Mevotech MB40321

Mevotech Wheel Bearing and Hub - MB40321 User Manual

Model: MB40321 | Brand: Mevotech

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1. Product Overview

The Mevotech MB40321 is a high-quality wheel bearing and hub assembly designed for specific automotive applications. This component is crucial for the proper functioning of your vehicle's wheel rotation and braking system, integrating the wheel bearing and the hub into a single unit for efficient replacement.
Key features of the Mevotech MB40321 include:

- **Premium Seal with Multi-Lip Profile:** Provides a barrier against contaminant ingress, protecting internal components from dirt and moisture.
- **Roll-Form Construction:** Locks internal components for a set preload, contributing to durability and performance.
- **Pre-Filled Lubricating Grease:** Reduces friction and maintains optimal performance across various temperature ranges.
- **Thicker Abrasion-Resistant Cord Guards:** Protects wiring (such as ABS sensor cables) against perforation and contaminants.
- **Anti-Corrosion Coating:** Applied to protect components from rust and degradation.
- **Installation Hardware Included:** Designed for quick and easy installation, providing necessary bolts and nuts.



Figure 1.1: Front view of the Mevotech MB40321 Wheel Bearing and Hub Assembly. This image displays the main body of the hub, the wheel studs, and the integrated ABS sensor wiring.



Figure 1.2: Rear view of the Mevotech MB40321 Wheel Bearing and Hub Assembly. This angle highlights the mounting flange and the connection point for the ABS sensor.



Figure 1.3: Exploded diagram illustrating the key features of the Mevotech Wheel Bearing and Hub, including the multi-lip seal, roll-form construction, pre-filled grease, abrasion-resistant cord guards, anti-corrosion coating, and included installation hardware.

2. Specifications

The following table details the technical specifications for the Mevotech Wheel Bearing and Hub, model MB40321.

Attribute	Value
Brand	Mevotech
Model Number	MB40321
Item Weight	15.8 Pounds
Bearing Number	MB40321
Bearing Type	Ball Bearing
Compatible Lubricant	Grease (Pre-filled)
UPC	677319059342
Exterior Finish	Machined
Package Dimensions	7.28 x 7.28 x 6.1 inches



Figure 2.1: The Mevotech MB40321 Wheel Bearing and Hub assembly shown with its accompanying installation hardware, including bolts and a nut.

3. Installation Guidance

Installation of a wheel bearing and hub assembly is a critical automotive repair that requires specialized tools, knowledge, and adherence to vehicle-specific service procedures. **It is strongly recommended that this component be installed**

by a qualified automotive technician. Improper installation can lead to serious safety hazards, component failure, and damage to other vehicle systems.

3.1. General Considerations

- Ensure the vehicle is safely supported on jack stands on a level surface.
- Always refer to the vehicle manufacturer's service manual for specific torque specifications and procedures.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Inspect surrounding components (e.g., brake system, suspension) for wear or damage during the replacement process.

3.2. Key Installation Features

The Mevotech MB40321 is designed with features to facilitate installation:

- **Integrated Design:** The bearing and hub are pre-assembled, simplifying the replacement process compared to separate components.
- **Included Hardware:** New mounting bolts and a spindle nut are provided to ensure proper fitment and secure installation.
- **Pre-wired ABS Sensor:** If applicable to your vehicle, the integrated ABS sensor and wiring are designed for direct connection, reducing complexity.



Figure 3.1: Close-up of the installation hardware included with the Mevotech MB40321, consisting of wheel studs, a spindle nut, and a washer.

4. Operation

Once correctly installed, the Mevotech MB40321 Wheel Bearing and Hub assembly operates as a critical interface between the vehicle's axle and the wheel. Its primary function is to allow the wheel to rotate smoothly with minimal friction while supporting the vehicle's weight and maintaining wheel alignment.

- **Smooth Rotation:** The internal ball bearings facilitate low-friction rotation of the wheel.
- **Load Support:** Designed to withstand radial and axial loads encountered during driving.
- **ABS Signal Generation:** If equipped, the integrated ABS sensor generates signals for the Anti-lock Braking System, crucial for vehicle stability and braking performance.

Proper operation is indicated by quiet, smooth wheel rotation without excessive play or vibration.

5. Maintenance

The Mevotech MB40321 Wheel Bearing and Hub assembly is designed to be a maintenance-free unit, pre-lubricated and sealed for life. Regular maintenance primarily involves periodic inspection rather than lubrication or adjustment.

5.1. Inspection Schedule

It is recommended to inspect wheel bearings during routine vehicle maintenance, such as tire rotations or brake service. Look for the following:

- **Unusual Noises:** Listen for humming, grinding, or roaring sounds that increase with vehicle speed.
- **Excessive Play:** With the wheel off the ground, check for excessive movement when rocking the wheel top-to-bottom and side-to-side.
- **Heat Buildup:** After driving, carefully check if the hub area is excessively hot to the touch (caution: can be very hot).
- **ABS Warning Light:** If the ABS light illuminates, it could indicate an issue with the integrated ABS sensor.
- **Visual Damage:** Inspect the hub assembly for any visible cracks, damage, or signs of grease leakage from the seals.

If any of these symptoms are observed, professional inspection and potential replacement are advised.

6. Troubleshooting

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

- **Humming, Grinding, or Roaring Noise:** Often increases with vehicle speed and may change when turning.
- **Loose Steering or Excessive Play:** A feeling of looseness in the steering wheel or noticeable play when rocking the wheel.
- **Vibration:** Vibrations felt through the steering wheel or floorboard, which may worsen with speed.
- **Uneven Tire Wear:** Can be a secondary symptom of wheel alignment issues caused by a worn bearing.
- **ABS Light Illumination:** A faulty integrated ABS sensor can trigger the ABS warning light on the dashboard.

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

7. Warranty and Support

For specific warranty information regarding the Mevotech MB40321 Wheel Bearing and Hub assembly, please refer to the official Mevotech warranty policy provided at the time of purchase or visit the official Mevotech website. Warranty terms and conditions may vary.
For technical support, product inquiries, or assistance with warranty claims, please contact Mevotech customer service directly or consult their official resources. You can find more information about Mevotech products and support on their Amazon store page: Mevotech Amazon Store.

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