

National 5827

National 5827 Wheel Seal Instruction Manual

Model: 5827

INTRODUCTION

This instruction manual provides essential information for the proper installation, maintenance, and understanding of the National 5827 Wheel Seal. Adhering to these guidelines will help ensure optimal performance and longevity of the product. Please read this manual thoroughly before proceeding with any installation or maintenance procedures.

PRODUCT OVERVIEW

The National 5827 Wheel Seal is engineered to provide reliable sealing solutions for automotive applications. It features a springless, single-lip design, optimized for performance across a wide temperature range and compatibility with various oils and greases.

Key Features:

- **Design Type:** Springless; single-lip
- **Temperature Range:** -50°F to 200°F / -46°C to 93°C
- **Dry Running Capabilities:** Good
- **Compatibility:** Compatible with all oils and greases
- **Performance:** Delivers quality and reliable performance for various repair types



Figure 1: The National 5827 Wheel Seal. This image shows the circular seal component, typically made of metal and rubber, designed to prevent lubricant leakage and contamination in wheel assemblies.

INSTALLATION GUIDELINES

Proper installation is crucial for the effective operation and longevity of the wheel seal. Consult your vehicle's specific service manual for detailed instructions relevant to your make and model. The following are general guidelines:

1. **Preparation:** Ensure the wheel hub and spindle are clean and free from old grease, dirt, or debris. Inspect the sealing surfaces for any damage, burrs, or irregularities that could compromise the seal.
2. **Lubrication:** Lightly lubricate the inner lip of the new wheel seal with the recommended grease or oil for your application. This aids in installation and prevents damage to the seal during initial rotation.
3. **Positioning:** Carefully position the new seal squarely over the spindle or hub bore.
4. **Installation Tool:** Use an appropriate seal installation tool or a flat-faced driver that contacts the outer metal casing of the seal. Avoid striking the rubber lip directly.
5. **Seating:** Drive the seal evenly and gradually until it is fully seated in the bore. Ensure it is not cocked or damaged during the process. The seal should be flush with the hub or housing surface, or seated to the depth specified by the vehicle manufacturer.
6. **Final Inspection:** After installation, visually inspect the seal to confirm it is properly seated and undamaged.

