

[Manuals.plus](#) /

› [maXpeedingrods](#) /

› maXpeedingrods Coilovers User Manual

## maXpeedingrods MA54VZ

# maXpeedingrods T6 Upgraded Coilovers User Manual

Model: MA54VZ

Brand: maXpeedingrods

## INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your maXpeedingrods T6 Upgraded Coilovers. Designed for enhanced performance and comfort, these coilovers offer adjustable damping and ride height to suit various driving conditions.

## COMPATIBILITY

These coilovers are compatible with the following Rear-Wheel Drive (RWD) vehicles:

- **Dodge Challenger RWD:** 2011-2022
- **Dodge Charger RWD:** 2011-2022
- **Chrysler 300 RWD:** 2011-2023

**Note: Does not fit cars equipped with electronic suspension.**

## KEY FEATURES

- **Street Performance T6 Series:** Optimized for street driving, balancing comfort, speed, and safety. Features an upgraded damper knob for easier adjustment, high-quality damping oil, and upgraded full aluminum plates.
- **24 Levels Adjustable Damper:** Allows precise control over damping force.
  - Level 0-8: Recommended for street use.
  - Level 9-16: Recommended for mountain roads.
  - Level 17-24: Recommended for race tracks.

- **Adjustable Height:** Allows for 1-3 inches of height adjustment, enabling a more aggressive stance. This design helps reduce turning noise and improves steering feel and response.
- **High Tensile Performance Springs:** Front spring rate: 12kg/mm (672lbs/in). Rear spring rate: 14kg/mm (784lbs/in). Stress-tested over 600,000 times with less than 0.04% distortion.
- **Durable Construction:** Features CNC Billet Aluminum parts/hardware, 22mm front rod diameter for long-lasting rod lifetime, high rigid piston rod (heat-treated steel), and matte finish rust-resistant lower mount sleeves.
- **Pillow Ball Top Mount with Radial Bearing:** Enhances steering response and reduces noise.

## PRODUCT COMPONENTS



Figure 1: Complete maXpeedingRods Coilover Kit, including four coilover assemblies, two separate blue springs, and adjustment wrenches.

# PERCHES AND LOCKING RINGS

CNC Billet Aluminum Parts/Hardware



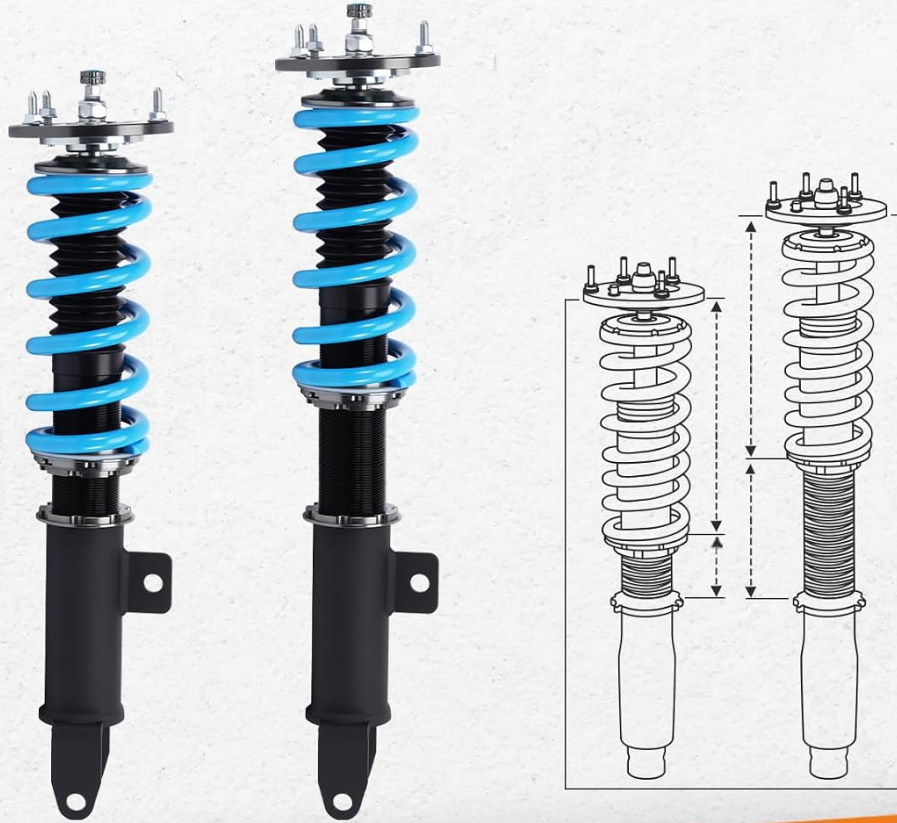
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Figure 2: Detailed view of the CNC Billet Aluminum perches and locking rings, designed for secure height adjustment.

