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SHIMANO ST-EF65

Shimano ST-EF65 Shift/Brake Set Instruction Manual

Model: ST-EF65 (3x7 Speed)

INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of your Shimano ST-EF65 Shift/Brake Set. This integrated unit combines a gear shifter and a brake lever, designed for 3x7 speed bicycle drivetrains. Adhering to these instructions will ensure optimal performance and longevity of your components.

SAFETY INFORMATION

- Always wear appropriate safety gear, including gloves and eye protection, when installing or maintaining bicycle components.
- Ensure all bolts and fasteners are tightened to the manufacturer's specified torque settings. Overtightening or undertightening can lead to component failure.
- Incorrect installation or adjustment of brake and shift components can result in loss of control, leading to serious injury. If you are unsure about any step, consult a professional bicycle mechanic.
- Regularly inspect cables and housing for wear, fraying, or damage. Replace them immediately if any damage is observed.

PACKAGE CONTENTS

The Shimano ST-EF65 Shift/Brake Set typically includes the following components:

- Left Shift/Brake Lever Unit (for front derailleur, 3 speeds)
- Right Shift/Brake Lever Unit (for rear derailleur, 7 speeds)
- Shifter Cables (inner wires)
- Brake Cables (inner wires)
- Shifter Cable Housing
- Brake Cable Housing
- Cable End Caps and Ferrules



This image displays the complete Shimano ST-EF65 Shift/Brake Set. It features two black integrated shifter and brake lever units, designed for the left and right sides of a bicycle handlebar. Below these units, a coiled set of black cable housing and silver inner cables for both shifting and braking are visible, along with small metal end caps.

SETUP AND INSTALLATION

1. Mounting the Shift/Brake Levers

1. Position the left and right shift/brake lever units on your bicycle handlebars. Ensure they are placed comfortably for easy reach of both the brake levers and shifter paddles.
2. Tighten the clamp bolts securely. Do not overtighten. Refer to your bicycle's handlebar specifications for recommended torque.

2. Cable Routing and Cutting

- Route the shifter and brake cables through the appropriate guides on your bicycle frame. Ensure smooth, unhindered paths for the cables.
- Measure and cut the cable housing to the correct lengths. Use a specialized cable cutter or a rotary tool (such as a Dremel with a cut-off wheel) to ensure clean, unfrayed cuts. Clean the ends of the housing to prevent internal friction.
- Install ferrules on the ends of the cable housing.

3. Connecting Brake Cables

1. Insert the brake inner wire through the brake lever unit and housing.
2. Attach the brake cable to your V-brakes or cantilever brakes according to the brake manufacturer's instructions.
3. Adjust the brake lever reach if necessary. The ST-EF65 features adjustable brake lever reach.
4. **Brake Type Compatibility:** The ST-EF65 is compatible with both V-brakes and cantilever brakes. An internal adjustment mechanism within the lever allows switching between brake types. Refer to the detailed diagram or instructions provided with the product for this specific adjustment.

4. Connecting Shifter Cables

1. Insert the shifter inner wire through the shifter unit and housing.
2. Attach the front shifter cable to your front derailleur and the rear shifter cable to your rear derailleur.
3. Adjust the derailleur limits and cable tension according to the derailleur manufacturer's instructions. This is crucial for precise shifting.

OPERATING INSTRUCTIONS

Shifting Gears

- The ST-EF65 uses a trigger-style shifting mechanism.

- To shift to a **larger gear (harder pedaling)**, press the larger lever with your thumb.
- To shift to a **smaller gear (easier pedaling)**, pull the smaller lever with your index finger.
- The integrated **optical gear display** window provides a visual indication of the current gear selection.
- Always shift gears while pedaling forward with light pressure to ensure smooth transitions. Avoid shifting under heavy load.

Braking

- Squeeze the brake levers towards the handlebar to engage the brakes.
- Apply both front and rear brakes simultaneously for controlled stopping.
- Adjust brake lever reach for comfortable and effective braking.

MAINTENANCE

- **Cleaning:** Keep the shift/brake levers clean from dirt and debris. Use a damp cloth and mild soap if necessary. Avoid high-pressure washing directly on the components.
- **Cable Lubrication:** Periodically apply a small amount of bicycle-specific cable lubricant to the inner wires where they enter the housing. This reduces friction and improves shifting/braking performance.
- **Cable and Housing Inspection:** Regularly check shifter and brake cables and housing for signs of wear, fraying, kinks, or corrosion. Replace damaged cables and housing promptly to maintain safety and performance.
- **Brake Pad Inspection:** Inspect your brake pads regularly for wear. Replace them before they wear past their wear indicators to ensure effective braking.
- **Bolt Tightness:** Periodically check the tightness of all mounting bolts on the shift/brake levers and brake calipers/cantilevers.

TROUBLESHOOTING

Shifting Issues

- **Gears not shifting smoothly or skipping:** Check cable tension. Too loose or too tight can cause issues. Adjust the barrel adjuster on the shifter or derailleur. Ensure derailleur limit screws are correctly set. Inspect cables and housing for friction or damage.
- **Shifter not engaging:** Check for debris obstructing the shifting mechanism. Ensure the cable is properly seated in the shifter.

Braking Issues

- **Weak braking power:** Check brake pad wear and alignment. Ensure brake cables are properly tensioned and free of friction. Verify the brake type adjustment within the lever is correct (V-brake vs. cantilever).
- **Spongy brake feel:** This often indicates excessive cable friction or improper cable routing. Inspect housing for kinks or damage.
- **Brakes rubbing:** Check brake caliper/cantilever alignment. Ensure brake levers return fully to their resting position.

SPECIFICATIONS

Model Number	ST-EF65
Speed Compatibility	Front: 3-speed, Rear: 7-speed
Brake Compatibility	V-Brake, Cantilever Brake (adjustable)

Material	Lever Body: Aluminum, Handle: Plastic
Features	Optical Gear Display, Adjustable Brake Lever Reach
Approximate Weight	2 Pounds (complete set)

WARRANTY AND SUPPORT

For warranty information and detailed support, please refer to the official Shimano website or contact your authorized Shimano dealer. Keep your proof of purchase for any warranty claims.

Official Shimano Website: bike.shimano.com