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## SKF 13598

# SKF 13598 Grease Seal Instruction Manual

Model: 13598 | Brand: SKF

## INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the SKF 13598 Grease Seal. Adhering to these instructions will help ensure optimal performance and longevity of the seal, protecting critical mechanical components from contamination and lubricant loss.

## PRODUCT OVERVIEW

The SKF 13598 is a high-quality grease seal designed for various mechanical applications, particularly in automotive wheel assemblies. Its primary function is to prevent the ingress of dirt, water, and other contaminants into bearing systems while retaining lubricating grease. Constructed from durable nitrile rubber, this seal offers reliable performance within its specified temperature range.



*Image 1: Front view of the SKF 13598 Grease Seal. This image shows the seal's primary sealing lip and the garter spring designed to maintain consistent pressure on the shaft. The outer casing is typically made of metal or a rigid material for structural integrity.*

## SAFETY INFORMATION

Always observe standard safety precautions when working with mechanical components. Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves. Ensure the work area is clean and well-lit. Refer to the vehicle or equipment manufacturer's service manual for specific safety guidelines related to the application.

- Disconnect power sources before working on machinery.
- Use proper tools for installation and removal to prevent injury or damage.
- Keep hands and clothing clear of moving parts.
- Dispose of old seals and lubricants responsibly.

## INSTALLATION INSTRUCTIONS

Proper installation is crucial for the effective performance and lifespan of the grease seal. Follow these general steps:

1. **Preparation:** Thoroughly clean the housing bore and shaft surface where the seal will be installed. Remove any old lubricant, dirt, or burrs. Inspect the shaft for any nicks or scratches that could damage the seal lip.
2. **Lubrication:** Apply a thin layer of clean grease or lubricant compatible with the seal material (nitrile rubber) to the sealing lip and the shaft surface. This aids in installation and prevents initial dry running.
3. **Alignment:** Carefully align the seal with the housing bore. Ensure it is square to the bore to prevent cocking during

installation.

4. **Pressing:** Use a seal driver or a suitable press tool that contacts the outer metal case of the seal. Apply even, steady pressure to press the seal into the bore until it is fully seated. *Do not strike the seal directly with a hammer*, as this can deform the seal or damage the sealing lip.
5. **Inspection:** After installation, visually inspect the seal to ensure it is seated correctly, not cocked, and that the sealing lip is not inverted or damaged.



Image 2: Side view of the SKF 13598 Grease Seal. This view highlights the robust construction and the outer diameter designed for a press fit into a housing bore.

## OPERATION

Once installed, the SKF 13598 Grease Seal operates by creating a tight barrier between the rotating shaft and the stationary housing. The nitrile rubber sealing lip, often reinforced by a garter spring, maintains continuous contact with the shaft, preventing lubricant from escaping and contaminants from entering the bearing assembly. The seal is designed to function effectively within its specified temperature and pressure limits, providing long-term protection for mechanical systems.

## MAINTENANCE

Grease seals are wear components and require periodic inspection and replacement. Regular maintenance helps prevent premature failure of bearings and other critical parts.

- **Inspection:** During routine service or when other components are being replaced, inspect the seal for signs of wear, cracking, hardening, or leakage. A leaking seal indicates a failure and requires immediate replacement.

- **Replacement:** Replace seals whenever bearings are serviced or replaced, or if any signs of damage or leakage are observed. Seals are generally considered single-use items and should not be reinstalled once removed.
- **Lubrication:** Ensure that the bearing assembly is adequately lubricated with the correct type and amount of grease as specified by the equipment manufacturer. Proper lubrication is vital for both bearing and seal life.

## TROUBLESHOOTING

If issues arise with the grease seal, consider the following common problems and their potential causes:

Problem	Possible Cause	Solution
<b>Premature Seal Leakage</b>	Improper installation (cocked seal, damaged lip), incorrect seal size, worn shaft, excessive pressure, incompatible lubricant, high temperature.	Reinstall correctly, replace with proper size, repair/replace shaft, check system pressure, use correct lubricant, address temperature issues.
<b>Seal Hardening/Cracking</b>	Exposure to excessive heat, chemical incompatibility with lubricant or environment, age.	Replace seal, ensure proper operating temperature, use compatible lubricants.
<b>Seal Lip Wear</b>	Abrasive contaminants, dry running, excessive shaft runout, improper shaft finish.	Improve contamination exclusion, ensure proper lubrication, check shaft alignment, verify shaft surface finish.

## SPECIFICATIONS

Attribute	Detail
<b>Model Number</b>	13598
<b>Brand</b>	SKF
<b>Material</b>	Nitrile rubber
<b>Recommended Uses</b>	Mechanical, Prevent Corrosion
<b>Upper Temperature Rating</b>	212 Degrees Fahrenheit (100 Degrees Celsius)
<b>Item Weight</b>	22.23 g (0.784 ounces)
<b>Product Dimensions</b>	2.5 x 2.5 x 0.63 inches (approximate)
<b>GTIN / UPC</b>	085311012744
<b>Package Contents</b>	1x SKF 13598 Grease Seal

## WARRANTY AND SUPPORT

For warranty information or technical support regarding the SKF 13598 Grease Seal, please refer to the official SKF website or contact SKF customer service directly. Keep your purchase receipt for any warranty claims. SKF is committed to providing high-quality products and support.

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

