

WJB WS225225

WJB WS225225 Oil and Wheel Seal Instruction Manual

Model: WS225225

INTRODUCTION

The WJB WS225225 Oil and Wheel Seal is a critical component designed to protect wheel bearings by retaining lubricant and preventing the ingress of external contaminants such as dirt and water. Proper functioning of the wheel seal is essential for maintaining the integrity and longevity of the wheel bearing, ensuring optimal vehicle performance and safety. This manual provides detailed information regarding the product's features, installation, maintenance, and specifications.

PRODUCT FEATURES

- **Flanged Design:** Allows for easier and more secure installation, contributing to a longer service life for the bearing.
- **Secure Fit:** Outside ridges of the seal ensure a secure and proper fit within the bearing assembly.
- **Temperature and Fluid Resistance:** Enhanced performance across a wide range of temperatures and fluid environments, increasing reliability for wheel end performance.
- **Extra Dust Lip:** Offers enhanced dirt exclusion, protecting the wheel bearing from contaminants that could cause damage or premature wear.
- **Machined Rubber Sealing:** Provides accuracy and consistency for a leak-proof seal, effectively retaining oil and grease while repelling water to prevent bearing rust and corrosion.

PRODUCT OVERVIEW



Figure 1: The WJB WS225225 Oil and Wheel Seal. This image displays the circular design of the seal, featuring a prominent red outer ring and a black inner sealing surface. The design is engineered for effective sealing and protection of wheel bearings.

SETUP AND INSTALLATION

Proper installation of the wheel seal is crucial for its performance and the longevity of the wheel bearing. It is recommended that installation be performed by a qualified technician using appropriate tools.

Installation Steps:

1. **Preparation:** Ensure the wheel bearing cavity is clean and free of old grease, debris, or rust. Inspect the bearing and housing for any damage.
2. **Lubrication:** Apply a thin layer of appropriate lubricant to the inner lip of the new wheel seal to facilitate smooth installation and initial sealing.
3. **Positioning:** Carefully align the new seal with the bearing housing. Ensure it is oriented correctly, with the sealing lip facing the lubricant side.
4. **Seating:** Using a seal driver tool or a suitable flat object, gently and evenly tap the seal into place. Apply pressure around the entire circumference of the seal until it is fully seated and flush with the housing. Avoid cocking the seal or damaging the sealing lip.
5. **Final Check:** Verify that the seal is properly seated and not deformed. Reassemble the wheel assembly according to vehicle manufacturer specifications.

OPERATING PRINCIPLES

The WJB WS225225 wheel seal operates by creating a barrier between the internal lubrication of the wheel bearing and the external environment. Its precisely machined rubber sealing lip maintains constant contact with the rotating shaft, preventing the escape of grease or oil while simultaneously blocking the entry of water, dirt, and other abrasive contaminants. The flanged design and secure fit ensure that the seal remains in its intended position, providing consistent protection under various operating conditions, including temperature fluctuations and exposure to different fluids.

MAINTENANCE

Wheel seals are designed for durability, but regular inspection is recommended as part of routine vehicle maintenance to ensure optimal performance and prevent premature bearing failure.

Inspection Guidelines:

- Visual Check:** During brake service or wheel bearing inspection, visually check the seal for any signs of leakage (grease or oil residue), cracking, hardening, or physical damage to the rubber.
- Contaminant Presence:** Look for signs of dirt or water ingress around the seal area, which may indicate a compromised seal.
- Replacement:** If any signs of wear, damage, or leakage are observed, the wheel seal should be replaced immediately to prevent damage to the wheel bearing. It is generally good practice to replace wheel seals whenever wheel bearings are serviced or replaced.

TROUBLESHOOTING

While the WJB WS225225 seal is designed for reliability, issues can arise. Here are common problems and their potential causes:

Problem	Possible Cause	Solution
Grease/Oil Leakage	Improper installation, damaged seal lip, worn seal, incorrect seal size.	Re-install correctly, replace seal, ensure correct part number.
Contaminant Ingress (dirt/water)	Damaged seal lip, improper seating, excessive shaft runout.	Replace seal, ensure proper seating, inspect shaft for damage.
Premature Seal Wear	Lack of lubrication, excessive heat, abrasive contaminants, improper shaft finish.	Ensure proper lubrication, check for heat sources, verify clean environment, inspect shaft.

If issues persist after troubleshooting, consult a professional automotive technician.

SPECIFICATIONS

Attribute	Detail
Brand	WJB
Model Number	WS225225
Material	Rubber

Attribute	Detail
Item Weight	1.28 ounces
Product Dimensions	2.95 x 0.87 x 2.95 inches
Manufacturer Part Number	WS225225
UPC	789120064047

WARRANTY INFORMATION

WJB products are manufactured in ISO certified facilities with rigorous manufacturing processes. This product is covered by a **12-month warranty** from the date of purchase, specifically covering manufacturer defects. Defective units can be replaced by WJB within this 12-month period. Please note that this warranty covers part replacement only; labor and/or any shipping costs are not covered.

SUPPORT AND CONTACT

For further assistance, technical inquiries, or warranty claims, please contact WJB customer support. Refer to the official WJB website or your purchase documentation for the most current contact information.

Online Resources: Visit the [WJB Store on Amazon](#) for additional product information and resources.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question