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› maXpeedingrods Coilover Suspension Kit User Manual for BMW E46 (1998-2007)

maXpeedingrods BM26GMK

maXpeedingrods Coilover Suspension Kit User Manual

Model: BM26GMK

Brand: maXpeedingrods

1. INTRODUCTION AND OVERVIEW

Thank you for choosing the maXpeedingrods Coilover Suspension Kit. This manual provides essential information for the proper installation, operation, and maintenance of your new T6 Upgraded Coilovers. Designed for enhanced performance and comfort, these coilovers offer precise control over your vehicle's suspension dynamics.



Figure 1: Complete maXpeedingrods Coilover Suspension Kit components, including front and rear coilovers, springs, and adjustment wrenches.

2. PRODUCT FEATURES

- **24 Levels Adjustable Damper:** Fine-tune your ride with 24 distinct levels of damping force. This allows for customization based on driving conditions and personal preference.
- **Adjustable Height:** Achieve a lowered stance of 1-3 inches, optimizing vehicle aesthetics and handling. This adjustment helps in reducing turning noise and improving steering response.
- **High Tensile Springs:** Engineered for durability and consistent performance. Front springs are rated at 8 kg/mm (448 lbs/in) and rear springs at 7 kg/mm (392 in/lbs). These springs undergo rigorous testing (over 600,000 cycles) to ensure minimal distortion (less than 0.04%).
- **Upgraded T6 Series Components:** Features an easier-to-adjust damper knob, high-quality damping oil for improved viscosity, and upgraded full aluminum plates for enhanced strength and rigidity.
- **Durable Construction:** Components like perches and locking rings are made from 6061-T6 Billet Aluminum, ensuring lightweight and rust-resistant properties.

Adjuster knob

shows the rotation direction which makes damper setting easier



Figure 2: Detail of the upgraded damper adjustment knob, designed for easier and more intuitive adjustments.



Figure 3: Exploded view of the coilover highlighting key components and their materials.

3. COMPATIBILITY AND APPLICATION

This maXpeedingrods Coilover Suspension Kit (Model BM26GMK) is specifically designed for the following BMW E46 models:

- **BMW 3 (E46) 4-door sedan:** 330i, 325i, 328i, 318d, 320d, 320i, 325i, 330d (February 1998 - April 2005)
- **BMW 3 2-door Convertible (E46):** 330ci, 325ci, 323ci, 320cd, 330cd (April 2000 - December 2007)
- **BMW 3 2-door Coupe (E46):** 320ci, 325ci, 330ci, 320cd, 330cd (February 1999 - December 2006)
- **BMW 3 Touring 5-door wagon/estate (E46):** 316i, 325i, 328i, 330i, 323i, 325i, 318d, 320d, 330d (October 1999 - May 2005)

Note: This kit is NOT compatible with Xi/xd 4-wheel drive models.

4. SETUP AND INSTALLATION

Installation of coilovers requires specialized tools and automotive knowledge. It is highly recommended that installation be

performed by a qualified professional to ensure proper fitment, safety, and optimal performance. Incorrect installation can lead to vehicle damage or personal injury.

General Installation Steps (Professional Installation Recommended):

1. Safely lift and secure the vehicle on a lift or jack stands.
2. Remove the wheels and access the existing suspension components.
3. Carefully disconnect and remove the OEM shock absorbers and springs.
4. Install the new maXpeedingrods coilovers, ensuring all mounting points are correctly aligned and secured with appropriate torque specifications.
5. Adjust the initial ride height and damper settings as desired (refer to Section 5).
6. Reinstall wheels and lower the vehicle.
7. Perform a professional wheel alignment after installation to ensure proper handling and tire wear.

Your browser does not support the video tag.

Video: "T6 Upgrade Coilovers for Comfortable Driving" - This video provides a visual overview of the T6 series coilovers and their features, including glimpses of the installation process and performance. It demonstrates the product's application in various driving scenarios.



Figure 4: Illustration of the 24-way damping adjustment mechanism, highlighting the radial bearing and pillow ball for smooth operation.

