

maXpeedingrods T6 Series Coilovers for Tesla Model Y AWD 2020+ Instruction Manual

Model: XL87XH

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your maXpeedingrods T6 Series Coilovers. These coilovers are specifically designed for the Tesla Model Y AWD 2020+ to enhance driving performance and adjustability.



Figure 1: Complete maXpeedingrods T6 Series Coilover Kit

2. KEY FEATURES

- **Application:** Designed for Tesla Model Y AWD 2020+ vehicles.
- **T6 Series Street Performance:** Optimized for street driving, featuring an upgraded damper knob for easier adjustment, high-quality damping oil for improved viscosity, and full aluminum plates for enhanced durability. This series aims to balance comfort, performance, and safety.
- **High Tensile Springs:** Front and Rear spring rates are 10kg/mm (560 lbs/in). Springs are stress-tested over 600,000 times with less than 0.04% distortion, ensuring long-term performance.
- **24 Levels Adjustable Damper:** Allows precise control over ride characteristics. Settings are categorized for different driving conditions:
 - Level 0-8: Recommended for street use.
 - Level 9-16: Recommended for mountain roads or varied terrain.
 - Level 17-24: Recommended for race track use.
- **Adjustable Height:** Thread-type ride height adjustment allows for a lowering range of 0-45 mm from the original ride height. This design helps reduce turning noise and improves steering feel and response.

3. COMPONENT OVERVIEW

The maXpeedingrods T6 Series Coilover system consists of several key components working in unison to provide adjustable suspension performance:



Figure 3: Detailed view of a maXpeedingrods Coilover with labeled components.

- **Rubber Top Mount:** Made from 6061-T6 aluminum, designed for lightweight performance and reduced noise.
- **24-Way Damping Adjustable Knob:** Located at the top of the strut for easy access to adjust rebound damping.
- **High Tensile Spring:** Provides consistent spring rate and durability.
- **Full-Length Dust Boot:** Protects the damper shaft from contaminants, extending the life of the coilover.
- **6061-T6 Aluminum Perch:** Lightweight and strong, used for spring support and height adjustment.
- **Matte Finish Lower Mount:** Anti-rust and heavy-duty construction for secure attachment to the vehicle.
- **Locking Rings:** Used in conjunction with the perches to secure desired ride height settings.

4. INSTALLATION

Warning: Professional installation is highly recommended. Improper installation can lead to vehicle damage, loss of control, and serious injury. Always refer to your vehicle's specific service manual for detailed removal and installation procedures.

General installation steps include:

1. Safely lift the vehicle and secure it on jack stands.
2. Remove the wheels.
3. Carefully disconnect and remove the OEM suspension components.
4. Install the new maXpeedingrods coilovers, ensuring all bolts are torqued to the manufacturer's specifications (refer to your vehicle's service manual).
5. Adjust initial ride height and damping settings as desired (see Section 5).
6. Reinstall wheels and lower the vehicle.
7. Perform a professional wheel alignment after installation.

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Video 1: Overview of COT6 Series Struts, demonstrating general features and installation process. This video is provided by maXpeedingrods-us.

5. OPERATION AND ADJUSTMENTS

5.1 Damping Adjustment

Your coilovers feature 24 levels of damping adjustment. The adjustment knob is located at the top of each strut. To adjust:

1. Locate the damping adjustment knob on the top of the coilover.
2. Turn the knob clockwise for a firmer ride (harder damping) or counter-clockwise for a softer ride (softer damping).
3. Refer to the recommended settings in Section 2 (Features) for guidance based on your driving conditions.

