maXpeedingrods QV723GU

maXpeedingrods Coilover Suspension Kit Instruction Manual

For Subaru BRZ (2012-2020), Scion FR-S (2012-2020), Toyota 86 (2012-2020)

1. Introduction

This manual provides detailed instructions for the installation, adjustment, and maintenance of your maXpeedingrods 24-level damper adjustable coilover suspension kit. Please read this manual thoroughly before installation and use to ensure proper function and safety. This kit is designed to enhance vehicle handling and allow for adjustable ride height and damping.

2. Safety Information

- Professional installation is highly recommended. Improper installation can lead to vehicle damage or personal injury.
- Always use appropriate safety equipment, including eye protection and gloves, during installation.
- Ensure the vehicle is securely supported on jack stands or a lift before working underneath it.
- Do not modify any components of the coilover kit.
- After installation, perform a wheel alignment to ensure correct vehicle geometry.

3. Package Contents

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

Image: Packaging list showing 2x Front coil-overs, 2x Rear coil-overs, 1x Allen wrench, and 2x C spanners.

- 2x Front Coil-overs
- 2x Rear Coil-overs
- 1x Allen Wrench
- 2x C Spanners (for adjustment)

4. Product Features

- **Fitment:** Designed for Subaru BRZ First generation (ZN6/ZC6) 2012-2020, Scion FR-S 2012-2020, and Toyota 86 2012-2020.
- **24 Rebound Force Levels:** Allows for precise control over damping. Adjustments range from soft for street use (Level 0-8), medium for mountain roads (Level 9-16), to firm for race tracks (Level 17-24).

Image: Detail of the 24-click damping adjustable knob on the coilover.

- **Spring Rate:** Front Spring rate: 6 kg/mm (336 in/lbs), Rear Spring rate: 5 kg/mm (280 in/lbs). Springs are high tensile performance, tested for durability with less than 0.04% distortion after 600,000 continuous tests.
- **Height Adjustment:** Adjustable by 1-3 inches, allowing for a lower stance. This design helps reduce turning noise and improves steering feel and response. Note: Does not maintain original ride height.

Image: Illustration of height adjustment mechanism with independent ride height and spring tension settings.

- **Adjustable Camber Plates:** Front coilovers feature adjustable camber plates made of 6061-T6 aluminum, offering lightweight construction and reduced noise.

Image: Adjustable camber plates for fine-tuning wheel alignment.

- **High Rigid Piston Rod:** Constructed from steel using high-frequency heat treatment for high rigidity and toughness, ensuring a long-lasting rod lifetime.

Image: Internal view of the coilover showing the 22mm front rod diameter and high rigid piston rod.

- **Durable Construction:** Features anodized shock body with anti-corrosion coating, powder-coated lower mounts, and full-length dust boots for protection against dirt and debris.

Image: Detailed diagram of a coilover with labeled components including the camber plate top mount, upper spring seat, full-length dust boot, 55CrSi steel coil springs, anodized shock body, and powder-coated lower mount.

5. Installation

Installation of coilovers requires mechanical knowledge and specialized tools. If you are not confident in your abilities, seek professional assistance.

5.1 General Installation Steps

1. Safely lift and support the vehicle. Remove the wheels.
2. Remove the original suspension components.
3. Assemble the new coilover units if necessary (refer to video below).
4. Install the new coilovers, ensuring all bolts are torqued to manufacturer specifications.
5. Reinstall the wheels and lower the vehicle.
6. Perform a wheel alignment immediately after installation.

5.2 Coilover Assembly (if required)

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Video: This video demonstrates the assembly process for a coilover unit, showing how to correctly place each component including the spring seat, upper locker, lower locker, lower mount, dust boot, spring, plate, ring, washer, and locking nut. It also shows how to adjust spring preload.

5.3 Height Adjustment

The coilovers allow for independent ride height adjustment. Use the provided C spanners to adjust the lower mount.

Your browser does not support the video tag.

