

maXpeedingrods XP20YP

maXpeedingrods Coilovers Suspension Kit

FOR MAZDA CX-4 (2016-2019) - MODEL XP20YP

Installation and Adjustment Manual

1. Introduction

This manual provides detailed instructions for the proper installation, adjustment, and maintenance of your maXpeedingrods Coilovers Suspension Kit, Model XP20YP, designed for the Mazda CX-4 (2016-2019). These coilovers are engineered to offer enhanced vehicle handling and adjustable ride height, allowing for a customized driving experience. Please read this manual thoroughly before beginning any installation or adjustment procedures.

The maXpeedingrods coilovers feature high-tensile springs, 6061 aluminum alloy components for durability, and preset damping values to maintain consistent handling characteristics.

Video Description: This video showcases the manufacturing process and quality control measures for maXpeedingrods Advanced T7 Series Coilovers, highlighting the use of high-quality materials and precision testing to ensure product performance and reliability.

2. Safety Information

- **Professional Installation Recommended:** Installation of suspension components requires specialized tools and knowledge. It is highly recommended that installation be performed by a qualified professional.
- **Vehicle Support:** Always ensure the vehicle is securely supported on jack stands or a lift before working underneath. Never rely solely on a jack.
- **Personal Protective Equipment:** Wear appropriate safety gear, including eye protection, gloves, and sturdy footwear, during installation.
- **Torque Specifications:** Adhere strictly to the vehicle manufacturer's torque specifications for all fasteners. Improper torque can lead to component failure.
- **Wheel Alignment:** After installation, a professional wheel alignment is mandatory to ensure proper vehicle handling and tire wear.
- **Road Testing:** Perform a cautious road test in a safe area after installation and adjustments to verify proper function and handling.

3. Package Contents

Verify that all components are present and undamaged before beginning installation. Contact your supplier immediately if any items are missing or damaged.



Image Description: An overhead view of the complete maXpeedingRods coilover suspension kit, including four fully assembled coilovers, separate rear springs, and two orange adjustment wrenches.

- Front Coilovers (2)
- Rear Coilovers (2)
- Adjustment Wrenches (2)
- Instruction Manual (This document)

4. Installation Guide

This section outlines the general steps for installing the coilovers. Specific vehicle disassembly and reassembly procedures may vary. Refer to your vehicle's service manual for detailed instructions.

4.1. Pre-Installation Checks

- Ensure the vehicle is on a level surface and securely supported.
- Disconnect the negative terminal of the vehicle's battery.
- Inspect all components for any shipping damage or manufacturing defects.

4.2. Removal of Original Suspension

1. Remove the wheels.
2. Carefully disconnect any brake lines, ABS sensors, or sway bar links attached to the original strut assembly.
3. Unbolt the lower mounting points of the strut/shock absorber.
4. Access the upper mounting points (usually in the engine bay for front, or trunk/rear interior for rear) and unbolt them.
5. Carefully remove the entire original strut/shock assembly from the vehicle.

