

MOOG LK009

MOOG LK009 Suspension Knuckle Assembly User Manual

For Nissan Altima (2002-2006) and Nissan Maxima (2004-2008)

INTRODUCTION

This manual provides essential information for the installation, maintenance, and general understanding of the MOOG LK009 Suspension Knuckle Assembly. This product is engineered to deliver reliable performance and simplify the replacement process for compatible vehicles.

Product Overview

The MOOG LK009 is a complete knuckle assembly designed for specific Nissan models. It integrates multiple components into a single pre-assembled unit, aiming to streamline the replacement of worn or damaged suspension parts.

Compatibility

- 2002-2006 Nissan Altima
- 2004-2008 Nissan Maxima

Always verify compatibility with your specific vehicle's year, make, model, engine, and trim before installation. Refer to the manufacturer's official resources for detailed fitment information.

SETUP AND INSTALLATION

The MOOG LK009 Suspension Knuckle Assembly is designed for straightforward installation, often eliminating the need for specialized tools or a press. It comes pre-assembled with key components.

Components Included

- MOOG Knuckle
- MOOG Wheel Hub with Studs
- Bearing
- Axle Nut
- Backing Plate
- Premium Ball Joint (where applicable)

General Installation Steps (Consult a professional service manual for detailed

vehicle-specific instructions):

1. Safely lift and support the vehicle.
2. Remove the wheel and brake caliper assembly.
3. Disconnect the tie rod end, lower ball joint, and strut from the old knuckle.
4. Remove the axle nut and separate the axle shaft from the hub.
5. Remove the old knuckle assembly.
6. Install the new MOOG LK009 assembly, ensuring all connections are secure and torqued to manufacturer specifications.
7. Reassemble brake components and wheel.
8. Perform a wheel alignment after installation.

EASY TO INSTALL

Innovative bolt-on, pre-assembled solution designed to make troublesome bearing replacement easier and eliminate the need for special tools or a press



Figure 1: The MOOG LK009 assembly is designed for easy, bolt-on installation, reducing the need for specialized tools.

COMPLETE SOLUTION

Pre-assembled for convenience and includes premium parts like a MOOG® knuckle, MOOG wheel hub with studs, bearing, axle nut, backing plate and premium ball joint (where applicable)

