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› maXpeedingrods Steering Box Brace W/Flanged Bearing Kit User Manual

maXpeedingrods KJ1309

maXpeedingrods Steering Box Brace W/Flanged Bearing Kit

Model: KJ1309

For Jeep Cherokee XJ 1984-2001

1. PRODUCT OVERVIEW

The maXpeedingrods Steering Box Brace with Flanged Bearing Kit is engineered to enhance the steering system of Jeep Cherokee XJ models from 1984 to 2001. Constructed from high-quality steel with a powder-coated finish, this brace is designed to improve steering responsiveness, reduce stress on the steering box, and extend the lifespan of steering components. It also helps to mitigate or eliminate common issues such as 'death wobble' by providing additional support and stability to the steering mechanism.

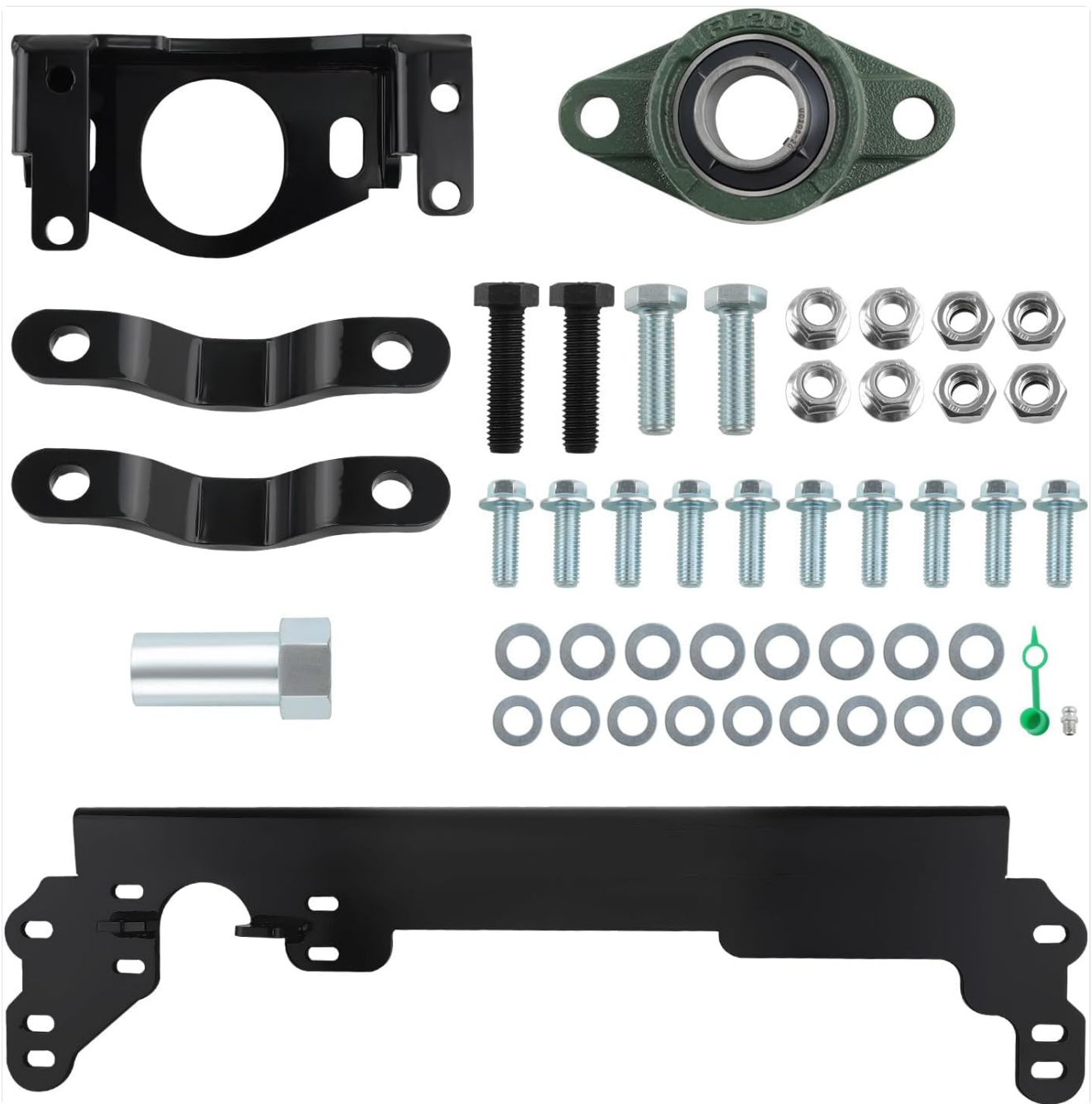


Image 1.1: All components included in the maXpeedingrods Steering Box Brace Kit, featuring the main brace, flanged bearing, and various hardware.

