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JOYTECH JY-754

JOYTECH Aluminum Rear Hub Boss JY-754 Instruction Manual

Model: JY-754

1. INTRODUCTION

This instruction manual provides essential information for the proper installation, maintenance, and care of your JOYTECH Aluminum Rear Hub Boss 36H SI OLD130 (Model JY-754). Please read this manual thoroughly before attempting any installation or maintenance to ensure safe and optimal performance of your bicycle component. Retain this manual for future reference.

2. PRODUCT OVERVIEW

The JOYTECH Aluminum Rear Hub Boss is a durable and reliable component designed for bicycle rear wheels. It features a 36-hole design, suitable for various wheel builds, and an OLD (Over-Locknut Dimension) of 130mm. The shaft length is 7.3 inches (185 mm), providing compatibility with specific bicycle frames. This hub is constructed from aluminum for a balance of strength and weight.



Figure 2.1: Full view of the JOYTECH Aluminum Rear Hub Boss. This image displays the complete hub assembly, including the central aluminum body, flanges with 36 spoke holes, and the threaded shaft with securing nuts on both ends.

3. SETUP AND INSTALLATION

Proper installation of a bicycle hub is crucial for safety and performance. It is highly recommended that installation be performed by a qualified bicycle mechanic. Incorrect installation can lead to component

failure, injury, or damage to your bicycle.

3.1 Required Tools

- Appropriate wrenches for axle nuts
- Spoke wrench (for wheel building)
- Grease
- Torque wrench (recommended)

3.2 Installation Steps (General Guide)

1. **Prepare the Wheel:** If building a new wheel, ensure the rim and spokes are compatible with a 36-hole hub.
2. **Lace the Wheel:** Follow standard wheel lacing patterns for a 36-hole hub. Ensure even spoke tension.
3. **Mount the Freewheel/Cassette:** If applicable, thread the freewheel onto the hub body or install the cassette according to its manufacturer's instructions.
4. **Install into Frame:**
 - Ensure the bicycle frame's rear dropouts are clean and free of obstructions.
 - Apply a thin layer of grease to the axle threads and nuts.
 - Carefully align the hub axle with the frame's rear dropouts.
 - Insert the axle into the dropouts, ensuring it sits flush.
 - Tighten the axle nuts evenly on both sides. Refer to your bicycle frame manufacturer's specifications for recommended torque values.
5. **Check Alignment:** Verify that the wheel is centered in the frame and spins freely without rubbing.



Figure 3.1: Close-up view of one side of the hub's shaft and securing nut. This image highlights the threaded axle and the

hexagonal nut used to secure the hub within the bicycle frame's dropouts.



Figure 3.2: Close-up view of the opposite side of the hub's shaft and securing nut. Similar to Figure 3.1, this image provides a detailed look at the axle and nut assembly, essential for proper installation.

4. MAINTENANCE

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

- **Cleaning:** Keep the hub and surrounding areas clean from dirt and grime. Use a damp cloth and mild detergent if necessary.
- **Inspection:** Periodically inspect the hub for any signs of wear, damage, or loose components. Check for play in the axle.
- **Lubrication:** Depending on the hub's design (sealed bearings vs. cup-and-cone), periodic lubrication may be required. Consult a bicycle mechanic for specific lubrication needs.
- **Spoke Tension:** If the hub is part of a wheel, regularly check spoke tension. Uneven tension can lead to wheel damage or failure.
- **Axle Nuts:** Ensure axle nuts remain securely tightened.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with a bicycle rear hub. For complex problems, consult a professional bicycle mechanic.

- **Wheel Wobble/Play:**
 - **Cause:** Loose axle nuts, worn bearings, or loose spokes.

- **Solution:** Check and tighten axle nuts. If play persists, bearings may need adjustment or replacement. Inspect spoke tension.
- **Noise (Clicking/Grinding):**
 - **Cause:** Lack of lubrication, contaminated bearings, or damaged internal components.
 - **Solution:** Clean and lubricate the hub. If noise continues, professional inspection is required.
- **Difficulty Spinning:**
 - **Cause:** Over-tightened axle nuts, damaged bearings, or internal friction.
 - **Solution:** Loosen axle nuts slightly (ensure they are still secure). If the issue persists, bearings may need service.

6. SPECIFICATIONS

Key technical specifications for the JOYTECH Aluminum Rear Hub Boss JY-754:

Feature	Detail
Brand	JOYTECH
Model Number	JY-754
Material	Aluminum (Hub Body), Plastic (as per product data, likely for internal components or packaging)
Spoke Holes	36H
OLD (Over-Locknut Dimension)	130mm
Shaft Length	7.3 inches (185 mm)
Package Weight	0.29 Kilograms
Item Package Dimensions	7.2 x 2.76 x 2.24 inches

7. SAFETY INFORMATION

- Always wear appropriate safety gear when working on bicycles.
- Ensure all components are correctly installed and tightened to manufacturer specifications.
- Do not modify the hub or its components, as this may compromise structural integrity and safety.
- Regularly inspect your bicycle for wear and tear, especially critical components like hubs.
- If you are unsure about any installation or maintenance procedure, consult a professional bicycle mechanic.

8. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts for your JOYTECH Aluminum Rear Hub Boss JY-754, please contact JOYTECH customer service or refer to the official JOYTECH website. Keep your proof of purchase for any warranty claims.

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