

LECTROTAB

Electromechanical Trim Tab Systems



LECTROTAB

All Lectrotab actuators are precision-engineered to combine quiet operation with a non-hydraulic, maintenance free design.

The unit is corrosion free, ensures very accurate tab positioning, provides maximum lift force, and is totally self-contained for easy installation. An internally designed friction brake prevents unwanted tab retraction when underway or backing down.

The actuator assembly is packaged in a non-metallic permanently sealed housing. Our unique design incorporates dual o-rings to seal out water around the ram, and a check-valve & vent tube system that pressurizes the actuator every time it retracts. These two design features alone make the actuator extremely robust and reliable. No components need to be installed inside the boat. Most importantly, unlike hydraulic trim tabs, there is no oil to leak out.

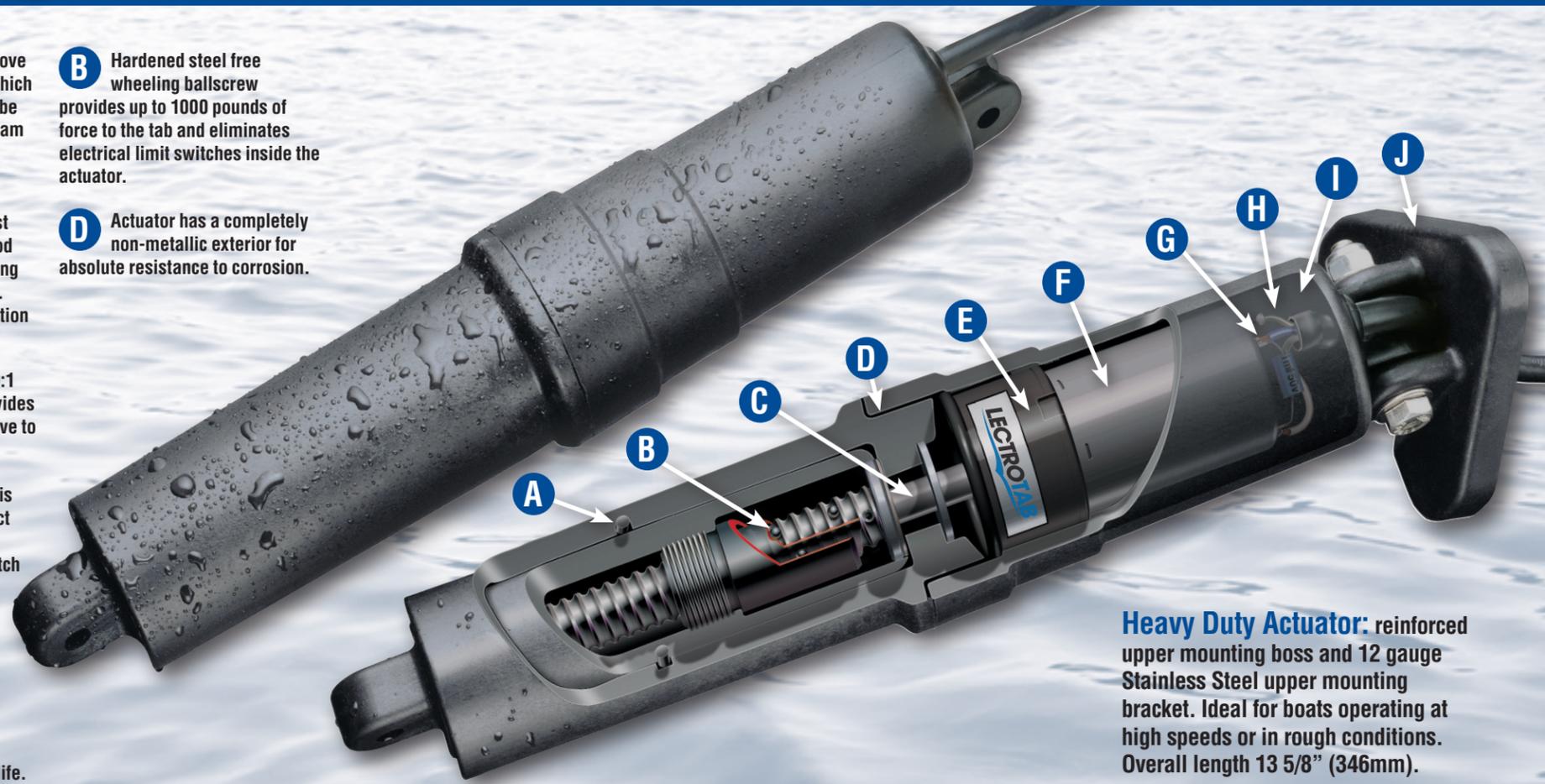
The actuators incorporate either a standard or low profile transom mounting bracket and are available in 12V and 24V DC with standard long, short or heavy duty style housings.

Why Choose Lectrotab?

