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**Mevotech MS50027**

# Mevotech Bellow Kit MS50027 Instruction Manual

## 1. Product Overview

The Mevotech Bellow Kit MS50027 is designed to protect the rack and pinion steering components of your vehicle. This kit includes a durable rubber bellow and securing ties, essential for preventing contaminants like dirt, water, and debris from entering and damaging critical steering parts. Proper functioning of the bellow ensures the longevity and reliability of your vehicle's steering system.



Image 1.1: The Mevotech Bellow Kit MS50027, featuring the protective rubber bellow and securing ties.

## 2. Safety Information

Always prioritize safety when working on your vehicle. Automotive repairs can be complex and dangerous if not performed correctly. It is recommended that installation be performed by a qualified professional.

- **Wear appropriate personal protective equipment (PPE)**, including safety glasses and gloves.
- Ensure the vehicle is securely lifted and supported on jack stands before beginning any work. Never rely solely on a jack.
- Disconnect the vehicle's battery if working near electrical components.
- Refer to your vehicle's specific service manual for detailed instructions and torque specifications.
- Keep children and pets away from the work area.

## 3. Installation Instructions

This section outlines the general procedure for replacing a rack and pinion bellow. Specific steps may vary depending on your vehicle make and model. Consult your vehicle's service manual for precise instructions.

### Required Tools:

- Vehicle jack and jack stands
- Wheel lug wrench
- Socket set and wrenches
- Pry bar (optional, for tie rod separation)
- Tie rod end removal tool (if applicable)
- Clean rags
- Grease (if required for tie rod end)

### Installation Steps:

1. **Prepare the Vehicle:** Safely lift the front of the vehicle using a jack and secure it on jack stands. Remove the front wheel(s) to access the steering components.
2. **Locate and Disconnect Tie Rod End:** Identify the outer tie rod end connected to the steering knuckle. Loosen and remove the castle nut or retaining nut. Use a tie rod end removal tool or a pry bar to separate the tie rod end from the knuckle.
3. **Remove Old Bellow:** Carefully cut and remove the old, damaged bellow and its securing clamps/ties. Note how the old bellow was positioned.
4. **Clean the Area:** Thoroughly clean the rack and pinion shaft and housing where the new bellow will be installed. Remove any dirt, grease, or debris. Inspect the rack and pinion for any signs of damage or excessive wear.
5. **Install New Mevotech Bellow:** Slide the new Mevotech MS50027 bellow onto the rack and pinion shaft. Ensure it seats properly on both the rack housing and the inner tie rod.
6. **Secure the Bellow:** Use the provided securing ties (or appropriate clamps) to firmly attach the bellow at both ends. Ensure a tight seal to prevent contaminants from entering.
7. **Reassemble Components:** Reconnect the outer tie rod end to the steering knuckle. Tighten the retaining nut to the manufacturer's specified torque.
8. **Final Checks:** Reinstall the wheel(s) and lower the vehicle. It is highly recommended to have a professional wheel alignment performed after replacing any steering components to ensure proper vehicle handling and tire wear.

## 4. Function and Regular Inspection

The Mevotech Bellow Kit MS50027 serves as a crucial protective barrier for the delicate internal components of your vehicle's rack and pinion steering system. It prevents road grime, moisture, and other environmental elements from reaching the inner tie rod ends and the steering rack itself, which could lead to premature wear and failure.

**Regular Inspection:** It is important to periodically inspect the bellow during routine vehicle maintenance, such as oil changes or tire rotations. Look for:

- Cracks or tears in the rubber material.
- Loose or missing securing ties/clamps.
- Signs of grease leakage from within the bellow, which could indicate a damaged inner tie rod or rack seal.

Any signs of damage warrant immediate attention and replacement to prevent more costly repairs to the steering system.

## 5. Maintenance

The Mevotech Bellow Kit MS50027 itself requires no specific maintenance beyond regular visual inspection. Its primary function is to protect other components. If the bellow is found to be damaged, it must be replaced promptly.

- **Replacement:** A damaged bellow cannot be repaired effectively. Replace it with a new Mevotech Bellow Kit MS50027 to maintain protection for your steering system.
- **Cleaning:** Keep the exterior of the bellow clean from excessive buildup of dirt or chemicals, which can degrade rubber over time.

## 6. Troubleshooting

As a passive protective component, the bellow kit itself does not typically cause operational issues. Troubleshooting primarily involves identifying and addressing bellow damage or issues that arise from a failed bellow.

- **Symptom: Torn or Cracked Bellow:**
  *Solution:* Immediately replace the Mevotech Bellow Kit MS50027. A damaged bellow exposes the inner steering components to contaminants, leading to rapid wear.
- **Symptom: Grease or Fluid Leakage from Bellow Area:**
  *Solution:* This indicates a potential failure of the inner tie rod end or the rack and pinion seal. While the bellow itself might be intact, it's not containing the leak. Inspect the inner tie rod and rack seals. Replacement of the bellow may be necessary as part of a larger repair.
- **Symptom: Steering Issues (e.g., looseness, noise) After Bellow Replacement:**
  *Solution:* Re-check the installation steps carefully. Ensure all components are properly tightened to specifications. Verify that the tie rod end is securely reconnected. A professional inspection and wheel alignment are recommended.

## 7. Specifications

| | |
|---|---|
| **Brand** | Mevotech |
| **Model Number** | MS50027 |
| **Product Type** | Bellow Kit (AUTO PART) |
| **Item Weight** | 1 pounds |
| **Product Dimensions** | 12.3 x 8.3 x 3 inches |
| **Manufacturer Part Number** | MS50027 |
| **What's in the Box** | 1 x Bellow Kit (includes bellow and securing ties) |

## 8. Warranty and Support

Mevotech products are manufactured to high-quality standards. For specific warranty information regarding your Mevotech Bellow Kit MS50027, please refer to the official Mevotech website or contact Mevotech customer support directly. Warranty terms and conditions may vary.

For technical assistance or further inquiries, please visit the official Mevotech website at www.mevotech.com or contact their customer service department.

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