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## SHIMANO ESLRV4007RA

# SHIMANO Revoshift SL-RV400-7R 7-Speed Right Twist Shifter Instruction Manual

Model: SL-RV400-7R (ESLRV4007RA)

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your SHIMANO Revoshift SL-RV400-7R 7-Speed Right Twist Shifter. This component is designed for use with 7-speed mountain bike drivetrains, offering smooth and reliable gear transitions. Please read this manual thoroughly before attempting installation or use to ensure optimal performance and safety.

## 2. SAFETY INFORMATION

- Always wear appropriate safety gear, including gloves and eye protection, when installing or maintaining bicycle components.
- If you are unsure about any installation steps, consult a professional bicycle mechanic. Improper installation can lead to component failure and serious injury.
- Ensure all cables are routed correctly and secured to prevent interference with moving parts or steering.
- Regularly inspect your shifter and cables for wear or damage. Replace worn or damaged parts immediately.
- Do not modify the shifter or its components. Use only genuine SHIMANO replacement parts.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x SHIMANO Revoshift SL-RV400-7R Right Twist Shifter
- 1 x Shifter Cable (inner wire)

**Note:** Cable housing is sold separately and is required for installation.



Figure 3.1: The SHIMANO Revoshift SL-RV400-7R Right Twist Shifter. This image displays the complete shifter unit, including the ergonomic grip and the main body with the SHIMANO branding.

## 4. SETUP AND INSTALLATION

Follow these steps for proper installation of your Revoshift SL-RV400-7R shifter. Professional installation is recommended.

- 1. Handlebar Mounting:** Slide the shifter onto the right side of your handlebar. Position it comfortably for easy access and operation. Secure the shifter clamp bolt to the recommended torque specification (refer to your bicycle's or handlebar's manual for specific torque values).
- 2. Cable Installation:**
  - Ensure the shifter is in the highest gear position (smallest number on the optical display, if applicable).
  - Insert the shifter cable (inner wire) into the designated port on the shifter body.
  - Route the cable through the cable housing (sold separately) and along your bicycle frame, securing it with cable ties or frame guides.
  - Connect the cable to your rear derailleur, ensuring proper tension.
- 3. Derailleur Adjustment:** Adjust your rear derailleur's limit screws and B-tension screw according to the derailleur manufacturer's instructions. This ensures the chain does not overshift or undershift.
- 4. Indexing Adjustment:** With the chain on the smallest cog, turn the barrel adjuster on the shifter or derailleur until the chain shifts smoothly through all 7 gears. Fine-tune as necessary to eliminate any hesitation or skipping.
- 5. Final Check:** Test all gear shifts while the bicycle is stationary and then during a short ride. Ensure smooth operation and that the optical gear display accurately reflects the current gear.



Figure 4.1: Detail view of the SHIMANO Revoshift SL-RV400-7R shifter body. This image highlights the SHIMANO branding and the 'Revoshift' text, indicating the design and identification of the component.

## 5. OPERATING INSTRUCTIONS

The Revoshift SL-RV400-7R is a twist-grip shifter designed for intuitive gear changes.

- **Shifting Up (Harder Gear):** To shift to a higher gear (smaller cog on the rear wheel, for faster pedaling), twist the grip forward (towards the front of the bike).
- **Shifting Down (Easier Gear):** To shift to a lower gear (larger cog on the rear wheel, for easier pedaling), twist the grip backward (towards the rider).
- **Optical Gear Display:** The integrated optical gear display provides a clear visual indication of your current gear position, allowing you to quickly identify which gear you are in without looking down at the cassette.
- **Smooth Shifting:** For optimal performance and to prevent damage to your drivetrain, ease off the pedal pressure slightly while shifting gears. Avoid shifting under heavy load.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your shifter.

- **Cleaning:** Periodically clean the shifter body and grip with a damp cloth. Avoid using harsh chemicals or solvents that could damage the plastic components or rubber grip.

- **Cable Inspection:** Inspect the shifter cable and housing regularly for fraying, kinks, or corrosion. Replace the cable and housing if any damage is observed. A worn cable can lead to poor shifting performance.
- **Lubrication:** Apply a small amount of bicycle-specific lubricant to the inner shifter cable where it enters the housing and at the derailleur connection points. Do not over-lubricate the shifter mechanism itself unless specified by SHIMANO.
- **Tightness Check:** Periodically check that the shifter clamp bolt is securely tightened to the handlebar.

## 7. TROUBLESHOOTING

If you experience issues with your Revoshift SL-RV400-7R, consider the following common problems and solutions:

- **Gears Not Shifting Smoothly:**
  - Check cable tension. Adjust the barrel adjuster on the shifter or derailleur to increase or decrease tension.
  - Inspect the shifter cable and housing for damage or excessive friction. Replace if necessary.
  - Ensure the derailleur is properly aligned and its limit screws are correctly set.
- **Shifter Feels Stiff or Hard to Twist:**
  - The cable or housing may be corroded or dirty. Replace the cable and housing.
  - Ensure the shifter is not overtightened on the handlebar, which can impede its twisting motion.
- **Optical Gear Display Not Showing Correct Gear:**
  - This usually indicates an issue with cable tension or derailleur adjustment. Re-index the gears.

For persistent issues, consult a professional bicycle mechanic.

## 8. SPECIFICATIONS

Feature	Specification
Model Number	SL-RV400-7R (ESLRV4007RA)
Speed Compatibility	7-Speed
Hand Orientation	Right
Shifter Type	Twist Shifter (Revoshift)
Gear Display	Optical Gear Display
Shifting Technology	SIS INDEX Shifting
Material	Aluminum (Handle), Multi (Body)
Weight	Approximately 0.15 kg (5.3 ounces)
Dimensions	10 x 8 x 2 inches (Product Dimensions)

## 9. WARRANTY INFORMATION

This SHIMANO product is covered by a limited warranty. For specific details regarding warranty terms, conditions, and duration, please refer to the official SHIMANO warranty documentation provided with your purchase or visit the official SHIMANO website. Keep your proof of purchase for warranty claims.

## 10. SUPPORT

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If you require further assistance or have questions not covered in this manual, please contact SHIMANO customer support or visit your local authorized SHIMANO dealer or bicycle repair shop. They can provide expert advice and service for your SHIMANO components.

- **SHIMANO Official Website:** [bike.shimano.com](https://bike.shimano.com)
- **Local Dealer Locator:** Refer to the SHIMANO website to find an authorized dealer near you.