- World Class Customer Support
- Unique Design Features
- Stainless or Alloy Tab Plates
- Automatic Leveling Control
- NMEA 2000 Compatibility

ACTUATORS

- A** Upper seal, located above any point on the ram which is exposed to fouling, cannot be damaged and is the primary ram sealing element.
- B** Hardened steel free wheeling ballscrew provides up to 1000 pounds of force to the tab and eliminates electrical limit switches inside the actuator.
- C** Controlled torque thrust bearing surface for good service life and positive braking against reverse freewheeling. Prevents unwanted tab retraction when under way.
- D** Actuator has a completely non-metallic exterior for absolute resistance to corrosion.
- E** Greased and sealed 40:1 planetary gearbox provides smooth, quiet, high-torque drive to the ballscrew.
- F** Reversible D.C. motor is torque limited to protect the gear box and is instantly stopped when the control switch is released to prevent ram overtravel.
- G** Electromagnetic suppression device assures compliance with European CE standards and eliminates voltage spikes for better control switch contact life.
- H** Vent-tube check valve allows air in but not out, thus providing automatic internal pressurization to about 8 PSI when the tab is retracted.
- I** Upper actuator cover is sealed watertight with epoxy
- J** Upper bracket can be positioned from vertical through horizontal.



Heavy Duty Actuator: reinforced upper mounting boss and 12 gauge Stainless Steel upper mounting bracket. Ideal for boats operating at high speeds or in rough conditions. Overall length 13 5/8" (346mm).

Standard Actuator: our most popular design, operates on all sizes and styles of boats (shown above). Overall length 13 5/8" (346mm).

Short Actuator: with low profile upper bracket is the perfect fit for trim tab applications where there is limited vertical space such as a swim platform. Overall length 11" (279mm).

Long Actuator: for applications where a longer throw is required. Available in 4" stroke length. Overall length 15 3/8" (390mm) with low profile bracket.

STAINLESS STEEL TABS

Single Actuator



Dual Actuator



The Lectrotab stainless steel trim tab design provides unmatched strength and reliability. All stainless steel tabs are fabricated with a continuous rolled and pinned hinge, eliminating the need for welding.

- Corrosion resistant 11 or 12 gauge, 304 or 316 stainless steel
- Standard finish, mirror finished stainless steel or gloss black powder coated stainless steel
- Standard tabs are available in 9" (23cm), 12" (30cm) and up to 24" (61cm) chord lengths and in widths between 9" (23cm) and 48" (122cm)
- All tabs exceeding a 24" (61cm) width feature a 90° bent up trailing edge for additional strength
- Tabs are available with edges bent (various angles), straight or tapered, dual actuator channels and reinforced in any way
- For galvanic protection, pre-installed zinc anodes are also available

CONTROL OPTIONS

Rocker Switch



Performs all standard trim tab control functions.

- Improved sealing to prevent water entry
- Higher load rating
- Recessed rocker prevents breaking

One-Touch Control



Combines a microprocessor based trim tab control with LED tab position indicators.

- One-Touch operation with LED tab position indicators
- Dedicated buttons for simultaneous movement of both tabs up or down
- Automatic tab position return
- Completely sealed and waterproof

Manual Leveling Control



Manually operated LED control with one touch tab positioning.

- Single button touch to raise/lower both tabs
- Tabs automatically return to previous position
- Completely sealed and waterproof
- No external power module required

Automatic Leveling Control



Automatically corrects roll and pitch for a more comfortable boating experience.

- Controls pitch and roll automatically
- Completely sealed and waterproof
- Automatic tab retraction
- No external power module required (ALC-1)

Note: Lectrotab control switches are available for dual station applications. Refer to the Control Switch product specification sheets located at www.lectrotab.com for more information.

ALUMINIUM TABS

The Lectrotab aluminum alloy trim tabs are uniquely designed to meet the needs of aluminum hulled boats and are an economical option for all boats.

- Fabricated with an extremely strong “no-break” polypropylene hinge
- Marine grade 6005-T5 aluminum alloy material
- Sealed with a corrosion resistant epoxy coating
- Available in 9” (23cm) and 12” (30cm) chord lengths and in widths between 9” (23cm) and 48” (122cm)
- Also available with drop fins or supports



CUSTOM TABS

Lectrotab designs custom and heavy duty tabs to meet customers' specifications with unmatched strength and reliability.

- Continuous rolled and pinned hinge design provides ultimate strength and eliminates the need for welding
- Mirror, black powder coated, standard and other finishes available
- Strong, corrosion resistant 11 and 12 gauge stainless steel
- Zinc anodes may be installed for additional corrosion protection
- Available with bent edges and channels for additional strength
- Available in single or dual actuator mounting
- Edge mount tabs available



'READY TO INSTALL' KITS

Standard Lectrotab kits contain two 12V or 24V DC actuators, two trim tab plates, extended actuator cable and control switch.

- Available with stainless steel, aluminum or custom tabs
- Standard kits include choice of Rocker Switch, One Touch, Manual or Automatic Leveling Controls
- Kits are available with or without mounting hardware



Visit www.lectrotab.com for more information...

- Lectrotab products
- Tab plate sizing guidelines
- Technical product specification sheets
- Wiring diagrams and Installation Manuals
- Hydraulic retrofit instructions
- Advantages of electric over hydraulic systems
- Where to buy Lectrotab products

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