

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [MOOG](#) /

› [MOOG K9820 Suspension Ball Joint Front Lower Instruction Manual](#)

MOOG K9820

MOOG K9820 Suspension Ball Joint Front Lower Instruction Manual

Brand: MOOG | Model: K9820

Product
Overview

[Components](#) [Setup](#) [Operating](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#)

1. PRODUCT OVERVIEW

The MOOG K9820 Suspension Ball Joint is engineered for reliable performance and ease of installation, designed to meet or exceed original equipment specifications. This component is crucial for maintaining proper steering and suspension function in your vehicle.

Key Features:

- Superior Materials:** Constructed with hardened ball studs made of OE equivalent or better materials to withstand higher loads.
- Rigorous Testing:** Backed by extensive testing to ensure reliable performance.
- Easy Installation:** Designed with problem-solving innovations for a fast, hassle-free installation process.
- Robust Construction:** Features a premium forged housing with an increased cross-section, providing up to 52% more material in key areas for enhanced durability.
- Validated Design:** Construction and design are validated by MOOG engineers.
- Broad Application:** Suitable for a wide range of foreign and domestic vehicle applications.
- Performance Standards:** Engineered to meet or exceed original equipment performance.

2. PRODUCT COMPONENTS

The MOOG K9820 Suspension Ball Joint includes the main ball joint assembly, a castle nut, a cotter pin, and a snap ring for secure installation.



Image: MOOG K9820 Suspension Ball Joint Front Lower, showing the main assembly, castle nut, cotter pin, and snap ring.

3. SETUP AND INSTALLATION

Proper preparation is crucial for the correct installation and longevity of the ball joint. Ensure the receiving pocket is clean and free of debris.

Preparation Steps:

- 1. Clean the Pocket:** Before pressing the new ball joint into place, thoroughly clean the pocket or area where it will be installed. Remove any rust, scale, or other debris. Failure to do so can lead to excessive pressure on the ball joint case and stud, potentially causing "memory steer" and premature wear.
- 2. Consult Vehicle-Specific Manual:** Always refer to your vehicle's service manual for specific torque specifications and detailed installation procedures.

Your browser does not support the video tag.

Video: Ball Joint Installation Tips. This video provides general guidance on preparing the installation area for a ball joint.

4. OPERATING CONSIDERATIONS

Once installed, the MOOG K9820 ball joint contributes to the proper functioning of your vehicle's suspension and steering system. It allows for smooth articulation of the suspension components while maintaining wheel alignment.

- **Smooth Steering:** A properly installed ball joint ensures the steering wheel returns to center after turning, preventing "memory steer."
- **Stable Handling:** Contributes to stable and predictable vehicle handling.
- **Reduced Tire Wear:** Helps maintain correct wheel alignment, which is essential for even tire wear.

5. INSPECTION AND MAINTENANCE

Regular inspection of ball joints is vital for vehicle safety and performance. Loose ball joints can lead to alignment issues, affecting handling and tire wear. It is recommended to check ball joints at regular service intervals and during any wheel alignment procedures.

Inspection Procedure:

1. **Lift Vehicle:** Use a floor jack to raise one tire at a time, ensuring the suspension is unloaded and the upper control arm is not touching the frame (for load-carrying ball joints). For MacPherson strut suspensions, lift the vehicle off the ground.
2. **Check for Vertical Looseness (Load-Carrying):** Use a pry bar to check for vertical play between the stud and ball joint housing.
3. **Check for Horizontal Looseness (Load-Carrying):** Grab the tire at the 3 and 9 o'clock positions and move it in and out.
4. **Check for Axial Looseness (MacPherson Strut):** Use a pry bar to lift the weight off the unloaded tire and wheel assembly. If using a dial indicator, attach it to measure axial looseness.
5. **Check for Radial Looseness (MacPherson Strut):** Push in and pull out on the bottom of the tire (6 and 12 o'clock positions).
6. **Evaluate Play:** While some manufacturers allow for a small amount of play within specifications, even minimal looseness can cause alignment and handling issues, especially when combined with other worn components. Use your best judgment to determine if replacement is necessary.

Your browser does not support the video tag.

Video: How to Inspect Ball Joints for Looseness. This video demonstrates the proper techniques for inspecting ball joints for wear and looseness.

6. TROUBLESHOOTING COMMON ISSUES

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

- **Clunking or Popping Noises:** Often heard when going over bumps or turning.
- **Excessive Play in Steering:** Loose or sloppy steering feel.
- **Uneven Tire Wear:** Can indicate alignment issues caused by worn ball joints.
- **Vehicle Pulling:** The vehicle drifts to one side while driving straight.
- **Vibrations:** Steering wheel or vehicle vibrations, especially at certain speeds.

Always consult a qualified mechanic for diagnosis and repair if you suspect a faulty ball joint.

7. PRODUCT SPECIFICATIONS

Specification	Detail
Brand	MOOG
Manufacturer	MOOG Chassis Products
Model Number	K9820
Item Weight	11.2 ounces
Product Dimensions	5.25 x 3.31 x 2.75 inches
Position	Front
Manufacturer Part Number	K9820
OEM Part Number	K9820
Date First Available	June 1, 2006

8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your MOOG K9820 Suspension Ball Joint, please refer to the official MOOG website or contact their customer service department. Keep your purchase receipt for warranty claims.

Online Resources: Visit moogparts.com for additional technical tips and product information.