2. FITMENT INFORMATION

This steering box brace kit is specifically designed for the following vehicle applications:

- **Make:** Jeep
- **Model:** Cherokee XJ
- **Years:** 1984-2001

Ensure your vehicle falls within these specifications for proper fitment and optimal performance.



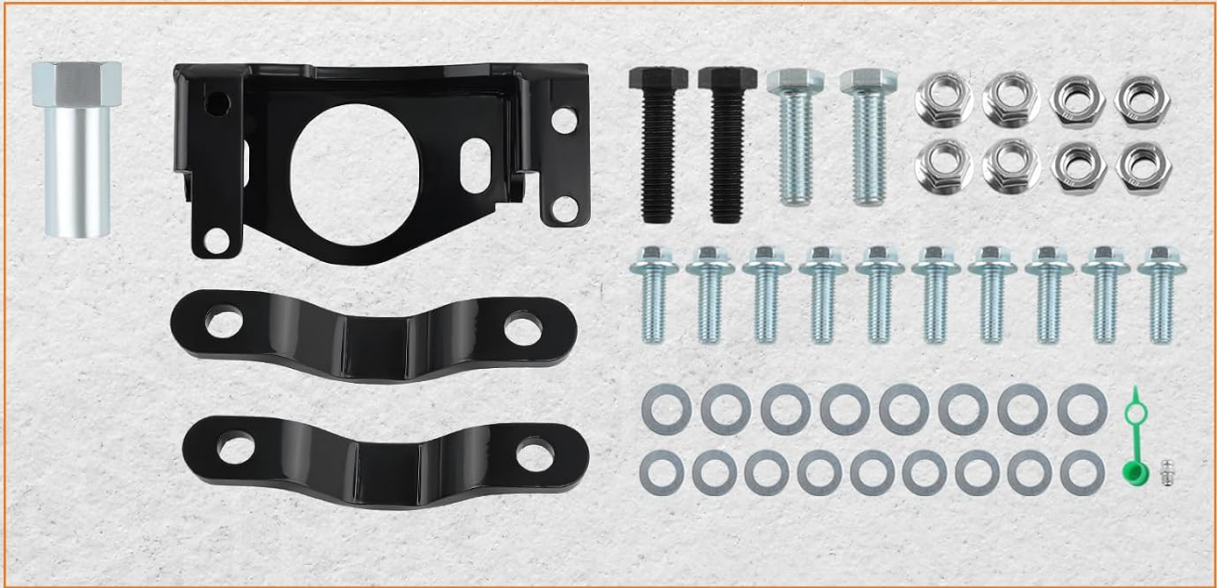
Image 2.1: Visual representation of a Jeep Cherokee XJ, confirming the compatible make, model, and year range for this product.

3. PACKAGE CONTENTS

Upon opening the package, verify that all the following components are present and undamaged:

- 1 x Steering Box Brace Assembly
- 1 x UC206-20 Flanged Bearing
- 1 x Threaded Joint
- 1 x Mount Bracket
- 2 x Bow Shaped Bracket
- 10 x Hex Head Bolt M10*1.5*30
- 2 x Hex Head Bolt M12*1.75*40
- 2 x Hex Head Bolt M12*1.75*45
- 4 x Lock Nuts M12*1.75
- 4 x Lock Nuts M10*1.5

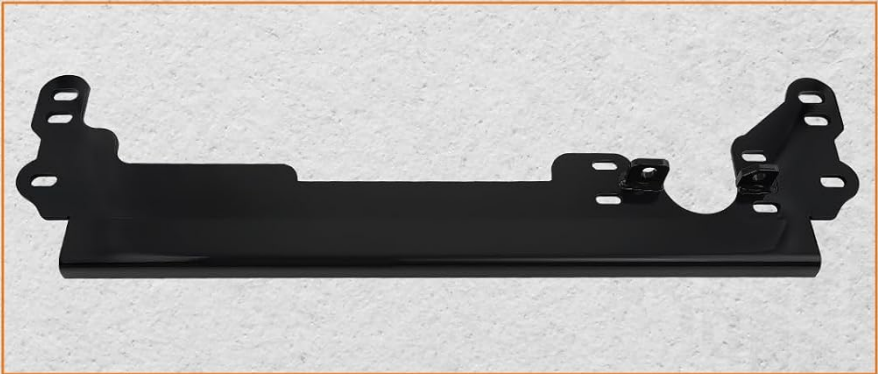
- 8 x M10 Washers
- 8 x M12 Washers



Hardware Kit



Flange Bearing



Steering Box Brace

Image 3.1: A clear layout of the hardware kit, the flanged bearing, and the main steering box brace component.

