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> maXpeedingrods 2.5" Leveling Kit User Manual

maXpeedingrods KJ221

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Model: KJ221

1. PRODUCT OVERVIEW

This manual provides detailed instructions for the installation, operation, and maintenance of the maXpeedingrods 2.5" Front Leveling Kit. This kit is designed to provide a 2.5-inch front lift, increasing ground clearance and allowing for larger tire fitment on compatible vehicles.

Compatibility:

- Jeep Gladiator JT 2020-2022 4WD
- Jeep Wrangler JL 2-door 4WD/2WD 2018-2022
- Jeep Wrangler JL Unlimited 4WD/2WD 2018-2022

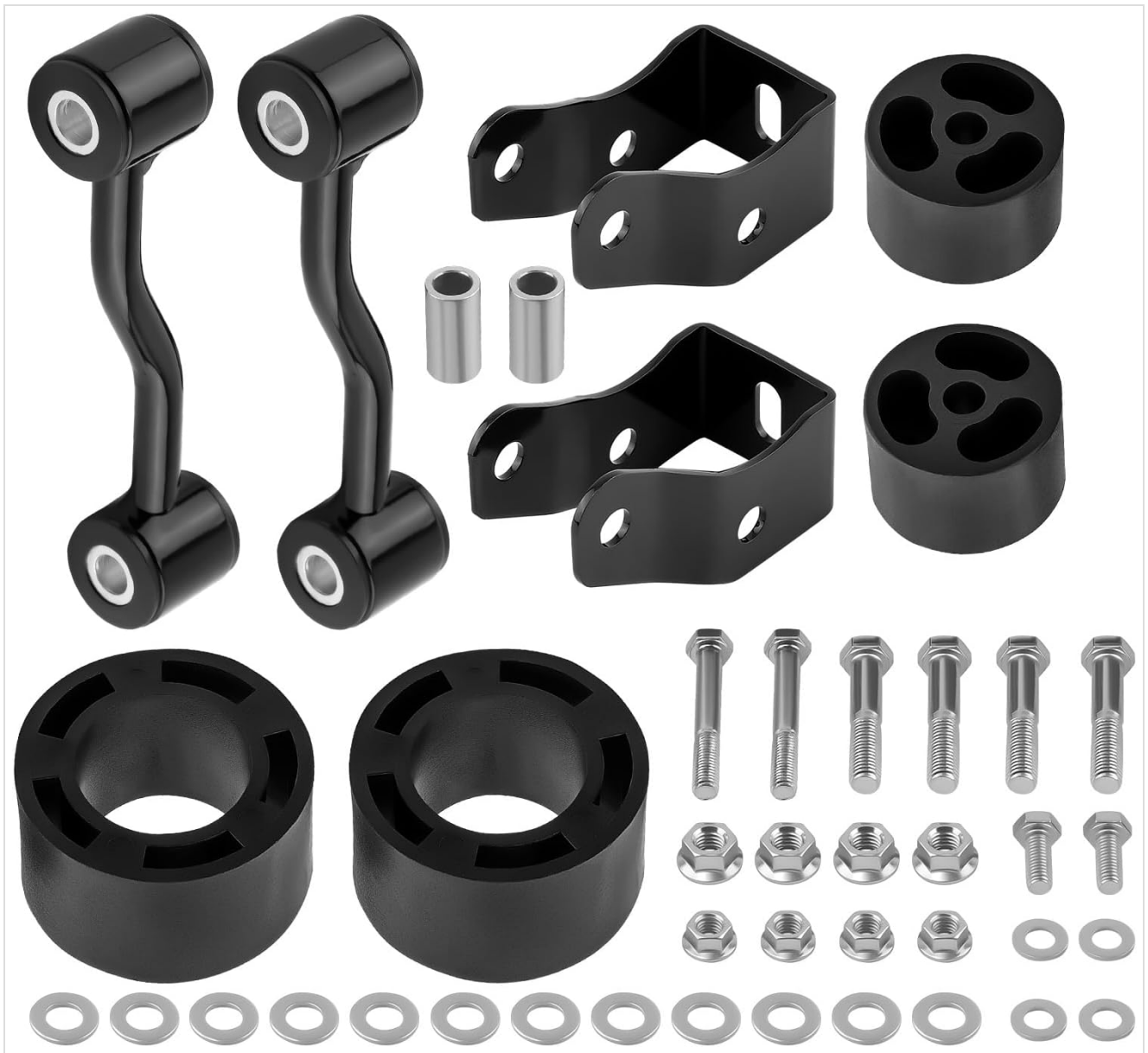


Figure 1: All components included in the maXspeedingrods 2.5" Leveling Kit.

2. SETUP AND INSTALLATION

Installation of this leveling kit requires mechanical knowledge and appropriate tools. If you are not confident in performing the installation yourself, it is recommended to seek professional assistance.

2.1 Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is parked on a flat, stable surface.
- Use jack stands to support the vehicle securely after lifting. Never work under a vehicle supported only by a jack.
- Disconnect the negative terminal of the battery before starting work.
- Refer to your vehicle's service manual for specific torque specifications and procedures.

