

[Manuals.plus](#) /

› [DT Swiss](#) /

› DT Swiss EX511 Tubeless Ready Rim Disc Instruction Manual

DT Swiss RDEX51CDPW32SA6298

DT Swiss EX511 Tubeless Ready Rim Disc

INSTRUCTION MANUAL

Model: RDEX51CDPW32SA6298 | Brand: DT Swiss

1. PRODUCT OVERVIEW

The DT Swiss EX511 Tubeless Ready Rim is engineered for demanding mountain biking disciplines such as All Mountain, Enduro, and Freeride/Downhill. This rim is designed to withstand aggressive riding conditions, offering a robust and reliable foundation for your bicycle wheels. It features a 30 mm wide profile, optimized for performance and durability in challenging terrains.



An image of the DT Swiss EX511 Tubeless Ready Rim, showcasing its black finish and the prominent 'DT Swiss EX511' branding in red and white. The rim is designed for disc brakes and is shown in a curved perspective, highlighting its profile.

2. SAFETY INFORMATION

Important: Always read this manual completely before attempting any installation, maintenance, or use of the DT Swiss EX511 rim. Failure to follow instructions can lead to serious injury or product damage.

- Ensure all components are compatible with the EX511 rim before assembly.
- Professional installation by a qualified bicycle mechanic is highly recommended.

- Always use the supplied PHR washers and Pro Head nipples during wheel building. The PHR washer must be correctly positioned between the nipple and the rim, fitting within the rim's radius.
- Regularly inspect the rim for any signs of damage, cracks, or wear. Discontinue use immediately if damage is found.
- Adhere to recommended tire pressures and weight limits for your complete wheel system.

3. SETUP AND INSTALLATION

The DT Swiss EX511 rim is designed for 32-hole hubs and has an internal rim width of 30mm. Proper wheel building is crucial for performance and safety.

3.1 Components Included

- DT Swiss EX511 Rim (29-inch, 32-hole)
- 2.0 silver alloy Prolock Squorx Pro Head nipples
- PHR washers

3.2 Wheel Building Instructions

1. Gather all necessary tools for wheel building, including a spoke tension meter and truing stand.
2. Before lacing, ensure the PHR washer is placed onto each spoke nipple.
3. Insert the spoke nipple with the PHR washer into the rim hole. The PHR washer must sit flush and correctly within the radius of the rim.
4. Lace the spokes according to your chosen lacing pattern, ensuring correct spoke length for the EX511 rim's ERD (Effective Rim Diameter). The ERD shown includes the PHR washers.
5. Gradually tension the spokes, ensuring even tension across all spokes. Refer to DT Swiss's recommended tension values for the EX511 rim.
6. True the wheel to ensure it runs concentrically and laterally true.
7. Once built, stress relieve the wheel by applying pressure to the spokes in various directions, then re-check tension and trueness.

For detailed wheel building guides, refer to official DT Swiss resources or consult a professional wheel builder.

4. OPERATING AND INTENDED USE

The DT Swiss EX511 rim is specifically designed and tested for demanding off-road cycling. Its intended use covers:

- **All Mountain:** Versatile trail riding with varied terrain.
- **Enduro:** Aggressive downhill sections with timed stages, requiring robust components.
- **Freeride/Downhill:** Extreme terrain, jumps, and high-speed descents.

This rim is tubeless-ready, allowing for lower tire pressures, improved traction, and reduced risk of pinch flats when used with appropriate tubeless tires and sealant.

5. MAINTENANCE

Regular maintenance extends the life of your DT Swiss EX511 rim and ensures safe operation.

- **Cleaning:** Clean the rim regularly with mild soap and water. Avoid harsh chemicals or abrasive cleaners.
- **Spoke Tension:** Periodically check spoke tension and re-true the wheel as needed. Uneven spoke tension can lead to rim damage.
- **Inspection:** Before each ride, inspect the rim for any dents, cracks, or signs of fatigue. Pay close attention to the spoke holes and tire bead seat.
- **Tubeless System:** If running tubeless, regularly check and replenish sealant as per sealant manufacturer's recommendations. Inspect the tubeless tape for damage.
- **Storage:** Store your bicycle in a dry environment, away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

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

- **Wheel Wobble/Untrue:** This often indicates uneven spoke tension or a bent rim. Check spoke tension with a tension meter and true the wheel. If the rim is severely bent, it may need replacement.
- **Loss of Tubeless Seal:** Check for punctures in the tire, insufficient sealant, or damaged tubeless tape. Clean the rim and re-tape if necessary. Ensure the valve stem is properly seated.
- **Spoke Breakage:** Frequent spoke breakage can be a sign of uneven spoke tension, incorrect spoke length, or a damaged rim. Have the wheel inspected by a professional.

For issues not covered here, please contact DT Swiss customer support or a certified bicycle mechanic.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	DT Swiss
Model Name	RDEX51CDPW32SA6298
Part Number	RDEX51CDPW32SA6298
ASIN	B0788R9ZMZ
Wheel Size	29 Inches
Item Diameter	29 Inches
Hub Drilling	32 Hole
Rim Width (Internal)	30mm
Color	Black
Included Components	Rims, 2.0 silver alloy Prolock Squorx Pro Head nipples, PHR washers
Vehicle Service Type	Bicycle
Item Package Dimensions	25.5 x 25.3 x 2.4 inches

Feature	Specification
Package Weight	1.13 Kilograms
Global Trade Identification Number (GTIN)	07613052073651
Date First Available	December 14, 2017

8. WARRANTY AND SUPPORT

The DT Swiss EX511 rim comes with a**Limited Warranty**. For specific terms and conditions of the warranty, please refer to the official DT Swiss website or contact their customer service directly.

Manufacturer: DT Swiss

For technical support, spare parts, or warranty claims, please visit the official DT Swiss website or contact their authorized service centers. Always provide your product model name (RDEX51CDPW32SA6298) and ASIN (B0788R9ZMZ) when seeking support.

DT Swiss Official Website: www.dtswiss.com