4.3. Installation of New Coilovers

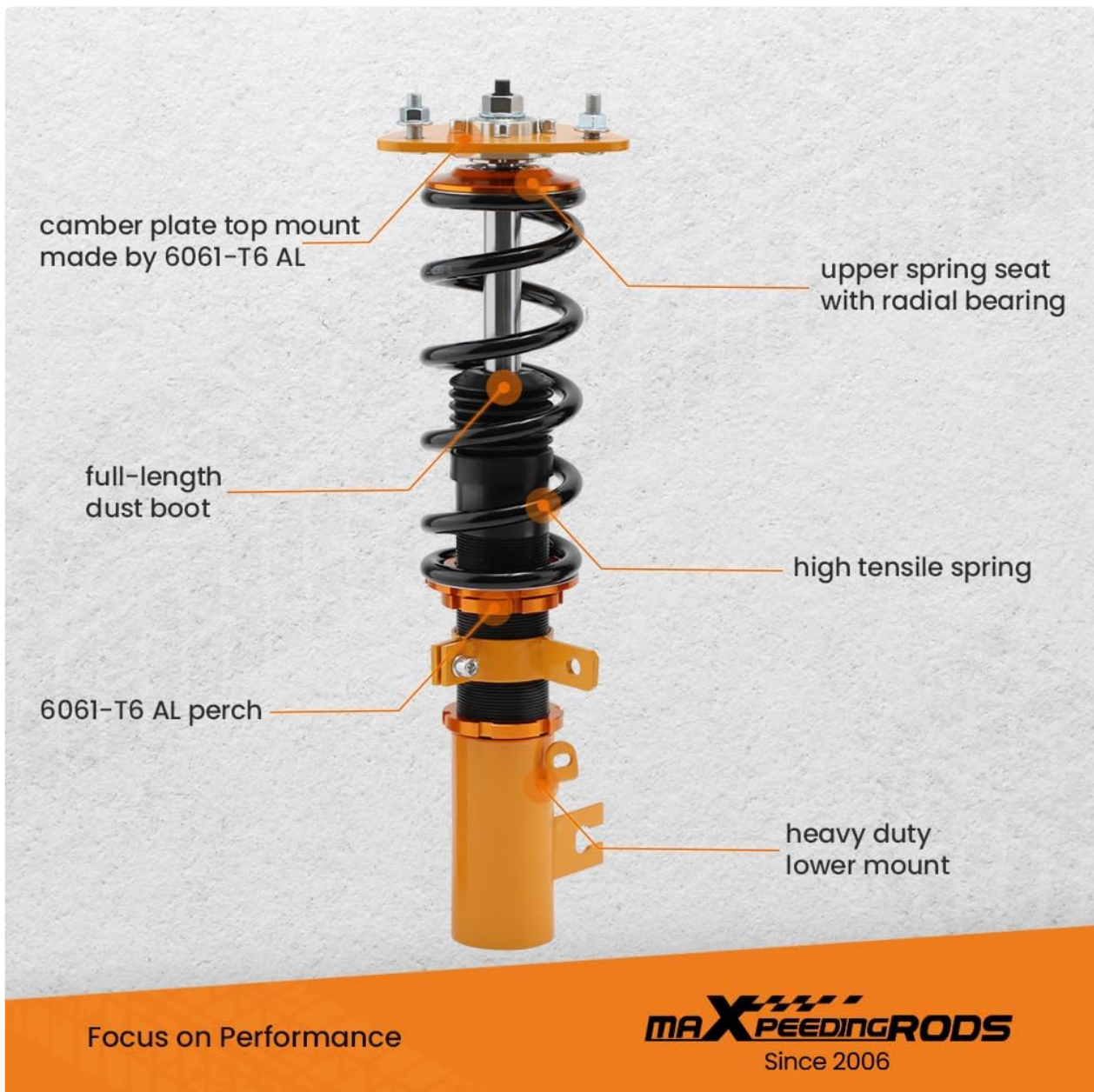


Image Description: A detailed diagram of a maXpeedingrods coilover, labeling its key components including the camber plate top mount, upper spring seat with radial bearing, full-length dust boot, high tensile spring, 6061-T6 aluminum perch, and heavy-duty lower mount.

1. **Initial Height Adjustment:** Before installing, set the coilovers to a preliminary ride height. Refer to Section 5 for detailed adjustment procedures.
2. **Install Upper Mount:** Carefully position the new coilover assembly into the vehicle and secure the upper mounting bolts.
3. **Install Lower Mount:** Align the lower mounting points and secure them with the appropriate bolts.

4. **Reconnect Components:** Reattach any brake lines, ABS sensors, and sway bar links that were disconnected. Ensure all lines and wires are clear of moving parts.
5. **Repeat for all corners:** Follow the same procedure for the remaining three wheels.
6. **Final Torque:** Once all coilovers are installed, re-check and torque all fasteners to the vehicle manufacturer's specifications.

5. Setup and Adjustment

Your maXpeedingrods coilovers offer adjustable ride height and preset damping for optimal performance.

5.1. Ride Height Adjustment

The ride height can be adjusted by rotating the lower mount on the threaded shock body. This allows for a lowering range of 1-3 inches from the original ride height.



