

Bennett Marine BOLT1212 (FO4321)

Bennett Marine Bolt Electric Trim Tab System 12" x 12" Instruction Manual

Model: BOLT1212 (FO4321)

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Bennett Marine Bolt Electric Trim Tab System. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product. This system is designed to enhance boat performance by allowing precise control over the vessel's running attitude.

PRODUCT COMPONENTS

The Bennett Marine Bolt Electric Trim Tab System BOLT1212 includes the following components:

- Two (2) Bolt Electric Actuators with 6-foot wire harnesses and waterproof connectors (Mfg. PN# BEA3000).
- Two (2) Stainless Steel Trim Tabs and mounting plates, 12" x 12".
- One (1) Electric Integrated Helm Control (Mfg. PN# OBI9000E).
- Two (2) 20-foot Actuator Wire Harnesses with waterproof connectors (Mfg# BAW2020).
- Mounting Hardware (screws, nuts, washers, brackets).



Figure 1: Overview of the Bennett Marine Bolt Electric Trim Tab System components, including actuators, trim tabs, helm control, and wiring.

BOLT ELECTRIC Bolt1212 TRIM TAB

COMPLETE KIT

20-ft. wire harnesses with connectors included



Includes Integrated Helm Control

2 Actuators with 6Ft wire harnesses

2 Trim Tabs and mounting plates 12" x 12"



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Figure 2: Detailed view of the system components, highlighting the 20-ft wire harnesses, integrated helm control, actuators, and 12"x12" trim tabs.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. It is recommended that installation be performed by a qualified marine technician. Refer to the detailed diagrams and instructions provided in the packaging for specific mounting locations and wiring schematics.

1. Mounting the Trim Tabs and Actuators

- Trim Tab Placement:** Position the 12"x12" stainless steel trim tabs on the transom, ensuring they are parallel to the waterline and clear of any obstructions.
- Actuator Mounting:** The Bolt Electric Actuators feature an adjustable upper hinge. Mount the actuators to the trim tabs and transom according to the provided templates. Ensure the actuators are securely fastened to withstand marine conditions.



BEA3000
13-3/4 INCH
(2.5 INCH STROKE)



ADJUSTABLE UPPER HINGE

FO4321

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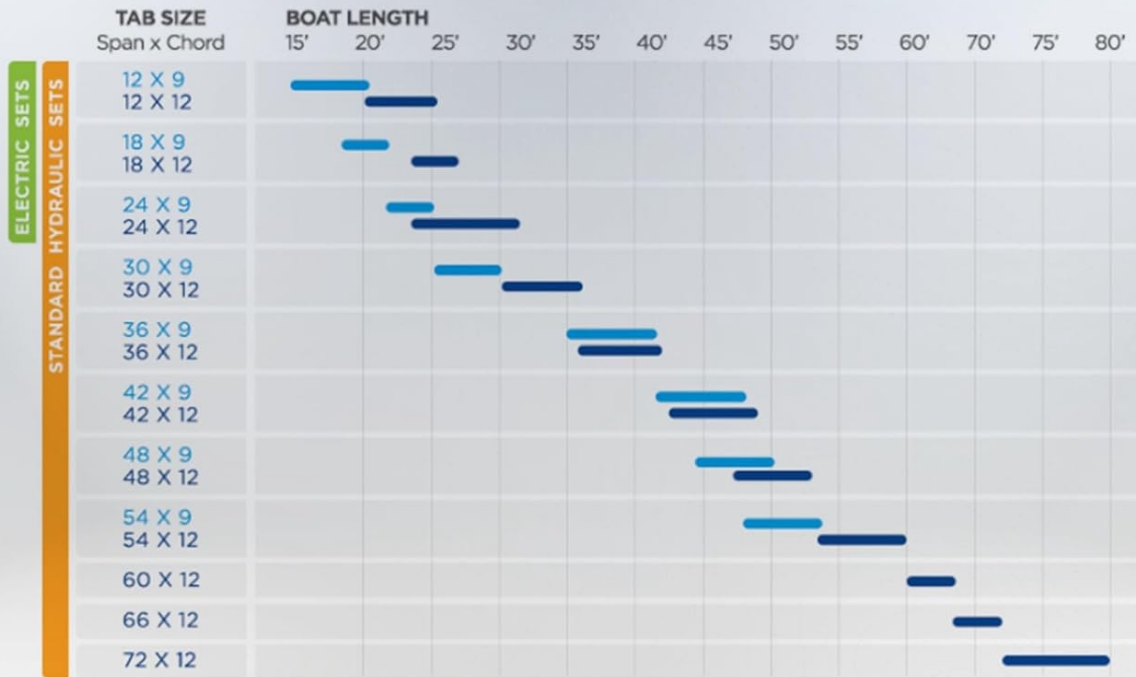
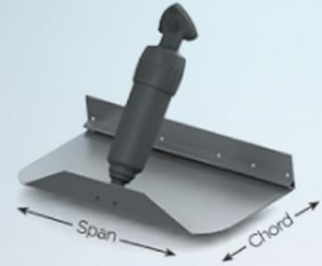
Figure 3: Close-up of the BEA3000 electric actuator, highlighting its 13-3/4 inch length (2.5 inch stroke) and adjustable upper hinge for flexible installation.



