

## MOOG RK623938

# MOOG RK623938 Suspension Control Arm and Ball Joint Assembly

## USER MANUAL

Model: RK623938 | Brand: MOOG

### 1. Introduction

The MOOG RK623938 Suspension Control Arm and Ball Joint Assembly is a critical component designed to connect the vehicle's frame to the steering knuckle or wheel hub, allowing for controlled movement of the suspension. This assembly plays a vital role in maintaining proper wheel alignment, steering stability, and ride comfort. Engineered for structural strength and corrosion protection, this MOOG product ensures long-lasting dependability and performance for both foreign and domestic nameplates.

### 2. Product Features

The MOOG RK623938 Control Arm and Ball Joint Assembly incorporates several design features to enhance durability and ease of installation:

- **Easy to Install:** Features wrench flats that ensure straightforward installation and removal, simplifying the replacement process.
- **Sealed Boot Protection:** Equipped with a sealed boot that effectively shields internal components from wear-causing contaminants such as dirt, water, and debris, extending the lifespan of the ball joint.
- **Strong and Durable Construction:** Built with a thick connecting rod for added strength, complemented by metal bearings and rubber preload for long-term reliability and consistent performance.
- **Premium Materials:** Manufactured using high-quality materials to ensure exceptional durability and resistance to wear and tear under various driving conditions.
- **Rigorous Testing:** Undergoes comprehensive testing throughout its design and development phases by MOOG engineers, guaranteeing a product that meets stringent quality standards.



*Image 1: The MOOG RK623938 Suspension Control Arm and Ball Joint Assembly. This image shows the complete assembly, highlighting the robust construction of the control arm and the integrated ball joint with its protective boot and mounting nut.*

### 3. Installation Guidelines

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Installation of suspension components requires specialized tools and knowledge. It is highly recommended that the MOOG RK623938 Suspension Control Arm and Ball Joint Assembly be installed by a qualified automotive technician.

#### **General Steps (Consult Vehicle Service Manual for Specifics):**

1. **Safety First:** Ensure the vehicle is safely lifted and supported on jack stands. Disconnect the battery if working near electrical components.
2. **Remove Wheel:** Remove the wheel from the side where the control arm is to be replaced.
3. **Access Components:** Locate the existing control arm and identify all mounting points (bolts, nuts, ball joint connection).
4. **Disconnect Ball Joint:** Carefully separate the ball joint from the steering knuckle using appropriate tools (e.g., ball joint separator).
5. **Remove Control Arm:** Unbolt the control arm from the vehicle frame or subframe. Note the orientation and any shims or washers.
6. **Install New Assembly:** Position the new MOOG RK623938 assembly and loosely attach the frame mounting bolts.
7. **Connect Ball Joint:** Connect the new ball joint to the steering knuckle. Ensure proper seating and torque the nut to manufacturer specifications.
8. **Final Torque:** With the vehicle's weight on the suspension (or at ride height), torque all control arm mounting bolts to the vehicle manufacturer's specifications. This is crucial to prevent premature bushing wear.
9. **Reassemble:** Reinstall the wheel and lower the vehicle.
10. **Alignment:** A wheel alignment is highly recommended after replacing any suspension components to ensure proper handling and tire wear.

**Important:** Always refer to your vehicle's specific service manual for detailed instructions, torque

specifications, and safety precautions.

## 4. Operating Principle

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The control arm, also known as a wishbone or A-arm, is a hinged suspension link that connects the chassis to the wheel hub or steering knuckle. Its primary function is to allow the wheel to move up and down relative to the vehicle body while maintaining proper alignment and stability. The integrated ball joint acts as a flexible pivot, allowing the steering knuckle to turn and articulate while the suspension moves. Together, they absorb road shocks, maintain tire contact with the road, and facilitate precise steering control.

## 5. Maintenance

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While the MOOG RK623938 is designed for durability with its sealed ball joint, periodic inspection of your vehicle's suspension components is crucial for safety and longevity.

- **Regular Inspection:** During routine vehicle maintenance (e.g., oil changes, tire rotations), have a technician inspect the control arms, ball joints, and bushings for signs of wear, cracks, or damage.
- **Check for Play:** Look for excessive play in the ball joint or bushings. This can indicate wear and necessitate replacement.
- **Inspect Boots:** Ensure the ball joint boot is intact and not torn or cracked. A damaged boot can lead to contamination and premature failure of the ball joint.
- **Listen for Noises:** Pay attention to any clunking, squeaking, or rattling noises coming from the suspension, especially over bumps or during turns. These can be indicators of worn components.

## 6. Troubleshooting

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If you experience any of the following symptoms, your control arm or ball joint assembly may require inspection or replacement:

- **Clunking or Popping Noises:** Often heard when going over bumps, turning, or braking, indicating loose or worn ball joints or bushings.
- **Steering Wander or Looseness:** The vehicle may feel less stable, requiring constant steering corrections to stay in a straight line.
- **Uneven Tire Wear:** Worn suspension components can lead to improper wheel alignment, causing tires to wear unevenly.
- **Vibrations:** Vibrations felt through the steering wheel or floorboards, especially at certain speeds.
- **Vehicle Pulling to One Side:** While many factors can cause this, a worn control arm or ball joint can contribute to the issue.

If you notice any of these symptoms, it is crucial to have your vehicle inspected by a professional technician immediately to prevent further damage and ensure driving safety.

## 7. Specifications

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Attribute	Detail
Brand	MOOG
Model Number	RK623938

<b>Manufacturer</b>	DRiV Incorporated
<b>Product Type</b>	Suspension Control Arm and Ball Joint Assembly
<b>Item Weight</b>	1.11 kg
<b>Parcel Dimensions</b>	51.56 x 15.24 x 12.95 cm
<b>Exterior Finish</b>	Machined
<b>Fit Type</b>	Vehicle Specific Fit
<b>UPC</b>	080066724751

## 8. Warranty and Support

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MOOG stands behind the quality and durability of its products. For specific warranty information regarding the RK623938 Suspension Control Arm and Ball Joint Assembly, please refer to the official MOOG website or contact their customer support directly. Keep your purchase receipt as proof of purchase for any warranty claims.

For technical assistance, installation questions, or to locate an authorized MOOG distributor, please visit the official MOOG website or contact their customer service department. Always ensure you are using genuine MOOG parts for optimal performance and safety.

**Official MOOG Website:** [www.moogparts.com](http://www.moogparts.com)