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DT Swiss SCH020269S0100

DT Champion 2.0 Spokes Instruction Manual

Model: SCH020269S0100

Brand: DT Swiss

INTRODUCTION

The DT Champion 2.0 spokes are designed for a wide range of bicycle wheel applications, from robust road wheels to demanding MTB gravity wheels. These straight gauge spokes offer reliable performance and durability. This manual provides essential information regarding the installation, maintenance, and troubleshooting of your DT Champion 2.0 spokes.



This image displays two individual DT Champion spokes, one with a J-bend interface and the other with a straight-pull interface, alongside a green and grey box labeled 'DT SWISS Spokes' and 'DT champion'. The box indicates it contains traditional spokes and nipples.

SETUP AND INSTALLATION

Proper installation of bicycle spokes is crucial for wheel integrity, safety, and performance. It is highly recommended that spoke installation and wheel building be performed by a qualified bicycle mechanic or an individual with extensive experience in wheel building.

Required Tools and Components:

- DT Champion 2.0 Spokes (Box of 100)
- Compatible Wheel Rim
- Compatible Hub
- Nipples (typically included with spokes or purchased separately)
- Spoke Wrench
- Truing Stand
- Spoke Tension Meter

- Nipple Driver (optional, for faster assembly)
- Thread Preparation Compound (e.g., spoke prep or linseed oil)

Installation Steps (Overview):

1. **Lacing Pattern Selection:** Determine the appropriate lacing pattern (e.g., 3-cross, 2-cross) based on the hub, rim, and intended use.
2. **Spoke Insertion:** Insert spokes into the hub flanges according to the chosen lacing pattern.
3. **Nipple Engagement:** Thread nipples onto the spokes through the rim holes. Apply thread preparation compound to the spoke threads to prevent seizing and ensure consistent tension.
4. **Initial Tensioning:** Gradually tighten all nipples evenly until spokes are lightly tensioned.
5. **Truing and Tensioning:** Use a truing stand and spoke wrench to adjust spoke tension, ensuring the wheel is round (radial true) and straight (lateral true). Regularly check spoke tension with a tension meter to ensure even tension across all spokes, which is critical for wheel durability.
 1. **Stress Relieving:** After initial tensioning and truing, apply pressure to the wheel to relieve stress in the spokes and hub. Re-true and re-tension as necessary.
6. **Final Check:** Ensure all nipples are securely seated and the wheel spins freely without wobble.

OPERATION

DT Champion 2.0 spokes function as critical structural components of a bicycle wheel, transferring power from the hub to the rim and supporting the rider's weight. Their primary operational characteristic is maintaining consistent tension to ensure wheel stability and responsiveness.

- **Load Distribution:** Spokes distribute the forces encountered during riding (e.g., pedaling, braking, impacts) evenly across the wheel.
- **Wheel Rigidity:** Properly tensioned spokes provide the necessary rigidity for the wheel to maintain its shape under various loads.
- **Energy Transfer:** They efficiently transfer rotational energy from the hub to the rim, contributing to propulsion.

Optimal performance relies on correct initial tensioning and regular maintenance to ensure spokes remain within their specified tension range.

MAINTENANCE

Regular maintenance extends the lifespan of your spokes and ensures the safety and performance of your bicycle wheels.

- **Routine Inspection:** Periodically inspect all spokes for signs of damage, such as bends, kinks, or cracks, especially near the hub flange and nipple.
- **Tension Check:** Lightly squeeze pairs of parallel spokes to feel for significant differences in tension. A professional tension meter can provide a more accurate assessment. Uneven tension can lead to premature spoke failure or wheel deformation.
- **Trueness Check:** Spin the wheel to check for lateral (side-to-side) and radial (up-and-down) wobbles. Minor wobbles can often be corrected by adjusting spoke tension.
- **Cleaning:** Keep spokes clean from dirt, mud, and corrosive substances. Use a mild soap and water solution, then rinse and dry thoroughly.
- **Post-Break-in Check:** After the first few rides (approximately 50-100 miles), new wheels should be re-checked for tension and trueness as spokes can settle and tension may change.

TROUBLESHOOTING

Addressing common spoke-related issues promptly can prevent further damage and ensure riding safety.