Video: This video illustrates the process of adjusting the ride height of the coilover suspension, demonstrating how to use the adjustment tools.

1. Loosen the lower mount (A) and locking ring (B).
2. Increase or decrease the thread distance to change the ride height.
3. Tighten the lower mount (A) and locking ring (B) securely.

6. Operating Instructions (Damping Adjustment)

Your coilovers feature 24 levels of rebound damping adjustment to suit various driving conditions and preferences. The adjustment knob is located at the top of the coilover.

- **Levels 0-8:** Recommended for street use, providing a comfortable ride.
- **Levels 9-16:** Suggested for mountain roads or spirited driving, offering a balance of comfort and performance.
- **Levels 17-24:** Ideal for race tracks, providing maximum stiffness and control.

Turn the adjustment knob clockwise for firmer damping and counter-clockwise for softer damping. Make adjustments incrementally and test the vehicle's handling to find your preferred setting.

7. Maintenance

- Regularly inspect coilovers for any signs of damage, leaks, or corrosion.
- Keep the coilover threads clean and free of debris. Applying a thin layer of anti-seize grease can help prevent seizing.
- Check all mounting bolts and nuts periodically to ensure they are properly torqued.
- Clean the coilovers with mild soap and water, especially after driving in harsh conditions (e.g., salt, dirt).

8. Specifications

Attribute	Value
Brand	maXpeedingrods
Model Number	QV723GU
Item Weight	47.7 pounds
Product Dimensions	24.84 x 20.04 x 8.07 inches
Position	Front
Front Spring Rate	6 kg/mm (336 in/lbs)
Rear Spring Rate	5 kg/mm (280 in/lbs)

Image: Detailed dimensions and spring rates for both front and rear coilover units.

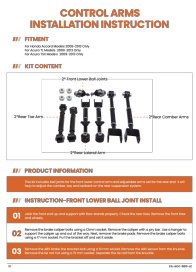
9. Troubleshooting

- **Unusual Noises (Clunking/Squeaking):** Check all mounting points for proper torque. Inspect for any loose components or contact between parts.
- **Uneven Ride Height:** Re-measure and adjust the coilover height on each corner. Ensure spring preload is correctly set.
- **Poor Handling/Ride Quality:** Verify damping settings are appropriate for your driving conditions. Check for proper wheel alignment.

10. Warranty and Support

For warranty information, technical support, or assistance with installation, please contact maXpeedingrods customer service. Keep your purchase receipt as proof of purchase.
Visit the official maXpeedingrods store for more information:maXpeedingrods Store

Related Documents - QV723GU

	GMC Sierra 1500 Axle Lowering Drop Flip Kit Installation Guide | maXpeedingrods 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.
	Control Arms Installation Instructions for Honda Accord, Acura TL/TSX - maXpeedingrods CA-ACC-0813-LC 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.
	MAXPEEDINGRODS Rear Air Helper Spring Leveling Kit Installation Guide for Toyota Tacoma 4WD Detailed installation guide for the MAXPEEDINGRODS Rear Air Helper Spring Leveling Kit (Part Number ABK-TAC-0521-B-VLC) designed for Toyota Tacoma 4WD vehicles. Includes parts list, pre-installation instructions, step-by-step assembly, and final checks.
	MAXPEEDINGRODS Rear Air Helper Spring Leveling Kit Installation Guide for Toyota Tacoma 4WD Detailed installation guide for the MAXPEEDINGRODS Rear Air Helper Spring Leveling Kit designed for Toyota Tacoma 4WD vehicles. Learn how to install your air spring kit with step-by-step instructions and a comprehensive parts list.
	MAXpeedingRODS Suspension Kit Installation Guide for Ford F-250 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.

 	[MAXpeedingRODS Air Spring Kit Installation Guide for Toyota Tundra] Comprehensive installation guide for the MAXpeedingRODS Air Spring Kit, designed for Toyota Tundra models. Learn how to fit, assemble, and install your rear air helper spring leveling kit with detailed steps and part lists.