5. OPERATING AND ADJUSTMENT

Damper Adjustment (24 Levels):

The coilovers feature 24 levels of damping adjustment, allowing you to customize the ride stiffness. The adjustment knob is located at the top of the coilover. Turn the knob to select your desired setting.

- **Level 0-8:** Recommended for street use, providing a comfortable ride suitable for daily driving.
- **Level 9-16:** Suggested for mountain roads or spirited driving, offering a balance of comfort and increased responsiveness.
- **Level 17-24:** Ideal for race track use, providing maximum stiffness and control for aggressive driving conditions.

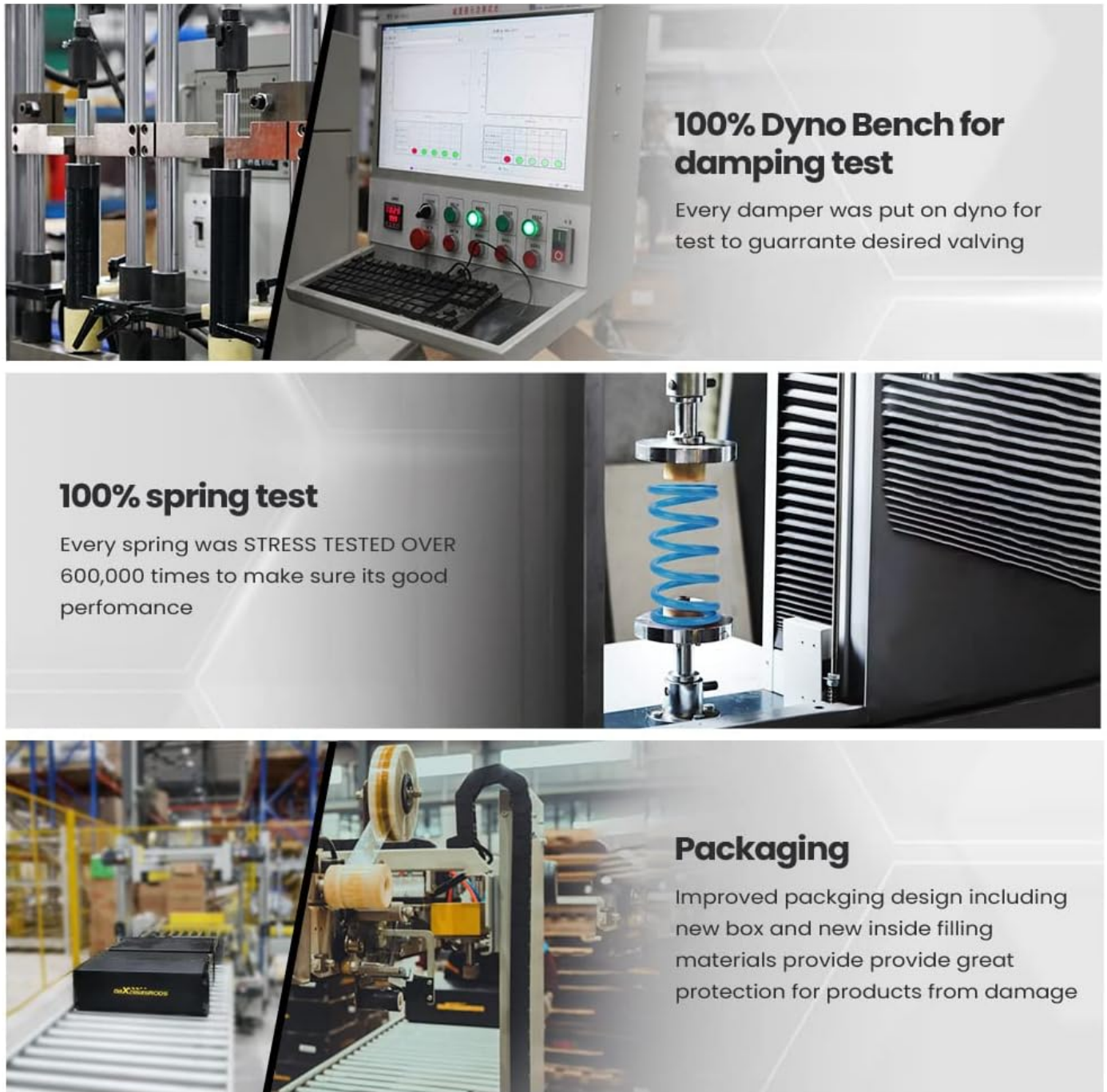


Figure 5: Visual guide for selecting the appropriate damper setting based on driving environment.

Height Adjustment:

The coilovers allow for a lowering adjustment range of 1 to 3 inches from the original ride height. To adjust the height, use the provided wrenches to loosen the locking collars and rotate the lower mount to raise or lower the vehicle. Ensure both sides of the

vehicle are adjusted equally to maintain balance.

