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› ZTTO 700c Road Bike Wheelset R1S (30mm Depth, HGR Centerlock Hub) Instruction Manual

ZTTO R1S 30mm-HGR

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INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your ZTTO 700c Road Bike Wheelset R1S. Please read these instructions thoroughly before use to ensure optimal performance and longevity of your wheelset. This wheelset is designed for road bikes and features a 30mm rim depth with an HGR Centerlock bike hub.



Figure 1: ZTTO 700c Road Bike Wheelset R1S

PRODUCT FEATURES

- **Tubeless-Ready & Budget-Friendly Performance:** Designed for tubeless technology, allowing for lower tire pressure for a fast, smooth roll. Features premium sealed bearings for smooth and efficient hub operation, compatible with center lock disc brakes.
- **Optimized Aerodynamics & Stability:** Internal rim width of 18.9mm and 30mm depth provide aerodynamic benefits, balance, and stability across various terrains and wind conditions.
- **Premium Specifications:** Crafted from aluminum alloy for 700c wheels, compatible with clincher tires, inner tubes, and tubeless setups. External rim width of 22mm and internal width of 19/18mm. R1s hubs feature 6 pawls with 72 clicks per revolution.
- **Wide Compatibility:** Compatible with 8-13 speed cassettes, offering versatile performance for various bike configurations.

COMPONENTS INCLUDED

- Front Wheel (with Hub)

- Rear Wheel (with Hub)

SETUP & INSTALLATION

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

1. Inspect Components

Before installation, carefully inspect both wheels for any signs of damage during shipping. Check spokes for tension and ensure the rims are true.

2. Tire and Tube/Tubeless Setup

Install your preferred 700c clincher tires with inner tubes, or set up the wheels for tubeless use according to your tire manufacturer's instructions. Ensure the rim tape is properly seated if using tubes, or that tubeless tape and sealant are correctly applied for tubeless setups.



Figure 2: Valve stem and rim detail

3. Cassette Installation

Install your 8-13 speed cassette onto the rear hub's freehub body. Ensure it is properly aligned and tightened to the manufacturer's specifications using a cassette locking tool. A 1.85mm spacer may be

required for 10-speed cassettes.

4. Disc Brake Rotor Installation

Attach your centerlock disc brake rotors to the hubs. Ensure the lockring is tightened securely according to the rotor manufacturer's torque specifications.



Figure 3: ZTTO R1S Centerlock Hub

5. Wheel Installation on Bicycle

Install the front and rear wheels onto your bicycle's fork and frame. Ensure the quick-release skewers or thru-axles are correctly installed and tightened to secure the wheels firmly. Verify that the brake calipers are aligned with the rotors and do not rub.



Figure 4: Wheelset installed on a road bike

OPERATING

Once installed, the ZTTO 700c Road Bike Wheelset R1S is ready for use. Always perform a pre-ride safety check, ensuring wheels are securely fastened, tires are at the correct pressure, and brakes are functioning properly. The 6-pawl hub design provides quick engagement for efficient power transfer.

Video 1: Sound Comparison of Different Hubs (demonstrates hub engagement sound, relevant to the 6-pawl feature)

MAINTENANCE

Regular maintenance extends the life of your wheelset and ensures safe riding.

- **Cleaning:** Clean rims and hubs regularly with mild soap and water. Avoid high-pressure washing directly on bearings.
- **Spoke Tension:** Periodically check spoke tension. Uneven tension can lead to wheel damage or reduced performance.
- **Bearing Check:** Listen for any grinding or excessive play in the hubs. Sealed bearings generally require minimal maintenance but should be inspected by a professional if issues arise.

- **Tire Pressure:** Maintain recommended tire pressure for optimal performance and to prevent pinch flats (for tube setups) or rim damage.

TROUBLESHOOTING

- **Wheel Wobble:** If the wheel wobbles, it may be out of true or have loose spokes. Consult a bike mechanic for truing.
- **Brake Rubbing:** Check brake caliper alignment and ensure the wheel is seated correctly in the dropouts.
- **Hub Noise:** Unusual noises from the hub may indicate worn bearings or issues with the freehub mechanism. Professional inspection is recommended.
- **Tire Leaks (Tubeless):** Check for punctures, insufficient sealant, or improper tubeless tape installation.

SPECIFICATIONS

Feature	Detail
Brand	ZTTO
Model	R1S 30mm-HGR
Material	Aluminum
Wheel Size	700c (622 Millimeters)
Rim Depth	30mm
External Rim Width	22mm
Internal Rim Width	18.9mm (Front), 18mm (Rear)
Brake Style	Centerlock Disc Brake
Hub Type	HGR Centerlock Hub with 6 Pawls, 72 Clicks
Cassette Compatibility	8-13 Speed
Tire Compatibility	Clincher, Inner Tube, Tubeless

WARRANTY AND SUPPORT

The ZTTO 700c Road Bike Wheelset R1S comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects. For warranty claims, technical support, or any inquiries, please contact ZTTO customer service. Keep your proof of purchase for warranty validation.