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## SKF 14938

# SKF 14938 LDS & Small Bore Seal Instruction Manual

Model: 14938

## PRODUCT OVERVIEW

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The SKF 14938 LDS & Small Bore Seal is a precision-engineered component designed for sealing applications. This R Lip Code, CRW1 Style seal is manufactured to inch specifications, featuring a 1.5-inch shaft diameter, a 2.25-inch bore diameter, and a 0.313-inch width. It is primarily used as a bearing and bushing component, ensuring effective sealing in various industrial and automotive applications.



**Figure 1:** The SKF 14938 LDS & Small Bore Seal. This image displays the seal's grey metal body with a green outer edge, highlighting its CRW1 style and R lip code design, essential for its sealing function.

## **SAFETY INFORMATION**

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Always observe standard safety precautions when handling and installing mechanical components. Wear appropriate personal protective equipment (PPE) such as gloves and eye protection. Ensure the work area is clean and well-lit. Refer to the equipment manufacturer's manual for specific safety guidelines related to the system where this seal will be installed.

### Proposition 65 Warning:

This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## SETUP AND INSTALLATION

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Proper installation is crucial for the optimal performance and longevity of the SKF 14938 seal. Follow these general steps, but always consult the specific equipment manufacturer's instructions for detailed procedures.

- Preparation:** Ensure the shaft and bore surfaces are clean, free of burrs, scratches, and foreign particles. Lubricate the seal lips and the shaft with the system's operating fluid or a compatible lubricant before installation.
- Alignment:** Carefully align the seal with the bore. Avoid cocking the seal during insertion, as this can damage the seal or the bore.
- Pressing:** Use an appropriate installation tool that applies even pressure to the outer diameter of the seal. Do not use sharp tools or apply pressure directly to the seal lip. Press the seal squarely into the bore until it is fully seated.
- Inspection:** After installation, visually inspect the seal to ensure it is seated correctly and that the sealing lips are not damaged or inverted.

## OPERATING CONSIDERATIONS

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Once installed, the SKF 14938 seal operates passively as part of the bearing or bushing assembly. Its primary function is to retain lubricants and exclude contaminants. Ensure that the operating environment's temperature, pressure, and shaft speed remain within the design limits of the seal and the overall system.

- Lubrication:** Adequate lubrication is vital for seal life. Ensure the system maintains proper lubricant levels and quality.
- Temperature:** Avoid operating conditions that exceed the seal's material temperature limits, as this can lead to premature hardening or softening of the seal material.
- Contamination:** Protect the seal from abrasive particles and corrosive fluids, which can degrade the sealing surface.

## MAINTENANCE

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The SKF 14938 seal is designed for long-term performance with minimal maintenance. Regular inspection of the surrounding components and the seal's visible areas can help identify potential issues early.

- Visual Inspection:** Periodically check for signs of leakage around the seal or visible damage to the seal's exterior.
- Lubricant Checks:** Monitor lubricant levels and quality in the system. Contaminated or insufficient lubricant can lead to seal failure.
- Replacement:** Seals are wear components. Replace the seal if any signs of wear, damage, or leakage are observed, or as part of a scheduled maintenance program for the equipment.

## TROUBLESHOOTING

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Common issues related to seals often manifest as leakage or premature wear. Below are some general troubleshooting tips:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Oil Leakage	Damaged seal lip, improper installation, excessive shaft runout, contaminated lubricant, incorrect seal size.	Inspect and replace seal if damaged. Reinstall correctly. Check shaft alignment and bearing condition. Replace lubricant. Verify seal dimensions.
Premature Wear	Abrasive contaminants, high operating temperature, insufficient lubrication, excessive pressure, improper shaft finish.	Improve contamination control. Check system temperature. Ensure adequate lubrication. Verify system pressure. Check shaft surface finish.
Seal Extrusion	Excessive pressure, incorrect gland design, material incompatibility.	Reduce system pressure if possible. Consult equipment manufacturer for gland design. Ensure seal material is compatible with fluid and temperature.

## SPECIFICATIONS

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Detailed specifications for the SKF 14938 LDS & Small Bore Seal:

**Product Type:** Bearings And Bushings

**Brand:** SKF

**Model:** Small Bore Seal

**Item Model Number:** 14938

**Shaft Diameter:** 1.5 Inches

**Bore Diameter:** 2.25 Inches

**Width:** 0.313 Inches

**Material:** Metal

**Color:** Grey

**Exterior:** Machined

**Item Weight:** 0.864 ounces

**Package Quantity:** 1

**Country Of Origin:** United States

**UPC:** 085311014960

**Global Trade Identification Number:** 00085311014960

## WARRANTY AND SUPPORT

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For specific warranty information and technical support regarding the SKF 14938 LDS & Small Bore Seal, please contact SKF directly or refer to their official website. SKF provides comprehensive support for their products.

- **SKF Official Website:** For product documentation, technical datasheets, and contact information, visit the official SKF website.
- **Customer Service:** Reach out to SKF customer service for assistance with product selection, application questions, or warranty claims.

*Note: Warranty terms and conditions may vary based on region and purchase location. Always retain your proof of purchase.*



