SHIMANO ISL4700RA

Shimano TIAGRA SL-4700 10-Speed Right Flat Bar Shifter Instruction Manual

Product Overview

The Shimano TIAGRA SL-4700 is a 10-speed right flat bar shifter designed for precise and reliable gear changes on road or gravel bicycles. It integrates advanced shifting technologies to provide a smooth and responsive cycling experience.

Key Features:

- **2-Way Release Technology:** Allows gear shifts by either pushing or pulling the lever, enhancing ergonomics and shifting versatility.
- **Instant Release:** Provides rapid gear changes by promptly disengaging the cable upon activation.
- **Optical Gear Display:** Offers clear visibility of the current gear position for informed shifting.
- **Compatibility:** Exclusively designed for use with RD-4700 series rear derailleurs.
- **Durable Construction:** Built with robust materials for longevity and resistance to various riding conditions.



Image: The Shimano TIAGRA SL-4700 10-Speed Right Flat Bar Shifter, showing the main body, shift levers, optical gear display, and a coiled shifter cable.

Setup and Installation

Proper installation is crucial for optimal performance and safety. If you are unsure about any steps, it is recommended to consult a professional bicycle mechanic.

1. **Mounting the Shifter:**
    - Ensure your handlebar is clean and free of grease.
    - Position the shifter on the right side of your flat handlebar.
    - Use a 4mm hex key to tighten the clamp bolt to the recommended torque specification (typically 5-7 Nm). Do not overtighten.
    - Adjust the angle of the shifter for comfortable reach and operation.
2. **Cable Routing:**
    - Route the shifter cable through the appropriate housing and guides on your bicycle frame.
    - Ensure cable housing lengths are appropriate, allowing for smooth turns without excessive friction or sharp bends.
3. **Connecting to Rear Derailleur:**

- Thread the inner cable through the rear derailleur's cable fixing bolt.
- Shift the shifter to the highest gear (smallest cog).
- Pull the cable taut and secure it with the derailleur's cable fixing bolt, tightening to the manufacturer's specified torque.

4. **Indexing and Adjustment:**
   - Adjust the high (H) and low (L) limit screws on the rear derailleur to prevent the chain from shifting beyond the smallest and largest cogs.
   - Use the barrel adjuster on the shifter or derailleur to fine-tune cable tension, ensuring smooth and precise shifts across all 10 gears.
   - Test all gear changes to confirm proper operation and adjust as needed.

Operating Instructions

The TIAGRA SL-4700 shifter offers intuitive operation for efficient gear changes.

- **Upshifting (to a smaller cog, harder gear):**

  Push the main lever (the larger lever) towards the handlebar. Each click will shift the chain to a smaller cog. The 2-Way Release allows you to push the lever with your thumb or pull it with your index finger.

- **Downshifting (to a larger cog, easier gear):**

  Push the smaller release lever with your thumb. Each click will shift the chain to a larger cog.

- **Optical Gear Display:**

  Refer to the optical gear display window on the shifter body to quickly see your current gear position without looking down at the cassette.

- **Instant Release:**

  This feature ensures that the cable is released immediately upon activation of the shift lever, providing quick and responsive gear changes, especially beneficial during rapid acceleration or braking.

Maintenance

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

- **Cleaning:** Periodically wipe down the shifter body with a clean, damp cloth. Avoid using harsh chemicals or solvents that could damage the plastic or finish.
- **Cable Inspection:** Regularly check the shifter cable and housing for fraying, kinks, or corrosion. Replace worn cables and housing promptly to maintain smooth shifting.
- **Lubrication:** Apply a small amount of bicycle-specific lubricant to the pivot points of the shifter levers and the cable entry points to reduce friction.
- **Tightness Check:** Ensure the shifter clamp bolt remains securely tightened to the handlebar.
- **Professional Service:** For complex issues or annual tune-ups, it is recommended to have your bicycle serviced by a qualified mechanic.

Troubleshooting

Here are some common issues and their potential solutions:

- **Difficulty Shifting or Slow Shifts:**
  - Check cable tension: Adjust the barrel adjuster. Turning it counter-clockwise increases tension (for slow downshifts), clockwise decreases tension (for slow upshifts).
  - Inspect cables and housing: Look for kinks, fraying, or dirt. Replace if necessary.
  - Clean and lubricate the derailleur: Ensure the derailleur pivots move freely.
- **Chain Rubbing or Skipping Gears:**
  - Verify limit screw settings: Ensure the high (H) and low (L) limit screws are correctly set on the rear derailleur.
  - Check for bent derailleur hanger: A bent hanger can cause inconsistent shifting. This usually requires professional attention.
  - Inspect the chain and cassette: Worn components can lead to poor shifting.
- **Shifter Lever Feels Loose or Not Engaging:**
  - Check the shifter clamp bolt: Ensure it is tightened to the correct torque.
  - Internal mechanism issue: If the above steps do not resolve the issue, the internal mechanism may be damaged. Professional inspection is recommended.

Specifications

Brand	SHIMANO
Model Number	ISL4700RA
Speed	10-Speed
Shifter Type	Flat Bar Right Shifter
Compatibility	RD-4700 Series Rear Derailleurs
Material	Aluminum (Handle)
Item Weight	9.3 ounces (approx. 264 grams)
Product Dimensions	6"L x 4.5"W (approx.)
UPC	689228927391

Warranty Information

This Shimano product comes with a**Limited Warranty**. For specific terms, conditions, and duration of the warranty, please refer to the official Shimano warranty documentation included with your purchase or visit the official Shimano website. The warranty typically covers manufacturing defects under normal use.

Customer Support

For further assistance, technical support, or inquiries regarding your Shimano TIAGRA SL-4700 shifter, please contact Shimano customer service through their official website or authorized dealers. You can find contact information and additional resources on the official Shimano website: bike.shimano.com.
When contacting support, please have your product model number (ISL4700RA) and purchase details readily available.

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