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## Eibach E10-20-022-01-22

# Eibach E10-20-022-01-22 Performance Pro-Kit Springs User Manual

Model: E10-20-022-01-22

## 1. INTRODUCTION

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This manual provides essential information for the installation, operation, and maintenance of your Eibach Pro-Kit Performance Springs, model E10-20-022-01-22. Please read this manual thoroughly before proceeding with any installation or use to ensure proper function and safety.

The Eibach Pro-Kit is engineered to enhance your vehicle's handling and appearance by lowering its center of gravity. This system is designed to reduce body roll during cornering, minimize nose-dive under braking, and decrease squat during acceleration, providing a balanced and sporty ride.

## 2. PRODUCT OVERVIEW

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The Eibach Pro-Kit Performance Springs are precision-engineered components designed to replace your vehicle's original equipment springs. They are part of a comprehensive suspension upgrade aimed at improving vehicle dynamics.



**Figure 2.1:** Eibach Pro-Kit Performance Springs (Model E10-20-022-01-22) showing four black coil springs and the product packaging.

### Key Features:

- Top-performance handling characteristics.
- Lowers vehicle's center of gravity, reducing ride height by up to 40 mm.
- Features a progressive spring design for optimal performance.
- Maintains excellent ride quality.
- Designed as part of the B12 Pro-Kit system.

## 3. INSTALLATION (SETUP)

Installation of the Eibach Pro-Kit Performance Springs requires specialized tools and automotive knowledge. It is highly recommended that installation be performed by a qualified professional technician.

## Safety Precautions:

- Always use appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on a lift or jack stands before beginning work. Never work under a vehicle supported only by a jack.
- Use spring compressors designed for automotive suspension work to safely remove and install coil springs. Improper use can result in serious injury.
- Refer to your vehicle's service manual for specific torque specifications and procedures related to suspension component removal and installation.

## General Installation Steps (Consult Vehicle Specific Manual for Details):

1. Safely lift and support the vehicle. Remove the wheels.
2. Carefully disconnect suspension components as necessary to allow for spring removal (e.g., sway bar links, shock absorbers, control arms).
3. Using a spring compressor, compress the existing coil spring until tension is relieved, then remove it from the vehicle.
4. Install the Eibach Pro-Kit spring, ensuring it is correctly seated in the spring perches. Use spring compressors if necessary for installation.
5. Reassemble all disconnected suspension components, tightening all fasteners to the manufacturer's specified torque values.
6. Repeat the process for all springs.
7. Lower the vehicle and perform a wheel alignment. This is crucial after suspension modifications to ensure proper handling and tire wear.

## 4. OPERATION (USAGE)

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Once installed, the Eibach Pro-Kit Performance Springs will alter your vehicle's ride height and handling characteristics. It is important to understand these changes for safe and optimal driving.

### Driving Characteristics:

- **Improved Handling:** Expect reduced body roll, enhanced steering response, and a more direct feel of the road.
- **Lowered Ride Height:** The vehicle will sit lower, which can affect ground clearance. Exercise caution over speed bumps, steep driveways, and uneven terrain.
- **Ride Comfort:** While designed to maintain excellent ride quality, the ride may feel firmer than stock due to the increased spring rate and reduced suspension travel.
- **Wheel Alignment:** A proper wheel alignment is critical after installation to prevent premature tire wear and ensure stable handling.

## 5. MAINTENANCE

Eibach Pro-Kit Performance Springs are designed for durability and require minimal maintenance. However, regular inspection of your vehicle's suspension components is recommended.

### Recommended Checks:

- **Visual Inspection:** Periodically inspect the springs for any signs of damage, corrosion, or cracks. Check for proper seating in the spring perches.
- **Component Wear:** Check associated suspension components (shocks, struts, bushings, ball joints) for wear. Lowering springs can sometimes accelerate wear on these components if they are not designed to accommodate the reduced travel.
- **Cleanliness:** Keep the springs and surrounding suspension area clean from excessive dirt and debris.
- **Alignment Check:** Consider having your wheel alignment checked annually or if you notice uneven tire wear or changes in handling.

## 6. TROUBLESHOOTING

Most issues related to suspension modifications can be resolved through proper installation and alignment. If you experience problems, consider the following:

### Common Issues and Solutions:

Symptom	Possible Cause	Solution
Uneven ride height	Improper spring seating; incorrect spring installed on a corner; worn suspension components.	Verify springs are correctly seated and match the vehicle application. Inspect and replace worn components.
Excessive noise (clunking, squeaking)	Loose fasteners; worn bushings; spring not seated correctly; contact with other components.	Check all fasteners for proper torque. Inspect bushings for wear. Ensure springs are seated correctly and have adequate clearance.
Poor handling or steering feel	Incorrect wheel alignment; worn steering or suspension components; improper tire pressure.	Perform a professional wheel alignment. Inspect and replace worn components. Check tire pressures.
Bottoming out	Worn or inadequate shock absorbers; excessive load; severe road conditions.	Consider upgrading to performance shock absorbers designed for lowered vehicles. Reduce vehicle load. Drive cautiously on rough roads.

If troubleshooting steps do not resolve the issue, contact a certified automotive technician or Eibach customer support for further assistance.

## 7. SPECIFICATIONS

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Detailed specifications for the Eibach Pro-Kit Performance Springs, model E10-20-022-01-22.

<b>Model Number</b>	E10-20-022-01-22
<b>Brand</b>	Eibach
<b>Manufacturer</b>	Heinrich Eibach GmbH
<b>Item Weight</b>	23.2 pounds
<b>Product Dimensions</b>	25.2 x 7.09 x 14.96 inches
<b>Exterior Finish</b>	Painted
<b>Position</b>	Rear
<b>First Available Date</b>	March 19, 2014

## 8. WARRANTY AND SUPPORT

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For warranty information and technical support regarding your Eibach Pro-Kit Performance Springs, please refer to the official Eibach website or contact Eibach customer service directly.

**Eibach Contact Information:**

- **Website:** [www.eibach.com](http://www.eibach.com)
- Refer to product packaging or official Eibach documentation for specific contact details and warranty terms applicable to your region.