2.2 Tools Required (Commonly Needed)

- Floor Jack
- Jack Stands

- Wheel Chocks
- Socket Wrench Set
- Open-End Wrench Set
- Torque Wrench
- Pry Bar (optional, for leverage)
- Spring Compressor (if required for coil removal, though often not needed for spacer installation)

2.3 General Installation Steps

The following steps are a general guide. Specific procedures may vary slightly based on vehicle model and existing modifications. Always consult detailed vehicle-specific guides or professional installers.

1. **Prepare Vehicle:** Park the vehicle on a level surface, engage the parking brake, and chock the rear wheels. Loosen the front lug nuts.
2. **Lift Front End:** Using a floor jack, lift the front of the vehicle and place jack stands securely under the frame rails. Remove the front wheels.
3. **Disconnect Components:** Carefully disconnect the sway bar links, shock absorbers, and any other components that restrict the suspension's downward travel. This may involve removing bolts from the lower control arm or axle.
4. **Lower Axle:** Slowly lower the axle until the coil springs are no longer under compression and can be removed.
5. **Install Coil Spacers:** Place the maXpeedingrods coil spacers on top of the factory coil springs or between the spring and the upper spring perch, depending on the design. Ensure they are seated correctly.
6. **Install Shock Relocation Brackets:** Attach the shock relocation brackets to the appropriate mounting points, typically extending the lower shock mount to compensate for the lift.
7. **Install Sway Bar Links:** Replace the factory sway bar links with the provided longer maXpeedingrods sway bar links to maintain proper sway bar geometry.
8. **Install Bump Stops:** Install the new bump stops as directed, usually replacing the factory ones to prevent over-compression of the suspension.
9. **Reassemble:** Carefully raise the axle to re-seat the coil springs and reattach the shock absorbers, sway bar links, and any other disconnected components. Torque all bolts to factory specifications.
10. **Final Steps:** Reinstall the wheels and torque the lug nuts. Lower the vehicle to the ground.



2*Sway bar links

2*Shock relocation brackets

2*Coil spring spacers

2*bump stops

Hardware

Figure 2: Labeled components of the leveling kit for easy identification during installation.



Figure 3: Visual representation of the 2.5" front lift effect on a vehicle.

3. OPERATING CONSIDERATIONS

After installing the maXpeedingrods 2.5" Leveling Kit, your vehicle will experience changes in its stance and handling characteristics.

- **Increased Ground Clearance:** The 2.5-inch front lift provides additional ground clearance, which can be beneficial for off-road driving and navigating obstacles.
- **Tire Clearance:** This kit is designed to clear up to 35-inch tires. However, please note that with 35" tires, rubbing may occur with extreme articulation, especially if running on factory wheels. It is recommended to double-check clearance between the front tire, lower control arm, and sway-bar links.
- **Alignment:** It is highly recommended to have a professional wheel alignment performed immediately after installation to ensure proper steering and tire wear.
- **Driving Dynamics:** While designed to maintain on-road performance, the vehicle's center of gravity will be slightly altered. Drive cautiously until you are accustomed to the new handling characteristics.



Figure 4: Key benefits of the leveling kit, including increased ground clearance and tire clearance.

4. MAINTENANCE

Regular inspection and maintenance are crucial for the longevity and safe operation of your leveling kit and vehicle suspension.

- **Periodic Inspection:** Regularly inspect all components of the leveling kit, including coil spacers, shock relocation brackets, sway bar links, and bump stops, for any signs of wear, damage, or corrosion.
- **Torque Checks:** Periodically check the torque of all bolts and nuts installed during the leveling kit installation. Vibrations from driving can cause fasteners to loosen over time. Refer to factory specifications for proper torque values.
- **Cleaning:** Keep the suspension components clean, especially after off-road use, to prevent accumulation of dirt and debris that could accelerate wear.
- **Material Durability:** The coil spacers are made of heavy-duty proprietary composite material, and the sway bars are made of strong steel with a black powder-coated finish and polyurethane bushings, designed for resistance to corrosion and rust.