4. SPECIFICATIONS

Color	Black
Material	High-quality Steel
Surface Finish	Powder Coated
Placement on Vehicle	Front
Item Weight	20.1 pounds (approx. 9.12 kg)
Product Dimensions	34.21 x 10.43 x 6.42 inches (approx. 86.9 x 26.5 x 16.3 cm)

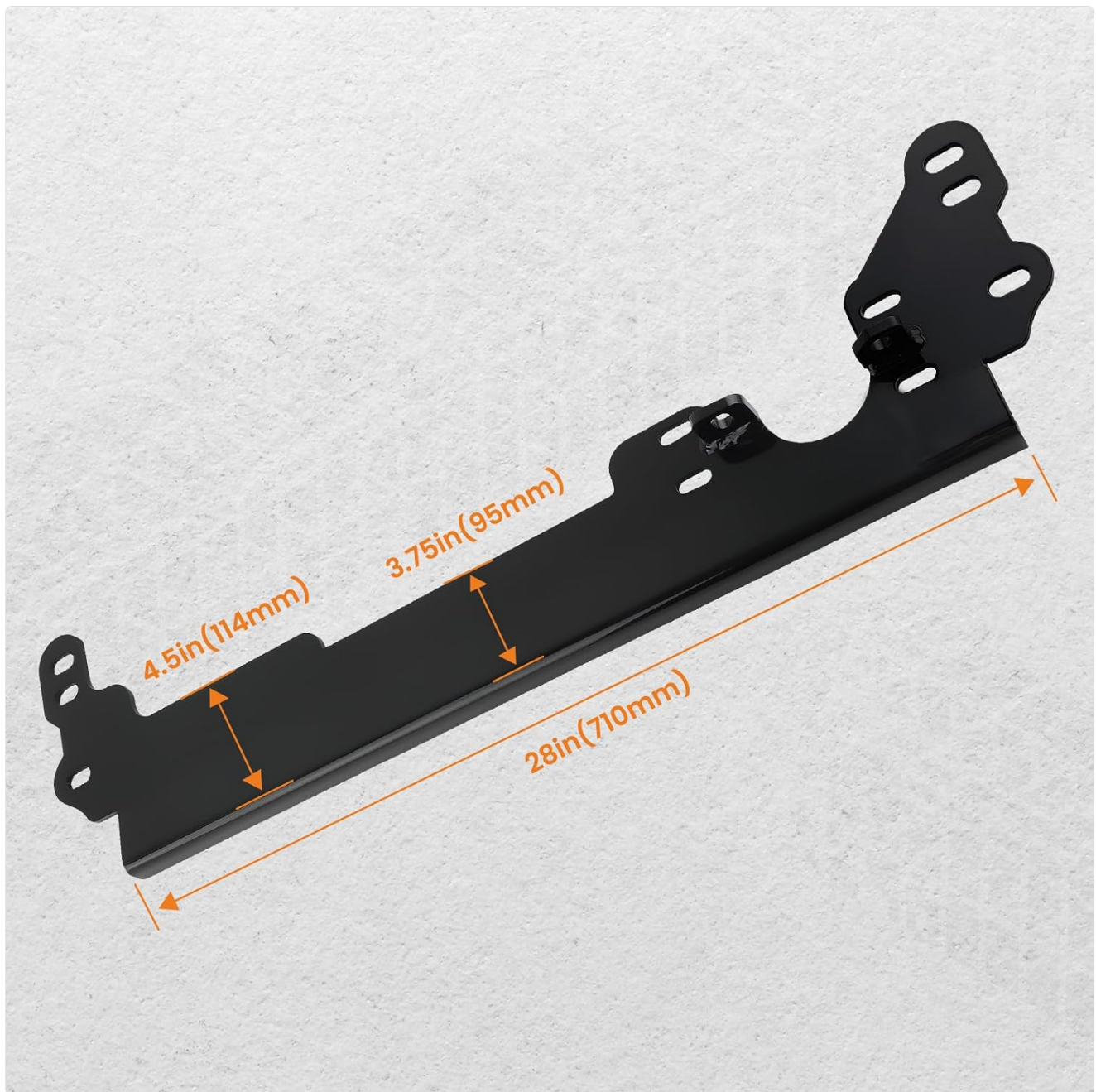


Image 4.1: Dimensional drawing of the steering box brace, indicating key measurements for reference.

