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Instruction Manual: febi bilstein 08240 Gas Spring for Engine Hood

Brand: Febi bilstein | Model: 08240

1. INTRODUCTION AND PRODUCT OVERVIEW

The febi bilstein 08240 Gas Spring is an original febi bilstein spare part designed for engine hood applications. Febi bilstein is a leading manufacturer and supplier of automotive spare parts, known for solutions "Made in Germany" and a commitment to quality and reliability.

This gas spring is engineered to provide reliable support and smooth operation for your vehicle's engine hood, ensuring it stays open securely when needed and closes safely.

2. SAFETY INFORMATION

Important Safety Notice: Installation and maintenance of automotive parts should only be performed by qualified vehicle technicians. Improper installation can lead to serious injury or damage to the vehicle.

- Always consult your vehicle manufacturer's service manual for specific instructions and safety precautions related to your vehicle model.
- Ensure the vehicle is stable and secure before beginning any work.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Never attempt to compress or disassemble a gas spring that is under pressure.

3. PRODUCT DESCRIPTION AND FEATURES

The febi bilstein 08240 Gas Spring is a precision-engineered component designed to match original equipment specifications. It is suitable for various vehicle types, including the BMW 3'er (E30).



Image: febi bilstein 08240 Gas Spring. This image shows the black gas spring with its extended piston rod and mounting eyes at both ends.

Key Features:

- **Original febi bilstein quality:** Manufactured to high standards for durability and performance.
- **Optimal Dimensions:** Length: 254.5 mm; Housing Diameter: 15 mm; Piston Rod Diameter: 6 mm; Lifting Length: 93 mm.
- **Extension Force:** 350 Newton, providing reliable support for the engine hood.
- **Color:** Black, with a durable metal construction.
- **Fitting Side:** Designed for installation on both sides of the engine hood.
- **OE Compatibility:** Cross-referenced with OE number BMW 51 23 1 906 286.

4. SETUP AND INSTALLATION

Installation of the febi bilstein 08240 Gas Spring requires careful attention to detail and adherence to vehicle-specific procedures. It is strongly recommended that this procedure be carried out by a qualified vehicle technician.

General Installation Steps (Consult Vehicle Manual for Specifics):

- 1. Preparation:** Ensure the engine hood is securely propped open using a suitable support tool to prevent accidental closure. Identify the existing gas springs and their mounting points.
- 2. Removal of Old Gas Spring:** Carefully detach the old gas spring from its mounting points. This usually involves prying off retaining clips or unscrewing bolts. Note the orientation of the old spring.
- 3. Installation of New Gas Spring:**
 - Align the new febi bilstein 08240 Gas Spring with the mounting points.
 - Attach one end of the gas spring to its corresponding mounting point, ensuring it clicks or bolts securely into place.
 - Gently compress or extend the gas spring as needed to align the other end with its mounting point. This may require some force.
 - Secure the second end of the gas spring.
- 4. Testing:** Carefully remove the support tool and slowly lower and raise the engine hood to ensure the new gas spring operates smoothly and holds the hood securely in the open position.
- 5. Compatibility Check:** Confirm compatibility using your vehicle's identification number. This part is suitable for models like the BMW 3'er (E30) and corresponds to OE number 51 23 1 906 286.

5. OPERATING PRINCIPLE

The febi bilstein 08240 Gas Spring operates on the principle of compressed gas (typically nitrogen) and oil within a sealed cylinder. When the engine hood is lifted, the gas spring extends, providing assistance and holding the hood in the open position. The internal damping mechanism ensures a controlled and smooth movement, preventing the hood from slamming open or closed.

The 350 Newton extension force indicates the amount of force the spring exerts to extend, which is crucial for counteracting the weight of the engine hood and keeping it open.

6. MAINTENANCE

Gas springs are generally maintenance-free components. However, regular inspection can help ensure their longevity and proper function:

- **Visual Inspection:** Periodically check the gas spring for any signs of damage, corrosion, leaks (oil residue), or bent components.
- **Cleanliness:** Keep the piston rod clean and free from dirt, dust, or debris, as these can damage the internal seals. Wipe with a clean, damp cloth if necessary.
- **Mounting Points:** Ensure that the mounting points are secure and free from rust or wear.
- **Functionality Check:** Test the hood's operation regularly to ensure it opens smoothly and stays securely open. If the hood starts to sag or is difficult to open, the gas spring may need replacement.

7. TROUBLESHOOTING

If you experience issues with your engine hood gas spring, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Hood does not stay open or sags	Worn or failed gas spring (loss of pressure)	Replace the gas spring. It is recommended to replace both gas springs simultaneously for balanced operation.
Hood is difficult to open or close	Incorrect gas spring (too strong/weak), binding at mounting points, or damaged spring.	Verify correct part number (08240) for your vehicle. Inspect mounting points for obstruction or damage. Replace if damaged.
Squeaking or grinding noise	Lack of lubrication at mounting points, or internal spring issue.	Lubricate mounting points with appropriate grease. If noise persists, replace the gas spring.

If troubleshooting steps do not resolve the issue, consult a qualified vehicle technician.

8. SPECIFICATIONS

Attribute	Value
Brand	Febi bilstein
Model Number	08240
OEM Part Number	51 23 1 906 286 (BMW)
Color	Black
Material	Metal
Length	254.5 mm (10.02 inches)
Housing Diameter	15 mm (0.59 inches)
Piston Rod Diameter	6 mm (0.24 inches)
Extension Force	350 Newton
Lifting Length	93 mm (3.66 inches)
Weight	0.095 kg (0.21 lbs / 3.34 ounces)
Fitting Side	On both sides
Product Dimensions (L x W x H)	11.26 x 1.65 x 0.63 inches
Vehicle Service Type	Car
Fit Type	Vehicle Specific Fit

9. WARRANTY AND SUPPORT

Febi bilstein products are manufactured to high quality standards. For specific warranty information, please refer to the documentation provided with your purchase or contact febi bilstein customer support directly.

For technical assistance or inquiries regarding the febi bilstein 08240 Gas Spring, please visit the official febi bilstein website or contact their authorized distributors.

Note: Always ensure you are using genuine febi bilstein parts for optimal performance and safety.