SKF 35107

SKF 35107 Seal Instruction Manual

Model: 35107

Brand: SKF

1. Introduction

This instruction manual provides essential information for the proper handling, installation, and maintenance of the SKF 35107 Seal. Designed for automotive applications, this seal plays a critical role in protecting components by retaining lubricants and excluding contaminants. Adhering to these guidelines will help ensure optimal performance and longevity of the seal and associated systems.

2. Product Overview

The SKF 35107 Seal is engineered for high performance in demanding automotive environments. Its design focuses on reliability and durability, ensuring effective sealing under various operating conditions.

- **Keeps Lubricants in and Contaminants Out:** Essential for protecting bearings and other critical components from wear and damage.
- **Optimized Compounds:** Manufactured with materials designed to perform reliably in extreme operating conditions, including variations in temperature and pressure.
- **Superior Fluid and Temperature Compatibility:** Ensures the seal maintains its integrity and effectiveness when exposed to various automotive fluids and temperature ranges.
- **Excellent Contamination Exclusion:** Provides a robust barrier against dust, dirt, water, and other external contaminants.

Figure 1: The SKF 35107 Seal. This image displays the circular seal, featuring a distinct red outer band and a lighter, beige-colored inner ring, with a dark inner circumference. This design is typical for automotive seals, indicating its robust construction for sealing applications.

3. Installation Guidelines

Proper installation is crucial for the effective performance and longevity of the SKF 35107 Seal. It is highly recommended that installation be performed by a qualified technician following the vehicle manufacturer's service manual. Incorrect installation can lead to premature seal failure, lubricant leakage, and potential damage to associated components.

General Steps for Seal Installation:

1. **Preparation:** Ensure the mating surfaces (e.g., shaft, bore) are clean, smooth, and free from burrs, rust, or any damage. Use appropriate cleaning agents and lint-free cloths.
2. **Lubrication:** Lightly lubricate the seal lip and the shaft with the recommended lubricant (e.g., clean engine oil, grease) to facilitate smooth installation and prevent initial dry running.
3. **Orientation:** Verify the correct orientation of the seal. The primary sealing lip typically faces the lubricant side. Refer to the vehicle's service manual for specific details.
4. **Installation Tool:** Use a dedicated seal installation tool or a suitable drift that applies even pressure around the entire circumference of the seal. Avoid using hammers directly on the seal or tools that could deform it.
5. **Pressing:** Press the seal squarely into its bore until it is fully seated. Ensure it is not cocked or damaged during the process.
6. **Inspection:** After installation, visually inspect the seal for any signs of damage, crimping, or improper seating.

Note: Always consult the specific vehicle or component service manual for detailed, model-specific installation procedures, torque specifications, and recommended tools.

4. Operating Principles

The SKF 35107 Seal operates by creating a dynamic barrier between two environments, typically to retain lubricating fluids within a system and prevent the ingress of external contaminants. The primary sealing lip maintains continuous contact with a rotating or oscillating shaft, forming a thin film of lubricant that minimizes friction while effectively sealing. The robust construction and material composition ensure consistent performance across varying speeds, temperatures, and pressures encountered in automotive

applications.

5. Maintenance

Seals are wear components and require periodic inspection and replacement to maintain system integrity. While the SKF 35107 Seal is designed for durability, its lifespan is influenced by operating conditions, environment, and proper installation.

Recommended Maintenance Practices:

- **Regular Inspection:** During routine vehicle maintenance, visually inspect areas around seals for signs of lubricant leakage or external damage.
- **Leak Detection:** Any visible oil or fluid seepage around the seal indicates a potential failure and warrants immediate attention.
- **Replacement Intervals:** Follow the vehicle manufacturer's recommended service intervals for seal replacement, especially when performing related component replacements (e.g., wheel bearings).
- **Component Compatibility:** Ensure that any lubricants or fluids used in the system are compatible with the seal material to prevent degradation.

Prompt replacement of a failing seal can prevent more extensive and costly damage to bearings and other critical automotive components.

6. Troubleshooting

If issues arise after seal installation or during operation, consider the following common problems and their potential causes:

Symptom	Possible Cause	Action
Lubricant Leakage	Improper installation (cocked seal), damaged seal lip, worn shaft surface, incorrect seal size, excessive pressure.	Re-inspect installation, replace seal, check shaft for damage, verify correct seal part number.
Premature Seal Wear	Lack of lubrication, abrasive contaminants, excessive shaft runout, high operating temperatures, incorrect material compatibility.	Ensure proper lubrication, check for contamination sources, inspect shaft and bearing condition, verify operating conditions.
Seal Extrusion/Damage	Over-pressurization, incorrect installation tool, excessive clearance in bore.	Verify system pressure, use correct installation tools, check bore dimensions.

If troubleshooting steps do not resolve the issue, consult a professional automotive technician or contact SKF customer support.

7. Specifications

Manufacturer	SKF USA, Inc.
Brand	SKF
Model Number	35107

Item Weight	10.7 ounces
Package Dimensions	6.63 x 6.63 x 0.75 inches
Exterior Finish	Machined
Manufacturer Part Number	35107
ASIN	B00460FTE2
Date First Available	November 2, 2010

8. Warranty Information

SKF products are manufactured to high-quality standards. For specific warranty terms and conditions applicable to the SKF 35107 Seal, please refer to the official SKF warranty policy available on their corporate website or contact SKF customer service directly. Warranty coverage typically addresses manufacturing defects under normal use and service conditions.

9. Support

For technical assistance, product inquiries, or support regarding the SKF 35107 Seal, please contact SKF customer service. You can find contact information and additional resources on the official SKF website. For general product information, you may also visit the SKF Store on Amazon.

Related Documents - 35107

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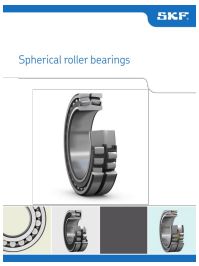
	SKF Rolling Bearings Catalog: Selection Guide and Technical Data Comprehensive catalog from SKF detailing rolling bearings for industrial applications. Covers bearing selection processes, types, technical specifications, and performance data to help engineers and designers choose the optimal bearing solution.
	SKF Automatic Lubricators: LAGD, TLSD, TLMR, TLMP Series - Product Guide Comprehensive guide to SKF Automatic Lubricators, including LAGD, TLSD, TLMR, and TLMP series. Learn about features, benefits, applications, technical specifications, and accessories for improved safety, reliability, and maintenance.

	[SKF Spherical Roller Bearings: Comprehensive Catalog and Technical Guide] Explore the SKF range of spherical roller bearings, detailing designs (CC, CA, E), sealed variants, technical specifications, load capacities, misalignment accommodation, and product tables for demanding industrial applications.
	[SKF TKBA 40 Belt Alignment Tool User Manual] This user manual provides comprehensive instructions for operating the SKF TKBA 40 Belt Alignment Tool, detailing its technical specifications, application range, troubleshooting, and maintenance procedures.
	[SKF TKSA 51 Shaft Alignment Tool - User Manual and Specifications] Comprehensive user manual for the SKF TKSA 51 shaft alignment tool, detailing its features, technical specifications, setup, operation, and maintenance. Learn how to perform precise shaft alignments for industrial machinery.