Common Issues and Solutions:

- **Broken Spoke:**
 - **Cause:** Impact, fatigue from uneven tension, or improper installation.
 - **Solution:** Replace the broken spoke immediately. A broken spoke significantly compromises wheel strength and trueness. Seek professional assistance for replacement and re-truing.
- **Loose Spoke:**
 - **Cause:** Insufficient initial tension, spoke stretch, or nipple loosening over time.
 - **Solution:** Re-tension the loose spoke using a spoke wrench. Check surrounding spokes for consistent tension. If multiple spokes are loose, the wheel may require a full re-tensioning and truing.
- **Wheel Wobble (Out of True):**
 - **Cause:** Uneven spoke tension, impact, or a bent rim.
 - **Solution:** Use a truing stand to identify and correct lateral and radial runout by adjusting spoke tension. This often requires experience and a tension meter for best results. If the rim is severely bent, it may need replacement.
- **Nipple Seizing/Stripping:**
 - **Cause:** Corrosion, overtightening, or lack of thread preparation during installation.
 - **Solution:** If a nipple is seized, apply penetrating oil. If it's stripped, it must be replaced. Always use appropriate thread preparation during installation to prevent future issues.

For complex issues or if you are unsure about performing repairs, consult a professional bicycle mechanic.

SPECIFICATIONS

Detailed specifications for the DT Champion 2.0 Spokes (Box of 100).

Feature	Specification
Model Name	SCH020269S0100
Brand	DT Swiss
Defined Color	Black
Length	269mm
Thread Diameter	2.0mm
Spoke Profile	Straight Gauge
Spoke Interface	J-Bend
Item Weight (per box)	10.08 ounces (approx. 285.8g)
Package Weight	1.87 Pounds (approx. 848.2g)
Item Dimensions (LxWxH)	13.19 x 2.39 x 1.19 inches
Package Dimensions (LxWxH)	16 x 4 x 4 inches
Included Components	Spokes (100 count)
Suggested Users	Unisex-adult

Feature	Specification
ASIN	B07J1WHD83
Date First Available	October 4, 2018

WARRANTY INFORMATION

The DT Champion 2.0 Spokes come with a **Limited Warranty**. For specific terms, conditions, and duration of the warranty, please refer to the official DT Swiss website or contact DT Swiss customer support directly. Retain your proof of purchase for warranty claims.

CUSTOMER SUPPORT





For technical assistance, product inquiries, or warranty claims, please contact DT Swiss customer support through their official website. You can typically find contact information, FAQs, and additional resources on their support pages.



DT Swiss Official Website: www.dtswiss.com

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This manual is for informational purposes only. DT Swiss is not responsible for any damage or injury resulting from improper installation or use of this product.

Related Documents - SCH020269S0100

	<p>DT Swiss 2014 Product Catalog: Wheels, Components, and Suspension</p> <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>
	<p>DT Swiss 2014 Product Catalog: Wheels, Components, and Suspension</p> <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>
	<p>GoodWe SDT G2 Series Solar Inverter Quick Installation Guide</p> <p>A concise guide for the quick installation of GoodWe SDT G2 Series Solar Inverters, including models GW4K-DT, GW5K-DT, GW6K-DT, GW10KT-DT, GW12KT-DT, and GW15KT-DT. Covers safety precautions, product overview, installation steps, electrical connections, and commissioning via LCD and SolarGo App.</p>
	<p>DT NO.1 DT3 NEW Smart Watch User Manual</p> <p>User manual for the DT NO.1 DT3 NEW Smart Watch, covering setup, features, app connection, and troubleshooting.</p>

 The image shows the front cover of the 'Swiss Side Hadron² Disc Rear Wheel User Manual'. At the top is the 'SWISS SIDE' logo. Below it, the title 'BEDIENTUNGSANLEITUNG USER MANUAL' is printed in white on a dark background. At the bottom, smaller text lists the product names in German and English: 'HADRON² DISC-HINTERRAD / FELDSTROMWHEEL' and 'HADRON² DISC REAR WHEEL / RIM BRAKE'.	<p>Swiss Side Hadron² Disc Rear Wheel User Manual</p> <p>User manual for the Swiss Side Hadron² Disc Rear Wheel with Rim Brake, covering general information, safety, assembly, handling, maintenance, care, and warranty.</p>
 The image shows the front cover of the 'Swiss Tech Kernstück Bluetooth Speaker + Lantern User Manual'. It features the 'SWISS TECH' logo and a photograph of the product, which is a cylindrical Bluetooth speaker and lantern. The title 'KERNSTÜCK' is visible at the bottom.	<p>Swiss Tech Kernstück Bluetooth Speaker + Lantern User Manual</p> <p>User manual for the Swiss Tech Kernstück, a versatile Bluetooth speaker and LED lantern with a 2000-lumen output, multiple light modes, a 5200 mAh power bank, and IPX4 weather resistance. Includes operating instructions, safety information, troubleshooting, and warranty details.</p>