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Mevotech H512193

Mevotech Supreme Wheel Bearing and Hub Assembly Kit H512193 User Manual

Model: H512193

1. Introduction

This manual provides essential information for the proper handling, installation, and maintenance of your Mevotech Supreme Wheel Bearing and Hub Assembly Kit, model H512193. Designed for durability and precise fit, this component is crucial for vehicle safety and performance. Please read these instructions thoroughly before proceeding with installation or any related procedures.

2. Product Overview and Features

The Mevotech Supreme Wheel Bearing and Hub Assembly H512193 is engineered to deliver reliable performance and extended service life. Key features include:

- **Pre-filled with Premium Grease:** The assembly comes pre-lubricated with high-quality grease, formulated to withstand high temperatures and extreme pressure, resist corrosion, and reduce friction for smooth operation.
- **Premium Seal for Contaminant Protection:** A multi-point sealing system provides multiple layers of defense, effectively keeping contaminants out and vital grease within the bearing assembly.
- **Exact Fit Engineering:** Each assembly is designed for an exact fit, ensuring smooth performance and trouble-free operation at the wheel end.
- **Superior Durability:** Constructed from high-grade materials, all components contribute to a longer part life and enhanced reliability.
- **Rigorous Testing:** Extensive in-house and third-party durability testing confirms ultimate performance and strength under various operating conditions.



Figure 2.1: Front view of the Mevotech Supreme Wheel Bearing and Hub Assembly H512193, showcasing the integrated bearing and mounting points.



Figure 2.2: Rear view of the hub assembly, showing the internal bore and mounting surface.



Figure 2.3: Detailed diagram illustrating key features such as the premium multi-lip seal, pre-filled lubricating grease, thicker abrasion-resistant cord guards, anti-corrosion coating, and included installation hardware.

3. Installation

Installation of a wheel bearing and hub assembly requires specialized tools and technical knowledge. It is highly recommended that this procedure be performed by a qualified automotive technician.

3.1 Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands or a lift before beginning work.
- Disconnect the vehicle's battery if working near electrical components.
- Refer to the vehicle manufacturer's service manual for specific torque specifications and procedures.

3.2 General Installation Steps (Consult Vehicle Service Manual for Specifics)

1. Safely lift and support the vehicle. Remove the wheel.
2. Remove the brake caliper and rotor, securing them out of the way without straining the brake hose.
3. Disconnect any sensors (e.g., ABS sensor) attached to the hub assembly.
4. Remove the axle nut (if applicable) and the bolts securing the old hub assembly to the steering knuckle or suspension component.
5. Carefully remove the old hub assembly.
6. Clean the mounting surface thoroughly to ensure proper seating of the new assembly.
7. Install the new Mevotech H512193 hub assembly, ensuring it is correctly oriented.
8. Tighten the mounting bolts and axle nut to the vehicle manufacturer's specified torque settings.
9. Reconnect any sensors and reassemble the brake components and wheel.
10. Lower the vehicle and perform a test drive to confirm proper operation and absence of abnormal noise or vibration.



Figure 3.1: Example of installation hardware, including bolts, nut, and washer, which may be included or required for proper installation.

4. Performance Considerations

Once installed, the Mevotech Supreme Wheel Bearing and Hub Assembly H512193 is designed to provide quiet and smooth operation. Proper installation is critical to achieving optimal performance and longevity. The pre-filled premium grease and multi-point sealing system work together to maintain lubrication and protect against environmental factors, ensuring consistent performance over time.

5. Maintenance

Wheel bearing and hub assemblies are generally considered maintenance-free components due to their sealed design and pre-lubrication. However, regular vehicle inspections are recommended to monitor their condition.

5.1 Inspection Guidelines

- During routine tire rotations or brake service, visually inspect the hub assembly for any signs of damage, such as cracks, corrosion, or leaks from the seals.
- Check for excessive play in the wheel by grasping the wheel at the 12 and 6 o'clock positions, then at the 3 and 9 o'clock positions, and attempting to rock it. Any significant movement could indicate bearing wear.
- Listen for abnormal noises (e.g., humming, grinding, growling) that may originate from the wheel area while driving. These noises often become more pronounced with speed or when turning.

If any issues are detected, it is advisable to have the vehicle inspected by a qualified technician.

6. Troubleshooting

Common symptoms of a failing wheel bearing and hub assembly include:

- **Noise:** A humming, grinding, or growling noise that increases with vehicle speed. This noise may change when turning or applying the brakes.
- **Vibration:** Vibrations felt through the steering wheel or floorboard, which may worsen at certain speeds.
- **Loose Steering/Wandering:** A feeling of looseness or excessive play in the steering, or the vehicle pulling to one side.
- **Uneven Tire Wear:** Abnormal or uneven wear patterns on tires.
- **ABS Light:** If the assembly includes an ABS sensor, a faulty bearing can sometimes trigger the Anti-lock Braking System (ABS) warning light.

If you experience any of these symptoms, it is crucial to have your vehicle inspected by a professional immediately to prevent further damage or safety hazards.

7. Specifications

The following are key specifications for the Mevotech Supreme Wheel Bearing and Hub Assembly H512193:

Attribute	Value
Brand	Mevotech
Model Number	H512193
Material	High-grade Steel
Item Dimensions (L x W x H)	7.3 x 7.3 x 6.1 inches
Item Weight	5.5 Pounds
Bearing Number	H512193
Bearing Type	Ball Bearing
Compatible Lubricant	Grease (Pre-filled)
UPC	669719595346
Manufacturer Part Number	H512193

8. Warranty and Support

For information regarding warranty coverage, claims, or technical support for your Mevotech Supreme Wheel Bearing and Hub Assembly H512193, please refer to the official Mevotech website or contact Mevotech customer service directly. Keep your purchase receipt as proof of purchase.

Mevotech Contact Information:
Please visit the official Mevotech website for the most current contact details and support resources:www.mevotech.com

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