The choice in tab size will be unique the vessel, it's use, and available transom space. Although the chart below is not intended to be precise, we recommend the following general guidelines. Whatever your specific need or situation, we're happy to help. Call us at (954) 427-1400.

Note: SLT, Sport, Performance and Premier standard sets offer only fixed tab sizes.

● 9" Chord ● 12" Chord



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Figure 4: Chart illustrating recommended trim tab sizes (Span x Chord) for various boat lengths, for both electric and standard hydraulic sets. This system uses 12"x12" electric tabs.

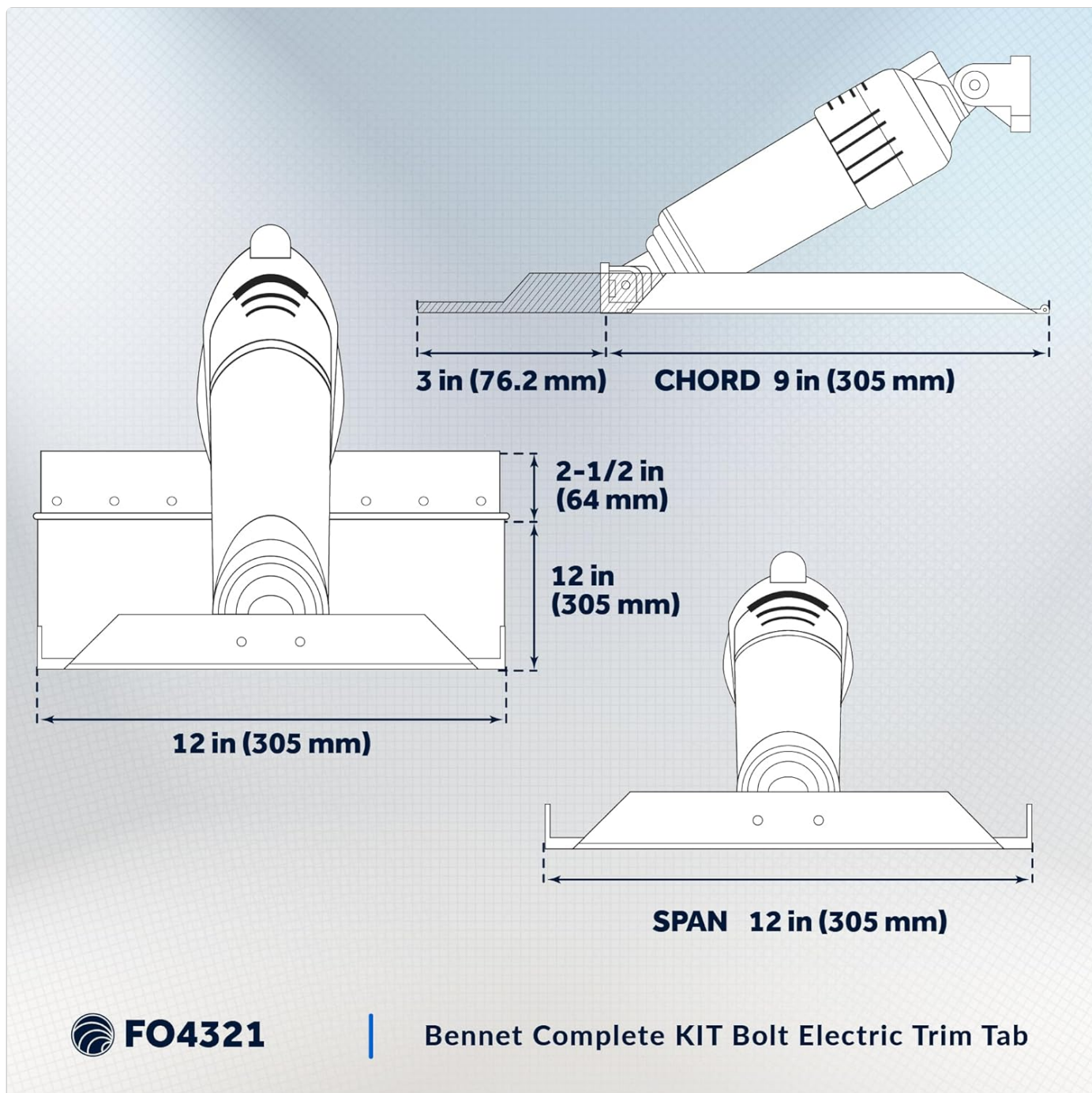


Figure 5: Detailed dimensions of the 12"x12" trim tab, showing span, chord, and actuator mounting points.

2. Electrical Wiring

1. **Connect Actuators:** Connect the 6-foot wire harnesses from the actuators to the 20-foot extension harnesses. Ensure waterproof connectors are properly sealed.
2. **Helm Control Wiring:** Wire the Integrated Helm Control (OBI9000E) to the vessel's 12V DC power supply and the actuator harnesses. Follow the wiring diagram carefully to ensure correct polarity and function.
3. **Power Connection:** Connect the system to a fused 12V DC power source. The system has a current draw of 10 Amps (at 250 lb) and 30 Amps (at 750 lb).

BEA3000 X2



BAW 2020 X2



5004515
(ML343) X2



5004517
(ML345) X2



OBI9000E X1



5003873
(HDW-HP4-15) X15



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Figure 6: Components of the system, including the BEA3000 actuators, BAW2020 wire harnesses, OBI9000E helm control, and various mounting hardware.

Your browser does not support the video tag.

Video 1: Unboxing of the Bolt Electric Trim Tab System, showing all included components and their initial presentation.

OPERATING INSTRUCTIONS

The Integrated Helm Control provides intuitive operation for adjusting your vessel's trim. The trim tab position LEDs indicate the current tab position.

- **"DN" Buttons:** Press the "DN" (Down) buttons to lower the trim tabs. Lowering the tabs will push the bow of the boat down.
- **"BOW UP" Buttons:** Press the "BOW UP" buttons to raise the trim tabs. Raising the tabs will lift the bow of the boat.
- **"ALL UP" Button:** Simultaneously raises both trim tabs to their fully retracted position.
- **"ALL DN" Button:** Simultaneously lowers both trim tabs to their fully extended position.

- **Auto Tab Retraction:** Tabs automatically retract when the ignition is powered off, protecting them during trailering or docking.

