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DT Swiss DT Swiss 350 Straight Pull Front Hub

DT Swiss 350 Straight Pull Front Hub User Manual

Model: HBDT350SP13

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your DT Swiss 350 Straight Pull Front Hub. Designed for cycling enthusiasts, this hub features a 24-hole configuration, 12 x 100 mm thru-axle compatibility, and a Centre-Lock disc brake interface. Adhering to these instructions will help ensure the longevity and optimal performance of your product.



Figure 1: DT Swiss 350 Straight Pull Front Hub. This image displays the black hub with white DT Swiss 350 Straightpull branding, showcasing its Centre-Lock disc brake mount and thru-axle design.

2. SAFETY INFORMATION

Always prioritize safety when working with bicycle components. Improper installation or maintenance can lead to serious injury or product damage.

- Professional installation by a qualified bicycle mechanic is highly recommended for wheel building and hub installation.
- Wear appropriate safety gear, including eye protection and gloves, during installation and maintenance.

- Ensure all bolts and fasteners are tightened to the manufacturer's specified torque values. Overtightening or undertightening can compromise safety and performance.
- Regularly inspect your hub and wheel for any signs of wear, damage, or loose components.
- Do not modify the hub or its components. Use only genuine DT Swiss replacement parts.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon opening the package. If any components are missing or damaged, contact your retailer or DT Swiss support.

- 1 x DT Swiss 350 Straight Pull Front Hub (24 Hole, 12 x 100 mm Thru-axle, Centre-Lock)
- Instruction Manual (this document)

4. SETUP

4.1 Wheel Building (Spoke Lacing)

The DT Swiss 350 Straight Pull Front Hub is designed for straight-pull spokes, which require specific lacing patterns and tensioning. Wheel building is a specialized skill. It is strongly recommended that this process be performed by a certified bicycle mechanic using appropriate tools and spoke tension meters. Refer to DT Swiss technical documentation for detailed spoke length calculations and lacing instructions.

4.2 Disc Brake Rotor Installation (Centre-Lock)

This hub utilizes the Centre-Lock disc brake rotor mounting system. Follow the instructions provided with your disc brake rotor for proper installation.

1. Clean the Centre-Lock splines on both the hub and the rotor.
2. Align the splines of the disc brake rotor with the splines on the hub.
3. Slide the rotor onto the hub until it seats fully.
4. Thread the Centre-Lock lockring onto the hub.
5. Using a compatible lockring tool (e.g., a cassette lockring tool or bottom bracket tool, depending on lockring type), tighten the lockring to the manufacturer's specified torque (typically 40 Nm). Ensure the lockring is fully engaged and secure.

4.3 Wheel Installation onto Bicycle Fork

The DT Swiss 350 Front Hub is designed for 12 x 100 mm thru-axle forks.

1. Ensure your bicycle fork is compatible with a 12 x 100 mm thru-axle.
2. Carefully insert the wheel into the fork dropouts, ensuring the disc brake rotor aligns correctly with the brake caliper.
3. Insert the 12 mm thru-axle through the fork dropout, hub, and opposite fork dropout.
4. Tighten the thru-axle according to your fork manufacturer's specifications. This typically involves threading and then closing a quick-release lever or tightening a bolt with a hex key.
5. Before riding, check that the wheel is securely seated and spins freely without rubbing against the brake pads or fork.

5. OPERATION

Once properly installed, the DT Swiss 350 Straight Pull Front Hub operates as a standard bicycle front hub. Its primary function is to provide a smooth-rolling interface for the front wheel. No specific user interaction is required beyond ensuring proper installation and regular maintenance.

6. MAINTENANCE

Regular maintenance extends the life of your hub and ensures safe operation.

- **Cleaning:** Keep the hub clean from dirt, mud, and road grime. Use a mild soap and water solution, then rinse thoroughly and dry. Avoid high-pressure washing directly at the seals.
- **Inspection:** Periodically check for any signs of play in the bearings. Gently rock the wheel side-to-side while it's installed in the fork. Any noticeable play may indicate worn bearings or improper adjustment.
- **Bearing Service:** DT Swiss hubs are designed for durability, but bearings will eventually wear. Servicing or replacing bearings requires specialized tools and expertise. It is recommended to have this performed by a qualified bicycle mechanic. Refer to DT Swiss service manuals for detailed instructions.
- **Spoke Tension:** Regularly check spoke tension. Uneven or low spoke tension can lead to wheel damage or failure.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Wheel has side-to-side play	Worn bearings, loose thru-axle, or improperly installed end caps.	Check thru-axle tightness. Inspect end caps for proper seating. If play persists, bearing service or replacement by a mechanic is required.
Grinding noise from hub	Contaminated or worn bearings.	Bearing service or replacement by a mechanic.
Disc brake rub	Improperly aligned brake caliper, bent rotor, or wheel not fully seated.	Re-seat wheel in fork. Align brake caliper. Inspect rotor for trueness.

8. SPECIFICATIONS

Feature	Detail
Brand	DT Swiss
Model Name	Hbdt350sp13
Hub Type	Front Hub
Spoke Type	Straight Pull
Hole Count	24 Hole
Axle Type	Thru-axle
Axle Dimensions	12 x 100 mm
Brake Interface	Centre-Lock Disc
Material	Metal
Color	Black (Standard)

Feature	Detail
Item Weight	0.75 Pounds (approx. 0.34 kg)
Recommended Use	Cycling

9. WARRANTY AND SUPPORT

DT Swiss products are manufactured to high standards and come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the official DT Swiss website or contact your local DT Swiss distributor. For technical support, service, or inquiries regarding replacement parts, please visit the official DT Swiss support portal or contact their customer service department.

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Related Documents - DT Swiss 350 Straight Pull Front Hub

 <p>DT SWISS F 535 / F 535 ONE 44mm SUSPENSION FORKS TECHNICAL MANUAL</p>	<p><u>DT Swiss F 535 / F 535 ONE 44mm Suspension Fork User Manual</u></p> <p>Comprehensive user manual for the DT Swiss F 535 and F 535 ONE 44mm suspension forks, covering installation, setup, safety, and maintenance for optimal performance.</p>
 <p>DT SWISS TENSIMETER</p>	<p><u>DT Swiss Tensiometer User Manual and Spoke Tension Data</u></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>
 <p>CLASSIC WHEELS TECHNICAL MANUAL</p> <p>DT SWISS</p>	<p><u>DT Swiss Classic Wheels Technical Manual</u></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>
 <p>DT SWISS ACADEMY GUIDE D'ENREGISTREMENT</p>	<p><u>Guide d'Enregistrement DT Swiss Academy</u></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>



[DT Swiss 2014 Product Catalog: Wheels, Components, and Suspension](#)

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.

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[DT Swiss F 535 ONE 44mm Technical Manual](#)

A comprehensive technical manual for the DT Swiss F 535 ONE 44mm suspension fork, covering general information, service, troubleshooting, and maintenance procedures.