lowering coilover kit

for 1–3inch allow lower center of gravity and also full length height adjustable

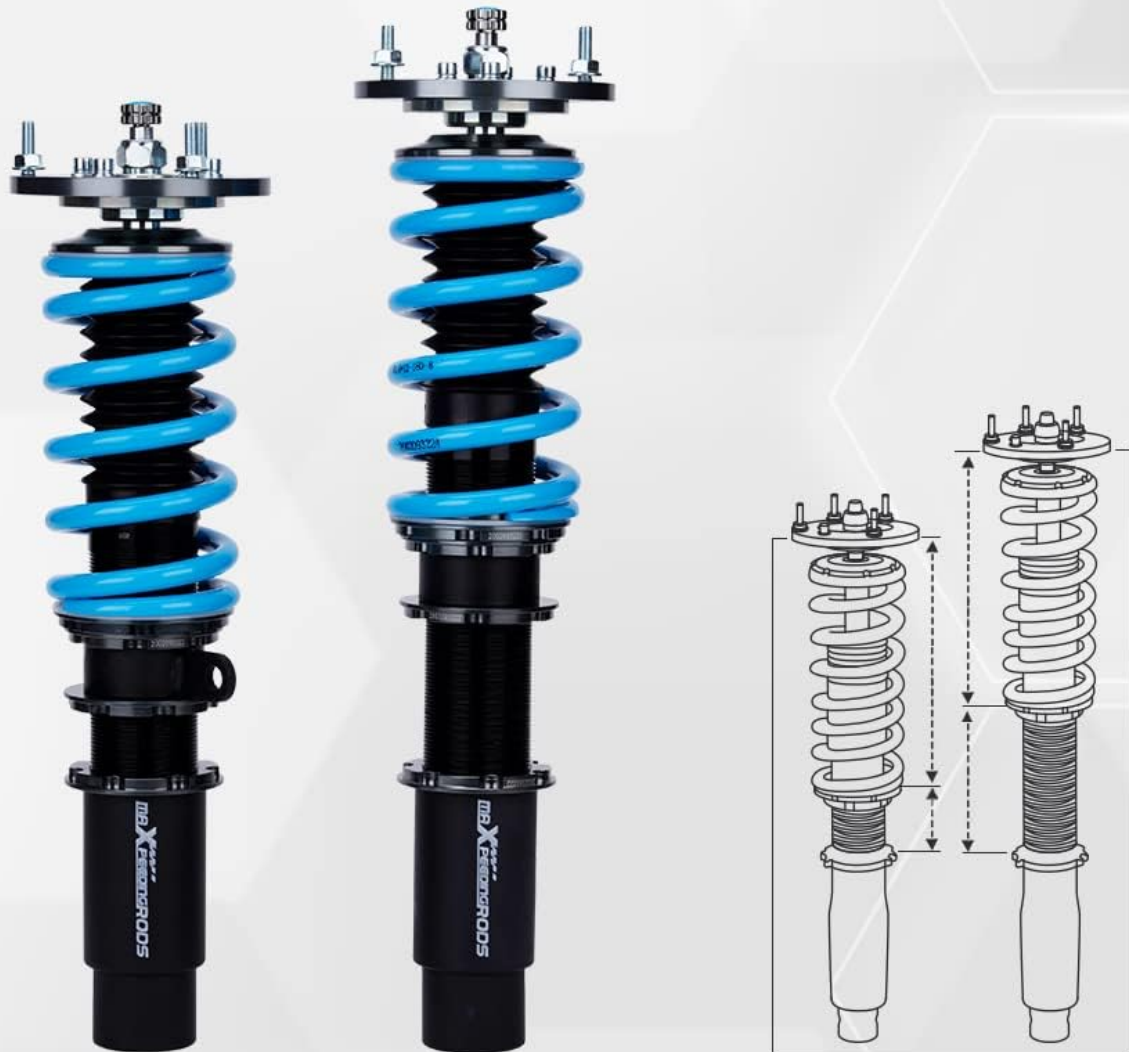


Figure 6: Illustration demonstrating the height adjustment capability of the coilovers.

6. MAINTENANCE

Regular maintenance helps prolong the life and performance of your coilovers.

- **Regular Inspection:** Periodically inspect the coilovers for any signs of damage, leaks, or loose components. Check the condition of the dust boots and ensure they are intact.
- **Cleaning:** Keep the coilovers clean, especially the threaded sections, to prevent dirt and debris from affecting height adjustment. Use mild soap and water, avoiding harsh chemicals.
- **Lubrication:** Apply a thin layer of appropriate grease to the threads and moving parts during height adjustments to ensure smooth operation and prevent seizing.
- **Torque Check:** After initial installation and periodically thereafter, check all mounting bolts and nuts to ensure they are torqued to the manufacturer's specifications.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Unusual Noise (clunking, squeaking)	Loose mounting bolts, worn bushings, improper spring preload, debris in threads.	Check and re-torque all bolts. Inspect bushings for wear. Adjust spring preload. Clean threads.
Poor Ride Quality (too stiff/soft)	Incorrect damper setting, improper height adjustment.	Adjust damper settings (refer to Section 5). Verify height adjustment is even and within recommended range.
Uneven Ride Height	Uneven height adjustment, spring settling.	Re-measure and adjust height on all four corners. Allow time for springs to settle after initial installation.

If problems persist, contact maXpeedingrods customer support or consult with a professional automotive technician.

8. SPECIFICATIONS

- **Model:** BM26GMK
- **Application:** BMW E46 (1998-2007) - Specific models listed in Section 3.
- **Damper Adjustment:** 24 Levels (Rebound Force)
- **Height Adjustment:** 1-3 inches lowering (from original ride height)
- **Front Spring Rate:** 8 kg/mm (448 lbs/in)
- **Rear Spring Rate:** 7 kg/mm (392 lbs/in)
- **Spring Preload:** Recommended 7-10 mm
- **Material:** 6061-T6 Billet Aluminum (perches, locking rings, camber plates), High Tensile Steel (springs)
- **Item Weight:** Approximately 56.7 pounds
- **Product Dimensions:** Approximately 27.95 x 20.08 x 8.27 inches (packaging)

