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› National 7834 Wheel Seal Instruction Manual

National 7834

National 7834 Wheel Seal Instruction Manual

Brand: National | Model: 7834

1. INTRODUCTION

This instruction manual provides essential information for the proper handling, installation, and maintenance of your National 7834 Wheel Seal. Adhering to these guidelines will help ensure optimal performance and longevity of the product. For best results and safety, professional installation is recommended.

2. PRODUCT OVERVIEW

The National 7834 Wheel Seal is engineered to provide reliable sealing solutions for automotive applications. It is designed to prevent lubricants from leaking out and contaminants from entering the wheel bearing assembly, crucial for maintaining wheel integrity and performance.



Figure 2.1: The National 7834 Wheel Seal. This image displays the complete wheel seal, highlighting its robust construction and design.

3. KEY FEATURES

- **Design Type:** Spring-loaded, single-lip for effective sealing.
- **Temperature Range:** Operates efficiently within -50°F to 200°F (-46°C to 93°C).
- **Dry Running Capabilities:** Good performance even in conditions with limited lubrication.
- **Compatibility:** Fully compatible with all standard automotive oils and greases.
- **Reliable Performance:** Engineered to deliver consistent and dependable performance for various repair needs.

4. TECHNICAL SPECIFICATIONS

Specification	Detail
Manufacturer	National
Brand	National
Item Model Number	7834

Specification	Detail
Item Weight	0.01 ounces
Product Dimensions	3.25 x 0.88 x 0.1 inches
Design Type	Spring loaded; single-lip
Temperature Range	-50°F to 200°F / -46°C to 93°C

