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maXpeedingrods RT14YNM

maXpeedingrods Coilover Suspension Kit Instruction Manual

Model: RT14YNM | For Toyota Camry ACV30/MCV30 2002-2006

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your maXpeedingrods Coilover Suspension Kit, Model RT14YNM. This kit is specifically designed for Toyota Camry ACV30/MCV30 models manufactured between 2002 and 2006. It features 24 levels of adjustable damping and adjustable ride height, allowing for customized vehicle dynamics.

Please read this manual thoroughly before attempting any installation or adjustment. Proper installation and maintenance are crucial for the performance and longevity of the coilovers and the safety of your vehicle.



Image 1: Complete maXpeedingrods Coilover Suspension Kit components.

2. SAFETY INFORMATION

- **Professional Installation Recommended:** Installation of suspension components requires specialized tools and knowledge. It is highly recommended that this kit be installed by a qualified automotive technician.
- **Vehicle Support:** Always use appropriate jack stands or a vehicle lift to securely support the vehicle when working underneath it. Never rely solely on a jack.
- **Torque Specifications:** Ensure all fasteners are tightened to the vehicle manufacturer's specified torque values. Refer to your vehicle's service manual.
- **Wheel Alignment:** After installation, a professional wheel alignment is mandatory to ensure proper handling, tire wear, and vehicle safety.
- **Regular Inspection:** Periodically inspect all suspension components for wear, damage, or loose fasteners.

- **Road Conditions:** Be aware that lowering your vehicle may affect ground clearance and handling characteristics, especially on uneven surfaces or speed bumps.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation:

- Front Coilover Assemblies (2 units)
- Rear Coilover Assemblies (2 units)
- Spanner Wrenches for Height Adjustment (2 units)
- Hex Key for Damping Adjustment (1 unit)

4. SPECIFICATIONS

Feature	Specification
Brand	maXpeedingrods
Model Number	RT14YNM
Vehicle Compatibility	Toyota Camry ACV30/MCV30 (2002-2006)
Auto Part Position	Front, Rear
Front Spring Rate	8 kg/mm (448 lbs/in)
Rear Spring Rate	6 kg/mm (336 lbs/in)
Spring Preload	7-10 mm
Damping Adjustment	24 Levels (Rebound Force)
Height Adjustment Range	1-3 inches lowering (from original ride height)
Camber Plate Top Mount	6061-T6 Aluminum
Spring Material	High Rigidity 55CrSi Steel
Shock Body Finish	Anodized with Galvanized Anti-Corrosion Coating
Piston Rod Diameter	22mm
Item Weight	74.5 pounds (total package)
Product Dimensions	27.95 x 20.08 x 7.87 inches (package)