RUBBER TOP MOUNT

light weight & less noise



Focus on Performance

MAX SPEEDING RODS
Since 2006

Figure 4: Damper Adjustment Knob

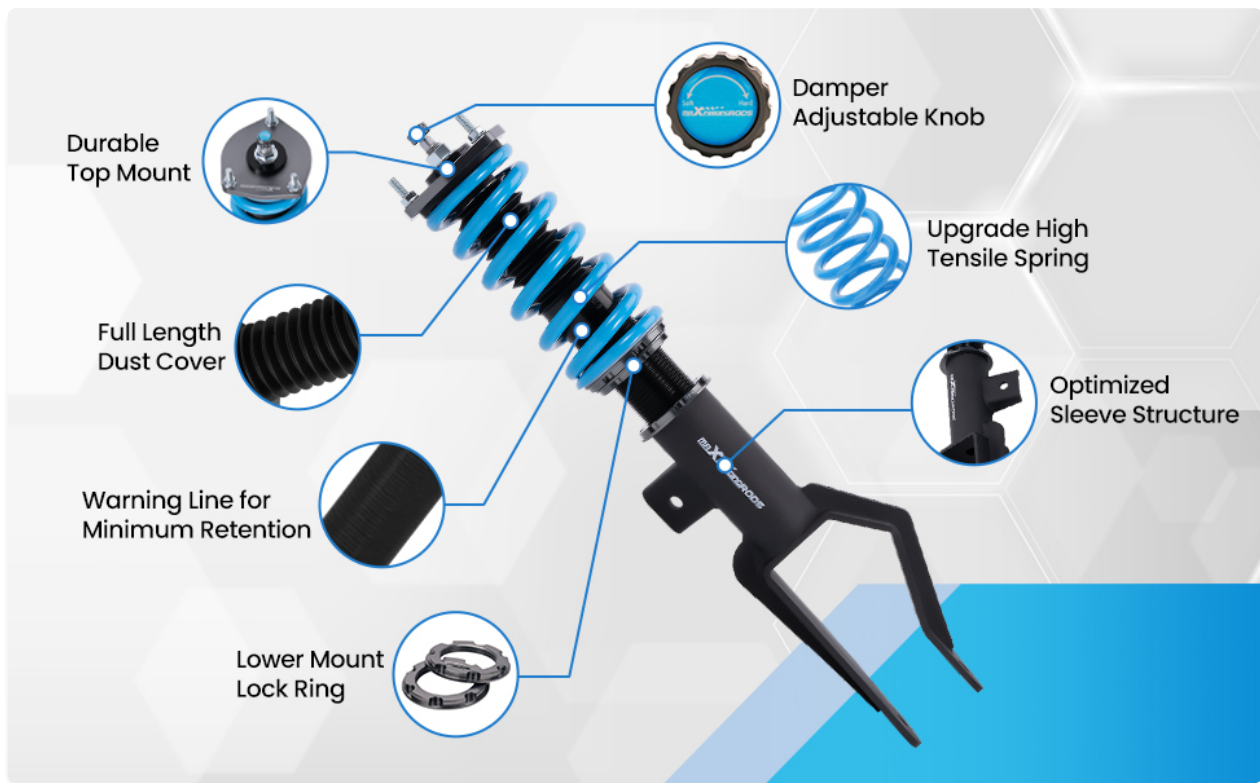


Figure 5: Recommended Damping Settings for Various Driving Conditions

5.2 Ride Height Adjustment

The coilovers allow for 0-45 mm of ride height adjustment. To adjust the ride height:

1. Safely lift the vehicle and support it on jack stands.
2. Loosen the locking rings on the coilover body using the provided spanner wrenches.
3. Rotate the lower perch to raise or lower the vehicle. Ensure both sides of an axle are adjusted equally.
4. Once the desired height is achieved, tighten the locking rings securely.
5. Lower the vehicle and perform a bounce test to settle the suspension.
6. A professional wheel alignment is required after any significant ride height adjustment.

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Video 2: T6 Upgrade Coilovers for Comfortable Driving, showcasing features and adjustment mechanisms. This video is specific to the product and provided by maXpeedingrods-us.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your coilovers:

- **Regular Inspection:** Periodically check for any signs of leaks, damage, or loose components. Inspect the dust boots for tears.
- **Cleaning:** Keep the coilover bodies and threads clean, especially after driving in harsh conditions (e.g., salt, dirt). Use mild soap and water, then rinse thoroughly.
- **Lubrication:** Apply a thin layer of anti-seize lubricant to the threads of the coilover body to prevent corrosion and ensure smooth height adjustments.
- **Torque Check:** Re-check the torque of all mounting bolts periodically, especially after the first few hundred miles of driving.

