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SHIMANO ST-R8000

SHIMANO ULTEGRA ST-R8000 Dual Control Lever

INSTRUCTION MANUAL

1. Overview

The SHIMANO ULTEGRA ST-R8000 Dual Control Lever is designed for 11-speed road bicycle drivetrains, integrating both braking and shifting functions into a single unit. This series provides consistent shifting and braking performance, featuring an enhanced lever travel adjustment range and a lighter chainring shifter mechanism. The design prioritizes maximum grip and a balanced combination of stiffness, weight, and braking power. A stabilizer between the axles reduces deformation, contributing to improved braking efficiency.

Key Features:

- Vivid indexing for consistent shift lever force across all 11 sprockets.
- Dual-compound rubber hoods and CFRP (Carbon Fiber Reinforced Polymer) lever body for durability and comfort.
- Internal cable routing under the bar tape, enabled by re-engineered internal mechanisms and polymer-coated cables, for faster, lighter, and smoother shifting.
- Designed for double crankset compatibility.

2. Product Components and Visual Guide

This section provides visual references for the SHIMANO ULTEGRA ST-R8000 Dual Control Levers.



Image 1: Front view of a pair of SHIMANO ULTEGRA ST-R8000 Dual Control Levers, showcasing their ergonomic design and black finish.



Image 2: Side view of a single SHIMANO ULTEGRA ST-R8000 Dual Control Lever, highlighting the lever shape and hood texture.

3. Setup and Installation

Installation of the SHIMANO ULTEGRA ST-R8000 Dual Control Levers requires specialized tools and knowledge of bicycle mechanics. It is highly recommended that installation be performed by a qualified bicycle

mechanic to ensure proper function and safety.

General Installation Steps (Professional Installation Recommended):

- Handlebar Mounting:** Securely mount the levers to the handlebars at the desired ergonomic position. Ensure proper torque is applied to the clamping bolts.
- Cable Routing:** Route the shift and brake cables internally under the handlebar tape. The ST-R8000 levers are designed for a clean cable routing setup.
- Brake Cable Connection:** Connect the brake cables to the calipers, ensuring correct tension and alignment for effective braking.
- Shift Cable Connection:** Connect the shift cables to the front and rear derailleurs. Adjust cable tension for precise shifting.
- Lever Reach Adjustment:** Adjust the lever reach to suit rider preference using the integrated adjustment mechanism.
- Final Checks:** Verify all connections are secure, and both braking and shifting operate smoothly and reliably before riding.

4. Operating Instructions

The SHIMANO ULTEGRA ST-R8000 Dual Control Levers combine braking and shifting into an intuitive system. Familiarize yourself with the lever functions before riding.

Shifting Gears:

- Downshifting (to a smaller cog/chainring):** Press the smaller inner lever towards the handlebar. This action moves the chain to a smaller gear, making pedaling easier.
- Upshifting (to a larger cog/chainring):** Push the main brake lever inwards (away from the handlebar) to engage the larger gear, making pedaling harder.
- The levers provide distinct tactile feedback for each shift, ensuring precise gear changes.

Braking:

- To apply the brakes, pull the main lever towards the handlebar. The amount of braking force is proportional to the pressure applied to the lever.
- Ensure both front and rear brakes are used effectively for controlled deceleration and stopping.

Video Demonstration:

Your browser does not support the video tag.

Video 1: A review and demonstration of the Shimano Ultegra Levers, showing their operation on a bicycle. This video provides a visual guide to the shifting and braking mechanisms.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your SHIMANO ULTEGRA ST-R8000 levers.

- **Cleaning:** Keep the levers and surrounding areas clean from dirt and debris. Use a soft cloth and mild detergent if necessary. Avoid harsh chemicals.
- **Cable Inspection:** Periodically inspect brake and shift cables for fraying, corrosion, or damage. Replace damaged cables promptly.
- **Lubrication:** Apply a small amount of appropriate lubricant to pivot points and cable ends as recommended by SHIMANO.
- **Lever Hoods:** Check the rubber hoods for wear or damage. Replace if they become sticky or torn to maintain grip and comfort.
- **Professional Service:** For complex adjustments or internal component issues, consult a professional bicycle mechanic.

6. Troubleshooting

This section addresses common issues you might encounter with your ST-R8000 levers.

- **Difficulty Shifting:**

- Check shift cable tension. Too loose or too tight can affect shifting precision.
- Inspect cables for friction or damage. Internal cable routing can sometimes cause increased friction if not installed correctly.
- Ensure derailleurs are properly aligned and adjusted.

- **Spongy or Weak Braking:**

- Check brake cable tension. Adjust if too loose.
- Inspect brake pads for wear and ensure they are properly aligned with the rim.
- Verify brake calipers are functioning correctly and not sticking.

- **Lever Not Returning:**

- Clean and lubricate the lever pivot points.
- Check for any obstructions preventing the lever from returning to its original position.

If issues persist, seek assistance from a professional bicycle mechanic.

7. Specifications

Detailed technical specifications for the SHIMANO ULTEGRA ST-R8000 Dual Control Lever.

Brand	SHIMANO
Model Number	ST-R8000 (ISTR8000DPA)
Speed Compatibility	11-speed

Brake Type	Traditional brakes (SLR-EV)
Crankset Compatibility	Double
Material (Hoods)	Dual-compound rubber
Material (Lever Body)	CFRP (Carbon Fiber Reinforced Polymer)
Color	Black
Item Weight	Approximately 2 pounds (0.91 kg)
Product Dimensions	4.72" L x 3.54" W (12cm L x 9cm W)
Special Feature	Ergonomic design

8. Warranty and Support

SHIMANO products are manufactured to high standards and are covered by a limited warranty against defects in materials and workmanship. For specific warranty terms, duration, and claim procedures, please refer to the official SHIMANO website or contact your authorized SHIMANO dealer.

For technical support, spare parts, or service inquiries, please contact your local SHIMANO dealer or visit the official SHIMANO support portal. Always use genuine SHIMANO replacement parts to ensure compatibility and maintain product performance and safety.