

maXpeedingrods KJ1146

maXpeedingrods Leveling Lift Kit Instruction Manual

For Toyota 4Runner (2003-2024) and FJ Cruiser (2007-2015)

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your maXpeedingrods 3-inch Front and 2-inch Rear Leveling Lift Kit with Differential Drop. Please read this manual thoroughly before installation to ensure proper fitment and safe operation. This kit is designed to enhance the appearance and off-road capability of your vehicle by providing a balanced lift.

2. VEHICLE COMPATIBILITY

This leveling lift kit is compatible with the following vehicle models:

- Toyota 4Runner 2WD/4WD: 2003-2024 models
- Toyota FJ Cruiser 2WD/4WD: 2007-2015 models

Important Note: This kit is NOT compatible with Toyota 4Runner Limited models equipped with X-REAS hydraulic struts or 2018+ TRD PRO Models.



Image: Vehicle compatibility chart for the lift kit, listing applicable Toyota 4Runner and FJ Cruiser models and years.

3. PACKAGE CONTENTS

Before beginning installation, verify that all components are present and undamaged. The package should contain:

- 2x Billet Aluminum Front Strut Spacers
- 2x Rear Coil Spring Spacers
- 2x Differential Drop Spacers
- 4x Skid Plate Drop Spacers
- Hardware kit (bolts, nuts, washers)



Image: Overview of all components included in the leveling lift kit, neatly arranged.

COMPATIBILITY



Year	Model
2003–2022	Toyota 4Runner 2WD 4WD
2007–2015	Toyota FJ Cruiser 2WD 4WD

Image: Close-up of the hardware components: various bolts, nuts, and washers.

4. MATERIAL QUALITY

- **Front Strut Spacers:** Constructed from Billet 6061 Aluminum, ensuring long-lasting durability and superior performance.
- **Rear Coil Spring Spacers:** Made from Nylon material (PA66+GF300) to resist cracking and extend service life.
- **Hardware:** Features Zinc Plating for rust and corrosion prevention.

SUSPENSION LIFT KIT



Nylon material
(PA66+GF300)



Zinc Plating Hardware
Rust and corrosion
prevention



Billet 6061 Aluminum



Image: Components highlighting material construction: Nylon for rear spacers, Billet 6061 Aluminum for front spacers, and Zinc Plating for hardware.

5. SETUP AND INSTALLATION

Disclaimer: Professional installation is recommended. Improper installation can lead to vehicle damage or personal injury. Ensure the vehicle is on a level surface and properly supported before beginning any work. Always wear appropriate safety gear.

5.1. Required Tools

A comprehensive list of tools will be provided in the detailed installation guide included with your kit. General tools may include:

- Jack and Jack Stands
- Wheel Chocks
- Socket Wrench Set

- Torque Wrench
- Pry Bar
- Spring Compressor (if applicable for strut disassembly)

5.2. Pre-Installation Checks

- Inspect all components for any manufacturing defects or shipping damage.
- Ensure the vehicle is clean and free of debris around the suspension components.
- Review the specific torque specifications for your vehicle's suspension components.

5.3. General Installation Steps (Summary)

This is a general overview. Refer to the detailed instructions provided with your kit for specific steps and diagrams.

1. Safely lift the vehicle and secure it on jack stands. Remove wheels.
2. **Front Installation:** Disconnect necessary suspension components to remove the front strut assembly. Install the billet aluminum front strut spacers on top of the strut assembly. Reinstall the strut assembly and reconnect all components, ensuring proper torque.
3. **Rear Installation:** Disconnect necessary suspension components to allow the rear axle to drop sufficiently. Install the rear coil spring spacers between the coil spring and the vehicle's frame/axle. Reassemble components, ensuring proper torque.
4. **Differential Drop Installation:** Install the differential drop spacers to correct the front differential angle after lifting, reducing stress on CV joints.
5. **Skid Plate Drop Installation:** Install skid plate drop spacers to ensure proper clearance and alignment of the skid plate after the differential drop.
6. Reinstall wheels and lower the vehicle.
7. Perform a final check of all fasteners to ensure they are tightened to specification.

After installation, it is highly recommended to have a professional alignment performed on your vehicle to ensure correct steering and tire wear.

6. OPERATING CONSIDERATIONS AFTER LIFT KIT INSTALLATION

After installing the leveling lift kit, your vehicle's driving characteristics will change. Be aware of the following:

- **Increased Ground Clearance:** The kit provides a 3-inch front and 2-inch rear lift, increasing ground clearance. This enhances off-road capability but may alter the vehicle's center of gravity.
- **Handling:** The vehicle's handling may feel different, especially at higher speeds or during sharp turns. Drive cautiously until you are accustomed to the new feel.
- **Braking:** Braking performance should not be significantly affected, but always test brakes in a safe environment after any suspension modification.
- **Tire Clearance:** The lift allows for larger tires, but always check for proper clearance under full suspension articulation and steering lock.
- **Off-Road Use:** The kit is designed to improve off-road performance. However, always exercise caution and drive within your vehicle's and your own capabilities.



