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SHIMANO Y60098023

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Model: Y60098023

1. PRODUCT OVERVIEW

The SHIMANO OT-SP41 Rear Derailleur Shift Cable Set is designed to provide smooth and precise gear shifting for bicycles. This set includes a stainless steel inner cable and OT-SP41 housing, engineered for durability and consistent performance across various riding conditions.

The stainless steel construction offers exceptional durability and corrosion resistance, ensuring long-lasting performance. The OT-SP41 housing is designed to minimize friction, enhancing the responsiveness of your derailleur system. This cable set is suitable for both road and mountain bikes, serving as an ideal component for upgrades or replacements.



Figure 1: SHIMANO OT-SP41 Shift Cable Set packaging, showing the cable and housing components inside a clear plastic bag with SHIMANO branding.

2. COMPONENTS INCLUDED

The SHIMANO OT-SP41 Shift Cable Set typically includes the following components:

- One stainless steel inner shift cable for the rear derailleur.
- One length of OT-SP41 shift cable housing.
- End caps for the cable housing.
- A cable crimp for the inner cable end.



Figure 2: Individual components of the SHIMANO OT-SP41 Shift Cable Set, including the coiled shift housing, the inner stainless steel cable, and various small end caps and a cable crimp.

3. SETUP AND INSTALLATION

Proper installation of the shift cable set is crucial for optimal shifting performance. If you are unsure about any step, it is recommended to consult a professional bicycle mechanic.

Required Tools:

- Cable cutters (specifically designed for bicycle cables and housing)
- Hex wrenches (for derailleur and shifter bolts)
- Pliers (optional, for pulling cable taut)

Installation Steps:

1. **Remove Old Cable and Housing:** Shift the rear derailleur to the highest gear (smallest cog). Loosen the cable anchor bolt on the rear derailleur and pull the old inner cable out of the shifter. Remove the old housing from the frame and shifter.
2. **Measure and Cut New Housing:** Route the new OT-SP41 housing along the frame, ensuring smooth bends and no sharp angles. Measure the required length, allowing for sufficient slack for handlebar movement and suspension travel (if applicable). Cut the housing cleanly using proper cable cutters to prevent crushing.
3. **Install Housing End Caps:** Place the appropriate end caps onto the freshly cut ends of the housing. Ensure they fit snugly.
4. **Insert Inner Cable:** Feed the new stainless steel inner cable through the shifter mechanism. Ensure the cable head seats correctly in the shifter.
5. **Route Cable and Housing:** Route the inner cable through the housing sections and any frame guides. Ensure the housing is properly seated in all stops.
6. **Attach to Rear Derailleur:** Feed the inner cable through the cable anchor bolt on the rear derailleur. Pull the cable taut by hand, then tighten the anchor bolt to secure it. Do not overtighten.
7. **Adjust Shifting:** Perform initial shifting adjustments. Use the barrel adjuster on the rear derailleur or shifter to fine-tune cable tension until shifting is smooth and precise across all gears.
8. **Cut Excess Cable and Crimp:** Once shifting is satisfactory, cut the excess inner cable approximately 2-3 cm (1 inch) beyond the anchor bolt. Install a cable crimp onto the end of the inner cable to prevent fraying.

Note: For detailed instructions specific to your shifter and derailleur model, refer to the respective component manuals or consult a professional.

4. OPERATING INSTRUCTIONS

Once installed and properly adjusted, the SHIMANO OT-SP41 Shift Cable Set will facilitate smooth and responsive gear changes. Operate your shifters as usual, and the low-friction design of the cable and housing will ensure efficient power transfer from your shifter to the rear derailleur, resulting in quick and accurate shifts.

5. MAINTENANCE

Regular maintenance helps prolong the life and performance of your shift cable set:

- **Inspection:** Periodically inspect the inner cable for fraying, especially near the shifter and derailleur anchor points. Check the housing for cracks, kinks, or damage.
- **Cleaning:** Keep the exterior of the housing clean. While the OT-SP41 housing is designed for low friction, excessive dirt can still affect performance.
- **Lubrication:** The OT-SP41 housing is pre-lubricated internally. Avoid applying external lubricants directly into the housing, as this can attract dirt and degrade performance.
- **Replacement:** Shift cables and housing are wear items. Replace them if you notice significant friction, sluggish shifting, or visible damage. The lifespan depends on riding conditions and frequency of use.

6. TROUBLESHOOTING

If you experience issues with your shifting, consider the following:

- **Sluggish or Delayed Shifting:**
 - Check cable tension. Adjust the barrel adjuster to increase tension (turn counter-clockwise) if shifting to smaller cogs is slow, or decrease tension (turn clockwise) if shifting to larger cogs is slow.
 - Inspect cable and housing for kinks, fraying, or excessive dirt. Replace if damaged.
 - Ensure housing end caps are fully seated.
- **Ghost Shifting (unintended gear changes):**

- This often indicates incorrect cable tension. Re-adjust using the barrel adjuster.
- Check for a bent derailleur hanger.

- **Difficulty Shifting into Certain Gears:**

- Verify cable tension.
- Check limit screw adjustments on the rear derailleur.
- Ensure the inner cable is not frayed or sticking inside the housing.

If problems persist after basic troubleshooting, it is advisable to seek assistance from a qualified bicycle mechanic.

7. SPECIFICATIONS

Brand	SHIMANO
Model Number	Y60098023
Material (Inner Cable)	Stainless Steel
Material (Housing)	Multi (OT-SP41)
Color	Black
Compatibility	Rear Derailleur Systems (OT-SP41 housing compatible)
Included Components	Shift Cable and Housing Sets
Item Weight	1.4 Pounds (approximate, for the set)

8. WARRANTY INFORMATION

This SHIMANO product is covered by a **Limited Warranty**. For specific terms, conditions, and duration of the warranty, please refer to the official SHIMANO warranty documentation provided with your purchase or visit the official SHIMANO website. The warranty typically covers manufacturing defects but does not cover normal wear and tear, improper installation, or damage due to misuse or accidents.

9. SUPPORT AND CONTACT

For further assistance, technical support, or inquiries regarding your SHIMANO OT-SP41 Shift Cable Set, please visit the official SHIMANO website or contact their customer service department. You can typically find contact information and support resources on the SHIMANO global or regional websites.

Official SHIMANO Website: bike.shimano.com

