

SHIMANO FC-T4060

Shimano Alivio FC-T4060 Crankset Instruction Manual

Model: FC-T4060

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1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Shimano Alivio FC-T4060 crankset. The FC-T4060 is a 9-speed, triple chainring crankset designed for mountain biking and trekking, featuring a Hollowtech II spindle interface for enhanced rigidity and reduced weight. Please read this manual thoroughly before attempting any installation or adjustment.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to your bicycle components:

- **Professional Installation Recommended:** Bicycle component installation can be complex. If you are unsure about any step, consult a professional bicycle mechanic.
- **Use Correct Tools:** Always use the appropriate tools for installation and maintenance. Incorrect tools can damage components.
- **Torque Specifications:** Adhere strictly to all torque specifications provided in the detailed dealer manual or on the components themselves. Overtightening or undertightening can lead to component failure.
- **Regular Inspection:** Periodically inspect your crankset and chainrings for cracks, bends, or excessive wear. Replace worn or damaged parts immediately.
- **Cleanliness:** Keep the crankset and surrounding drivetrain components clean to ensure optimal performance and longevity.

3. SETUP & INSTALLATION

The Shimano Alivio FC-T4060 crankset utilizes the Hollowtech II system, which requires an external bottom

bracket (not included). For detailed, step-by-step installation instructions, refer to the official Shimano dealer manual for the FC-T4060 series, which can be found on the Shimano technical documentation website.

3.1. Components Overview



This image displays the Shimano Alivio FC-T4060 crankset, featuring its triple chainring configuration (44/32/22t) and the integrated right crank arm. The Hollowtech II design is visible, indicating a lightweight and rigid construction. The crankset is black with the 'Shimano ALIVIO' logo.

3.2. Pre-Installation Checks

- Ensure your bicycle frame has a compatible bottom bracket shell for Hollowtech II external bottom brackets.
- Confirm you have the correct bottom bracket for your frame width (e.g., 68mm or 73mm).
- Gather all necessary tools, including a bottom bracket tool, torque wrench, and hex keys.

3.3. Installation Steps (Summary)

1. Install the external bottom bracket cups into the frame, ensuring proper grease application and torque.
2. Insert the right crank arm with integrated spindle through the bottom bracket.
3. Install the left crank arm onto the spindle, aligning the splines.
4. Tighten the two pinch bolts on the left crank arm alternately and incrementally to the specified torque.

5. Install the crank arm fixing screw (preload cap) using the appropriate tool. This cap sets the bearing preload and should be tightened lightly before the pinch bolts are fully torqued.
6. Verify that the crankset rotates smoothly without play.

Note: Some users have reported issues with the crank arm fixing screw. Ensure it is present and correctly installed to prevent loosening of the left crank arm.

4. OPERATION

The Shimano Alivio FC-T4060 crankset is designed for smooth and efficient power transfer. Proper operation involves understanding your bicycle's gearing system.

- **Shifting:** Use your front derailleur to shift between the three chainrings (44t, 32t, 22t). Shift smoothly and avoid excessive force.
- **Chainline:** Maintain an optimal chainline to minimize wear and improve shifting performance. Avoid extreme cross-chaining (e.g., largest chainring with largest rear cog, or smallest chainring with smallest rear cog).
- **Pedaling:** Apply consistent pressure to the pedals. The rigid Hollowtech II design ensures efficient power transfer from your legs to the drivetrain.

5. MAINTENANCE

Regular maintenance extends the life and performance of your crankset.

- **Cleaning:** After each ride, especially in wet or dirty conditions, clean the chainrings and crank arms. Use a mild degreaser and a brush, then rinse and dry thoroughly.
- **Lubrication:** Ensure your chain is regularly cleaned and lubricated. A well-lubricated chain reduces wear on the chainrings.
- **Bolt Torque Check:** Periodically check the torque of the left crank arm pinch bolts and the crank arm fixing screw. Refer to Shimano's technical documentation for specific torque values.
- **Wear Inspection:** Inspect chainrings for bent teeth, excessive wear (shark-finning), or cracks. Replace chainrings as needed. Inspect crank arms for any signs of damage or fatigue.
- **Bottom Bracket:** Check the bottom bracket for smooth rotation and absence of play. Replace if grinding or excessive play is detected.

6. TROUBLESHOOTING

Here are some common issues and potential solutions. For complex problems, consult a professional bicycle mechanic.

- **Crank Arm Looseness:** If a crank arm feels loose, check the torque of the pinch bolts and the crank arm fixing screw on the left crank arm. Ensure the fixing screw is properly installed before tightening the pinch bolts.
- **Creaking Noise:** Creaking can originate from various parts. Check if the bottom bracket cups are properly torqued, if the crank arms are securely fastened, and if the chainring bolts are tight. A worn bottom bracket can also cause creaking.
- **Poor Shifting Performance:** Ensure your front derailleur is correctly adjusted. Check for bent chainring teeth or a worn chain. A dirty or poorly lubricated chain can also affect shifting.
- **Chain Dropping:** This often indicates a misaligned front derailleur, worn chainrings, or an incorrect chainline.
- **Crank Arm Snapped:** If a crank arm snaps, it indicates a critical failure. Immediately cease use of the

bicycle and replace the entire crankset. This can be a safety hazard.

7. SPECIFICATIONS

Feature	Specification
Model Number	FC-T4060
Brand	SHIMANO
Speed Compatibility	9-Speed
Chainring Configuration	Triple (44/32/22t)
BCD (Bolt Circle Diameter)	104/64 BCD
Crank Arm Length	175mm
Spindle Interface	Hollowtech II
Material	Aluminum
Color	Black
Bottom Bracket	Not included (Requires Hollowtech II external BB)
Approx. Package Weight	1.88 Kilograms

8. WARRANTY & SUPPORT

8.1. Manufacturer's Warranty

Shimano products are covered by a limited warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and product. Please retain your proof of purchase. For complete warranty details, refer to the official Shimano website or contact your local Shimano distributor.

8.2. Customer Support

For technical assistance, spare parts, or service, please contact your authorized Shimano dealer or visit the official Shimano website for support resources and contact information. Always provide your product model number (FC-T4060) when seeking support.

Shimano Official Website: bike.shimano.com