

## NEWMEN Forge 30

# NEWMEN Forge 30 Light Aluminum 29" Rear Cross Country Wheel Instruction Manual

Model: Forge 30 (Part Number: 89596)

## 1. INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of your NEWMEN Forge 30 Light Aluminum 29" Rear Cross Country Wheel. Please read this manual thoroughly before using the product to ensure safety and optimal performance. Retain this manual for future reference.



Image 1: The NEWMEN Forge 30 Light Aluminum 29" Rear Cross Country Wheel, showcasing its black rim, spokes, and hub.

## 2. PRODUCT OVERVIEW AND FEATURES

The NEWMEN Forge 30 is a high-performance rear wheel designed for cross-country cycling. It combines lightweight construction with durability, making it suitable for various riding conditions from competitive racing to demanding trail use.

## Key Features:

- High-quality 6069 aluminum rim for excellent dent resistance.
- Sapim 2.0-1.8-2.0 spokes for a balanced strength-to-weight ratio.
- Optimized rim profile and flared design for enhanced strength and durability.
- Suitable for XC racers and downcountry riders.
- XD freehub body for compatibility with modern drivetrains.



## TECHNOLOGY MTB WHEELS

- + Rounded, optimized rim profile
- + Flared design for added strength and durability
- + High-strength, heat-treated aluminum alloy
- + Thinner sidewalls and flared flanges for weight reduction
- + Optimized cross-section and wall thickness for each rim width
- + Improved resistance to dents and deformation
- + Strong, ding-resistant flared flanges inspired by the motocross and enduro industry

Image 2: Close-up of a bicycle wheel undergoing a stress test, illustrating the advanced technology used in NEWMEN MTB wheels, including rounded rim profiles and flared designs for durability.



# TESTLAB

- + Quality-tested parts for safety
- + Lightweight and durable design
- + Exceeds legal standards
- + Custom test rigs for rigorous testing
- + Rider tested and approved
- + Comprehensive component evaluation

Image 3: A NEWMEN wheel mounted on a test rig in a laboratory setting, demonstrating the rigorous testing procedures for safety, durability, and performance.

## 3. SPECIFICATIONS

Detailed technical specifications for the NEWMEN Forge 30 Rear Wheel:

Specification	Value
Brand	NEWMEN
Model Name	Forge 30
Part Number	89596
Wheel Size	29 Inches
Rim Width (Internal)	30 Millimeters
Axle Compatibility	12x148mm (Boost)
Freehub Body	XD

Specification	Value
Spokes	Sapim 2.0-1.8-2.0
Brake Compatibility	6-Bolt Disc

## 4. SETUP AND INSTALLATION

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

### 4.1 Unpacking and Inspection

- Carefully remove the wheel from its packaging.
- Inspect the rim, spokes, and hub for any signs of damage that may have occurred during shipping.
- Ensure all components, such as end caps and freehub body, are correctly installed and secure.

### 4.2 Tire Installation

- This rim is designed for 29-inch tires.
- For optimal performance and comfort, consider tire widths appropriate for a 30mm internal rim width.
- Install your chosen tire according to the tire manufacturer's instructions. Ensure the tire beads are fully seated in the rim hooks.
- If using tubeless setup, apply tubeless rim tape, install a tubeless valve, and add sealant as per manufacturer guidelines.

### 4.3 Cassette Installation

- The wheel is equipped with an XD freehub body. Install an XD-compatible cassette.
- Ensure the cassette is clean and properly aligned with the freehub splines.
- Tighten the cassette lockring to the torque specification provided by the cassette manufacturer, typically using a cassette tool and torque wrench.

### 4.4 Disc Rotor Installation

- This wheel uses a 6-bolt disc brake rotor mounting standard.
- Attach your disc rotor to the hub using the six bolts provided with your rotor.
- Tighten the bolts in a star pattern to the torque specification provided by the rotor manufacturer (typically 4-6 Nm). Use a T25 Torx wrench.

### 4.5 Wheel Installation into Frame

- Ensure your bicycle frame is compatible with a 12x148mm Boost thru-axle rear wheel.
- Carefully insert the wheel into the rear dropouts, aligning the disc rotor with the brake caliper.
- Insert the thru-axle and tighten it to the frame manufacturer's specified torque. Do not overtighten.
- Check that the wheel spins freely and is centered in the frame.

