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> BOXI Front Hood Lift Supports User Manual

BOXI BXC300042033-2

BOXI Front Hood Lift Supports User Manual

Model: BXC300042033-2

PRODUCT OVERVIEW

These BOXI Front Hood Lift Supports are designed to replace worn or damaged gas springs on the hood of your Dodge Viper Coupe (2013-2017 models). They ensure smooth, controlled opening and closing of the hood, and securely hold it in the open position for safe access to the engine bay. This package includes two (2) lift supports.



Image: A pair of BOXI front hood lift supports, black cylinders with silver rods and eyelet fittings at each end.

SAFETY INFORMATION

Always prioritize safety when working on your vehicle. Ensure the hood is securely supported before beginning any work. Wear appropriate personal protective equipment, such as safety glasses and gloves. Gas springs are under high pressure; do not attempt to open or puncture them.

INSTALLATION GUIDE

Tools Required:

- Flathead screwdriver or small pry tool (for clip removal)
- Assistant (recommended for hood support)

Step-by-Step Installation:

1. **Prepare the Vehicle:** Park the vehicle on a level surface and engage the parking brake. Open the hood and secure

it in the fully open position using a prop rod or have an assistant hold it firmly. This is critical to prevent the hood from falling during the process.

2. **Locate Existing Supports:** Identify the old hood lift supports on both sides of the engine bay.

3. **Remove Old Support (One Side at a Time):**

- Using a flathead screwdriver or pry tool, carefully pry open the metal clips on the ends of the old lift support where they attach to the ball studs.
- Once the clips are disengaged, gently pull the old support off the ball studs.
- *Important: Replace one support at a time to maintain hood stability.*

4. **Install New Support:**

- Align the new BOXI lift support with the ball studs.
- Press the ends of the new support onto the ball studs until they snap securely into place. You should hear or feel a click. Ensure the metal clips are fully engaged around the ball studs.



Image: Close-up view of the end of a lift support, showing the metal clip that secures it to a ball stud.

5. **Repeat for Other Side:** Once the first new support is securely installed, repeat steps 3 and 4 for the other side.

6. **Test Operation:** Carefully lower and raise the hood several times to ensure the new supports function correctly and hold the hood securely in the open position.

MAINTENANCE

BOXI lift supports are designed for long-lasting performance with minimal maintenance. However, periodic inspection can help ensure optimal function and safety.

- **Visual Inspection:** Regularly check the lift supports for any signs of damage, such as bending, dents, or corrosion on the rod or cylinder.
- **Leak Detection:** Look for any oil or fluid leaks around the seals of the cylinder. A leaking support indicates a loss of gas pressure and requires replacement.
- **Attachment Points:** Verify that the ends of the supports are securely attached to the ball studs and that the clips are fully engaged.
- **Cleaning:** Keep the rods clean and free of dirt or debris. Wipe them gently with a clean, damp cloth if necessary. Avoid using harsh chemicals or abrasive materials.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Hood does not stay up or falls slowly.	Worn or failed lift supports (loss of gas pressure).	Replace both lift supports.
Hood is difficult to close.	New supports may be stiff initially; incorrect installation.	Allow for break-in period. Re-check installation to ensure supports are not binding.
Unusual noises (squeaking, grinding) when opening/closing hood.	Misaligned supports or worn attachment points.	Inspect attachment points for wear. Ensure supports are correctly aligned and not rubbing against other components.

SPECIFICATIONS

- **Product Type:** Front Hood Lift Supports (Gas Shocks/Springs/Struts)
- **Quantity:** 2 per package
- **Compatibility:** Dodge Viper Coupe 2013-2017 (2-Door Hood)
- **Extended Length:** 15.10 inches (approximately 38.35 cm)
- **Compressed Length:** 9.45 inches (approximately 24.00 cm)
- **Replaces Part Numbers:** SG314083, 877886, 5B877886W, 5B-877886A, 5B-877886-W, 68139706AA, 68139706, 877886, 5B877886, 5B-877886
- **Manufacturer Part Number:** BXC300042033-2
- **Brand:** BOXI

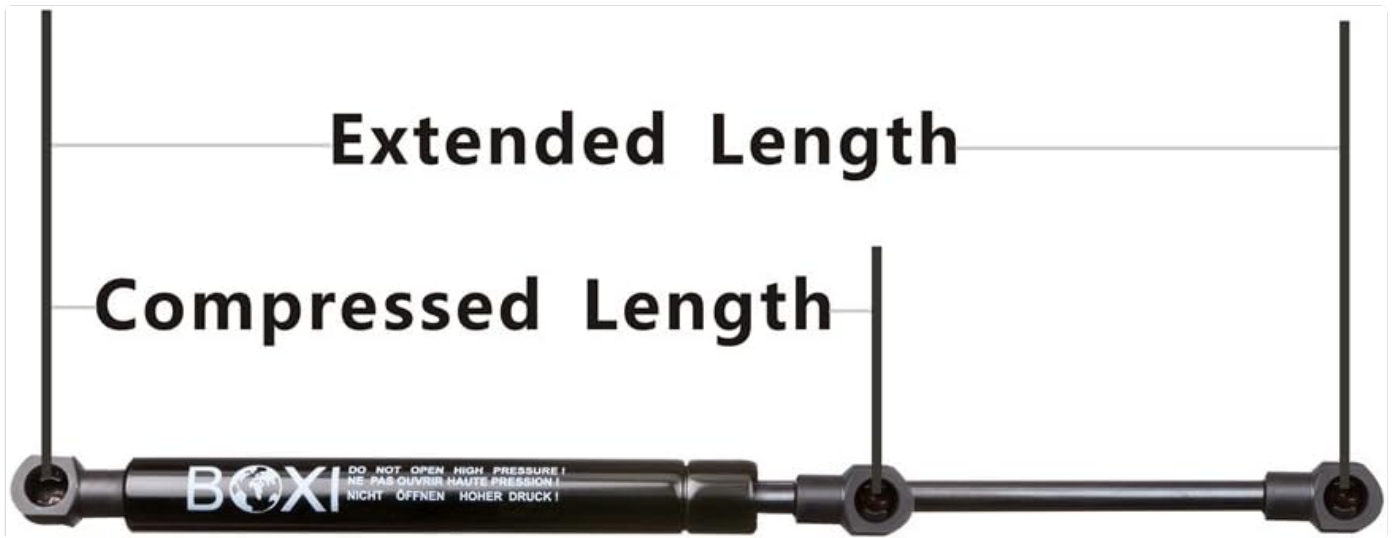


Image: Diagram illustrating the measurement points for extended and compressed lengths of a lift support.

WARRANTY AND SUPPORT

For specific warranty details and customer support, please refer to the information provided at the time of purchase or contact BOXI directly through their official channels. You can often find support information on the manufacturer's website or through the retailer where the product was purchased.

Visit the official BOXI store for more products and support: [BOXI Store on Amazon](#)

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This manual is for informational purposes only. Always consult a professional for complex installations or repairs.