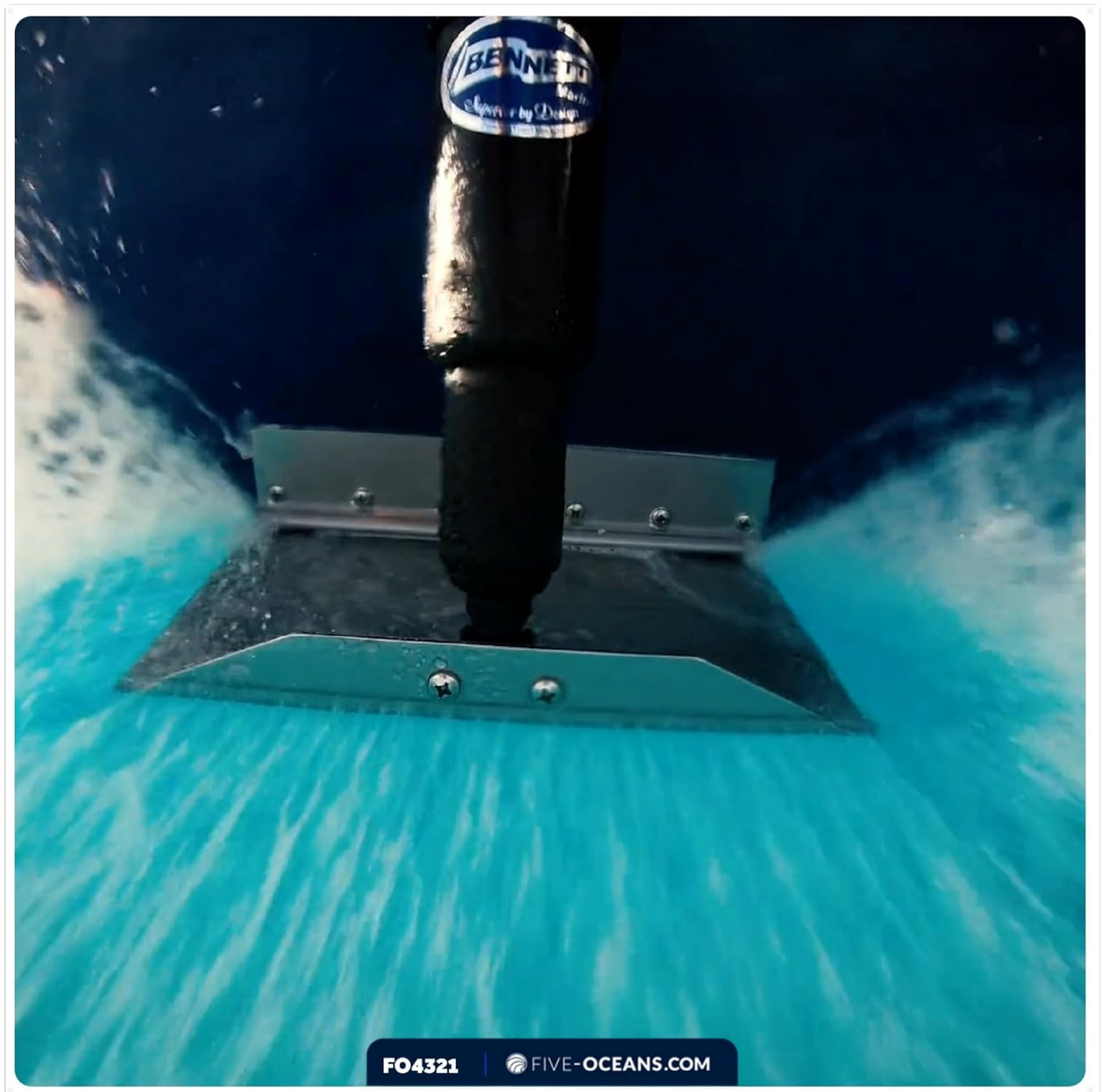


Figure 7: The Integrated Helm Control unit, showing the "DN", "BOW UP", "ALL UP", and "ALL DN" buttons, along with LED indicators for trim tab position.



Figure 8: Various views of the trim tabs and helm control in action, demonstrating how the system adjusts the boat's running attitude.