COILOVER SPRING

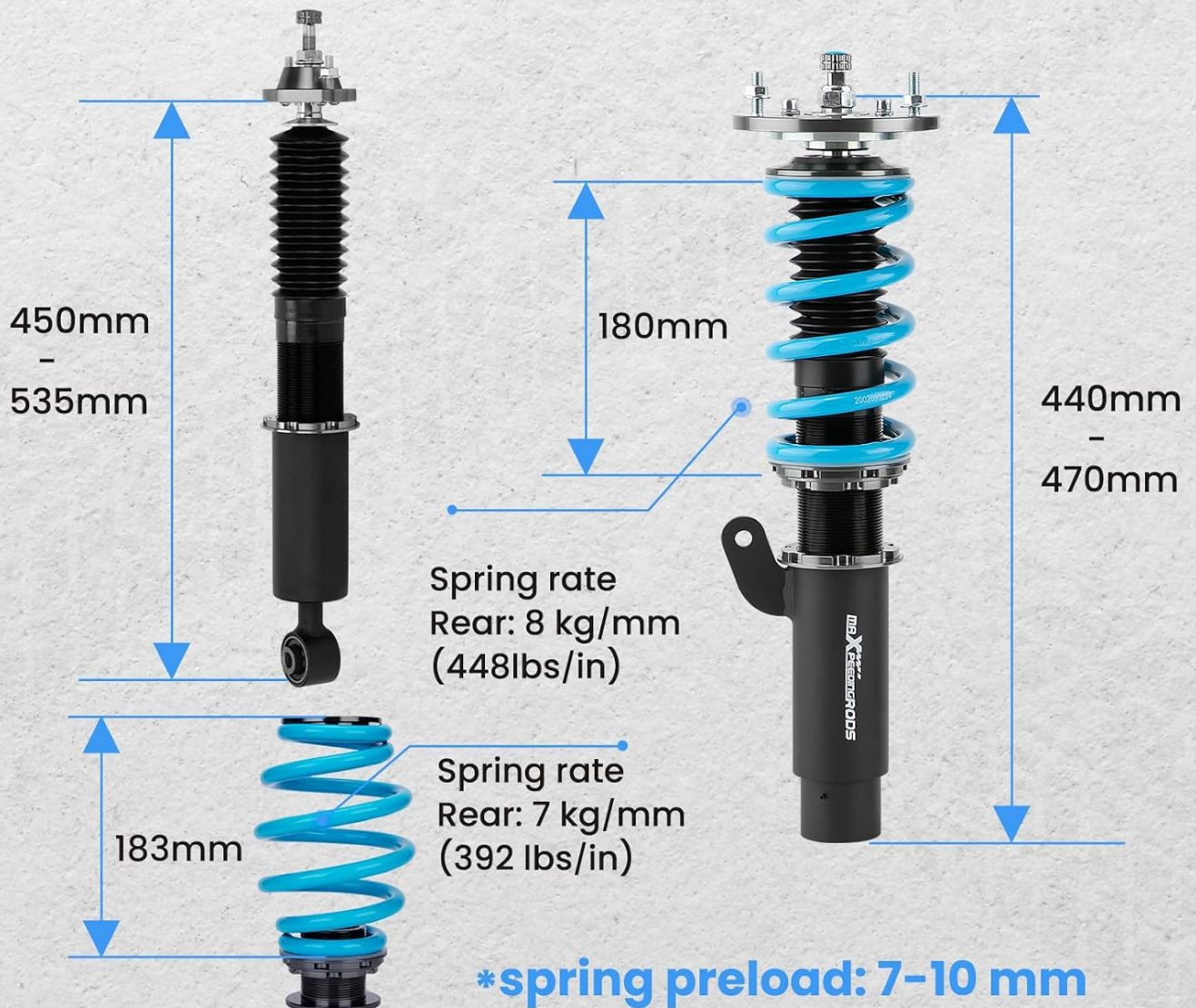


Figure 7: Detailed dimensions and spring rates for the maXpeedingrods coilovers.

24 REBOUND FORCE LEVELS FOR MORE CONTROL



LEVEL 0-8

Race Tracks Use



LEVEL 9-16

Mountain
Anfractuosities Use



LEVEL 17-24

Street Use



Figure 8: Overview of quality control processes, including dyno testing, spring endurance testing, and packaging improvements.

9. WARRANTY AND SUPPORT

maXpeedingrods products are designed and manufactured to high standards. For specific warranty details and terms, please refer to the warranty card included with your product or visit the official maXpeedingrods website.

For technical assistance, installation queries, or any other support needs, please contact maXpeedingrods customer service through their official channels. Provide your product model number (BM26GMK) and purchase details for efficient service.

Online Support: Visit the maXpeedingrods official website for FAQs, support resources, and contact information.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question