## SHIMANO ST-R8060

# Shimano Ultegra Di2 ST-R8060 TT Brake/Shift Levers Instruction Manual

Model: ST-R8060

### Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Shimano Ultegra Di2 ST-R8060 TT Brake/Shift Levers. These levers are designed for time trial and triathlon bicycles, offering precise electronic shifting and reliable braking performance. Please read this manual thoroughly before use to ensure safe and optimal performance of your cycling components.

### Safety Information

- Always wear appropriate safety gear, including a helmet, when cycling.
- Ensure all components are correctly installed and tightened to the manufacturer's specifications. Incorrect installation can lead to serious injury.
- Regularly inspect your bicycle's braking and shifting systems for wear, damage, or loose connections.
- Do not modify the levers or any other Di2 components. Use only genuine Shimano parts for replacement.
- Consult a professional bicycle mechanic if you are unsure about any installation or maintenance procedures.

### Setup

Proper installation is crucial for the performance and safety of your Di2 ST-R8060 levers. These levers are designed for integration with a Shimano Di2 electronic shifting system and caliper brakes.

#### 1. Component Overview




**Image:** A single Shimano Ultegra Di2 ST-R8060 TT Brake/Shift Lever, black in color, shown from the side. The lever features an ergonomic design with the Shimano logo visible on the brake lever blade. The electronic wire connection point is visible at the base of the lever.

The ST-R8060 set includes dedicated left and right brake/shift levers. Each lever integrates both braking and electronic shifting functions.

## 2. Installation on Handlebars

1. Ensure your time trial or triathlon handlebars are compatible with internal cable and wire routing for a clean setup.
2. Slide the lever body onto the handlebar extension or base bar. Position the levers ergonomically for comfortable reach and control.
3. Secure the levers using the integrated clamp mechanism. Refer to the torque specifications provided by Shimano for the clamping bolt to avoid overtightening or undertightening.

## 3. Di2 Wire Connection

1. Connect the Di2 E-Tube wires to the ports on the back of each lever. Ensure the connectors are fully inserted until they click into place.
2. Route the Di2 wires internally through the handlebars and frame to the junction box (e.g., EW-RS910 or EW-JC130) and then to the main Di2 battery and derailleurs.

3. Use the Shimano E-Tube Project software (available for PC/Mac and mobile devices) to update firmware and configure shifting preferences, including Syncro Shift modes.

### 4. Brake Cable Installation

1. Insert the brake cable inner wire into the lever body.
2. Route the brake cable housing and inner wire to the caliper brake. Ensure smooth routing without sharp bends to maintain optimal braking performance.
3. Connect the brake cable to the caliper and adjust tension for proper brake lever feel and pad clearance.
4. Test the brakes thoroughly before riding.

## Operating

The ST-R8060 levers provide intuitive control over your Di2 shifting and braking systems.

### 1. Electronic Shifting

- Each lever features a single button for shifting. The function of each button (up-shift, down-shift, front derailleur, rear derailleur) is configurable via the E-Tube Project software.
- **Syncro Shift:** The Di2 system can be configured for Syncro Shift, which automatically shifts the front derailleur when the rear derailleur reaches certain gears, or vice-versa, to maintain optimal chain line and cadence. This feature is highly customizable.
- Press the shift button firmly but briefly to initiate a shift. Holding the button down can activate multi-shift mode (if configured).

### 2. Braking

- The brake levers operate standard caliper brakes. Squeeze the levers to engage the brakes.
- Ensure brake pads are properly aligned and make full contact with the rim or rotor (depending on your brake type).
- Regularly check brake cable tension and lever feel. Adjust as necessary to maintain effective braking.

## Maintenance

Regular maintenance ensures the longevity and reliable performance of your ST-R8060 levers.

- **Cleaning:** Wipe the levers clean with a damp cloth after each ride. Avoid using harsh chemicals or high-pressure washers directly on the electronic components.
- **Cable Inspection:** Periodically check brake cables and housing for fraying, kinks, or corrosion. Replace worn cables and housing promptly.
- **Di2 System Check:** Use the E-Tube Project software to check for any system errors or to update firmware. Firmware updates often include performance improvements and bug fixes.
- **Battery:** While the levers themselves do not have a battery, ensure your main Di2 battery is charged regularly according to its specific instructions. A low system battery can affect shifting performance.
- **Lever Fasteners:** Periodically check the clamping bolts for the levers to ensure they are tightened to the correct torque specification.

## Troubleshooting

If you encounter issues with your ST-R8060 levers, consider the following common troubleshooting steps:

- **Shifting Not Responding:**
  - Check the main Di2 battery level. Recharge if necessary.
  - Ensure all E-Tube wires are securely connected to the levers, junction box, and derailleurs.
  - Connect to the E-Tube Project software to diagnose errors or check component recognition.
- **Inconsistent Shifting:**
  - Perform a derailleur adjustment using the E-Tube Project or the junction box adjustment mode.
  - Check for bent derailleur hangers or damaged derailleurs.
- **Brake Lever Feels Spongy or Ineffective:**
  - Inspect brake cables and housing for damage or excessive friction. Replace if needed.
  - Adjust brake cable tension at the caliper.
  - Check brake pad wear and alignment. Replace worn pads.

For persistent issues, consult an authorized Shimano dealer or a professional bicycle mechanic.

## Specifications

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|---|---|
| **Model Number** | ST-R8060 |
| **Series** | Ultegra Di2 |
| **Compatibility** | Shimano Di2 2x11-speed systems, Caliper Brakes |
| **Material** | Aluminum (Handle Material), Multi (General Material) |
| **Color** | Gray (Product), Black (Exterior Finish) |
| **Dimensions (L x W)** | 7" x 4.25" |
| **Weight** | Approximately 0.45 Pounds (Set) |
| **Handle Type** | Lever |

## Warranty Information

Shimano products are covered by a limited warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and product. Please retain your proof of purchase. For detailed warranty information, refer to the official Shimano website or contact your local authorized Shimano dealer.

## Support

For technical assistance, spare parts, or further inquiries, please contact your authorized Shimano dealer. You can also find extensive resources, including detailed manuals, technical documents, and the E-Tube Project software, on the official Shimano website.

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