MAINTENANCE

The Bolt Electric Actuators are designed to be maintenance-free and completely waterproof. However, regular inspection of the entire system is recommended to ensure continued optimal performance.

- **Visual Inspection:** Periodically check the trim tabs, actuators, and wiring for any signs of damage, corrosion, or loose connections.
- **Cleaning:** Clean the trim tabs and actuators with fresh water after each use, especially in saltwater environments, to prevent salt buildup and corrosion.
- **Hardware Check:** Ensure all mounting hardware remains tight.

TROUBLESHOOTING

If you experience issues with your trim tab system, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Tabs do not move.	No power to the system; blown fuse; loose wiring connection; faulty actuator.	Check power supply and fuse. Inspect all wiring connections. Test actuators individually if possible.
One tab moves, the other does not.	Faulty actuator; wiring issue to the non-moving tab.	Inspect wiring to the affected actuator. Test the actuator.
Tabs move slowly or intermittently.	Low voltage; corroded connections; excessive marine growth on tabs.	Check battery voltage. Clean electrical connections. Clean trim tabs.

For further assistance, contact Bennett Marine customer support.

SPECIFICATIONS





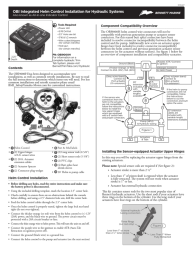

- **Model:** BOLT1212 (FO4321)
- **Trim Tab Dimensions:** 12" x 12"
- **Voltage:** 12 Volts DC
- **Actuator Type:** Electric (BEA3000)
- **Actuator Chord Length:** 6 ft (plus 20 ft extension harnesses)
- **Actuation Force:** 750 lb
- **Return Force:** 750 lb
- **Current Draw:** 10 Amps (at 250 lb), 30 Amps (at 750 lb)
- **Operation Mode:** Up-Down
- **Control:** Integrated Helm Control (OBI9000E)

WARRANTY AND SUPPORT

The Bennett Marine Bolt Electric Trim Tab System comes with a**Limited Lifetime Warranty** for the electric actuators, provided by the manufacturer. For warranty claims, technical support, or any inquiries, please refer to the contact information provided in your product packaging or visit the official Bennett Marine website. You can also visit the [Bennett Marine Store on Amazon](#) for additional product information and support resources.



Related Documents - BOLT1212 (FO4321)

	<p>Bennett BOLT Electric Trim Tab Systems Installation and User's Guide</p> <p>Comprehensive installation and user guide for Bennett BOLT Electric Trim Tab Systems, covering setup, operation, maintenance, and troubleshooting for marine applications. Includes parts lists, specifications, and wiring diagrams.</p>
	<p>Bennett Marine BOLT Electric Trim Tab Systems Installation & User's Guide</p> <p>Comprehensive installation and user's guide for Bennett Marine's BOLT Electric Trim Tab Systems, covering setup, operation, maintenance, troubleshooting, and warranty information.</p>
	<p>Bennett Marine BOLT Electric Trim Tab Systems Installation and User's Guide</p> <p>Comprehensive guide for installing and using Bennett Marine's BOLT Electric Trim Tab Systems. Covers benefits, installation procedures, troubleshooting, and warranty information for marine applications.</p>
	<p>Bennett Marine AutoTrimPro: Installation & User's Guide</p> <p>Comprehensive installation and user guide for the Bennett Marine AutoTrimPro, an all-in-one hydraulic trim tab control system designed to enhance boat performance, efficiency, and ride comfort.</p>
	<p>OBI Integrated Helm Control Installation Guide for Bennett Marine Hydraulic Systems</p> <p>Comprehensive installation manual for the Bennett Marine OBI9000H Integrated Helm Control system for hydraulic trim tabs. Includes wiring, calibration, and troubleshooting steps.</p>
	<p>Bennett SLT Self-Leveling Tabs: Owner's Manual & Installation Guide</p> <p>Comprehensive guide to installing and adjusting Bennett SLT Self-Leveling Tabs for small boats, covering parts, procedures, benefits, maintenance, and warranty information.</p>