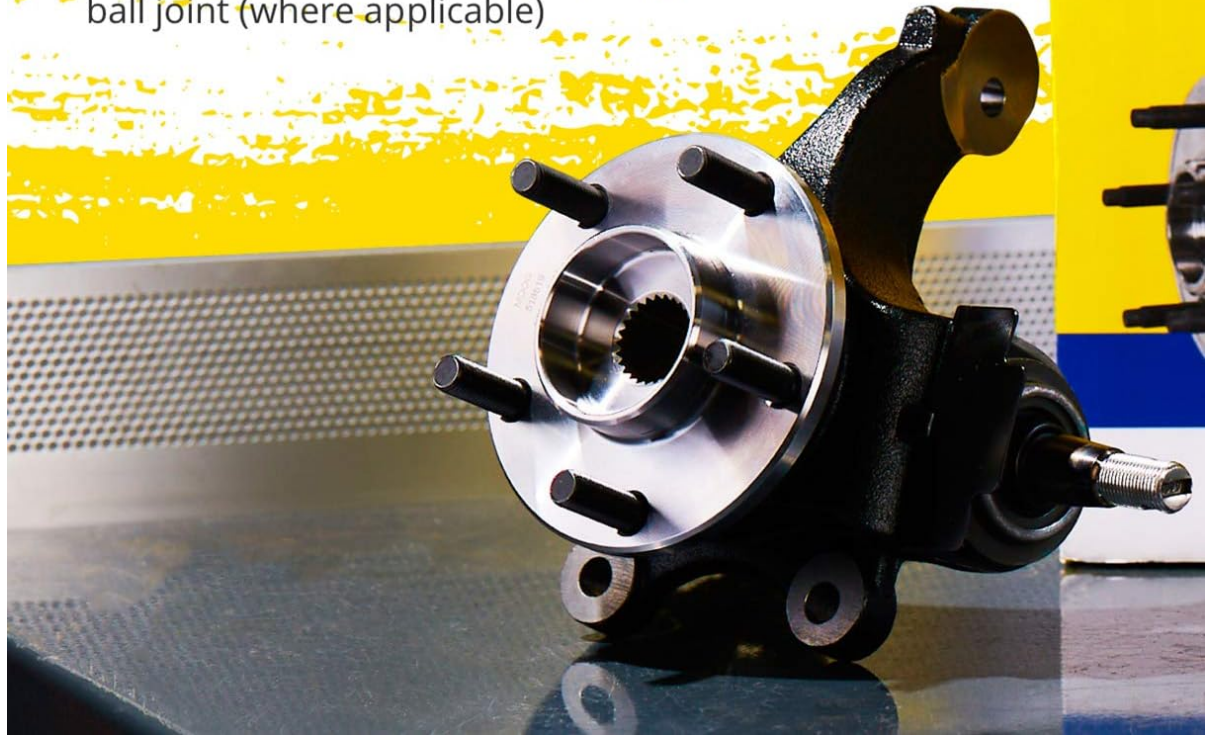


Figure 2: The complete solution includes the knuckle, wheel hub with studs, bearing, axle nut, and backing plate.

OPERATION

Once correctly installed, the MOOG LK009 Suspension Knuckle Assembly functions as a critical component of your vehicle's steering and suspension system. It provides the mounting points for the wheel hub, brake caliper, steering linkage, and suspension components, ensuring proper wheel alignment and vehicle control. Proper installation is crucial for optimal performance and vehicle safety. Any unusual noises, vibrations, or changes in steering feel after installation should be investigated immediately by a qualified technician.

MAINTENANCE

The MOOG LK009 Suspension Knuckle Assembly is designed for long-term durability with minimal maintenance requirements. However, periodic inspection of related components is recommended as part of routine vehicle maintenance.

Inspection Points:

- **Visual Check:** Inspect the knuckle, hub, and backing plate for any signs of damage, cracks, or excessive wear.
- **Corrosion Protection:** The e-Coated backing plate and knuckle provide enhanced rust protection. Ensure this coating is intact and free from significant damage.

- **Fastener Torque:** Periodically check the torque of all fasteners connecting the knuckle to other suspension and steering components.
- **Wheel Bearing:** Listen for any abnormal noises (e.g., humming, grinding) that might indicate a worn wheel bearing.

CORROSION PROTECTION

E-Coated backing plate and knuckle provides long-lasting corrosion resistance



Figure 3: The e-coating on the backing plate and knuckle provides long-lasting resistance against corrosion.

TROUBLESHOOTING

If you experience issues after installing the MOOG LK009 Suspension Knuckle Assembly, consider the following common troubleshooting steps. Always prioritize safety and consult a qualified mechanic if you are unsure.

Common Issues and Solutions:

- **Incorrect Fitment:**

Symptom: The assembly does not align correctly, or components do not attach properly.

Solution: Double-check the product compatibility with your specific vehicle's year, make, model, engine, and trim. Ensure you have the correct part for the intended side (left/right, if applicable). Refer to the vehicle's service manual for correct installation procedures.

- **Abnormal Noises (e.g., humming, grinding):**

Symptom: Noise originating from the wheel area, especially during driving.

Solution: This often indicates a wheel bearing issue. While the MOOG LK009 includes a new bearing, improper installation or a rare manufacturing defect could be the cause. Inspect for proper seating of the

axle nut and ensure all components are torqued correctly. If noises persist, professional diagnosis is recommended.

- **Steering or Alignment Issues:**

Symptom: Vehicle pulls to one side, steering wheel is off-center, or uneven tire wear.