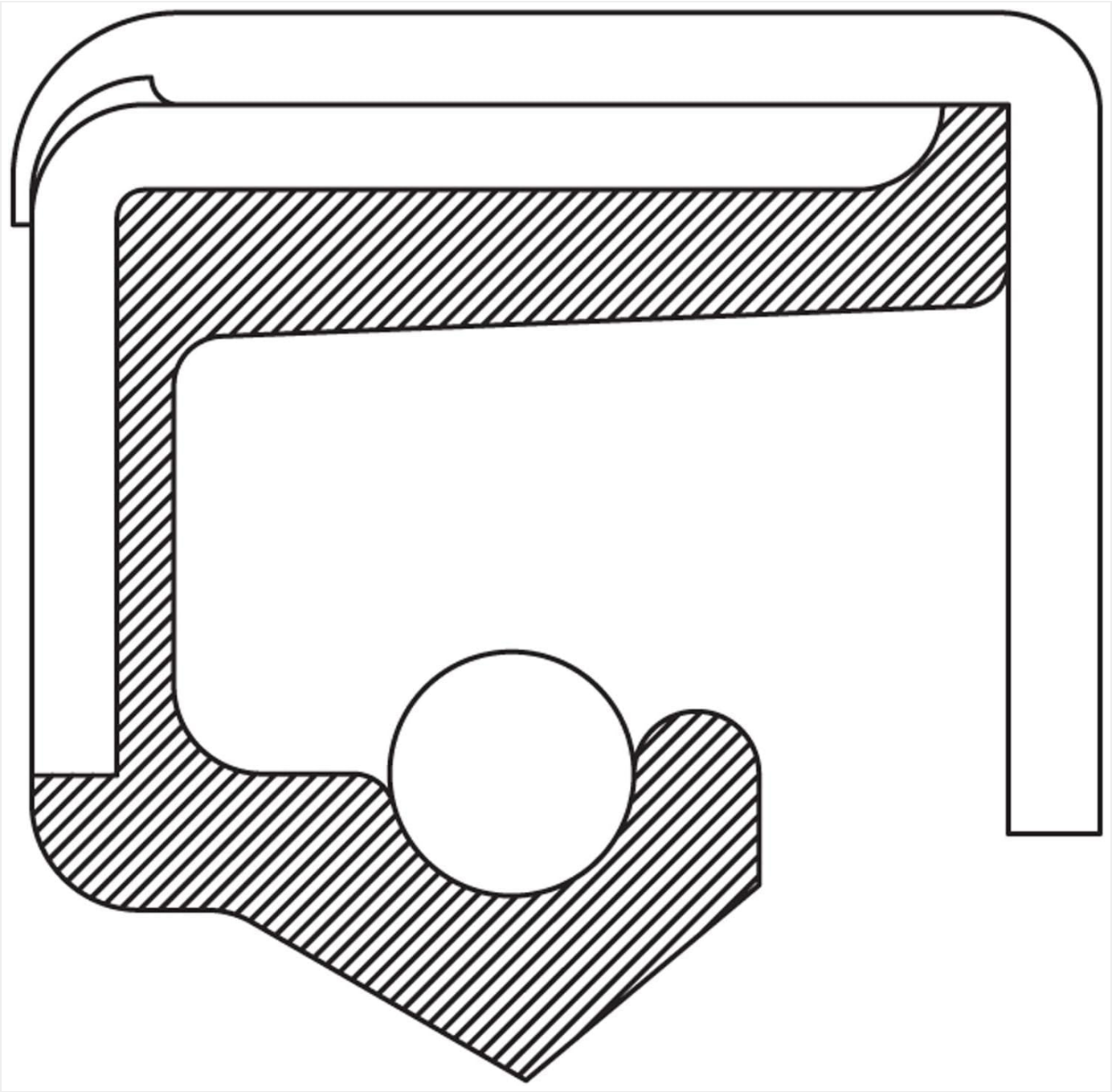


Figure 4.1: Cross-sectional diagram of a wheel seal. This illustration shows the internal structure and components of a typical wheel seal, including the spring-loaded lip design.

5. INSTALLATION GUIDELINES

Proper installation is critical for the effective operation and longevity of the National 7834 Wheel Seal. Incorrect installation can lead to premature failure, lubricant leaks, and potential damage to other components. It is highly recommended that installation be

performed by a qualified automotive technician using appropriate tools and safety procedures.

General Steps (Consult Vehicle Service Manual for Specifics):

1. **Preparation:** Ensure the work area is clean. Gather all necessary tools, including a seal driver, and new lubricant.
2. **Removal of Old Seal:** Carefully remove the old wheel seal without damaging the hub or spindle. Inspect the sealing surfaces for any wear, corrosion, or damage.
3. **Surface Cleaning:** Thoroughly clean the hub bore and spindle sealing surface. Any debris or old sealant can compromise the new seal's integrity.
4. **Lubrication:** Apply a thin, even coat of appropriate lubricant (compatible with the seal material) to the inner and outer diameters of the new seal, as well as the spindle sealing surface.
5. **Installation of New Seal:** Using a suitable seal driver, carefully and evenly press the new National 7834 Wheel Seal into the hub bore until it is fully seated. Ensure it is not cocked or damaged during installation.
6. **Reassembly:** Reassemble the wheel bearing and hub components according to the vehicle manufacturer's specifications.
7. **Final Check:** Verify that all components are correctly installed and torqued to specifications.

Note: Always refer to your specific vehicle's service manual for detailed, model-specific installation instructions and torque specifications.

6. MAINTENANCE

Wheel seals are critical components that require minimal direct maintenance but are part of a system that benefits from regular inspection. While the National 7834 Wheel Seal is designed for durability, its lifespan is influenced by operating conditions and proper installation.

Recommended Practices:

- **Regular Inspection:** During routine vehicle maintenance (e.g., tire rotations, brake inspections), visually inspect the area around the wheel seals for any signs of lubricant leakage.
- **Address Leaks Promptly:** If a leak is detected, it indicates a seal failure. The seal should be replaced immediately to prevent bearing damage and ensure safe vehicle operation.
- **Use Correct Lubricants:** Ensure that the wheel bearings are always lubricated with the vehicle manufacturer's recommended grease or oil, as specified in your vehicle's service manual.
- **Avoid Contamination:** Keep the area around the wheel bearings and seals clean during any service to prevent dirt or foreign particles from entering the assembly.

7. TROUBLESHOOTING

This section addresses common issues that may arise with wheel seals. If you encounter problems not listed here, or if the suggested solutions do not resolve the issue, consult a qualified automotive technician.

Common Issues and Solutions:

- **Lubricant Leakage:**
 - **Cause:** Improper installation, damaged seal during installation, worn seal, damaged sealing surface on hub/spindle, incorrect lubricant.
 - **Solution:** Inspect the seal and sealing surfaces. Replace the seal if damaged or worn. Ensure proper installation techniques are followed. Verify correct lubricant is used.
- **Premature Seal Failure:**
 - **Cause:** Overheating due to insufficient lubrication, contamination, improper installation (e.g., cocked seal), excessive shaft runout.

- **Solution:** Ensure adequate and correct lubrication. Verify clean installation. Check for bearing issues or shaft runout that could stress the seal.

- **Noise from Wheel Area:**

- **Cause:** While not directly caused by the seal, a failed seal can lead to bearing damage, which causes noise.
- **Solution:** Inspect wheel bearings for damage or lack of lubrication. Replace bearings and seals as necessary.

8. WARRANTY AND SUPPORT

National stands behind the quality of its products. For specific warranty information regarding the National 7834 Wheel Seal, please refer to the official National product warranty documentation provided at the point of purchase or visit the official National website. For technical support, installation assistance, or any product-related inquiries, please contact National customer service through their official channels.

Please retain this manual for future reference.

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