Image Description: A diagram showing two coilovers side-by-side, one at a higher setting and one at a lower setting, illustrating the full-length height adjustment mechanism. Arrows indicate the upward and downward movement of the lower mount on the threaded shock body.

1. Loosen the locking ring located above the lower mount using the provided adjustment wrench.

- 2. Rotate the lower mount clockwise to lower the vehicle or counter-clockwise to raise it.
- 3. Once the desired height is achieved, tighten the locking ring securely against the lower mount.
- 4. Ensure both sides of an axle (front or rear) are adjusted to the same height to prevent uneven loading.

5.2. Damping Adjustment

These coilovers come with a factory preset damping value. This setting is optimized to maintain consistent and predictable handling characteristics and reduce the risk of overloading the suspension system. No user adjustment for damping is required or possible with this model.

6. Operating Considerations

- **Break-in Period:** Allow for a break-in period of approximately 500 miles after installation. During this time, avoid aggressive driving to allow the suspension components to settle.
- **Wheel Alignment:** A professional wheel alignment is crucial immediately after installation and any significant ride height adjustments. This ensures correct steering geometry and prevents premature tire wear.
- **Driving Style:** While coilovers enhance performance, always drive responsibly and be aware of changes in vehicle dynamics, especially with a lowered ride height.

7. Maintenance

- **Regular Inspection:** Periodically inspect the coilovers for any signs of damage, leaks, or loose fasteners. Check for corrosion, especially on threaded sections.
- **Cleaning:** Keep the coilovers clean, especially the threaded sections, to prevent dirt and debris from hindering adjustments or causing wear. Use mild soap and water.
- **Lubrication:** Apply a thin layer of anti-seize lubricant to the threaded sections and locking rings during initial installation and periodically thereafter to ensure smooth height adjustments and prevent seizing.

8. Troubleshooting

- **Unusual Noises:** If you hear clunking or squeaking noises, re-check all mounting bolts for proper torque. Inspect for any components rubbing or loose.
- **Uneven Ride Height:** Ensure that the ride height is set equally on both sides of the vehicle (front and rear). A professional alignment can also help diagnose and correct unevenness.
- **Poor Handling:** Verify that all components are installed correctly and securely. A professional wheel alignment is critical for optimal handling after suspension modifications.

9. Specifications


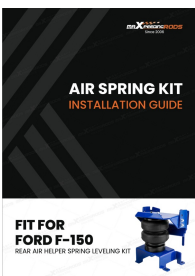
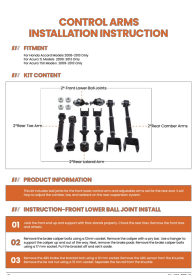
Feature	Specification
Application	Mazda CX-4 2016-2019
Front Spring Rate	8 kg/mm (448 lbs/in)
Rear Spring Rate	6 kg/mm (336 lbs/in)
Lowering Height Adjustment	1-3 inches (from original ride height)




Feature	Specification
Damping	Factory Preset
Material	6061 Aluminum Alloy with T6
Manufacturer Part Number	XP20YP
Item Weight	69.1 pounds
Product Dimensions	28.19 x 20.47 x 7.83 inches

10. Warranty and Support

maXpeedingrods products are manufactured to high standards. For specific warranty details, terms, and conditions, please refer to the warranty information provided with your purchase or visit the official maXpeedingrods website. For technical support or assistance, please contact maXpeedingrods customer service through their official channels.

Related Documents - XP20YP

	<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>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>
	<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>SUSPENSION KIT INSTALLATION GUIDE</p> <p>FIT FOR FORD F-250 2WD 4WD REAR SUSPENSION LEVELING KIT</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>AIR SPRING KIT INSTALLATION GUIDE</p> <p>FIT FOR GMC SIERRA CHEVROLET SILVERADO REAR SUSPENSION LEVELING KIT</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>SUSPENSION KIT INSTALLATION GUIDE</p> <p>FIT FOR FORD F-150 2WD 4WD REAR SUSPENSION LEVELING KIT</p>	<p>Maxpeedingrods Rear Suspension Leveling Kit Installation Guide for Ford F-150 2WD 4WD</p> <p>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.</p>