Solution: A wheel alignment is mandatory after replacing suspension components like the knuckle assembly. If alignment was performed and issues persist, re-verify all connections and ensure no components were damaged during installation. A review mentioned potential tie rod angle issues for specific older models; ensure your vehicle falls within the specified compatibility range.

MOOG products undergo rigorous testing to ensure quality and dependability. If issues persist after troubleshooting, contact MOOG customer support or a certified automotive technician.

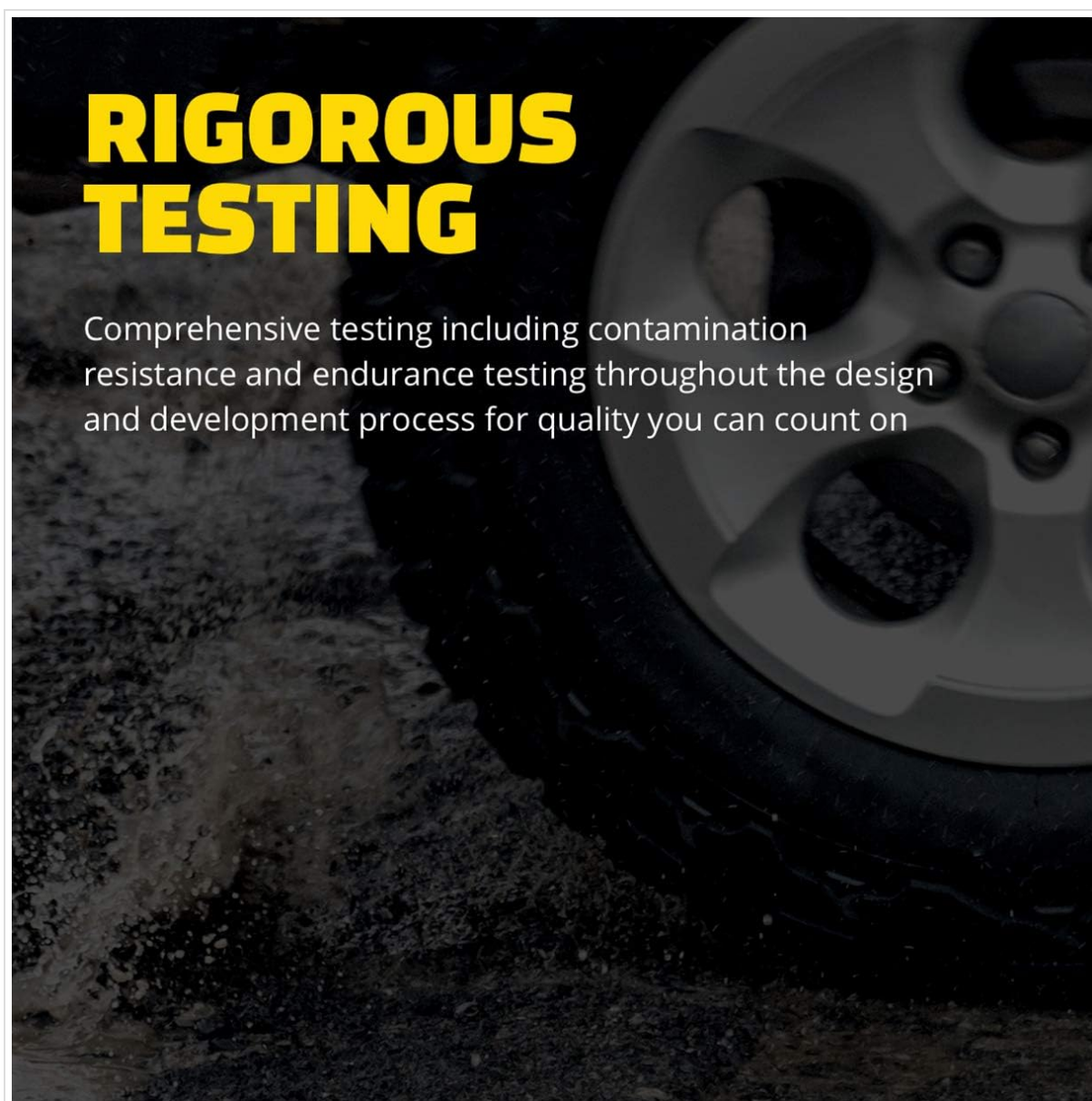


Figure 4: MOOG products undergo comprehensive testing for contamination resistance and endurance.

