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maXpeedingrods CO-E46-R-LCDEGG

maXpeedingrods Coilover Suspension Kit User Manual

Model: CO-E46-R-LCDEGG

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your maXpeedingrods Coilover Suspension Kit. Please read these instructions carefully before installation and retain this manual for future reference. Proper installation and adjustment are crucial for optimal performance and safety.

2. Product Compatibility

This maXpeedingrods Coilover Suspension Kit (Model: CO-E46-R-LCDEGG) is designed for the following BMW 3 Series E46 models:

- BMW 3 Series E46 320i (2001-2005)
- BMW 3 Series E46 323i (1998-2000)
- BMW 3 Series E46 325i / 325xi (2001-2005)
- BMW 3 Series E46 328i (1998-2000)
- BMW 3 Series E46 330i (2001-2006)
- BMW 3 Series E46 M3 (2001-2006)

Please ensure your vehicle matches one of the listed models for proper fitment and performance.

3. Key Features

The maXpeedingrods Coilover Suspension Kit offers advanced features for enhanced vehicle handling and ride customization:

- **24-Step Rebound Damping Force Adjustment:** Allows precise tuning of ride comfort and handling response.
- **Adjustable Camber Plates:** Made of 6061-T6 Aluminum, these provide sharp and precise handling by allowing camber angle adjustment.

- **Full-Length Dust Boot:** Protects the shock absorber shaft from dirt and debris, extending component life.
- **Upper Spring Seat with Radial Bearing:** Ensures faster response and reduced noise during suspension movement.
- **High Rigidity 55CrSi Steel Cold-Bent Coil Springs:** Designed for durability and consistent performance. Front spring rate: 8 kg/mm, Rear spring rate: 7 kg/mm.
- **6061-T6 Aluminum Perch and Lock Rings:** Billet aluminum parts and CNC hardware for secure and precise height adjustment.
- **Anodized Shock Body with Anti-Corrosion Coating:** Enhances durability and resistance to environmental elements.
- **Powder-Coated Lower Mount:** Provides additional protection and a durable finish.
- **High Rigidity Piston Rod:** 22mm front rod diameter, made from high-strength steel with high-frequency heat treatment for long-lasting life and safe high-speed driving.



Detailed view of the coilover components and their features.



Illustration of the 22mm front piston rod, highlighting its high rigidity and durability.



Detail of the lower mount with fully anodized, rust-resistant bushings.



Adjustable camber plates for precise handling.



Upper spring seat designed for improved response and reduced noise.



Perch and lock rings, precision-machined from billet aluminum.



High rigidity 55CrSi cold-bent steel coil springs.

4. Setup and Installation

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

4.1 Safety Precautions

- Always use appropriate safety gear, including eye protection and gloves.
- Ensure the vehicle is securely supported on jack stands or a lift.
- Never work under a vehicle supported only by a jack.
- Disconnect the battery before starting any electrical work.

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

1. Lift the vehicle and remove the wheels.
2. Carefully remove the original suspension components.
3. Install the new maXpeedingrods coilover units, ensuring all bolts are torqued to manufacturer specifications.
4. Adjust ride height and damping settings as desired (refer to Section 5).
5. Reinstall wheels and lower the vehicle.
6. Perform a wheel alignment after installation to ensure proper vehicle handling and tire wear.

5. Operating Instructions (Adjustments)

Your maXpeedingrods Coilover Kit allows for independent adjustment of ride height and damping force.

5.1 Ride Height Adjustment

The ride height can be adjusted independently using the threaded shock body and perch. This allows for precise vehicle stance and spring preload tuning.

- Use the provided spanner wrenches to loosen the lock rings on the coilover body.
- Rotate the lower mount or the spring perch to raise or lower the vehicle.
- Ensure both sides of the vehicle are adjusted evenly to maintain balance.
- Once the desired height is achieved, securely tighten the lock rings.



Independent ride height and spring tension adjustment.

5.2 Damping Force Adjustment

The coilovers feature 24 clicks of rebound damping force adjustment, allowing you to fine-tune the suspension's stiffness to suit driving conditions and personal preference.

- Locate the damping adjustment knob, typically at the top of the shock absorber.
- Turn the knob clockwise for stiffer damping and counter-clockwise for softer damping.
- Start with a neutral setting (e.g., 12 clicks from full soft) and adjust incrementally.
- Test drive the vehicle after each adjustment to evaluate the change in ride quality and handling.

5.3 Camber Adjustment

The adjustable camber plates allow for fine-tuning of the wheel's camber angle. This adjustment should be done by a professional during a wheel alignment.

6. Maintenance

Regular maintenance will ensure the longevity and performance of your coilover suspension kit.

- **Regular Inspection:** Periodically inspect the coilovers for any signs of damage, leaks, or loose components.
- **Cleaning:** Keep the coilovers clean, especially the threaded sections and dust boots, to prevent dirt buildup that can hinder adjustment or cause wear.
- **Lubrication:** Apply a thin layer of appropriate grease to the threaded sections and lock rings to ensure smooth adjustment and prevent seizing.
- **Torque Check:** After initial installation and periodically thereafter, check all mounting bolts and nuts to ensure they are torqued to the correct specifications.

7. Troubleshooting

If you experience issues with your coilover suspension, consider the following common troubleshooting steps:

- **Unusual Noises (Clunking/Squeaking):**
  - Check all mounting bolts for proper torque.
  - Inspect for any loose components or contact between suspension parts and the chassis.
  - Ensure springs are seated correctly and not binding.
- **Uneven Ride Height:**
  - Re-measure and adjust the ride height on all four corners.
  - Ensure lock rings are securely tightened after adjustment.
- **Poor Handling/Ride Quality:**
  - Adjust damping settings (refer to Section 5.2) to find a suitable balance.
  - Verify that spring preload is correctly set.
  - Ensure a professional wheel alignment has been performed after installation.
- **Leaking Shock Absorber:**
  - A small amount of oil residue is normal, but significant leakage indicates a seal failure. Contact customer support for assistance.

For persistent issues, it is recommended to consult a professional mechanic or contact maXpeedingrods customer support.

8. Specifications

Brand	maXpeedingrods
Model Number	CO-E46-R-LCDEGG
Vehicle Type	Car (BMW 3 Series E46)
Damping Adjustment	24-step adjustable rebound
Height Adjustment	Yes, independent ride height
Camber Plates	Adjustable, 6061-T6 Aluminum
Front Spring Rate	8 kg/mm
Rear Spring Rate	7 kg/mm
Material	Aluminum alloy, 55CrSi steel
Finish	Red, Anodized, Powder-Coated
Item Weight	25550 Grams (approx. 56.3 lbs)
Quantity	1 set (4 units)

9. Warranty and Support

maXpeedingrods products are designed for performance and durability. For specific warranty information, please refer to the warranty card included with your product or visit the official maXpeedingrods website.
If you require technical assistance, have questions about installation, or need to report a product issue, please contact maXpeedingrods customer support through their official channels. When contacting support, please have your product model number (CO-E46-R-LCDEGG) and purchase details readily available.

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