# HEIGHT ADJUSTABLE

Independent Ride Height And Spring  
Tension Settings



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Figure 3: Illustration demonstrating the independent ride height and spring tension adjustment capabilities of the coilovers.



**Front Rod Diameter:**

**22mm**

Ensure A Long-lasting  
Rod Lifetime

### **High Rigid Piston Rod:**

Using high-frequency heat treatment, the piston rod is the steel part of high rigidity and high toughness. It offers a safe and pleasing experience while driving at a high speed

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Figure 4: Close-up showing the 22mm front rod diameter and the high rigid piston rod, ensuring durability and a safe driving experience.

# ADJUSTER KNOB

Easily Adjust Damping Setting



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Figure 5: The damper adjuster knob, allowing easy adjustment of damping settings from soft to hard.



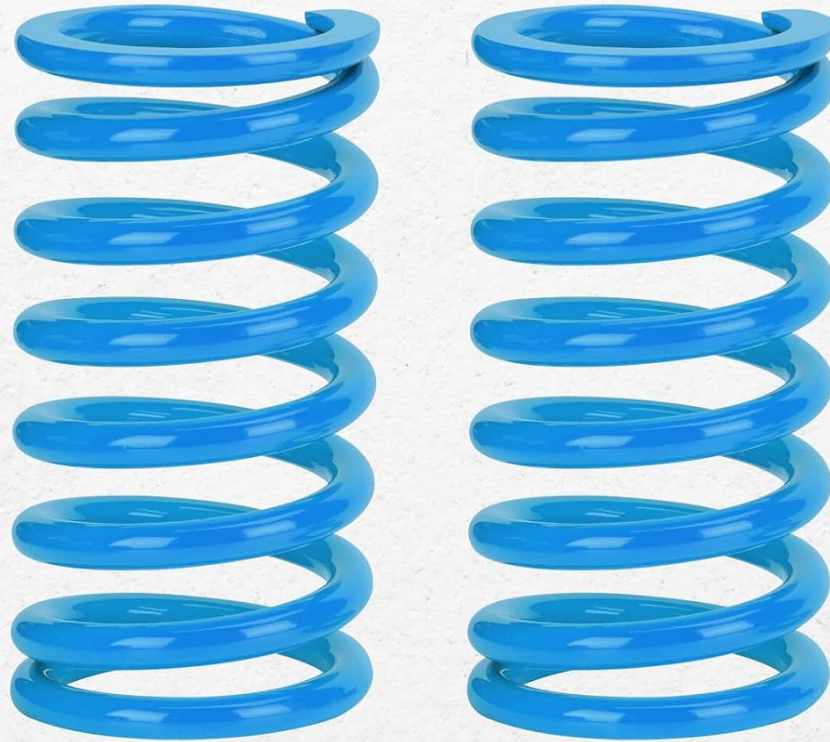
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Figure 6: Illustration of the 24-click damping adjustment and the pillow ball top mount with radial bearing for improved performance.

# HIGH RIGIDITY SPRING

55CrSi Steel Cold-bent Coil Springs



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Figure 7: High rigidity 55CrSi Steel cold-bent coil springs, designed for durability and consistent performance.

# UPPER SPRING SEAT

Quicker Response And Less Noise



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Figure 8: The upper spring seat, engineered for quicker response and reduced noise during operation.

# LOWER MOUNT

Matte Finish Rust Resistant Sleeves



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Figure 9: The lower mount with matte finish rust-resistant sleeves, ensuring long-term durability.

## SETUP AND INSTALLATION

Installation of coilovers requires specialized tools and automotive knowledge. It is highly recommended that installation be performed by a qualified professional.