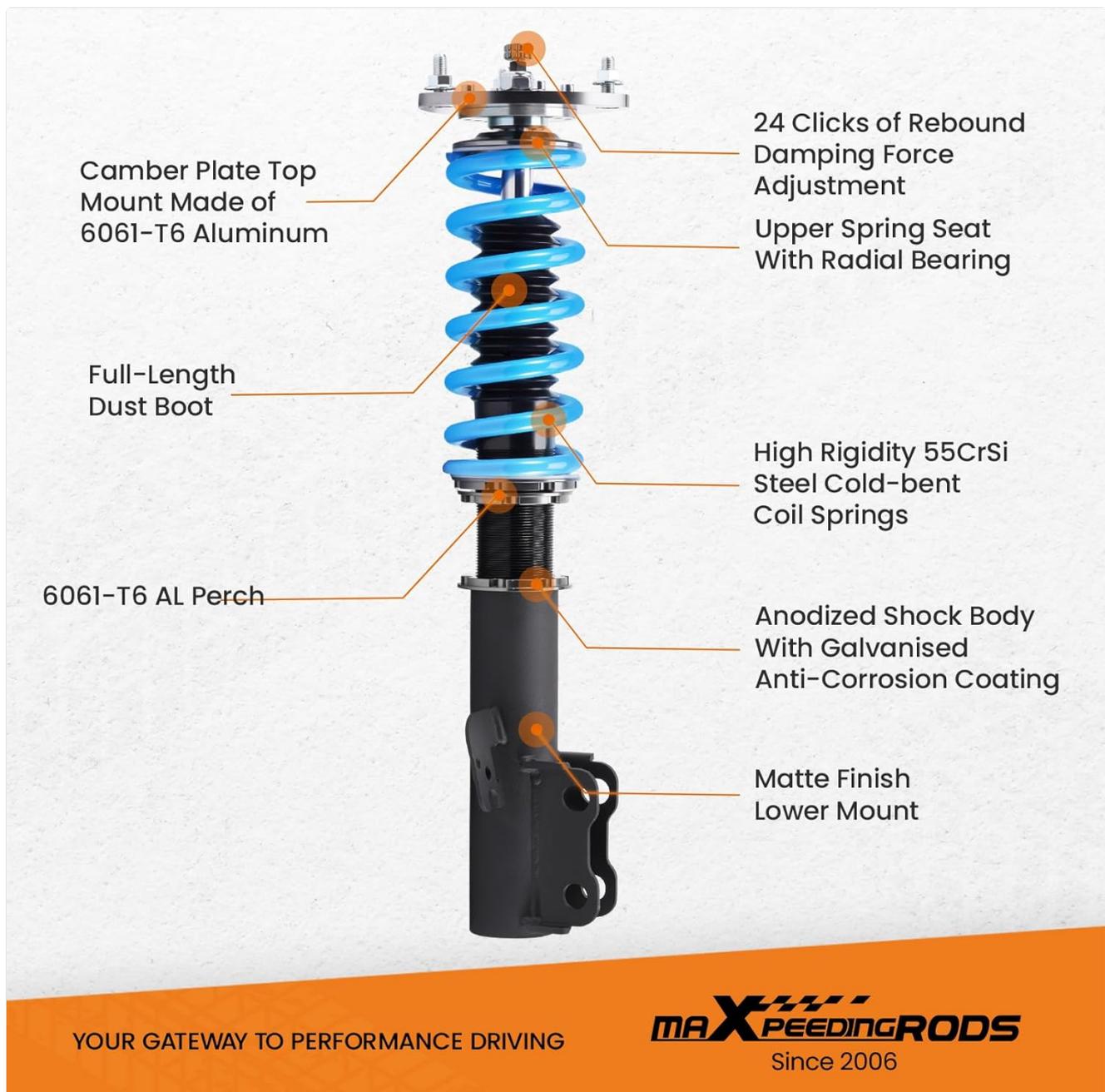


Image 2: Detailed view of coilover components and materials.

5. SETUP AND INSTALLATION

Installation of coilovers is a complex procedure that should ideally be performed by a certified mechanic. The following is a general overview and not a substitute for a professional service manual.

General Installation Steps:

1. **Vehicle Preparation:** Safely lift the vehicle and secure it on jack stands or a lift. Remove the wheels.
2. **Remove OEM Suspension:** Carefully disconnect and remove the original shock absorbers and springs. Note the orientation of all components.
3. **Install New Coilovers:** Mount the maXpeedingrods coilover assemblies. Ensure all bolts are finger-tightened initially.
4. **Initial Adjustments:** Before fully tightening, set the initial ride height and damping settings as desired (refer to Section 6).

5. **Final Tightening:** With the vehicle's weight on the suspension (or simulating it), tighten all mounting bolts to the vehicle manufacturer's torque specifications.
6. **Reinstall Wheels:** Reattach the wheels and lower the vehicle.
7. **Professional Alignment:** Immediately after installation, have a professional wheel alignment performed. This is critical for vehicle safety and performance.



Image 3: Thread-type ride height adjustment during installation.

6. OPERATING INSTRUCTIONS AND ADJUSTMENTS

6.1 Damping Adjustment (24 Levels)

The coilovers feature 24 distinct levels of rebound damping adjustment, allowing you to fine-tune the ride comfort and handling characteristics. The adjustment knob is located at the top of each coilover unit.

- **Adjustment Procedure:** To adjust, remove the protective cap (if present) from the top of the coilover. Use the provided hex key or turn the knob by hand to select the desired damping level. Turning clockwise generally increases damping (harder ride), while turning counter-clockwise decreases damping (softer ride).
- **Recommended Settings:**
 - **Levels 0-8:** Suggested for street use, providing a more comfortable ride.
 - **Levels 9-16:** Suggested for mountain roads or spirited driving, offering a balance of comfort and control.
 - **Levels 17-24:** Suggested for track use, providing maximum stiffness and control for performance driving.

