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SKF 7923

SKF Seal 7923 Instruction Manual

Model: 7923
Brand: SKF

1. PRODUCT OVERVIEW

The SKF Seal 7923 is a precision-engineered component designed for critical sealing applications. It is manufactured to provide reliable performance in various automotive and industrial settings, preventing leakage and protecting internal components from contaminants. This seal is a single unit, weighing approximately 0.512 ounces and measuring 2.5 x 2.5 x 0.63 inches.



Image: The SKF Seal 7923, a black circular component designed for sealing applications. It features a central opening and a robust outer ring, with markings visible on its surface indicating specifications.

2. SPECIFICATIONS

Attribute	Detail
Manufacturer	SKF USA, Inc.

Brand	SKF
Model	7923
Item Weight	0.512 ounces
Product Dimensions	2.5 x 2.5 x 0.63 inches
Manufacturer Part Number	7923
Exterior	Machined

3. INSTALLATION INSTRUCTIONS

Proper installation is crucial for the optimal performance and longevity of the SKF Seal 7923. Always refer to the specific service manual for the equipment or vehicle in which the seal is being installed for detailed, model-specific instructions. The following are general guidelines:

- Preparation:** Ensure the housing bore and shaft surface are clean, free of burrs, nicks, and corrosion. Any surface imperfections can compromise the seal's effectiveness.
- Lubrication:** Lightly lubricate the seal's lip and the shaft with the recommended lubricant for the application. This aids in installation and prevents initial dry running.
- Alignment:** Carefully align the seal with the housing bore. Avoid cocking the seal during insertion.
- Pressing:** Use an appropriate seal installation tool or a press to evenly apply force to the outer diameter of the seal. Never strike the seal directly with a hammer or apply force to the inner lip. Ensure the seal is pressed squarely into the bore until it is fully seated.
- Inspection:** After installation, visually inspect the seal to ensure it is seated correctly and the lip is not damaged or inverted.

4. FUNCTION AND OPERATION

The SKF Seal 7923 is designed to create a barrier between two environments, typically to retain lubricants (like grease or oil) within a system and to exclude contaminants (like dirt, dust, or water) from entering. It operates by maintaining a tight fit against a rotating or reciprocating shaft, with its flexible lip creating a dynamic seal. The seal's material and design are optimized for durability and resistance to the operating conditions, including temperature, pressure, and chemical exposure, ensuring the integrity of the sealed system.

5. MAINTENANCE

Seals are wear components and typically do not require routine maintenance beyond initial proper installation. However, periodic inspection of the sealed area can help identify potential issues early:

- Visual Inspection:** Regularly check for signs of leakage around the seal.
- Wear Assessment:** Look for visible damage, cracking, hardening, or excessive wear on the seal's exposed surfaces.
- Environmental Factors:** Ensure the operating environment is free from excessive abrasive particles or corrosive substances that could prematurely degrade the seal.

If any signs of wear or leakage are observed, the seal should be replaced promptly to prevent damage to other

components.

6. TROUBLESHOOTING COMMON ISSUES

While the SKF Seal 7923 is designed for reliability, issues can arise. Here are common problems and their potential causes:

- **Leakage:**
 - *Cause:* Improper installation (e.g., cocked seal, damaged lip during installation).
 - *Cause:* Damaged shaft surface (e.g., nicks, grooves, excessive runout).
 - *Cause:* Seal wear due to age, high operating temperatures, or abrasive contaminants.
 - *Cause:* Incorrect seal size or type for the application.
- **Premature Wear:**
 - *Cause:* Lack of lubrication or incorrect lubricant.
 - *Cause:* Excessive shaft speed or temperature.
 - *Cause:* Presence of abrasive contaminants.
 - *Cause:* Misalignment or excessive vibration in the system.

In most cases, troubleshooting seal issues involves replacing the seal and addressing the root cause of the failure to prevent recurrence.

7. WHAT'S IN THE BOX

The SKF Seal 7923 package typically contains:

- 1 x SKF Seal 7923

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