### General Installation Steps (Consult a professional for detailed vehicle-specific instructions):

1. Safely lift the vehicle and secure it on jack stands.
2. Remove the wheels.
3. Disconnect and remove the original suspension components (struts, springs, etc.).
4. Install the new maXpeedingrods coilovers, ensuring all mounting points are correctly aligned and secured.
5. Adjust the ride height to your desired setting (refer to "Operating" section for details).
6. Reinstall wheels and lower the vehicle.

7. Perform a wheel alignment after installation to ensure proper vehicle handling and tire wear.

## Installation Video

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Video 1: Overview of maXpeedingrods T6 Upgrade Coilovers, demonstrating features and installation process.

## OPERATING AND ADJUSTMENT

### Damping Adjustment

Your maXpeedingrods coilovers feature 24 levels of damping adjustment, allowing you to fine-tune your ride for various conditions.

1. Locate the damper adjustment knob on the top of each coilover (under the hood for front, in the trunk for rear, or accessible from wheel well).
2. Remove the protective cap if present.
3. Use the provided adjustment tool or your hand to turn the knob. Turning clockwise generally increases damping (harder ride), and counter-clockwise decreases damping (softer ride).
4. Refer to the "Key Features" section for suggested damping levels based on driving conditions (street, mountain, race track).

### Height Adjustment

The ride height can be adjusted independently of spring preload.

1. Safely lift the vehicle and support it.
2. Loosen the lower locking collar on the coilover body.
3. Turn the main body of the coilover to raise or lower the vehicle.
4. Once the desired height is achieved, tighten the lower locking collar securely.
5. Always ensure both sides of the vehicle are adjusted to the same height for balanced handling.

## MAINTENANCE

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

- **Regular Cleaning:** Keep the coilover bodies, springs, and adjustment threads clean from dirt, salt, and debris. Use mild soap and water, then rinse thoroughly.
- **Inspect for Damage:** Periodically inspect for any signs of leaks, corrosion, bent components, or damaged dust boots. Address any issues promptly.
- **Check Torque:** After initial installation and periodically thereafter, check the torque of all mounting bolts and locking collars to ensure they remain secure.
- **Lubrication:** Apply a thin layer of appropriate grease to the threads of the coilover body to prevent seizing and allow for easier height adjustments.

## TROUBLESHOOTING

### Common Issues and Solutions

| Symptom                                 | Possible Cause                                                                       | Solution                                                                                                   |
|-----------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Excessive Noise<br>(Clunking/Squeaking) | Loose mounting bolts, worn bushings, improper spring preload, debris in spring seat. | Check and tighten all bolts. Inspect and replace worn bushings. Adjust spring preload. Clean spring seats. |
| Uneven Ride Height                      | Incorrect height adjustment, uneven spring preload.                                  | Re-measure and adjust height on both sides. Ensure spring preload is consistent.                           |
| Harsh Ride                              | Damping set too stiff, excessive spring preload, incorrect tire pressure.            | Adjust damping to a softer setting. Reduce spring preload if necessary. Check and adjust tire pressure.    |
| Poor Handling/Stability                 | Incorrect damping settings, improper alignment, loose components.                    | Adjust damping. Get a professional wheel alignment. Check all connections.                                 |

If you encounter issues not listed here or if solutions do not resolve the problem, please contact maXpeedingrods customer support.

## SPECIFICATIONS

**Manufacturer:** maXpeedingrods  
**Brand:** maXpeedingrods  
**Model Number:** MA54VZ  
**Item Weight:** 69.3 pounds  
**Product Dimensions:** 24.8 x 20.08 x 7.87 inches  
**Country of Origin:** China  
**Front Spring Rate:** 12kg/mm (672lbs/in)  
**Rear Spring Rate:** 14kg/mm (784lbs/in)  
**Spring Preload:** 7-10 mm  
**Damping Levels:** 24 adjustable levels  
**Height Adjustment Range:** 1-3 inches lowering

## WARRANTY AND SUPPORT

maXpeedingrods products typically come with a manufacturer's warranty. Please refer to the warranty information provided with your purchase or visit the official maXpeedingrods website for details regarding warranty terms and conditions.

For technical assistance, troubleshooting, or warranty claims, please contact maXpeedingrods customer support directly.

**Customer Support:** Refer to your purchase documentation or the maXpeedingrods official website for contact information.

**Returns:** This product offers 30-day easy returns.