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› **WAKE MTB Stem 45 Degree 31.8 90mm Bike Stem Instruction Manual**

**WAKE 31.8 \* 90mm**

# WAKE MTB Stem 45 Degree 31.8 90mm Bike Stem Instruction Manual

*Model: 31.8 \* 90mm*

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your WAKE MTB Stem. Designed for various bicycles including road bikes, fixed gear bicycles, and mountain bikes, this stem offers a 45-degree rise and 90mm length to enhance riding posture and comfort. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Image 1: Front view of the WAKE MTB Stem, showcasing its design and the WAKE logo.

## 2. PRODUCT FEATURES

- **Handlebar Center Diameter:** 31.8mm (1-1/4")
- **Steerer Tube Diameter:** 28.6mm (1-1/8")
- **Length:** 90mm
- **Rise Angle:** 45 degrees
- **Weight:** Approximately 230g
- **Material:** Aluminum alloy AL6061 T6
- **Design:** Hollow design for reduced weight.
- **Clamping:** Four-bolt bar clamp for secure handlebar positioning.
- **Compatibility:** Suitable for most road bikes, fixed gear bicycles, and mountain bikes.



Image 2: The WAKE MTB Stem with key dimensions highlighted, including handlebar diameter (31.8mm), steerer tube diameter (28.6mm), and the 45-degree rise.

### 3. SETUP AND INSTALLATION

Proper installation is crucial for safety and performance. If you are unsure about any step, consult a professional bicycle mechanic.

#### 3.1 Tools Required

- Hex keys (Allen wrenches) of appropriate sizes for stem bolts.
- Torque wrench (recommended for precise tightening).

#### 3.2 Installation Steps

1. **Remove Existing Stem:** Loosen and remove the bolts securing your current stem to the steerer tube and handlebar. Carefully remove the handlebar and the old stem.
2. **Prepare Steerer Tube:** Ensure the steerer tube is clean and free of debris. The WAKE stem is designed for a 28.6mm (1-1/8") steerer tube.
3. **Install New Stem:** Slide the WAKE MTB Stem onto the steerer tube. Ensure it is oriented correctly (logo facing forward).
4. **Install Handlebar:** Position your handlebar into the stem's clamp. The stem is designed for 31.8mm (1-1/4") handlebars. Ensure the handlebar is centered and at your desired angle.
5. **Tighten Bolts:** Securely tighten the four bolts on the handlebar clamp in a cross pattern, gradually increasing torque. Then, tighten the two bolts on the steerer tube clamp. Refer to your bicycle's manufacturer specifications or a general bicycle torque guide for appropriate torque settings (typically

around 5-8 Nm for handlebar bolts and 8-12 Nm for steerer tube bolts, but check the stem for specific markings like "MAX 15N.m").

6. **Align Handlebar and Wheel:** Ensure the handlebar is perfectly aligned with the front wheel before fully tightening the top cap bolt (if applicable) and stem bolts.



Image 3: The WAKE MTB Stem installed on a bicycle, demonstrating its position relative to the steerer tube and handlebar.

### 3.3 Installation Video

Your browser does not support the video tag.

Video 1: A demonstration of installing the WAKE Mountain Bike Handlebar Riser. This video shows the process of replacing an old stem with the new WAKE stem, highlighting key steps for a secure fit.

## 4. OPERATING THE PRODUCT

The WAKE MTB Stem is a fixed component designed to connect your handlebar to your bicycle's steerer tube, providing a specific rise and reach. Once installed, its primary function is to maintain the handlebar's position securely during riding.

### 4.1 Riding Posture Improvement

The 45-degree rise and 90mm length of this stem are intended to provide a more upright riding posture compared to stems with lower angles or longer lengths. This can reduce strain on the back and wrists, making for a more comfortable riding experience, especially for casual rides or those seeking a less aggressive riding position.



Image 4: A visual representation of how a riser stem, like the WAKE MTB Stem, can adjust riding posture for increased comfort and an upright position.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your WAKE MTB Stem.

- **Regular Inspection:** Periodically check all bolts for tightness. Vibrations from riding can cause bolts to loosen over time.
- **Cleaning:** Clean the stem with a damp cloth and mild soap. Avoid harsh chemicals that could damage the finish.
- **Lubrication:** While the stem itself does not require lubrication, ensure that the steerer tube and handlebar contact points are clean and properly greased during installation to prevent creaking and corrosion.
- **Damage Check:** Inspect the stem for any signs of cracks, bends, or other damage, especially after a fall or impact. Replace immediately if damage is found.

## 6. TROUBLESHOOTING

### 6.1 Handlebar Slipping or Rotating

- **Cause:** Handlebar clamp bolts are not sufficiently tightened.
- **Solution:** Loosen the handlebar clamp bolts slightly, reposition the handlebar, and then re-tighten the bolts in a cross pattern to the recommended torque specifications.

### 6.2 Stem Rotating on Steerer Tube

- **Cause:** Steerer tube clamp bolts are not sufficiently tightened, or the top cap bolt is loose.
- **Solution:** First, ensure the top cap bolt is tightened enough to remove play from the headset (but not overtightened). Then, align the stem with the front wheel and tighten the steerer tube clamp bolts to the recommended torque.

### 6.3 Creaking Noises from Stem Area

- **Cause:** Insufficient grease on contact surfaces, loose bolts, or worn components.
- **Solution:** Disassemble the stem and handlebar, clean all contact surfaces, apply a thin layer of bicycle-specific grease to the steerer tube and handlebar clamping areas, and reassemble, ensuring all bolts are tightened to specification. If creaking persists, inspect for damage or wear in the headset or stem components.

## 7. SPECIFICATIONS

Feature	Specification
Handlebar Clamp Diameter	31.8mm (1-1/4")
Steerer Tube Clamp Diameter	28.6mm (1-1/8")
Length (Extension)	90mm
Rise Angle	45 Degrees
Material	Aluminum Alloy AL6061 T6
Weight	Approx. 230g
Color	Black

## 8. WARRANTY AND SUPPORT

For specific warranty information and customer support regarding your WAKE MTB Stem, please refer to the product packaging or contact the manufacturer directly. Keep your proof of purchase for any warranty claims.

For general bicycle maintenance and repair advice, consider consulting a local bicycle shop or certified mechanic.

	<p><a href="#">Giant Contact SLR Trail Integrated Handlebar Manual - Installation and Parts Guide</a></p> <p>Official manual for the Giant Contact SLR Trail Integrated Handlebar, providing detailed installation instructions, parts list, specifications, and safety information for mountain bikes.</p>
	<p><a href="#">Profile Design Canta Race Aero Dropbar - Installation Guide and Specifications</a></p> <p>Comprehensive guide for installing the Profile Design Canta Race Aero Dropbar. Includes specifications, component list, cable routing, and warranty information.</p>
	<p><a href="#">Giant Contact SLR Trail Integrated Handlebar Manual</a></p> <p>Official manual for the Giant Contact SLR Trail Integrated Handlebar, detailing parts, specifications, and installation instructions for MTB bikes. Features integrated cockpit design, 1 1/8" steerer compatibility, and external cable routing.</p>
	<p><a href="#">Cane Creek eeWings Crankset Installation and Maintenance Guide</a></p> <p>Comprehensive guide for installing, maintaining, and understanding the warranty for Cane Creek eeWings Titanium Cranksets. Includes safety warnings, technical specifications, and installation procedures.</p>
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