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SHIMANO FD-4700

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Model: FD-4700

1. INTRODUCTION

This manual provides detailed instructions for the proper installation, adjustment, operation, and maintenance of your Shimano Tiagra FD-4700 10-speed front derailleur. Adhering to these guidelines will ensure optimal performance, safety, and longevity of the component. Please read this manual thoroughly before attempting any installation or adjustment.

2. SAFETY INFORMATION

Always wear appropriate safety gear, including eye protection, when working on your bicycle. Ensure your bicycle is securely mounted in a repair stand before beginning any work. Incorrect installation or adjustment can lead to component failure, loss of control, and serious injury. If you are unsure about any step, consult a professional bicycle mechanic.

- Use only genuine Shimano parts and recommended tools.
- Do not modify the derailleur or its components.
- Keep hands and clothing clear of moving parts during operation and adjustment.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- Shimano Tiagra FD-4700 Front Derailleur (Clamp-On Mount)
- Instruction Manual (this document)

Note: Mounting hardware may vary or be integrated.

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance of your front derailleur. This section outlines the steps for mounting and initial cable routing.

4.1 Component Overview



A close-up view of the Shimano Tiagra FD-4700 front derailleur, featuring its black and silver aluminum construction and the 'Tiagra' branding on the cage. This image shows the component from a front-side angle, highlighting its design for double chainring systems.

4.2 Mounting the Derailleur

1. **Prepare the Seat Tube:** Ensure the seat tube area where the derailleur will be mounted is clean and free of debris.
2. **Position the Derailleur:** Place the derailleur clamp around the seat tube. The outer plate of the derailleur cage should be parallel to the largest chainring. The bottom of the outer cage plate should be positioned 1-3 mm above the teeth of the largest chainring.

3. **Tighten the Clamp:** Securely tighten the derailleur clamp bolt to the manufacturer's specified torque (refer to Shimano's official dealer manual for precise torque values). Do not overtighten.

4.3 Cable Routing

1. **Route the Cable:** Guide the shift cable from the shifter through the frame's cable guides to the front derailleur.
2. **Attach the Cable:** Pass the cable through the cable fixing bolt on the derailleur. Ensure the cable is routed correctly according to the derailleur's design (e.g., top-pull or down-pull, if applicable, though FD-4700 is typically down-pull).
3. **Initial Tension:** Pull the cable taut by hand and tighten the cable fixing bolt. Do not apply excessive tension at this stage.

5. OPERATING AND ADJUSTMENT

After installation, fine-tuning the derailleur is essential for smooth and reliable shifting.

5.1 Low Limit Adjustment (L-Screw)

1. Shift the rear derailleur to the largest cog and the front derailleur to the smallest chainring.
2. Turn the crank arm slowly. Adjust the L-screw (low limit screw) until there is a 0.5-1 mm gap between the inner plate of the derailleur cage and the chain.

5.2 Cable Tension Adjustment

1. Shift the front derailleur to the largest chainring.
2. If the chain does not shift smoothly to the largest chainring, increase cable tension by turning the barrel adjuster counter-clockwise. If shifting is difficult, decrease tension by turning it clockwise.
3. Fine-tune until shifting is crisp and consistent.

5.3 High Limit Adjustment (H-Screw)

1. Shift the rear derailleur to the smallest cog and the front derailleur to the largest chainring.
2. Turn the crank arm slowly. Adjust the H-screw (high limit screw) until there is a 0.5-1 mm gap between the outer plate of the derailleur cage and the chain.

5.4 Trim Adjustment

The Tiagra FD-4700 may feature trim positions to prevent chain rub in certain gear combinations. Consult your shifter's manual for specific trim operation instructions.

6. MAINTENANCE

Regular maintenance ensures the longevity and performance of your front derailleur.

- **Cleaning:** Periodically clean the derailleur cage and body with a mild degreaser and brush. Rinse thoroughly and dry.
- **Lubrication:** Apply a light lubricant to the pivot points of the derailleur and the shift cable where it enters the housing. Avoid over-lubrication, which can attract dirt.
- **Inspection:** Regularly check for any signs of wear, damage, or loose bolts. Ensure the derailleur cage is not bent. Replace worn or damaged components immediately.

7. TROUBLESHOOTING

Common issues and their potential solutions:

Problem	Possible Cause	Solution
Slow or difficult shifting	Incorrect cable tension, dirty/worn cable/housing, bent derailleur cage	Adjust cable tension, replace cable/housing, inspect/replace derailleur
Chain rubs on derailleur cage	Incorrect limit screw adjustment, bent derailleur cage, incorrect derailleur height/angle	Adjust L/H screws, inspect/replace derailleur, re-position derailleur
Chain drops off chainring	Incorrect limit screw adjustment, worn chainrings/chain	Adjust L/H screws, inspect/replace chainrings/chain

8. SPECIFICATIONS

Feature	Specification
Brand	SHIMANO
Model Number	FD-4700 (Manufacturer Part Number: IFD4700BL)
Series	Tiagra 4700
Speeds	10-speed
Chainring Compatibility	Double
Mounting Type	Clamp-On Mount (34.9mm)
Material	Aluminum
Color	Black
UPC	689228329966
GTIN	689228329966

9. WARRANTY AND SUPPORT

Shimano products are covered by a limited warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the official Shimano website or contact your authorized Shimano dealer. For technical support or service, please contact an authorized Shimano service center or a professional bicycle mechanic.