ADJUSTER KNOB

Easily Adjust Damping Setting



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Image 4: Damping adjustment knob and procedure.

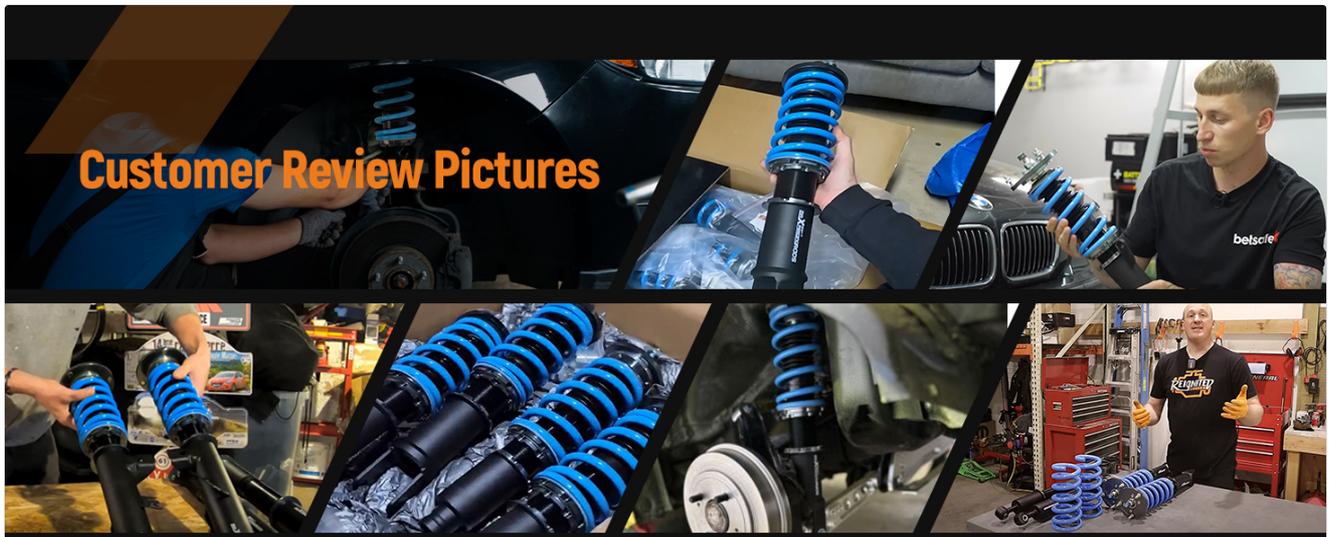


Image 5: Damping level recommendations for various driving conditions.

