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## MotorGuide 921310170

# MotorGuide FW54FB 50" 12V FLXMT Foot Control Bow Mount

## INSTRUCTION MANUAL

### Introduction

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This manual provides essential information for the proper installation, operation, and maintenance of your MotorGuide FW54FB 50" 12V FLXMT Foot Control Bow Mount trolling motor. Designed for freshwater use, this motor offers reliable performance with its durable construction and precise foot control.

Key features include 54 pounds of thrust, a 50-inch shaft, 12-volt power compatibility, and a responsive foot control system. Please read this manual thoroughly before using your trolling motor to ensure safe and efficient operation.

### Product Overview

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*Image: The MotorGuide FW54FB trolling motor, featuring a black motor unit, a long silver shaft, a black bow mount assembly, and a black foot control pedal connected by a cable. This image illustrates the complete trolling motor system.*

The MotorGuide FW54FB is a bow-mounted trolling motor designed for freshwater applications. It consists of a motor unit with a propeller, a durable shaft, a flexible bow mount system, and a foot control pedal for hands-free operation. The foot control allows for precise steering and speed adjustments, enhancing maneuverability on the water.

### Setup and Installation

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## 1. Mounting the Trolling Motor

The FW54FB is designed for bow mounting. Ensure the mounting surface on your boat is flat, strong, and provides adequate clearance for deployment and stowing. Use stainless steel hardware (not included) to secure the mount base to the boat's bow. Position the mount so the motor shaft clears the boat's gunwale when deployed.

- Place the mount base on the desired location.
- Mark and drill pilot holes for the mounting bolts.
- Secure the mount using appropriate bolts, washers, and nuts.
- Ensure the mount is level and securely fastened to prevent movement during operation.

## 2. Electrical Connection

This motor operates on a 12-volt DC system. Proper wiring is crucial for performance and safety. Connect the motor's power leads directly to a dedicated 12-volt deep cycle marine battery. Use appropriate gauge marine-grade wire and ensure all connections are clean, tight, and corrosion-free.

- Connect the positive (+) red wire from the motor to the positive (+) terminal of the battery.
- Connect the negative (-) black wire from the motor to the negative (-) terminal of the battery.
- Install an appropriate circuit breaker or fuse (recommended 50A) in the positive line, close to the battery, to protect the system.
- Ensure the battery is fully charged before initial use.

## 3. Propeller Installation

The Machete III propeller is designed for weed-free operation. Install it securely before first use.

1. Align the propeller with the drive pin on the motor shaft.
2. Slide the propeller onto the shaft until it seats against the drive pin.
3. Install the washer and propeller nut.
4. Tighten the propeller nut firmly with a wrench, but do not overtighten.

## Operating Instructions

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### 1. Deployment and Stowing

- **Deployment:** Release the motor from its stowed position. Gently lower the motor unit into the water until the propeller is fully submerged. Ensure the shaft is locked in the desired depth.
- **Stowing:** Lift the motor unit out of the water. Secure it in the stowed position on the bow mount. Ensure the motor is fully secured before moving the boat.

### 2. Foot Control Operation

The foot control pedal provides hands-free steering and speed adjustment.

- **Steering:** Press the toe end of the pedal to turn the motor to the right. Press the heel end of the pedal to turn the motor to the left.
- **Speed Control:** The pedal features a rotary speed control knob. Rotate the knob clockwise to increase speed and counter-clockwise to decrease speed. The FW54FB features 5-speed technology.
- **Momentary/Constant Switch:** Some models may have a switch to toggle between momentary (motor runs only while pedal is pressed) and constant (motor runs continuously at set speed) operation. Refer to your specific model's features.

### 3. Directional Indicator

The illuminated directional indicator on the motor head provides visual feedback on the motor's direction, especially useful

during low-light conditions or night fishing.

## Maintenance

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Regular maintenance ensures the longevity and optimal performance of your trolling motor.

- **After Each Use:** Rinse the motor unit and shaft with fresh water, especially after use in brackish or dirty water. Wipe down all components to remove dirt and debris.
- **Propeller Inspection:** Periodically check the propeller for fishing line, weeds, or damage. Remove any obstructions. Replace bent or chipped propellers to maintain efficiency and prevent vibration.
- **Electrical Connections:** Regularly inspect all electrical connections for corrosion, looseness, or damage. Clean terminals with a wire brush and apply dielectric grease to prevent corrosion.
- **Shaft and Mount:** Inspect the shaft for bends or damage. Check the bow mount for loose fasteners or signs of wear. Lubricate pivot points on the mount with a marine-grade lubricant as needed.
- **Battery Care:** Keep your deep cycle marine battery charged. Store batteries in a cool, dry place when not in use.

## Troubleshooting

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Problem	Possible Cause	Solution
Motor does not run.	No power to motor; Blown fuse/tripped breaker; Loose electrical connection; Dead battery.	Check battery connections; Inspect fuse/breaker; Charge battery.
Low thrust or poor performance.	Weeds/fishing line on propeller; Damaged propeller; Low battery charge.	Clear propeller; Replace propeller; Recharge battery.
Excessive vibration or noise.	Bent or damaged propeller; Loose propeller nut.	Inspect and replace propeller if damaged; Tighten propeller nut.
Foot control unresponsive.	Cable damage; Internal wiring issue.	Inspect cable for kinks or damage; Contact authorized service center if issue persists.

If troubleshooting steps do not resolve the issue, contact MotorGuide customer support or an authorized service center.

## Specifications

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Feature	Detail
Brand	MotorGuide
Model Number	921310170 (FW54FB)
Thrust	54 lbs
Voltage	12V DC
Shaft Length	50 inches
Mount Type	Bow Mount (Flexible)
Control Type	Foot Control (Rack-and-Pinion)

Feature	Detail
Speed Settings	5-speed
Propeller	3-blade, weed-free Machete III

## Warranty Information

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MotorGuide products are manufactured to high-quality standards and come with a limited warranty. For specific warranty terms, conditions, and registration details, please refer to the warranty card included with your product or visit the official MotorGuide website. Keep your proof of purchase for warranty claims.

## Support and Contact

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For technical assistance, parts, or service inquiries, please contact MotorGuide customer support. You can find contact information on the official MotorGuide website or through your authorized dealer. When contacting support, please have your product model number (FW54FB) and serial number ready.