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SHIMANO TL-FC38

SHIMANO TL-FC38 Chainring Mounting/Removal Tool User Manual

Model: TL-FC38 (YEZY00010)

1. Introduction

This manual provides instructions for the proper use and maintenance of the SHIMANO TL-FC38 Chainring Mounting/Removal Tool. This specialized adapter tool is designed for installing and removing chainrings on SHIMANO STEPS DU-E6000 and DU-E6001 e-bike drive units. Adhering to these instructions will ensure safe operation, prolong the tool's lifespan, and prevent damage to your bicycle components.

2. Safety Information

Always prioritize safety when working on bicycles. Failure to follow these safety guidelines may result in injury or damage to components.

- **Read the entire manual:** Understand all instructions before using the tool.
- **Wear appropriate safety gear:** Eye protection and gloves are recommended.
- **Use the correct tool for the job:** The TL-FC38 is specifically for SHIMANO STEPS DU-E6000 and DU-E6001 chainrings. Do not use it for other applications.
- **Ensure stability:** Secure the bicycle in a work stand before performing any maintenance.
- **Apply correct torque:** Always refer to the bicycle or component manufacturer's specifications for torque values. Overtightening or undertightening can cause damage.
- **Keep out of reach of children:** This tool is not a toy.

3. Product Components

The SHIMANO TL-FC38 tool package includes:

- 1 x SHIMANO TL-FC38 Chainring Mounting/Removal Tool

Note: Additional tools such as a torque wrench, a 32mm open-end wrench (or equivalent), and a chainring lockring tool (if

applicable to your specific chainring system) are required and sold separately.



Figure 1: Front view of the SHIMANO TL-FC38 Chainring Mounting/Removal Tool. This image shows the tool's cylindrical shape and the internal splines designed to engage with the chainring lockring on SHIMANO STEPS DU-E6000 and DU-E6001 drive units.



Figure 2: Angled view of the SHIMANO TL-FC38 Chainring Mounting/Removal Tool. This perspective highlights the external flats for wrench engagement and the internal splines for securing the chainring lockring.

4. Setup

Before using the TL-FC38 tool, ensure you have the following:

- A clean and stable work area.
- A bicycle work stand to secure the e-bike.
- A 32mm open-end wrench, large adjustable wrench, or a compatible cassette tool wrench.
- A torque wrench (recommended for precise installation).
- The SHIMANO STEPS DU-E6000 or DU-E6001 drive unit with the chainring to be serviced.

- Appropriate grease for threads (if reinstalling).

5. Operating Instructions

5.1. Chainring Removal

1. **Prepare the bicycle:** Secure the e-bike in a work stand. Shift the chain to the smallest cog on the rear cassette.
2. **Remove the crank arm:** Follow the manufacturer's instructions to remove the right-side crank arm from the drive unit.
3. **Position the TL-FC38 tool:** Carefully slide the TL-FC38 tool over the chainring lockring, ensuring the internal splines of the tool fully engage with the external splines of the lockring.
4. **Attach the wrench:** Place your 32mm wrench (or compatible tool) onto the external flats of the TL-FC38 tool.
5. **Loosen the lockring:** Turn the wrench **counter-clockwise** to loosen the chainring lockring. Apply steady, firm pressure. The lockring may be tight.
6. **Remove components:** Once loose, unscrew the lockring by hand and carefully remove the chainring from the drive unit.

5.2. Chainring Installation

1. **Prepare components:** Ensure the drive unit and new chainring are clean. Apply a thin layer of appropriate grease to the threads of the chainring lockring (if recommended by the manufacturer).
2. **Install the chainring:** Carefully place the new chainring onto the drive unit, ensuring it seats correctly.
3. **Thread the lockring:** Hand-thread the chainring lockring onto the drive unit spindle. Ensure it threads smoothly without cross-threading.
4. **Position the TL-FC38 tool:** Slide the TL-FC38 tool over the chainring lockring, ensuring full engagement of the splines.
5. **Attach the torque wrench:** Place your torque wrench (with a 32mm socket or adapter) onto the external flats of the TL-FC38 tool.
6. **Tighten the lockring:** Tighten the lockring by turning **clockwise** to the manufacturer's specified torque value. Refer to the SHIMANO STEPS dealer manual for the exact torque specification (typically around 30-50 Nm, but always verify).
7. **Reinstall crank arm:** Reinstall the right-side crank arm according to the manufacturer's instructions, tightening to the specified torque.

6. Maintenance

Proper maintenance will extend the life of your TL-FC38 tool:

- **Cleaning:** After each use, wipe the tool clean with a dry cloth to remove any grease, dirt, or debris.
- **Storage:** Store the tool in a dry place, away from direct sunlight and moisture, to prevent corrosion.
- **Inspection:** Periodically inspect the tool for any signs of wear, damage, or deformation. Discontinue use if the splines appear worn or damaged, as this could lead to slippage and damage to the chainring lockring.

7. Troubleshooting

If you encounter issues while using the TL-FC38 tool, consider the following:

- **Tool does not fit:**
  - Ensure you are working with a SHIMANO STEPS DU-E6000 or DU-E6001 drive unit. This tool is not compatible

with other systems.
    - Verify that the tool's internal splines are correctly aligned and fully engaged with the chainring lockring.
- **Lockring is too tight to loosen:**
    - Ensure the bicycle is securely mounted in a work stand.
    - Use a longer wrench for increased leverage, or a breaker bar if necessary.
    - Apply penetrating oil to the threads and allow it to soak for some time before attempting again.
    - Ensure you are turning the lockring **counter-clockwise** for removal.
- **Tool slips:**
    - Ensure the tool is fully seated and engaged with the lockring.
    - Check for wear on the tool's splines or the lockring's splines. Replace worn components.
    - Apply firm, steady pressure to the wrench, keeping it perpendicular to the tool.

8. Specifications

Attribute	Detail
Brand	SHIMANO
Model Number	TL-FC38 (YEZY00010)
Compatibility	SHIMANO STEPS DU-E6000 and DU-E6001 Drive Units (Chainring Lockring)
Material	Multi (Durable materials)
Item Length	9.5 Inches
Item Weight	4.8 ounces
UPC	689228903425

9. Warranty Information

SHIMANO products are typically covered by a limited warranty against defects in materials and workmanship. For specific warranty terms, conditions, and duration applicable to the TL-FC38 tool, please refer to the official SHIMANO website or contact an authorized SHIMANO dealer. Keep your proof of purchase for warranty claims.

10. Support

For further assistance, technical support, or inquiries regarding the SHIMANO TL-FC38 tool, please contact:

- **SHIMANO Official Website:** bike.shimano.com
- **Authorized SHIMANO Dealers:** Visit your local authorized SHIMANO dealer for professional service and advice.
- **Customer Service:** Refer to the contact section of the official SHIMANO website for regional customer service contact details.

11. Official Product Videos

No official product videos from the seller were available for embedding at this time. For visual guides, please refer to the official SHIMANO website or authorized service channels.

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