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› MOOG 513326 Wheel Bearing and Hub Assembly User Manual

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MOOG 513326 Wheel Bearing and Hub Assembly User Manual

This manual provides essential information for the installation, operation, and maintenance of your MOOG Wheel Bearing and Hub Assembly.

PRODUCT OVERVIEW

The MOOG 513326 Wheel Bearing and Hub Assembly is engineered for durability and performance, designed to provide smooth operation and optimal ABS performance for compatible vehicles. It features application-specific design enhancements for longer life.



Figure 1: Front view of the MOOG 513326 Wheel Bearing and Hub Assembly.

Key Features:

- **Compatibility:** Fits 2010-2012 Ford F-150; 2011-2014 Ford F-150. Always verify fitment for your specific vehicle.
- **Innovative Roll Form Design:** Ensures consistent and optimal preload for reliable performance.
- **Enhanced Sealing:** Designed to protect against premature wear and lubricant breakdown in harsh conditions.
- **Quality Tested:** Performance proven and quality tested for a broad range of foreign and domestic vehicles.
- **Application Specific Design:** Tailored for precise fit and function.



Figure 2: Diagram illustrating key design features including abrasion-resistant ABS cord, roll form design, quad lip seal design, precision matched components, and wheel stud with protective coating.

SPECIFICATIONS

Attribute	Detail
Manufacturer	MOOG Hub Assemblies
Brand	MOOG
Model Number	513326
Item Weight	17 pounds
Product Dimensions	6.8 x 5.2 x 6.3 inches
Exterior	Machined
ASIN	B00YJH8FRK
Date First Available	September 24, 2013

INSTALLATION AND SETUP

Installation of a wheel bearing and hub assembly requires specialized tools and automotive knowledge. It is recommended that installation be performed by a certified professional to ensure proper fitment and safety. Always refer to your vehicle's specific service manual for detailed, step-by-step instructions and torque specifications.

General Considerations:

- Ensure the vehicle is properly supported on jack stands or a lift.

- Disconnect the ABS sensor wiring if applicable and carefully remove the old hub assembly.
- Clean the mounting surface thoroughly before installing the new assembly.
- Install the new MOOG hub assembly, ensuring all bolts are torqued to manufacturer specifications.
- Reconnect the ABS sensor wiring, ensuring it is properly routed and secured to prevent damage.
- Perform a test drive to confirm proper operation and check for any abnormal noises or vibrations.



Figure 3: Illustration of a hub assembly's position within a vehicle's suspension system.

OPERATION

The MOOG Wheel Bearing and Hub Assembly is a critical component of your vehicle's wheel and braking system. It allows the wheel to rotate smoothly while supporting the vehicle's weight and maintaining proper wheel alignment. The integrated ABS sensor ensures accurate wheel speed readings for the Anti-lock Braking System, contributing to vehicle stability and braking efficiency.



Figure 4: Cross-section view highlighting the internal components and robust sealing of the hub assembly.

MAINTENANCE

While MOOG hub assemblies are designed for long-lasting performance, regular vehicle maintenance and inspections are crucial. Periodically check for any signs of wear, damage, or looseness in the wheel bearing and hub assembly area. Ensure that the ABS wiring is intact and free from abrasion or kinks.

Tips for Longevity:

- Avoid driving through deep water or mud whenever possible, as excessive exposure can compromise seals over time.
- Ensure proper tire inflation and wheel balance to minimize stress on the bearings.
- Address any suspension or steering issues promptly, as these can indirectly affect hub assembly life.

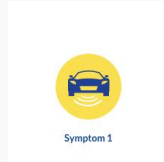
TROUBLESHOOTING

If you experience any of the following symptoms, your wheel bearing and hub assembly may require inspection or replacement. It is advisable to consult a qualified mechanic for diagnosis and repair.

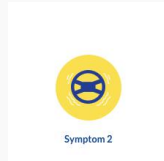
- **Humming or Grinding Noise:** A common symptom of a failing wheel bearing is a continuous

humming, grinding, or growling noise that increases with vehicle speed.

- **Vibration:** Vibrations felt through the steering wheel or floorboard, especially at certain speeds, can indicate a worn hub assembly.
- **ABS Light Illumination:** An illuminated Anti-lock Braking System (ABS) warning light on your dashboard may signal an issue with the integrated ABS sensor in the hub assembly.
- **Loose Steering or Uneven Tire Wear:** Excessive play in the wheel or unusual tire wear patterns can also be indicators of a worn hub assembly.



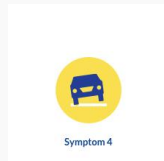
Symptom: Vehicle Vibration



Symptom: Steering Wheel Shaking



Symptom: ABS Light On



Symptom: Uneven Stance

WARRANTY AND SUPPORT

MOOG products are manufactured to high standards and are backed by a manufacturer's warranty. For specific warranty details, claims, or technical support, please refer to the official MOOG website or contact their customer service directly.

You can find more information and explore other MOOG products by visiting the [MOOG Store on Amazon](#).

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This manual is for informational purposes only. Always consult a qualified professional for vehicle repair and maintenance.