Mevotech MK90143

Mevotech MK90143 Alignment Camber Kit Instruction Manual

Model: MK90143

Introduction Safety Information Package Contents Installation Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

This manual provides essential instructions for the proper installation, operation, and maintenance of your Mevotech MK90143 Alignment Camber Kit. Please read this manual thoroughly before beginning any work to ensure safe and correct usage. This kit is designed to allow for precise camber adjustments in compatible vehicles, contributing to improved tire wear and handling.



Image 1.1: The Mevotech MK90143 Alignment Camber Kit, showing two adjustable cam bolts and associated hardware.

2. Safety Information

Always prioritize safety when working on a vehicle. Failure to follow safety precautions can result in serious injury or damage to the vehicle.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands on a level surface before beginning any work. Never rely solely on a jack.
- Disconnect the vehicle's battery if instructed by the vehicle service manual.
- Refer to your vehicle's specific service manual for detailed instructions and torque specifications.
- Keep children and pets away from the work area.
- Do not modify the camber kit components. Use only as intended.
- If you are unsure about any step, consult a qualified automotive technician.

3. Package Contents

Verify that all components are present and undamaged before proceeding with installation.

- Mevotech MK90143 Alignment Camber Kit (typically includes two cam bolts with washers and nuts)

Note: The exact number and type of components may vary slightly. Refer to the product packaging for a precise list.

4. Installation Instructions

This section outlines the general steps for installing the Mevotech MK90143 Alignment Camber Kit. Specific procedures may vary depending on your vehicle's make and model. Always consult your vehicle's service manual for precise instructions and torque specifications.

4.1. Preparation

1. Park the vehicle on a level, firm surface.
2. Engage the parking brake.
3. Loosen the lug nuts on the wheels where the camber kit will be installed.
4. Raise the vehicle using a floor jack and support it securely with jack stands.
5. Remove the wheels.

4.2. Component Removal

1. Locate the existing bolts that connect the strut to the steering knuckle. These are typically the bolts that control camber.
2. Carefully remove the existing bolts and nuts. You may need to use penetrating oil if they are seized.
3. Retain any washers or spacers that are part of the original assembly, unless the camber kit explicitly replaces them.

4.3. Camber Kit Installation

1. Insert the Mevotech MK90143 cam bolts into the strut-to-knuckle mounting holes. Ensure the cam washer is correctly oriented to allow for adjustment.
2. Install the nuts onto the cam bolts. Do not fully tighten them at this stage.
3. The cam bolts are designed to rotate, allowing the strut to pivot relative to the knuckle, thereby changing the wheel's camber angle.

4.4. Post-Installation

1. Reinstall the wheels and hand-tighten the lug nuts.
2. Lower the vehicle to the ground.
3. Torque the lug nuts to the manufacturer's specifications.
4. **Immediately proceed to an alignment shop for a professional wheel alignment.**The camber kit must be adjusted to the correct specifications to prevent premature tire wear and ensure safe vehicle handling.

5. Operation (Alignment Adjustment)

The Mevotech MK90143 Alignment Camber Kit allows for adjustment of the vehicle's camber angle. This adjustment should only be performed by a qualified technician using proper alignment equipment.

- During a wheel alignment, the technician will loosen the nuts on the cam bolts.
- By rotating the cam bolts, the position of the strut relative to the steering knuckle changes, adjusting the camber angle.
- Once the desired camber angle is achieved, the nuts on the cam bolts must be tightened to the vehicle manufacturer's specified torque.
- Failure to properly torque these bolts can lead to loss of alignment, component failure, and unsafe driving conditions.

6. Maintenance

The Mevotech MK90143 Alignment Camber Kit is designed for durability and requires minimal maintenance after proper installation and alignment.

- **Regular Inspections:** During routine vehicle maintenance (e.g., tire rotations, oil changes), visually inspect the camber kit components for any signs of wear, damage, or looseness.
- **Re-alignment:** If you notice uneven tire wear, changes in vehicle handling, or after replacing other suspension components, have your vehicle's alignment checked and adjusted by a professional.
- **Cleaning:** Keep the components free from excessive dirt and debris.

7. Troubleshooting

This section addresses common issues that may arise after installing an alignment camber kit.

Symptom	Possible Cause	Solution
Uneven tire wear (e.g., inner or outer edge wear)	Incorrect camber setting; alignment not performed or incorrect.	Have a professional wheel alignment performed immediately to correct camber and other alignment angles.
Vehicle pulls to one side	Incorrect alignment (camber, caster, or toe); loose components.	Check for loose components. Have a professional wheel alignment performed.
Clunking or rattling noise from suspension	Loose camber kit bolts or other suspension components.	Inspect all installed components for proper torque. Re-tighten to specifications. If noise persists, consult a technician.
Difficulty achieving desired alignment settings	Incorrect kit application for vehicle; damaged suspension components; improper installation.	Verify the kit is compatible with your vehicle. Inspect other suspension components for damage. Consult a professional alignment technician.

8. Specifications

- **Model:** Mevotech MK90143
- **Product Type:** Alignment Camber Kit
- **Package Dimensions:** 5.9 cms (L) x 8.5 cms (W) x 15.7 cms (H)
- **Package Weight:** 0.89 kilograms
- **Item Weight:** 1.2 pounds
- **Product Dimensions:** 6 x 4 x 3 inches
- **Fit Type:** Vehicle Specific
- **Manufacturer Part Number:** MK90143
- **OEM Part Number:** MK90143

9. Warranty & Support

For warranty information or technical support regarding your Mevotech MK90143 Alignment Camber Kit, please refer to the official Mevotech website or contact their customer service department. Keep your purchase receipt as proof of purchase.

If you purchased this product through a retailer, please consult their return and warranty policies. For purchases made on Amazon, the return policy typically allows for returns within 30 days of receipt for a refund or replacement, subject to

Amazon's terms and conditions.

Mevotech Contact Information:

- **Website:** www.mevotech.com (*Note: This is a general placeholder link, please verify the official website*)
- **Customer Service:** Refer to the website for contact details.

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