## 5. OPERATING GUIDELINES



Once installed, your NEWMEN Forge 30 wheel is ready for use. Adhere to the following guidelines for safe and effective operation:

## 5.1 Tire Pressure

- Always check tire pressure before each ride.
- Recommended tire pressure varies based on rider weight, terrain, tire volume, and riding style. Refer to your tire manufacturer's recommendations.
- For wider tires on 30mm rims, lower pressures are often optimal for comfort and traction. Avoid excessively low pressures that could lead to rim damage or tire burping.

## 5.2 Riding Conditions

- The Forge 30 wheel is designed for cross-country and light trail riding.
- While durable, avoid extreme impacts or riding beyond the wheel's intended use to prevent damage.

## 6. MAINTENANCE

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Regular maintenance will extend the life of your NEWMEN Forge 30 wheel and ensure consistent performance.

### 6.1 Cleaning

- Clean your wheels regularly with mild soap and water. Avoid high-pressure washers directly on hubs or bearings.
- Rinse thoroughly and dry with a soft cloth.

### 6.2 Spoke Tension

- Periodically check spoke tension. Loose spokes can lead to wheel instability and damage.
- If spokes feel loose or the wheel is out of true, have it inspected and trued by a qualified mechanic.

### 6.3 Hub and Bearings

- The hub bearings are sealed units. Avoid direct water spray into the hub area.
- If you notice any play in the hub or rough bearing rotation, consult a mechanic for inspection and potential bearing replacement.

### 6.4 Rim Inspection

- Regularly inspect the rim for dents, cracks, or other damage, especially after hard impacts.
- Any significant damage to the rim should be addressed immediately by a professional.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with your wheel.

### 7.1 Wheel Wobble or Out of True

- **Cause:** Loose spokes, bent rim, or impact damage.

- **Solution:** Check spoke tension. If the wheel is significantly out of true, it requires professional truing. A bent rim may need replacement.

## 7.2 Squeaking or Grinding Noise from Hub

- **Cause:** Contaminated or worn bearings, loose hub components.
- **Solution:** Inspect the hub for play. Bearings may need cleaning, re-greasing, or replacement. Consult a mechanic.

## 7.3 Tire Not Seating Properly

- **Cause:** Incorrect tire size, damaged tire bead, improper rim tape, insufficient air pressure during seating.
- **Solution:** Ensure tire and rim sizes match. Inspect tire beads for damage. Re-tape rim if necessary. Use a compressor or CO2 inflator to provide a quick burst of air for seating.

## 7.4 Brake Rubbing

- **Cause:** Wheel not seated correctly in dropouts, bent disc rotor, misaligned brake caliper, or wheel out of true.
- **Solution:** Re-seat the wheel firmly in the dropouts. Check if the rotor is bent (it can often be straightened slightly). Realign the brake caliper. If the wheel is out of true, see 7.1.

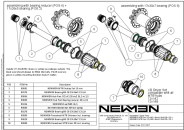
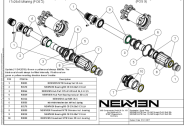
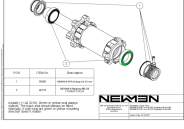
## 8. WARRANTY AND SUPPORT

NEWMEN products are manufactured to high standards and are covered by a manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and product. Please retain your proof of purchase.

For warranty claims, technical support, or service inquiries, please contact your authorized NEWMEN dealer or visit the official NEWMEN website for contact information.

Always ensure that any repairs or maintenance are performed by qualified personnel using genuine NEWMEN replacement parts to maintain product integrity and warranty validity.

### Related Documents - Forge 30

	<p><a href="#">NEWMEN GEN1 MTB Rear Hub Spare Parts Diagram and Assembly Guide</a></p> <p>Detailed exploded view and parts list for NEWMEN GEN1 MTB rear hubs, including J-Bend, 6 Bolt, 12x142, and 12x148 models. Features assembly instructions, component identification, and spare parts information.</p>
	<p><a href="#">NEWMEN MTB Rear Hub Exploded View &amp; Parts List (12x142/12x148)</a></p> <p>Detailed exploded view and comprehensive parts list for NEWMEN MTB Rear hubs, including 12x142 and 12x148 Straight Pull 6 Bolt models. Find component numbers, descriptions, and assembly notes.</p>
	<p><a href="#">NEWMEN MTB Front Hubs 15x100 &amp; 15x110 Spare Parts</a></p> <p>Detailed spare parts list and installation notes for NEWMEN MTB front hubs, including models 15x100 and 15x110 Straightpull 6 Bolt 28h. Features exploded view diagram description and component identification.</p>





