



Manuals.plus /

- › WTB /
- › WTB Ranger 27.5" x 2.8" Mountain Bike Tire Instruction Manual

WTB Ranger 2.8 x 27.5" TCS Light/Fast Rolling 60tpi Dual DNA SG2 tire

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Model: Ranger 2.8 x 27.5" TCS Light/Fast Rolling 60tpi Dual DNA SG2 tire

1. INTRODUCTION

The WTB Ranger mountain bike tire is engineered for versatility and performance across various terrains, from challenging trails to extended bikepacking adventures. It offers an optimal balance of rolling efficiency, traction, and durability. The high-volume casing is designed to enhance traction and provide a smoother, more comfortable ride by conforming to the trail, ensuring increased stability and control over rough surfaces. Its well-spaced knobs are effective at shedding mud, maintaining consistent grip in wet and muddy conditions. The TCS Light casing minimizes rotational weight for improved acceleration and climbing, complemented by SG2 puncture protection for added security without compromising performance.



Image 1.1: The WTB Ranger tire, highlighting its robust tread design for varied terrain.

2. KEY FEATURES

- **Versatile Lightweight Performance:** Suitable for Cross Country, Trail, and Bikepacking.
- **Adventure-Ready Design:** Engineered for extended adventures, balancing rolling efficiency, traction, and durability.
- **High-Volume Casing:** Provides superior comfort and control by enhancing traction and conforming to the trail.
- **Mud-Shedding Performance:** Well-spaced knobs efficiently shed mud for consistent grip in wet conditions.
- **Lightweight and Durable Construction:** TCS Light casing reduces rotational weight, while SG2 puncture protection adds security.
- **SG2 Puncture Protection:** Offers reliable defense against punctures and slashes for worry-free riding.



- **Versatile lightweight performance**
- **Adventure-ready design**
- **High-volume casing**

Image 2.1: Visual representation of the WTB Ranger's core features.

3. SETUP

3.1. Tubeless Installation

The WTB Ranger tire is Tubeless Compatible System (TCS) ready, allowing for a tubeless setup. This requires

tubeless-ready rims, tubeless rim tape, tubeless valves, and liquid sealant.

1. **Prepare the Rim:** Ensure your rim is clean and free of debris. Apply tubeless rim tape securely, overlapping by about 10-15 cm at the valve hole.
2. **Install Valve Stem:** Insert the tubeless valve stem through the rim tape and tighten the lock nut by hand.
3. **Mount One Tire Bead:** Carefully mount one side of the tire onto the rim, ensuring the bead sits correctly in the rim channel.
4. **Add Sealant:** Pour the recommended amount of tubeless sealant directly into the tire. Consult the sealant manufacturer's instructions for precise volume.
5. **Mount Second Tire Bead:** Mount the remaining tire bead onto the rim. This may require tire levers, but exercise caution to avoid pinching the bead or damaging the rim tape.
6. **Inflate the Tire:** Use a high-volume pump or an air compressor to rapidly inflate the tire. Listen for the beads to audibly 'pop' into place. Continue inflating until the tire is fully seated and holds air.
7. **Distribute Sealant:** Once seated, rotate and shake the wheel to distribute the sealant evenly inside the tire, sealing any small punctures or porous areas.
8. **Check for Leaks:** Leave the tire inflated for several hours or overnight and check for any pressure loss. Re-inflate and re-shake if necessary.

For detailed visual guidance on installing your WTB Ranger tire, please refer to the official product video below:

Video 3.1: Official WTB video demonstrating the installation of the Ranger 2.8 Bike Tire.

4. OPERATING

4.1. Tire Pressure Recommendations

Optimal tire pressure is crucial for performance, comfort, and puncture resistance. The ideal pressure varies based on rider weight, riding style, terrain, and tire width. As a general guideline for the WTB Ranger 27.5" x 2.8" tire:

- **Trail Riding:** 18-25 PSI (1.2-1.7 BAR) for a balance of grip and rolling efficiency.
- **Bikepacking/Loaded:** 20-30 PSI (1.4-2.1 BAR) to support additional weight and prevent pinch flats.
- **Wet/Loose Conditions:** Lower pressures (15-20 PSI / 1.0-1.4 BAR) can increase the contact patch for enhanced grip.
- **Hardpack/Dry Conditions:** Higher pressures (22-28 PSI / 1.5-1.9 BAR) can reduce rolling resistance.

Always start with the manufacturer's recommended pressure range printed on the tire sidewall and adjust incrementally to find your preferred feel. Tubeless setups generally allow for lower pressures compared to tubes.



Image 4.1: The WTB Ranger tire in action on a mountain trail.

5. MAINTENANCE

5.1. Regular Inspection

Periodically inspect your WTB Ranger tires for signs of wear, cuts, or embedded debris. Pay close attention to the tread and sidewalls. Remove any sharp objects that may be lodged in the tire to prevent further damage.

5.2. Cleaning

After riding in muddy or dirty conditions, clean your tires with water and a soft brush. This helps prevent mud and grit from hardening and potentially damaging the tire or affecting its performance. Avoid harsh chemicals that can degrade the rubber.

5.3. Tubeless Sealant Check

If running tubeless, regularly check the sealant level (every 2-3 months or as recommended by the sealant manufacturer). Sealant can dry out over time, reducing its effectiveness against punctures. Replenish as needed.



Image 5.1: A WTB Ranger tire after a ride, demonstrating its mud-shedding capabilities.

6. TROUBLESHOOTING

6.1. Loss of Air Pressure

- **Check for Punctures:** Inspect the tire for small holes or cuts. If tubeless, sealant should typically handle small punctures. For larger cuts, a tire plug or patch may be needed.
- **Inspect Valve Stem:** Ensure the valve core is tight and not leaking. Apply a small amount of soapy water to check for bubbles.
- **Rim Tape Integrity:** If running tubeless, check the rim tape for tears or improper sealing. Re-tape if necessary.
- **Bead Seating:** Ensure both tire beads are fully seated on the rim. Re-inflate if a bead has come unseated.

6.2. Tire Not Seating Properly (Tubeless)

- **Lubricate Beads:** Apply soapy water to the tire beads and rim edges to help the tire slide into place.
- **High Volume Air:** Use an air compressor or a tubeless-specific pump that can deliver a high volume of air quickly to force the beads into the rim channel.

- **Remove Valve Core:** Temporarily remove the valve core to allow for maximum airflow during initial inflation. Reinstall once beads are seated.

7. SPECIFICATIONS

| Attribute | Value |
|---------------|---|
| Brand | WTB |
| Model Name | Ranger 2.8 x 27.5" TCS Light/Fast Rolling 60tpi Dual DNA SG2 tire |
| Model Number | W010-0966 |
| Item Diameter | 27.5 Inches |
| Item Width | 2.8 Inches |
| Tire Type | Tubeless |
| Material | Rubber |
| Color | Black |
| Item Weight | 10.08 ounces |
| UPC | 714401109667 |

8. WARRANTY

The WTB Ranger Mountain Bike Tire comes with a **2-year manufacturer's limited warranty**. This warranty covers defects in materials and workmanship under normal use. For specific terms, conditions, and claim procedures, please refer to the official WTB website or contact WTB customer support.

9. SUPPORT

For additional information, product registration, or customer support, please visit the official WTB Store:

Visit the WTB Store on Amazon