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# DT Swiss E 1800 Spline 30 Rear Wheel - User Manual

Model: W0E1800NID1SA21185

Brand: DT Swiss

## 1. PRODUCT OVERVIEW

The DT Swiss E 1800 Spline 30 Rear Wheel is engineered for long, exciting rides, offering enhanced comfort through its wide rim design. This wheel ensures efficient power transfer with every pedal stroke, thanks to the reliable Ratchet system. It is designed to provide a blend of reliability, comfort, and performance for an optimal riding experience.

### Key Features:

- Aluminum, sleeved rim joint, hooked bead, tubeless ready
- DT Swiss 370 Straightpull hubs with Center-Lock disc mount
- Includes DT Swiss tubeless ready tape (mounted) and DT Swiss alloy tubeless valves
- 18T Ratchet LN System
- Wheel Size: 700c (also compatible with 29" tires)



Figure 1.1: The DT Swiss E 1800 Spline 30 Rear Wheel, showcasing its robust design and black finish.

## 2. INSTALLATION AND INITIAL SETUP

Proper installation is crucial for the performance and safety of your DT Swiss E 1800 Spline 30 Rear Wheel. Please follow these steps carefully.

### 2.1 Mounting the Wheel

1. Ensure your bicycle frame is compatible with a 12mm Thru x 142mm rear axle.

2. Carefully insert the wheel into the dropouts, aligning the disc rotor with the brake caliper.
3. Insert and tighten the thru-axle according to your bicycle manufacturer's specifications. Do not overtighten.

## 2.2 Tire Installation (Tubeless Ready)

This wheel is tubeless ready and comes with DT Swiss tubeless ready tape pre-mounted and alloy tubeless valves included.

1. Install your chosen tubeless-ready tire onto the rim. Ensure the tire beads are properly seated in the rim channel.
2. Insert the DT Swiss alloy tubeless valve through the valve hole and secure it with the provided nut.
3. Add tubeless sealant according to the tire and sealant manufacturer's instructions.
4. Inflate the tire to the recommended pressure. Listen for the beads to audibly 'pop' into place.
5. Check for any air leaks and ensure the tire is fully seated.

## 2.3 Cassette Body Installation (XDR)

The wheel features an XDR cassette body type, compatible with SRAM XDR road cassettes.

1. Slide the XDR cassette onto the freehub body, aligning the splines.
2. Thread on the cassette lockring and tighten it to the manufacturer's specified torque using a cassette lockring tool.

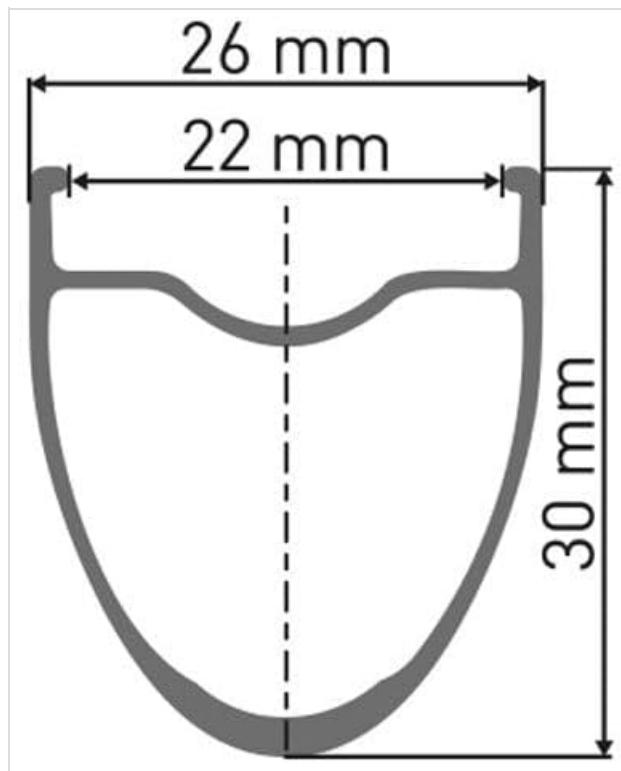


Figure 2.1: Cross-section diagram of the DT Swiss E 1800 Spline 30 rim, illustrating its 22mm internal width and 30mm depth.

## 3. OPERATING GUIDELINES

To ensure optimal performance and longevity of your DT Swiss E 1800 Spline 30 Rear Wheel, adhere to the following guidelines during use.

### 3.1 Brake Compatibility

This wheel is designed for Center-Lock disc brake systems. Ensure your bicycle's brake calipers are compatible with this standard and are properly aligned for efficient braking.

### 3.2 Tire Pressure

Always inflate your tires to the pressure recommended by the tire manufacturer. Over-inflation or under-inflation can affect ride quality, tire wear, and safety. The wide 22mm internal rim width supports lower pressures for enhanced comfort and grip, especially with wider tires.

### 3.3 Ratchet LN System

The 18T Ratchet LN System provides reliable and efficient power transfer. While riding, you should experience consistent engagement and a smooth freewheeling sound. Any unusual noises or inconsistent engagement should be addressed during maintenance.

## 4. CARE AND MAINTENANCE

Regular maintenance will extend the life and maintain the performance of your DT Swiss E 1800 Spline 30 Rear Wheel.

### 4.1 Cleaning

- Clean the rim, spokes, and hub regularly with mild soap and water. Avoid high-pressure washing directly on the hub or bearings.
- Rinse thoroughly and dry with a soft cloth.