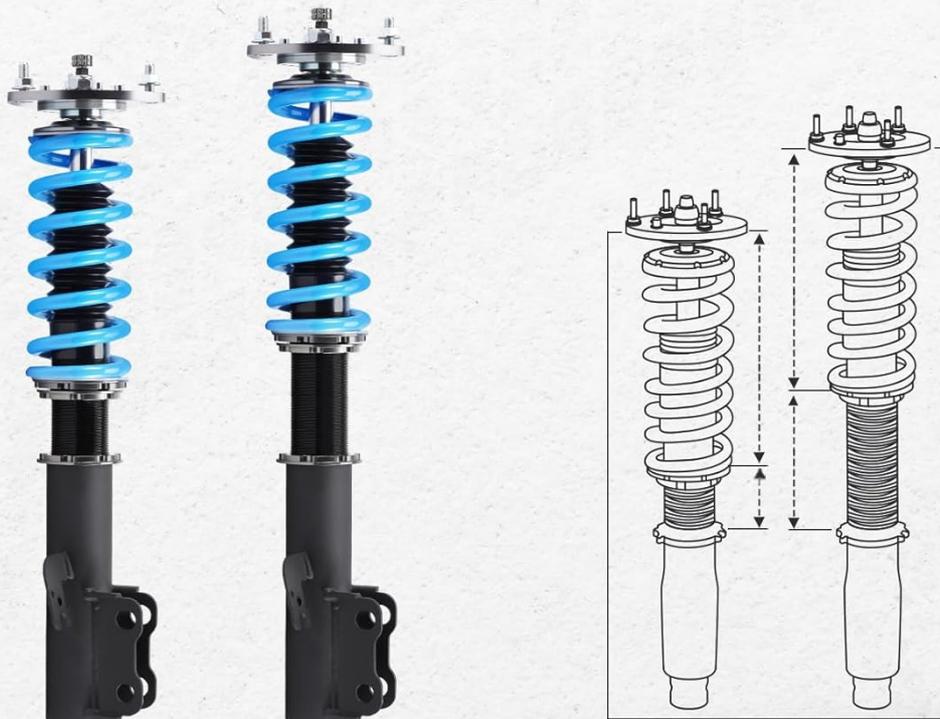
6.2 Height Adjustment

The coilovers allow for independent ride height adjustment, separate from spring preload. This enables lowering the vehicle by 1-3 inches from the original ride height.

- **Adjustment Procedure:** Use the provided spanner wrenches to loosen the locking rings on the coilover body. Rotate the lower perch to raise or lower the vehicle. Once the desired height is achieved, securely tighten the locking rings to prevent movement.
- **Important Considerations:**
 - Ensure both sides of the vehicle (front or rear axle) are adjusted to the same height to maintain balance.
 - After any significant height adjustment, a wheel alignment is necessary.
 - Do not lower the vehicle beyond the recommended limits, as this can compromise suspension travel and safety.

HEIGHT ADJUSTABLE

Independent Ride Height And Spring Tension Settings



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Image 6: Illustration of height adjustment capability.

PERCHES AND LOCKING RINGS

CNC Billet Aluminum Parts/Hardware



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Image 7: Detail of perches and locking rings for height adjustment.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your maXpeedingrods coilovers.

- **Visual Inspection:** Periodically inspect the coilovers for any signs of damage, leaks, corrosion, or loose components. Check the dust boots for tears.
- **Cleaning:** Keep the coilover bodies and threads clean, especially in environments with road salt, dirt, or debris. Use mild soap and water, then rinse thoroughly.
- **Check Fasteners:** Ensure all mounting bolts and locking rings remain securely tightened. Re-torque if necessary.
- **Bearing Check:** If equipped with camber plates, check the radial bearings for smooth operation and any signs of wear.

8. TROUBLESHOOTING

This section addresses common issues that may arise with coilover suspension systems.

Common Issues and Potential Solutions:

- **Knocking or Clunking Noise:**
 - **Cause:** Loose mounting bolts, improper spring preload, worn top mounts, or contact with other vehicle components.
 - **Solution:** Re-check all mounting hardware for proper torque. Verify spring preload is set correctly (7-10mm). Inspect top mounts and ensure no components are contacting the chassis or suspension arms. Professional inspection is recommended.
- **Uneven Ride Height:**
 - **Cause:** Inconsistent height adjustment between left and right sides.
 - **Solution:** Measure the ride height from a consistent point (e.g., fender lip to wheel center) on both sides and adjust accordingly.
- **Poor Handling or Instability:**
 - **Cause:** Incorrect damping settings, improper ride height, or misaligned wheels.
 - **Solution:** Adjust damping settings (refer to Section 6.1). Ensure ride height is appropriate and consistent. Obtain a professional wheel alignment.
- **Squeaking Noises:**
 - **Cause:** Dirt or debris on spring coils, dry bushings, or worn components.
 - **Solution:** Clean the springs and coilover body. Inspect bushings for wear and lubricate if necessary.

If you encounter persistent issues that cannot be resolved with these steps, it is advisable to consult a qualified automotive technician or contact maXpeedingrods customer support.

9. WARRANTY AND SUPPORT

maXpeedingrods is committed to providing quality products and customer satisfaction. For specific warranty information regarding your coilover suspension kit, please refer to the warranty card included with your product or visit the official maXpeedingrods website.

Should you require technical assistance, have questions about installation, or need to report a product issue, please contact maXpeedingrods customer support. Our team is available to provide expert assistance and support.

Contact Information: Please refer to the contact details provided on the maXpeedingrods official website or your purchase documentation.