SPECIFICATIONS

Brand	MOOG
Model Number	LK009

Item Weight	19.66 pounds (approx. 8.92 kg)
Product Dimensions	14.49 x 13.94 x 10.32 inches (approx. 36.8 x 35.4 x 26.2 cm)
Exterior Finish	Smooth, e-Coated
Manufacturer	MOOG Hub Assemblies
Compatibility	2002-2006 Nissan Altima; 2004-2008 Nissan Maxima



Figure 5: Front view of the MOOG LK009 Suspension Knuckle Assembly, showing the wheel hub and studs.



Figure 6: Rear view of the MOOG LK009 Suspension Knuckle Assembly, highlighting the bearing and mounting points.

WARRANTY INFORMATION


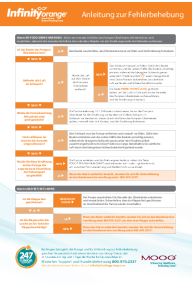
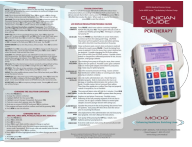


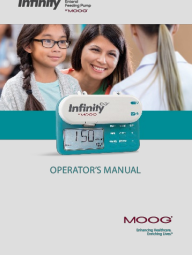
MOOG products are manufactured to high standards and are typically backed by a manufacturer's warranty. For specific warranty terms, conditions, and duration, please refer to the documentation included with your product or visit the official MOOG website. Keep your proof of purchase for any warranty claims.

CUSTOMER SUPPORT

For technical assistance, installation questions, or warranty inquiries, please contact MOOG customer support directly. You can find contact information on the official MOOG website or through the retailer where the product was purchased.

Official MOOG Store: [Visit the MOOG Store on Amazon](#)

Related Documents - LK009

	<p>Moog Minimoog Voyager Analog Synthesizer User Manual - Setup, Features, and Operation</p> <p>Comprehensive user manual for the Moog Minimoog Voyager analog synthesizer, covering setup, connections, components, user interface, synthesis basics, MIDI implementation, and technical specifications.</p>
	<p>Infinityorange Enteral Feeding Pump Fehlerbehebungsanleitung</p> <p>Detaillierte Fehlerbehebungsanleitung für die Moog Infinityorange Enteral Feeding Pump, die gängige Alarmer wie NO FOOD und LOAD SET abdeckt und Schritt-für-Schritt-Lösungen bietet.</p>
	<p>Moog Curlin 6000 Series PCA Therapy Clinician Guide</p> <p>Comprehensive clinician guide for the Moog Curlin 6000 Series Ambulatory Infusion Pump, detailing PCA therapy setup, programming, options, and troubleshooting.</p>
	<p>Build Your Own Minimoog Model D Paper Synth</p> <p>A comprehensive guide to building a paper model of the iconic Moog Minimoog Model D synthesizer. This DIY project includes printable templates and step-by-step assembly instructions for creating your own miniature replica.</p>
	<p>Moog GR1200-E 1200ml Gravity Enteral Delivery Set with ENFit Connector - Instructions for Use</p> <p>Detailed instructions and safety precautions for the Moog GR1200-E 1200ml Gravity Enteral Delivery Set with ENFit Connector. Learn how to properly set up and use this medical device.</p>
	<p>Infinity Enteral Feeding Pump Operator's Manual</p> <p>Operator's Manual for the Moog Infinity Enteral Feeding Pump, detailing its features, operation, safety warnings, and troubleshooting for healthcare professionals and caregivers.</p>