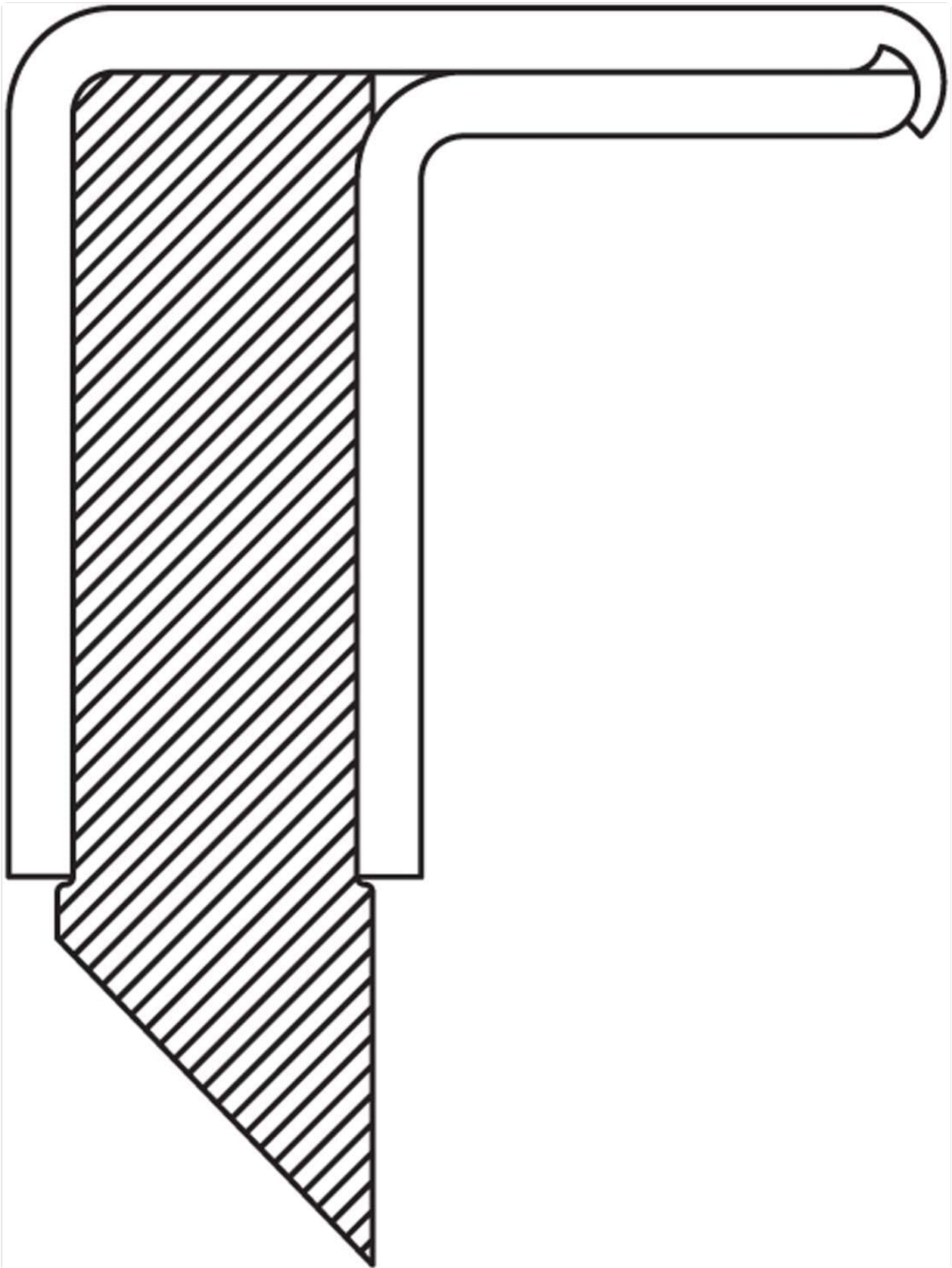


Figure 2: Cross-section diagram of a wheel seal. This illustration shows the internal structure and sealing lip design, indicating how the seal functions to contain lubricants and exclude contaminants.

MAINTENANCE

Wheel seals are critical components that require periodic inspection. While the National 5827 Wheel Seal is designed for durability, regular checks can prevent premature failure and associated damage.

- **Regular Inspection:** During routine vehicle maintenance, inspect wheel seals for signs of leakage,

cracking, or damage.

- **Lubrication Levels:** Ensure proper lubrication levels in the wheel bearings or axle housing, as specified by the vehicle manufacturer. Insufficient lubrication can lead to seal failure.
- **Replacement:** It is generally recommended to replace wheel seals whenever wheel bearings are serviced or replaced, or if any signs of wear or leakage are observed. Seals are typically single-use components.

TROUBLESHOOTING COMMON ISSUES

If issues arise after installation, consider the following common causes:

- **Leakage:**
 - **Cause:** Improper installation (cocked seal, damaged lip), damaged sealing surface on the spindle/hub, incorrect seal size, or excessive lubricant pressure.
 - **Solution:** Re-inspect installation, replace seal if damaged, check sealing surfaces, ensure correct part number.
- **Premature Wear:**
 - **Cause:** Contamination (dirt, grit), insufficient lubrication, excessive heat, or improper bearing adjustment.
 - **Solution:** Ensure clean working environment during installation, verify proper lubrication, check bearing preload.

SPECIFICATIONS

Attribute	Detail
Brand	National
Model Number	5827
Design Type	Springless; single-lip
Temperature Range	-50°F to 200°F / -46°C to 93°C
Compatibility	All oils and greases
Vehicle Service Type	Car
Fit Type	Universal Fit
Item Length	3.25 Inches
Mounting Type	Pinch Tab
UPC	724956161867

WARRANTY INFORMATION

Specific warranty details for the National 5827 Wheel Seal are not provided in this manual. For warranty claims or detailed information, please refer to the official National brand website or contact their customer support directly. Keep your purchase receipt as proof of purchase.

CUSTOMER SUPPORT

For technical assistance, product inquiries, or further support, please visit the official National brand website or consult your automotive parts supplier. Always refer to your vehicle's service manual for specific repair procedures.

Manufacturer: National

For official contact information, please refer to the product packaging or the manufacturer's official website.