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> [SKF 11161 LDS & Small Bore Seal, R Lip Code, HM21 Style, Inch, 1.125" Shaft Diameter, 1.781" Bore Diameter, 0.25" Width](#)

## SKF 11161

# SKF 11161 LDS & Small Bore Seal Instruction Manual

Model: 11161

## 1. PRODUCT OVERVIEW

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The SKF 11161 is a high-quality LDS (Low Drag Seal) and small bore seal, designed with an R Lip Code and HM21 Style. This inch-sized seal is engineered for specific dimensions, featuring a 1.125-inch shaft diameter, a 1.781-inch bore diameter, and a 0.25-inch width. It is primarily used to prevent leakage and protect components in various industrial and automotive applications.



Image 1.1: The SKF 11161 LDS & Small Bore Seal, showcasing its green outer casing and black sealing lip. This seal is designed for effective fluid retention and contaminant exclusion.

## 2. KEY FEATURES

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- **Bore Seal Design:** Specifically engineered for effective sealing within bores.
- **Precise Dimensions:** Designed for 1.125" shaft diameter, 1.781" bore diameter, and 0.25" width.

- **HM21 Style:** Indicates a specific design configuration for optimal performance.
- **R Lip Code:** Denotes the type of sealing lip for specific application requirements.
- **Durable Construction:** Manufactured in the United States, ensuring quality and reliability.

### 3. INSTALLATION (SETUP)

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Proper installation is crucial for the optimal performance and longevity of the SKF 11161 seal. Follow these general guidelines:

1. **Preparation:** Ensure the shaft and bore surfaces are clean, smooth, and free from burrs, nicks, or scratches. Lubricate the seal lip and the shaft with the system's operating fluid or a compatible lubricant before installation.
2. **Alignment:** Carefully align the seal with the bore. Avoid tilting or cocking the seal during insertion.
3. **Pressing:** Use an appropriate installation tool that applies even pressure around the entire circumference of the seal's outer diameter. Do not use sharp tools or hammers directly on the seal. Press the seal squarely into the bore until it is fully seated.
4. **Shaft Insertion:** Slowly and carefully insert the shaft through the seal. Ensure the shaft's leading edge is chamfered to prevent damage to the seal lip.
5. **Verification:** After installation, visually inspect the seal to ensure it is seated correctly and the lip is not inverted or damaged.

*Note: For specific application requirements, consult the equipment manufacturer's service manual.*

### 4. OPERATION

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Once installed, the SKF 11161 seal operates by creating a dynamic seal between a rotating or oscillating shaft and a stationary bore. The R Lip Code and HM21 Style design ensure effective retention of lubricants and exclusion of contaminants such as dirt, dust, and moisture from entering the system. The seal's material and design are optimized for the specified shaft and bore diameters to maintain a consistent sealing force under various operating conditions, contributing to the efficiency and longevity of the machinery.

### 5. MAINTENANCE

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Seals are wear components and require periodic inspection and replacement to ensure system integrity. While the SKF 11161 seal is designed for durability, its lifespan depends on operating conditions, fluid compatibility, and environmental factors.

- **Regular Inspection:** Periodically inspect the area around the seal for any signs of leakage, excessive wear, or damage to the seal lip.
- **Fluid Compatibility:** Ensure that the lubricants or fluids in contact with the seal are compatible with its material to prevent degradation.
- **Replacement:** Replace the seal immediately if any signs of leakage, cracking, hardening, or excessive wear are observed. It is generally recommended to replace seals during routine maintenance or when disassembling components that house the seal.
- **Storage:** Store new seals in a cool, dry place away from direct sunlight, ozone, and extreme temperatures to preserve their material properties.

### 6. TROUBLESHOOTING

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Most issues related to seals manifest as leakage or premature wear. Here are common troubleshooting steps:

| Symptom             | Possible Cause  | Solution  |
|---------------------|---|---|
| Fluid Leakage       | Damaged or worn seal lip, improper installation, shaft surface damage, excessive pressure, incorrect seal size. | Inspect and replace seal; ensure correct installation; check shaft for damage and repair if necessary; verify system pressure; confirm correct seal dimensions. |
| Premature Seal Wear | Lack of lubrication, abrasive contaminants, excessive temperature, shaft misalignment, incorrect material.      | Ensure adequate lubrication; filter system fluid; check operating temperature; verify shaft alignment; confirm seal material compatibility.                     |
| Seal Extrusion      | Excessive pressure, large clearance between shaft and bore, incorrect seal design for application.              | Reduce system pressure if possible; reduce clearances; ensure seal is rated for application pressure.   |

## 7. SPECIFICATIONS

| Attribute            | Detail                  |
|----------------------|-------------------------|
| Manufacturer         | SKF                     |
| Brand                | SKF                     |
| Model Number         | 11161                   |
| Product Type         | LDS & Small Bore Seal   |
| Lip Code             | R                       |
| Style                | HM21                    |
| Shaft Diameter       | 1.125 inches            |
| Bore Diameter        | 1.781 inches            |
| Width                | 0.25 inches             |
| Item Weight          | 0.353 ounces            |
| Product Dimensions   | 2.5 x 2.5 x 0.63 inches |
| Exterior Finish      | Machined                |
| Country of Origin    | United States           |
| ASIN                 | B00CLIXGB4              |
| Date First Available | July 15, 2012           |

## 8. WARRANTY INFORMATION

SKF products are manufactured to high-quality standards. For specific warranty terms and conditions applicable to the SKF 11161 seal, please refer to the official SKF warranty policy available on the manufacturer's website or contact SKF customer service directly. Warranty coverage typically addresses defects in materials and workmanship under normal use and service.

## 9. SUPPORT AND CONTACT

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For technical assistance, product inquiries, or support regarding the SKF 11161 LDS & Small Bore Seal, please visit the official SKF website or contact their customer support channels. You can find detailed product information, technical datasheets, and contact options on their corporate website.

**SKF Official Website:** [www.skf.com](http://www.skf.com)

For purchases made through Amazon, you may also refer to the seller's return and support policies. The current seller for this product is USAutopartsCar.

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