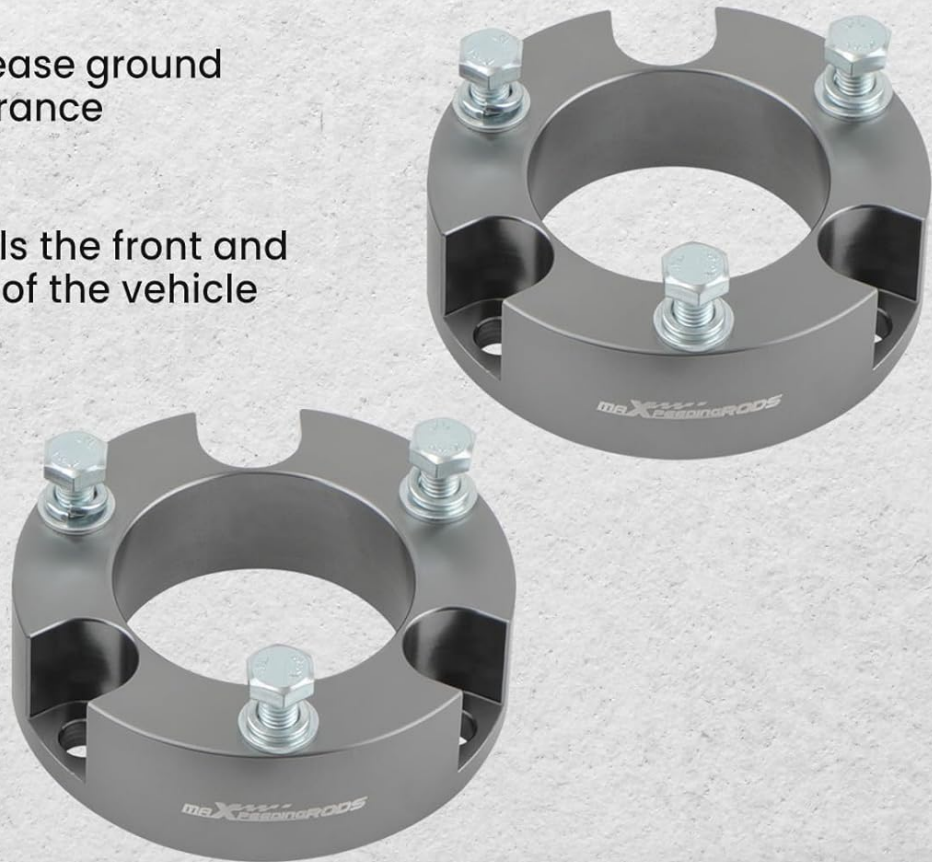
Nylon material is not easy to crack, extending service life



Increase ground clearance



Levels the front and rear of the vehicle



Focus on Performance

MAX SPEEDING RODS
Since 2006

Image: Visual comparison of a vehicle before and after the 3-inch front and 2-inch rear leveling lift kit installation, showing increased height.

7. MAINTENANCE

Regular inspection and maintenance are crucial for the longevity and safety of your lift kit and vehicle.

- **Initial Check (500 miles):** After approximately 500 miles of driving, re-torque all fasteners installed or loosened during the lift kit installation. This is critical as components can settle.
- **Routine Checks:** Periodically inspect all suspension components, including the lift kit spacers, bolts, and nuts, for any signs of wear, damage, or loosening.
- **Cleaning:** Keep suspension components clean, especially after off-road use, to prevent dirt and debris buildup that could accelerate wear.
- **Alignment:** Recheck wheel alignment periodically, especially if you notice uneven tire wear or changes in steering.

8. TROUBLESHOOTING

This section addresses common issues that may arise after installing a lift kit.

- **Uneven Ride Height:**
 - **Possible Cause:** Incorrect installation of spacers, or components not fully settled.
 - **Solution:** Re-verify installation steps and ensure all components are correctly seated and torqued. Allow for a break-in period for components to settle.
- **Vibrations:**
 - **Possible Cause:** Driveline angles altered, loose fasteners, or unbalanced tires.
 - **Solution:** Ensure differential drop kit is correctly installed. Check all fasteners for proper torque. Have tires balanced and alignment checked.
- **Noise (Clunking/Squeaking):**
 - **Possible Cause:** Loose components, rubbing parts, or worn bushings.
 - **Solution:** Inspect all areas where new components were installed for proper clearance and tightness. Lubricate bushings if necessary.
- **Steering Issues (Pulling/Wandering):**
 - **Possible Cause:** Incorrect wheel alignment.
 - **Solution:** Immediately get a professional wheel alignment.

9. SPECIFICATIONS

Product Name	maXpeedingrods 3" Front & 2" Rear Full Leveling Lift Kit with Differential Drop
Model Number	KJ1146
Front Lift Height	3 inches
Rear Lift Height	2 inches
Front Strut Spacer Material	Billet 6061 Aluminum
Rear Coil Spring Spacer Material	Nylon (PA66+GF300)
Hardware Finish	Zinc Plating
Item Weight	9.26 pounds
Product Dimensions	13.78 x 9.84 x 6.3 inches

10. WARRANTY AND SUPPORT

maXpeedingrods offers a 1-year limited warranty for quality-related issues from the date of purchase. Lifetime technical support is also provided.

For warranty claims, technical assistance, or any inquiries, please contact maXpeedingrods customer service through their official channels or the retailer where the product was purchased.

Contact Information: Refer to the contact details provided on the maXpeedingrods website or included in your product packaging.

