mark from one clean datum edge, not from a damaged corner, so repeated pieces land in the same position. Check door weight, opening angle, bracket spacing, and left-right symmetry before mounting brackets.

Installation Method

During the Gas Spring work, use tape measure first, then drill or fasten gradually. Keep the hardware square to the panel, leave adjustment screws loose until alignment is checked, and compare the result with the Lift System, Stay, and Gas Strut Installation profile requirements. Support the lid or door while brackets and strut clips are fixed into position.

Final Check

After Gas Spring is mounted, operate, pull, load, or lock the part in the same direction a user will use it. Recheck gaps, screw seating, clearance, and surface damage before approving the Gas Spring installation for production. Move slowly through the full arc and confirm the panel stays controlled at the intended angle.

Visual Step-by-Step Installation Guide

Step 1 of 6: Confirm door or lid weight and opening direction

Lift System, Stay, and Gas Strut Installation diagram for Gas Spring, synchronized with the six installation steps and showing cabinet door/lid, cabinet side panel, arm/strut, brackets, pivot points, opening arc, force arrow.

Step by Step Installation Instructions

1. 1

Confirm door or lid weight and opening direction For Gas Spring, mark bracket centers from the hinge side and check door weight, opening angle, and handedness. Use tape measure for this operation and keep "door weight" as the main measurement check. Keep Gas Spring in position without fully forcing it until the alignment is verified. Before moving to the next step, confirm the reference line is visible, repeatable, and matches the product title and drawing requirement.

2. 2

Mark bracket pivot points on the cabinet and moving panel For Gas Spring, pre-drill bracket screws while supporting the lid or door in a safe temporary position. Use pencil for this operation and keep "door height" as the main measurement check. Keep mounting brackets in position without fully forcing it until the alignment is verified. Before moving to the next step, confirm the hole, cutout, or prepared surface is clean and does not break through the finished face.

3. 3

Drill pilot holes and install mounting brackets For Gas Spring, mount body and rod brackets at the measured pivot points without snapping the strut on yet. Use drill for this operation and keep "force rating" as the main measurement check. Keep retaining clips in position without fully forcing it until the alignment is verified. Before moving to the next step, confirm the hardware sits flush against the panel without rocking or twisting.

4. 4

Attach the arm, stay, or gas strut For Gas Spring, clip the strut onto the brackets and confirm the retaining clips lock over the ball studs. Use screwdriver for this operation and keep "stroke length" as the main measurement check. Keep Gas Spring in position without fully forcing it until the alignment is verified. Before moving to the next step, confirm fasteners are seated firmly without stripping, crushing, or shifting the hardware.

5. 5

Open and close the panel to test travel For Gas Spring, adjust bracket slots or paired struts so left and right support the panel evenly. Use support prop for this operation and keep "bracket distance" as the main measurement check. Keep mounting brackets in position without fully forcing it until the alignment is verified. Before moving to the next step, confirm the gap, reveal, height, and working clearance are even from the front and side.

6. 6

Adjust bracket position or force rating if the panel drops or lifts too aggressively For Gas Spring, open and close slowly through the whole arc to confirm controlled lift and closing force. Use tape measure for this operation and keep "opening angle" as the main measurement check. Keep retaining clips in position without fully forcing it until the alignment is verified. Before moving to the next step, confirm movement, holding strength, and safety are acceptable before production approval.

Common Installation Mistakes

- Mounting Gas Spring brackets without supporting the door or lid.
- Using a force rating that does not match panel weight.
- Setting left and right pivot points at different heights.
- Testing travel before clips and brackets are fully locked.

Safety and Installation Warnings

- Support the door or lid during installation
- gas struts can move suddenly under load.
- Wear eye protection and confirm all measurements before drilling.

Adjustment or Testing Notes

- Open and close Gas Spring slowly and confirm controlled support.
- Check that the panel stays stable at the intended angle.
- Inspect both brackets after repeated movement.

Installation FAQ

What tools are needed to install Gas Spring?

Typical tools include tape measure, pencil, drill, screwdriver, support prop. For production work, add jigs, depth stops, or templates when repeatable positioning is required.

What measurements should be checked before installing Gas Spring?

Check door weight, door height, force rating, stroke length, bracket distance before drilling or fastening. Confirm dimensions against the product drawing and panel thickness.

Can Gas Spring be installed in MDF or plywood furniture?

Most furniture hardware can be installed in MDF, plywood, particle board, or solid wood when the pilot hole, screw length, load rating, and tightening torque match the material.

What is the most common installation mistake for Gas Spring?

Mounting Gas Spring brackets without supporting the door or lid.

Can Gas Spring be ordered for bulk furniture production?

Yes. Use the guide to define installation drawings, samples, tooling, and inspection standards before bulk furniture hardware production.