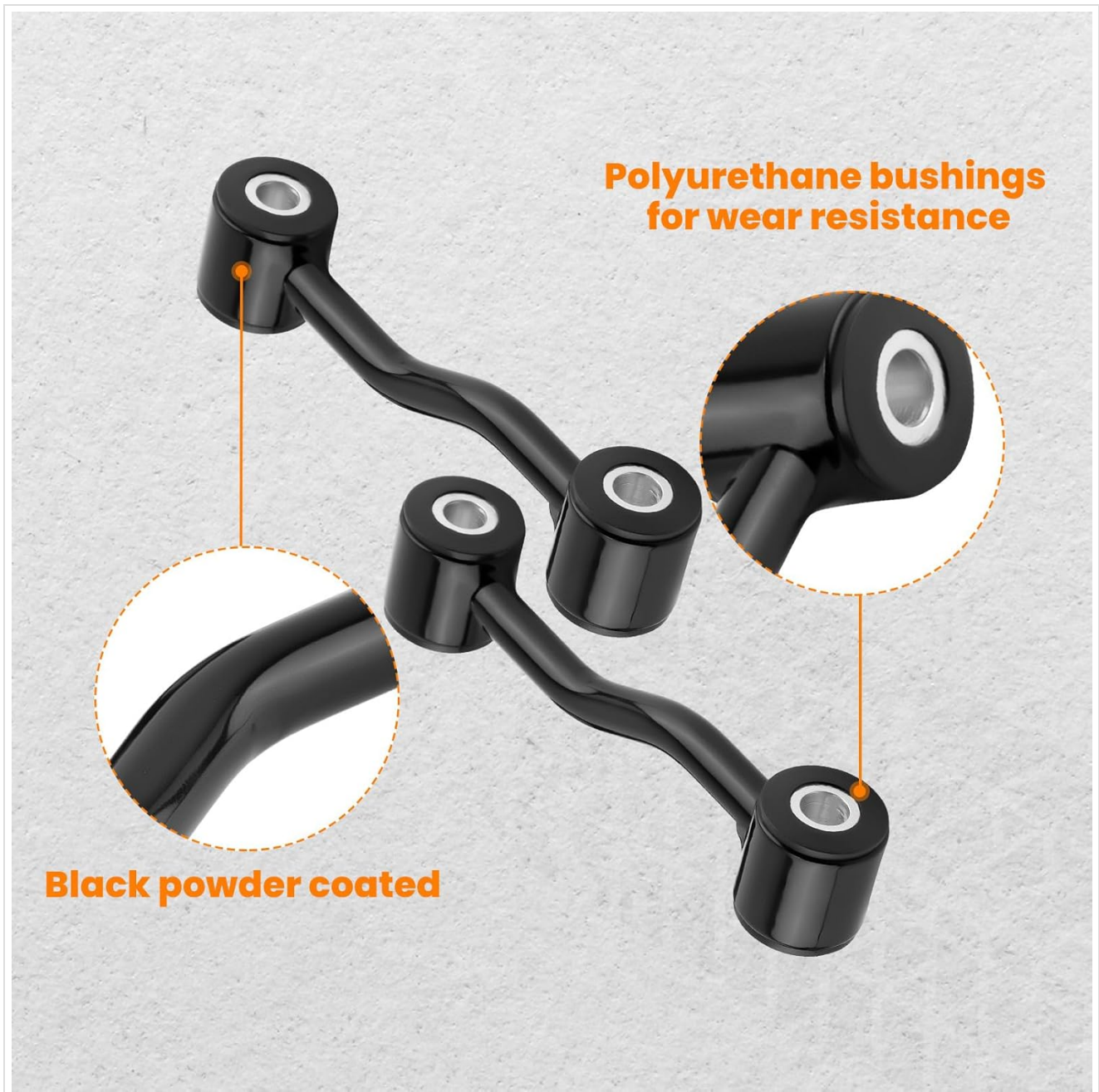


Figure 5: Close-up of sway bar links, highlighting the durable black powder coating and polyurethane bushings.

5. TROUBLESHOOTING

If you encounter any issues after installing the leveling kit, consider the following common troubleshooting steps:

- **Uneven Stance:** Double-check that all spacers are correctly installed and seated. Ensure the vehicle is on a level surface when assessing its stance.
- **Unusual Noises (Clunking/Squeaking):** Inspect all bolted connections for proper torque. Loose fasteners are a common cause of noise. Check for any components rubbing against each other.
- **Steering Issues (Pulling/Wandering):** This is often an indication that a wheel alignment is needed. An alignment is critical after any suspension modification.
- **Tire Rubbing:** If tires are rubbing, especially with 35" tires, identify the exact point of contact. This may require minor trimming of plastic fender liners or adjusting steering stops.
- **Vibrations:** Check for proper wheel balance and ensure all suspension components are securely fastened. If vibrations persist, consult a professional mechanic.

For persistent issues or concerns, refer to the Warranty and Support section for assistance.

6. SPECIFICATIONS

Feature	Detail
Product Model	KJ221
Lift Height	2.5 inches (Front)
Application	Jeep Gladiator JT 2020-2022 4WD, Jeep Wrangler JL 2-door 4WD/2WD 2018-2022, Jeep Wrangler JL Unlimited 4WD/2WD 2018-2022
Max Tire Size	35 inches (with potential rubbing at extreme articulation)
Coil Spacer Material	Heavy-duty proprietary composite material
Sway Bar Material	Strong steel with black powder-coated finish and polyurethane bushings
Package Dimensions	12.6 x 8.66 x 5.31 inches
Item Weight	8.82 pounds
Included Components	2*Sway bar links, 2*Shock relocation brackets, 2*Coil spring spacers, 2*Bump stops, Installation Hardware

7. WARRANTY AND SUPPORT

maXpeedingrods is committed to providing quality products and customer satisfaction.

- **Warranty:** This product comes with a 1-year limited warranty for quality-related issues from the date of purchase.
- **Technical Support:** maXpeedingrods offers lifetime technical support for this product.

If you have any questions, require technical assistance, or need to address a warranty claim, please contact maXpeedingrods customer service. Contact information can typically be found on the official maXpeedingrods website or through your purchase platform.