5. INSTALLATION (SETUP)

The maXpeedingrods Steering Box Brace is designed for an easy bolt-on installation, typically requiring no cutting or drilling. While specific step-by-step instructions are not provided in this manual, the installation process is generally straightforward for individuals with basic automotive mechanical knowledge. It is recommended to consult a professional mechanic or refer to online resources and vehicle-specific service manuals for detailed guidance if you are unfamiliar with automotive modifications.

General Installation Guidance:

1. **Preparation:** Safely lift and secure the front of the vehicle. Ensure the steering box area is clean and accessible.
2. **Component Identification:** Familiarize yourself with all included parts and their intended placement.
3. **Mounting:** Position the steering box brace assembly according to the vehicle's frame and existing mounting points.
4. **Hardware Fastening:** Use the provided bolts, nuts, and washers to secure the brace. Ensure all fasteners are

tightened to appropriate torque specifications (consult a service manual for your vehicle's specific torque values).

5. **Bearing Installation:** Install the flanged bearing as per its design, ensuring it aligns correctly with the steering shaft.
6. **Final Check:** Double-check all connections for tightness and proper alignment before lowering the vehicle.

Note: Some users have reported minor clearance adjustments may be needed for the straps holding the neck of the power steering box. This is typically a minor adjustment and does not affect the overall integrity or function of the brace.



Image 5.1: An illustrative image showing the heavy-duty steering box brace in a typical installation context on a vehicle's undercarriage.

6. OPERATING PRINCIPLES AND BENEFITS

Once installed, the steering box brace works by reinforcing the steering box mounting points on the vehicle's frame. This reinforcement minimizes flex and movement of the steering box, which can occur under normal driving conditions, especially with larger tires or off-road use. By reducing this flex, the brace:

- **Improves Steering Responsiveness:** A more rigid steering box translates directly to a more precise and responsive steering feel.
- **Extends Component Lifespan:** By reducing stress and movement, the brace helps to prolong the life of the steering box itself and other related steering components.
- **Combats 'Death Wobble':** For Jeep Cherokee XJ owners, the brace is a key modification to address or prevent the notorious 'death wobble' phenomenon, which is often exacerbated by a flexing steering box.
- **Enhances Driving Safety:** A stable and predictable steering system contributes significantly to overall vehicle control and safety.

7. MAINTENANCE

The maXpeedingrods Steering Box Brace is constructed from durable, powder-coated steel designed for longevity with minimal maintenance. However, periodic inspection is recommended to ensure continued optimal performance:

- **Fastener Check:** Annually, or after significant off-road use, inspect all bolts and nuts securing the brace to ensure they remain tight. Re-torque if necessary.
- **Visual Inspection:** Check the brace and bearing for any signs of damage, corrosion, or wear. The powder-coated finish provides excellent protection against rust, but severe impacts could compromise it.
- **Bearing Condition:** Listen for any unusual noises from the flanged bearing. If excessive play or noise is detected, the bearing may require replacement.
- **Cleaning:** Keep the brace free from excessive dirt and debris, especially around the bearing area, to prevent premature wear.

8. TROUBLESHOOTING

While the steering box brace is designed to improve steering, certain issues may arise or persist if underlying problems are not addressed. If you experience continued steering issues after installation, consider the following:

- **Persistent 'Death Wobble' or Loose Steering:** The brace addresses steering box flex, but 'death wobble' can also be caused by worn tie rod ends, ball joints, track bar bushings, or improper alignment. Inspect these components thoroughly.
- **Noise from Brace Area:** Ensure all bolts are properly torqued. Check for any contact between the brace and other vehicle components that could cause rubbing or rattling. Verify the flanged bearing is seated correctly and not damaged.
- **Difficulty with Installation:** If you encounter significant difficulty during installation, such as parts not aligning, double-check the fitment for your specific year and model. Ensure no components are bent or damaged. Professional installation is recommended if issues persist.

If troubleshooting steps do not resolve the issue, contact maXpeedingrods customer support for further assistance.

9. WARRANTY AND SUPPORT

maXpeedingrods offers a **1-year limited warranty** for quality-related issues from the date of purchase. Additionally, lifetime technical support is available to assist with any questions or concerns regarding the product, its installation, or performance.

For warranty claims or technical assistance, please contact maXpeedingrods customer service through their official channels, providing your purchase details and a description of the issue.

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