### 4.2 Hub Maintenance

The DT Swiss 370 Straightpull hubs with the Ratchet LN System are designed for durability. Periodically, it is recommended to:

- Inspect the freehub body for wear and tear.
- Clean and re-grease the Ratchet system components with DT Swiss specific grease (or equivalent) as per manufacturer guidelines. This typically requires specialized tools and knowledge; consult a professional bike mechanic if unsure.

### 4.3 Spoke Tension and Truing

- Periodically check spoke tension. Uneven tension can lead to wheel damage or failure.
- If the wheel is out of true (wobbles side-to-side), it should be trued by a qualified mechanic.

### 4.4 Rim and Tire Inspection

- Regularly inspect the rim for any cracks, dents, or signs of damage.
- Check tires for cuts, excessive wear, or embedded debris. Replace worn or damaged tires promptly.

## 5. TROUBLESHOOTING

This section addresses common issues you might encounter with your DT Swiss E 1800 Spline 30 Rear Wheel.

### 5.1 Loose or Broken Spokes

- **Symptom:** Wheel feels wobbly, makes clicking noises, or is visibly out of true.
- **Solution:** A loose or broken spoke requires immediate attention. Do not ride the wheel until the spoke is replaced and the wheel is trued by a professional mechanic.

### 5.2 Brake Rub

- **Symptom:** Disc rotor rubs against brake pads, causing noise or resistance.
- **Solution:** Check if the wheel is properly seated in the dropouts. Ensure the thru-axle is tightened correctly. If the issue persists, the brake caliper may need adjustment or the rotor may be bent. Consult your bike's brake manual or a mechanic.

### 5.3 Tire Seating Issues (Tubeless)

- **Symptom:** Tire loses air quickly, or a section of the bead is not fully seated on the rim.
- **Solution:** Ensure sufficient sealant is present. Re-inflate the tire, potentially using a compressor, to help the bead seat. Apply soapy water to the tire bead to aid seating. If the issue persists, inspect the rim tape for damage or improper installation.

### 5.4 Hub Noise or Play

- **Symptom:** Grinding, clicking, or excessive play in the hub bearings.
- **Solution:** This indicates worn bearings or issues with the Ratchet system. The hub may require servicing, including bearing replacement or Ratchet system cleaning/lubrication. This is best performed by a qualified mechanic.

## 6. TECHNICAL SPECIFICATIONS

Specification	Value
Brand	DT Swiss
Model Number	W0E1800NID1SA21185
Material	Aluminum
Color	Black
Brake Style	Disc (Center-Lock)
Bike Type	Road Bike

Specification	Value
Wheel Size	700c / 29 Inches
Rim Width (Internal)	22 Millimeters
Rim Depth	30 Millimeters
Rear Axle Compatibility	12mm Thru x 142mm
Cassette Body Type	XDR
Valve Type	Presta
Tire Type	Tubeless Ready Clincher
Hub Type	DT Swiss 370 Straightpull
Ratchet System	18T Ratchet LN System
Number of Spokes	30
Item Weight	5.7 Pounds (approx. 2.59 kg)

## 7. WARRANTY INFORMATION AND CUSTOMER SUPPORT

DT Swiss products are manufactured to high standards and are subject to the manufacturer's warranty. For specific warranty terms and conditions, please refer to the official DT Swiss website or the documentation provided with your purchase.

If you encounter any issues not covered in this manual or require professional assistance, please contact DT Swiss customer support or an authorized DT Swiss service center. Always provide your product model number (W0E1800NID1SA21185) and purchase details when seeking support.

For the most up-to-date information, product registration, and additional resources, visit the official DT Swiss website: [www.dtswiss.com](http://www.dtswiss.com)

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### Related Documents - W0E1800NID1SA21185

	<a href="#">DT Swiss 2014 Product Catalog: Wheels, Components, and Suspension</a> <p>Explore the comprehensive 2014 product catalog from DT Swiss, featuring innovative wheels, high-performance components, and advanced suspension systems for cycling enthusiasts. Discover detailed specifications and technologies.</p>
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<b>CLASSIC WHEELS</b> <small>TECHNICAL MANUAL</small>	<p><a href="#"><u>DT Swiss Classic Wheels Technical Manual</u></a></p> <p>Comprehensive technical manual for DT Swiss Classic Wheels, covering hub maintenance, wheel servicing, end cap conversion, troubleshooting, and technical data for optimal performance and longevity.</p>
<b>DT SWISS</b> 	<p><a href="#"><u>DT Swiss Ratchet EXP Hubs Freewheel Maintenance Guide</u></a></p> <p>Comprehensive maintenance guide for DT Swiss Ratchet EXP hubs, covering general information, step-by-step freewheel system maintenance, cleaning, assembly, troubleshooting, and required parts. Includes safety warnings and warranty information.</p>
<b>DT SWISS</b> 	<p><a href="#"><u>DT Swiss Tensiometer User Manual and Spoke Tension Data</u></a></p> <p>Comprehensive guide to using the DT Swiss Tensiometer for measuring spoke tension, including detailed data tables and graphs for various DT Swiss spoke types.</p>
<b>DT SWISS ACADEMY</b> 	<p><a href="#"><u>Guide d'Enregistrement DT Swiss Academy</u></a></p> <p>Guide étape par étape pour vous inscrire à la DT Swiss Academy, incluant les options de compte par e-mail, Microsoft et Google.</p>
<b>DT SWISS</b> 	<p><a href="#"><u>DT Swiss F 535 ONE 44mm Technical Manual</u></a></p> <p>A comprehensive technical manual for the DT Swiss F 535 ONE 44mm suspension fork, covering general information, service, troubleshooting, and maintenance procedures.</p>