7. TROUBLESHOOTING

If you experience issues with your coilovers, consider the following common problems and solutions:

- **Noise (Clunking/Squeaking):**
 - Check all mounting bolts for proper torque.
 - Inspect spring perches and locking rings for tightness.
 - Ensure no components are rubbing against each other or the vehicle chassis.
 - Verify top mount bearings are not worn.
- **Uneven Ride Height:**
 - Re-measure and adjust the ride height on all four corners.
 - Ensure spring preload is set correctly (7-10 mm recommended).
- **Poor Handling/Ride Quality:**
 - Adjust damping settings (softer for comfort, firmer for performance).
 - Ensure tire pressures are correct.
 - Verify wheel alignment is within specifications.
- **Fluid Leaks:**
 - A small amount of oil residue is normal. Significant fluid leakage indicates a seal failure. Contact customer support for assistance.

For persistent issues, consult a qualified automotive technician.

8. SPECIFICATIONS


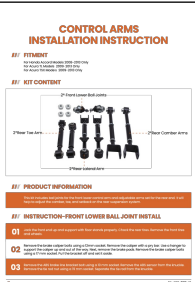



Attribute	Specification
Brand	maXpeedingrods
Model Number	XL87XH
Application	Tesla Model Y AWD 2020+
Series	T6 Street Performance
Damper Adjustment	24 Levels
Height Adjustment Range	0-45 mm (lowering)
Front Spring Rate	10 kg/mm (560 lbs/in)
Rear Spring Rate	10 kg/mm (560 lbs/in)
Spring Preload	7-10 mm
Material (General)	High-grade steel, 6061-T6 Aluminum, Rubber
Item Weight	77.7 pounds
Product Dimensions	27.56 x 19.69 x 7.48 inches

9. WARRANTY AND SUPPORT

maXpeedingrods products are backed by a manufacturer's warranty. For specific warranty terms, claims, or technical support, please refer to the warranty card included with your product or visit the official maXpeedingrods website. Keep your proof of purchase for warranty purposes.

For further assistance, you may contact maXpeedingrods customer service directly.

Related Documents - XL87XH

	<p>GMC Sierra 1500 Axle Lowering Drop Flip Kit Installation Guide maXpeedingrods</p> <p>Detailed installation instructions and kit contents for the maXpeedingrods Axle Lowering Drop Flip Kit, designed to lower the rear of GMC Sierra 1500 trucks by up to 7 inches. Includes step-by-step guidance and maintenance tips.</p>
	<p>Control Arms Installation Instructions for Honda Accord, Acura TL/TSX - maXpeedingrods CA-ACC-0813-LC</p> <p>Comprehensive installation guide for maXpeedingrods adjustable control arms (CA-ACC-0813-LC) for Honda Accord (2008-2013) and Acura TL/TSX (2009-2013). Includes front and rear arm installation steps for adjusting camber, toe, and setback.</p>
	<p>MAXpeedingRODS Suspension Kit Installation Guide for Ford F-250</p> <p>Detailed installation guide for the MAXpeedingRODS Rear Suspension Leveling Kit (ABK-TF2501723-VLC) for Ford F-250 2WD 4WD vehicles. Includes pre-installation notices and step-by-step instructions.</p>
	<p>MAXPEEDINGRODS Air Spring Kit Installation Guide for GMC Sierra & Chevrolet Silverado</p> <p>Detailed installation guide for the MAXPEEDINGRODS rear suspension leveling air spring kit, compatible with GMC Sierra and Chevrolet Silverado models. Includes pre-installation checks, step-by-step removal and installation instructions, and safety warnings.</p>
	<p>MAXpeedingRODS Air Spring Kit Installation Guide for Ford F-150</p> <p>Step-by-step installation guide for the MAXpeedingRODS Rear Air Helper Spring Leveling Kit designed for Ford F-150 vehicles. Includes a comprehensive parts list, pre-installation safety warnings, and detailed assembly instructions.</p>



[Maxpeedingrods Rear Suspension Leveling Kit Installation Guide for Ford F-150 2WD 4WD](#)

A comprehensive installation guide for the Maxpeedingrods Rear Suspension Leveling Kit, designed for Ford F-150 2WD and 4WD vehicles. This guide details the step-by-step process for installing the kit, including pre-installation notices and a list of included components.