

SHIMANO EW-RS910

Shimano EW-RS910 E-Tube Di2 Junction A Instruction Manual

Model: EW-RS910

INTRODUCTION

This manual provides comprehensive instructions for the proper installation, operation, and maintenance of your Shimano EW-RS910 E-Tube Di2 Junction A. This component serves as a crucial connection point and charging port for your Shimano Di2 electronic shifting system. Please read this manual thoroughly before use to ensure correct setup and safe operation.

PRODUCT OVERVIEW

The Shimano EW-RS910 is a compact 2-port junction box designed for integration into a bicycle frame or handlebar end. It features an externally facing charging port and an integrated mounting point, making it a versatile component for Di2 systems.

- **Function:** E-Tube Di2 Frame or Bar Plug Mount Junction A
- **Ports:** 2 E-Tube ports for connecting Di2 components.
- **Charging:** Integrated charging point for the Di2 battery.
- **Mounting:** Designed for discreet integration into the frame or handlebar.



Figure 1: Side view of the Shimano EW-RS910 Junction A, illustrating the two E-Tube ports for system connections.

SAFETY INFORMATION

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

- Ensure all connections are secure and properly seated.
- Do not attempt to modify the component.
- Keep the component away from extreme temperatures and corrosive substances.
- Consult a professional bicycle mechanic if you are unsure about any installation or maintenance procedures.
- Avoid direct high-pressure water spray on the junction box during cleaning.

SETUP AND INSTALLATION

The EW-RS910 Junction A can be installed in various locations, typically as a frame plug or a handlebar end plug. The package includes components for different mounting options.



Figure 2: All components included with the EW-RS910, showing the junction box, various mounting brackets, and E-Tube wire guides.

Installation Steps:

1. **Choose Mounting Location:** Determine whether to install the junction box as a frame plug (e.g., in the downtube or seat tube) or as a handlebar end plug.
2. **Prepare Wiring:** Route the necessary E-Tube wires from the shifters, battery, and other Di2 components to the chosen junction A location. Ensure sufficient slack for connections.
3. **Connect E-Tube Wires:** Carefully insert the E-Tube wires into the two ports on the EW-RS910. Ensure they click securely into place.
4. **Mount the Junction Box:**
 - **Frame Plug:** Use the appropriate frame plug adapter and secure the junction box into the frame opening.
 - **Handlebar End Plug:** Insert the junction box into the handlebar end using the provided expansion plug mechanism. Tighten gently until secure.
5. **Secure Wires:** Use the included wire guides or other appropriate methods to secure internal wiring and prevent rattling or damage.
6. **Initial System Check:** After installation, perform a basic function check of your Di2 system to ensure all components are communicating correctly.



Figure 3: Close-up of the EW-RS910 Junction A, highlighting the E-Tube connection ports and the overall compact design.

OPERATING INSTRUCTIONS

Charging the Di2 Battery:

The EW-RS910 features an integrated charging port for your Di2 battery. This allows for convenient charging without removing the battery from the bicycle.



Figure 4: Detailed view of the EW-RS910's charging port, battery indicator, and adjustment buttons.

1. **Connect Charger:** Plug the Shimano Di2 battery charger (SM-BCR2 or similar, sold separately) into the charging port on the EW-RS910.
2. **Monitor Indicator:** The indicator light on the junction box will illuminate to show charging status. Refer to your Di2 battery charger manual for specific light patterns (e.g., solid red for charging, solid green for fully charged).
3. **Disconnect:** Once charging is complete, disconnect the charger.

Checking Battery Level:

Press and hold the function button on the junction box (often the small button next to the charging port) for approximately 0.5 seconds. The indicator light will show the battery level:

- **Green (Solid):** 100% - 50%
- **Green (Flashing):** 50% - 25%
- **Red (Solid):** 25% - 0% (Charge immediately)

Adjusting Derailleurs (Fine-Tuning):

The function button on the EW-RS910 can also be used to enter adjustment mode for fine-tuning your front and rear derailleurs. Refer to your specific Di2 derailleur manual for detailed adjustment procedures.

1. **Enter Adjustment Mode:** Press and hold the function button for 2 seconds until the indicator light turns red.
2. **Adjust:** Use the shifter buttons to make micro-adjustments to the derailleur position.
3. **Exit Adjustment Mode:** Press and hold the function button again for 2 seconds until the indicator light turns off.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your EW-RS910 Junction A.

- **Cleaning:** Wipe the junction box with a clean, damp cloth. Avoid using harsh chemicals or abrasive materials.
- **Inspection:** Periodically check the E-Tube connections for any signs of damage or corrosion. Ensure the mounting is secure.
- **Software Updates:** Connect your Di2 system to the Shimano E-Tube Project software on a computer or mobile device to check for and apply firmware updates. This ensures optimal performance and compatibility.

TROUBLESHOOTING

If you encounter issues with your EW-RS910 Junction A or Di2 system, consider the following common troubleshooting steps:

- **No Power/Shifting:**
 - Check battery charge level.
 - Ensure all E-Tube connections are fully seated and secure.
 - Inspect E-Tube wires for visible damage.
- **Charging Issues:**
 - Verify the charger is properly connected to both the junction box and a power source.
 - Ensure the charger itself is functioning correctly (try with another device if possible).
- **Incorrect Shifting:**
 - Perform derailleur adjustments as described in the "Operating Instructions" section.
 - Check for bent derailleur hangers or other mechanical issues.
 - Connect to E-Tube Project to diagnose errors or perform system resets.

For persistent issues, consult a certified Shimano service center or a professional bicycle mechanic.

SPECIFICATIONS

Model Number	EW-RS910
Brand	SHIMANO
Function	E-Tube Di2 Frame or Bar Plug Mount Junction A, Charging Point
Ports	2 (E-Tube)
Special Features	Integrated mounting point, externally facing charging port
Color	Black
Material	Other

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Shimano website or contact your

authorized Shimano dealer. Keep your proof of purchase for warranty claims.

Shimano Official Website: bike.shimano.com