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Strongarm 6102

Strongarm 6102 Hatch Lift Support Instruction Manual

Model: 6102

1. INTRODUCTION

The Strongarm 6102 Hatch Lift Support is a gas-charged cylinder designed to assist in opening and holding open vehicle hoods, hatches, and rear window glass. These supports are engineered to provide smooth operation and reliable performance, meeting or exceeding original equipment quality standards. For optimal safety and function, it is recommended to replace lift supports in pairs.



Image 1: Strongarm 6102 Hatch Lift Support, packaged. This image shows the lift support alongside its branded cardboard box.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment, such as safety glasses and gloves, when working on vehicles.

- Ensure the hatch, hood, or liftgate is securely supported before removing old lift supports. Use a prop rod or have another person hold it firmly. Unexpected closure can cause serious injury.
- Lift supports are under high pressure. Do not puncture, heat, or attempt to disassemble them.
- Keep hands and fingers clear of pinch points during installation and operation.
- Replace both lift supports simultaneously to ensure balanced support and prevent premature wear on the new unit.

3. PACKAGE CONTENTS

Each Strongarm 6102 package contains:

- 1 x Strongarm 6102 Hatch Lift Support

Note: As recommended in the safety section, it is advisable to purchase and install these lift supports in pairs.

4. SETUP AND INSTALLATION

Installation of the Strongarm 6102 Hatch Lift Support is designed to be straightforward and typically does not require special tools. Basic hand tools such as a flathead screwdriver or a small pry tool may be helpful for removing retaining clips, and a socket wrench for bolts if applicable.

Installation Steps:

1. **Secure the Hatch:** Open the vehicle's hatch, hood, or liftgate to its fully extended position. Securely prop it open using a sturdy support rod or have an assistant hold it firmly. This is critical for safety.
2. **Remove Old Lift Support:** Carefully locate the attachment points of the old lift support. Depending on the design, these may be ball-and-socket connections with retaining clips or bolted brackets. Use a flathead screwdriver to gently pry open any retaining clips. If bolted, use an appropriate socket wrench to loosen and remove the bolts. Remove one lift support at a time.
3. **Install New Lift Support:** Position the new Strongarm 6102 lift support. If it uses ball-and-socket connections, align the new support's ends with the vehicle's mounting points and firmly press them into place until they click. If bolted, align the brackets and re-insert and tighten the original bolts. Ensure all connections are secure.
4. **Repeat for Second Support:** If replacing in pairs, repeat the process for the second lift support. Once both are installed, carefully remove the prop rod or release the assistant's hold.
5. **Test Operation:** Gently open and close the hatch, hood, or liftgate to ensure smooth and proper operation of the new lift supports.

QUICK AND EASY INSTALLATION



1

**HOLD OPEN
THE HATCH**



2

**REMOVE OLD LIFT
SUPPORT**



3

**REPLACE WITH
NEW LIFT SUPPORT**

**NO SPECIAL
INSTALLATION
TOOLS
REQUIRED**

Image 2: Quick and Easy Installation Guide. This image illustrates three steps: 1) Holding open the hatch, 2) Removing the old lift support, and 3) Replacing with the new lift support. It also states "No special installation tools required."

VERSATILE SUPPORT SMOOTHER OPERATION



Image 3: Versatile Support Applications. This diagram shows a vehicle with labels indicating where lift supports are used for the hatch, rear glass, and hood.

5. OPERATING INSTRUCTIONS

Once installed, the Strongarm 6102 Hatch Lift Support operates automatically. When the hatch, hood, or liftgate is opened, the gas-charged cylinder extends to assist in lifting and holding the component in the open position. To close, simply apply downward pressure until the component latches securely.



Image 4: Hatch Operation. A person is shown opening the rear hatch of an SUV, demonstrating the function of the lift support.

6. MAINTENANCE

Strongarm lift supports are designed for long-lasting, maintenance-free performance. However, periodic inspection can help ensure continued optimal function:

- **Visual Inspection:** Regularly check the lift supports for any signs of damage, bending, leaks (oily residue), or corrosion.
- **Cleanliness:** Keep the piston rod clean and free of dirt, dust, or debris, which can affect the seal and operation. Wipe with a clean, damp cloth if necessary.
- **Functionality Check:** Periodically test the lift support's ability to hold the hatch, hood, or liftgate open securely. If it sags or fails to hold, replacement may be necessary.

7. TROUBLESHOOTING

- **Hatch/Hood Sags or Does Not Stay Open:** This is the most common sign of a failing lift support. Ensure both supports are replaced simultaneously. If new supports exhibit this, verify correct installation and that the correct part number was used for your vehicle.

- **Excessive Force Required to Close:** New lift supports may initially require slightly more force to close due to their full gas charge. This typically eases with a few cycles of operation. If the force remains excessive, ensure there are no obstructions or binding in the hinge mechanism.
- **Noisy Operation (Squeaking/Grinding):** Check attachment points for proper seating and lubrication. A small amount of silicone grease on ball studs can sometimes resolve minor squeaks. If noise persists or is accompanied by rough movement, inspect for damage or incorrect installation.

8. SPECIFICATIONS

Feature	Detail
Model Number	6102
Manufacturer	StrongArm
Item Weight	1.2 pounds
Product Dimensions	32 x 3 x 2 inches
Material	Metal
OEM Part Numbers	6895049016, Monroe 901662, Stabilus SG229035
Special Features	Hardened, nitride plated steel shaft; Heavy gauge steel body; Rubber O-ring piston seal; Self-Cleaning Piston Assembly; Upper bushing for exact fit.

STRONGARM[®]
GAS CHARGED LIFT SUPPORTS

**INGENUITY
PERFECT
QUALITY**

**10mm OEM
EXACT SOCKET**

**HIGH QUALITY
OF STEEL**

**NITROGEN
HYDRAULIC
CILYNDER**

Image 5: Product Features. This image highlights key features such as "Ingenuity Perfect Quality," "10mm OEM Exact Socket," "High Quality of Steel," and "Nitrogen Hydraulic Cylinder."



DWARE

UNIVERSAL BRACKETS



GAS SPRINGS

Image 6: Component Details. This image displays the lift support and points out "Universal Brackets" and "Gas Springs."

STRONGARM[®]

GAS CHARGED LIFT SUPPORTS



Provides smoother operation



Delivers longer lasting performance



Direct fit. OEM replacement designs

Image 7: Performance Benefits. This image lists the benefits: "Provides smoother operation," "Delivers longer lasting performance," and "Direct fit. OEM replacement designs."

9. WARRANTY INFORMATION

Specific warranty details for the Strongarm 6102 Hatch Lift Support are not provided in this manual. For information regarding product warranty, please refer to the product packaging or contact Strongarm customer support directly.

10. SUPPORT AND CONTACT

For further assistance, technical support, or inquiries regarding the Strongarm 6102 Hatch Lift Support, please contact Strongarm customer service through their official website or the retailer where the product was purchased.

You can also visit the [Strongarm Store on Amazon](#) for more product information.