

BENNETT



MARINE

# SLT

Self-Leveling Tabs

**SLT6 & SLT10 KITS**



**OWNER'S MANUAL AND INSTALLATION INSTRUCTIONS**

SAVE AND KEEP WITH BOAT OWNER'S INFORMATION

Congratulations on your purchase of a Bennett SLT System — an affordable, simple solution for small boats from 10 to 20 feet (3 m to 6 m). Now you have the durability of a Bennett trim tab system with a quick and easy installation. Your new Self-Leveling Tabs (SLT) will improve your ride and boost your boat’s performance:

- **Plane at lower speeds**
- **Reduce engine laboring**
- **Improve your hole shot**
- **Reduce pounding**
- **Improve fuel efficiency**
- **Eliminate porpoising and chine walking**

You selected your kit using this guideline:

| Part # | Tab Size                     | Boat Size                 |
|--------|------------------------------|---------------------------|
| SLT6   | 6" x 8"<br>(15 cm x 20 cm)   | Up to 16'<br>(up to 4.9m) |
| SLT10  | 10" x 10"<br>(25 cm x 25 cm) | 16' and up<br>(4.9m+)     |

If you have any questions about your kit, please contact Bennett client service at by email at [BMI\\_Info@Yamaha-Motor.com](mailto:BMI_Info@Yamaha-Motor.com).

### **How they work**

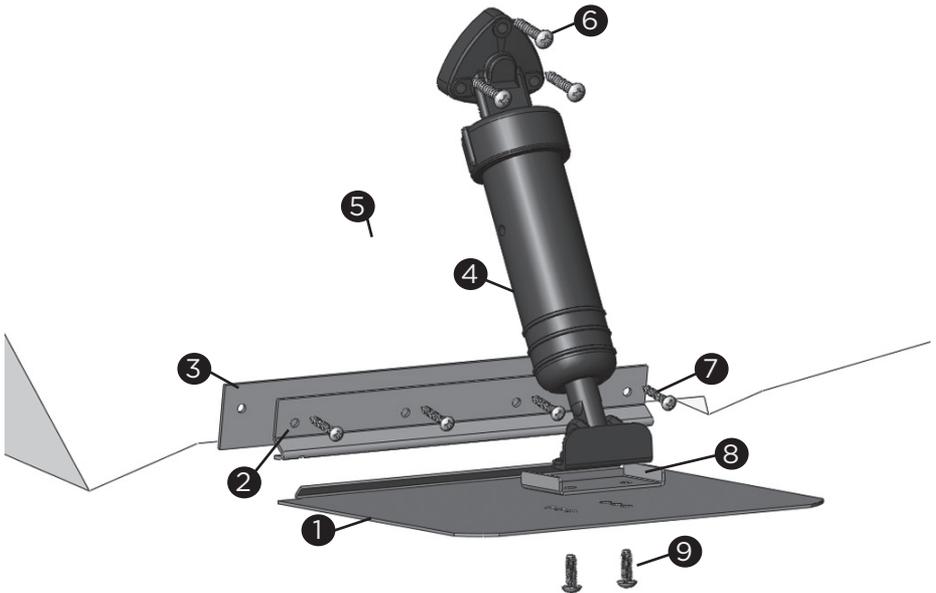
The SLT reacts instantly to boat speed and water pressure by adding trim when it’s needed. At slower speeds, when the boat is trying to get on plane, the actuators hold the trim tabs down, which lifts the stern and simultaneously puts the boat at planing attitude. On plane, and as the boat’s speed increases, water pressure pushes the tabs up. You get a better ride while the SLT does all the work.

### **Quick and easy installation**

As you will see on the following pages, installing a Bennett SLT System can be done with just a few tools and in less than an hour. You can also change the position of the actuator on the tab with adjustable mounting options.

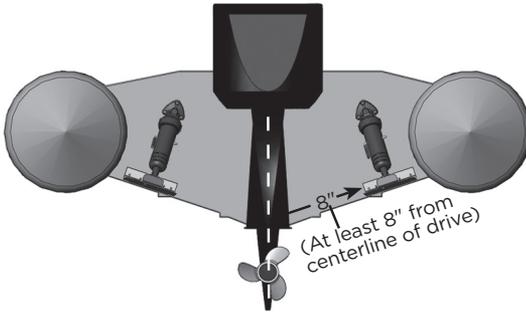
## Complete SLT Parts List and Diagram

|  | SLT6                | SLT10               |
|--|---------------------|---------------------|
| ① Trim Tab Only  | TPOSLT6 - Qty 2     | TPOSLT10 - Qty 2    |
| ② Hinge Plate  | HPSLT6 - Qty 2      | HPSLT10 - Qty 2     |
| ③ Backing Plate  | BPSLT6 - Qty 2      | BPSLT10 - Qty 2     |
| ④ Complete Actuator  | A1200SSLT50 - Qty 2 | A1200SSLT80 - Qty 2 |
| ⑤ Actuator Pin   | SLT500 - Qty 2      | SLT500 - Qty 2      |
| Hardware Bag<br>Includes parts below:                                      | H1170SLT            | H1170SLT            |
| ⑥ Actuator Upper Hinge Screw<br>(#14 x 1 1/2" Screw)                       | H1174 - Qty 6       | H1174 - Qty 6       |
| ⑦ Trim Tab Screw<br>(#10 x 3/4" Screw)                                     | H1198 - Qty 10      | H1198 - Qty 10      |
| ⑧ Mounting Bracket   | SLT501 - Qty 2      | SLT501 - Qty 2      |
| ⑨ Actuator Lower Hinge Screw<br>(1/4-20 x 3/4" Philips Head Machine Screw) | H1175 - Qty 4       | H1175 - Qty 4       |

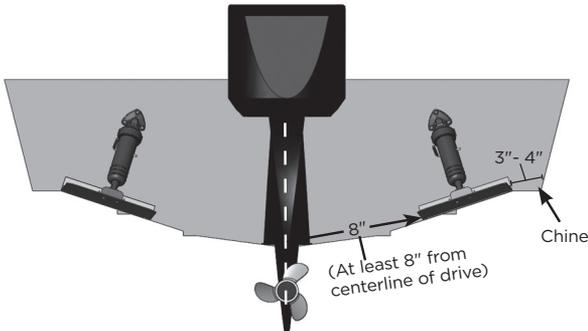


# SLT Installation Instructions

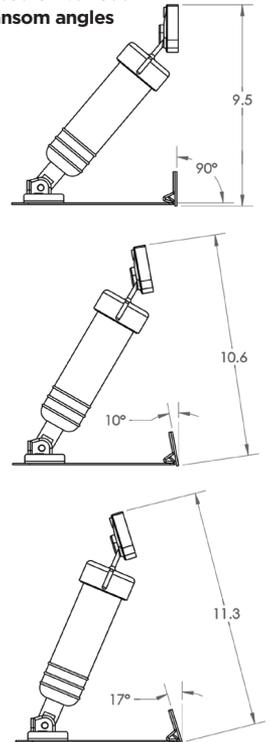
## Standard RIB Installation



## Standard "V" Hull Installation



## Sample specs based on various transom angles



### Tools & Supplies Needed:

- Hand drill with 5/32" and 3/16" drill bits
- Phillips screwdriver
- Marking pencil
- Tape measure
- Marine grade sealant
- Glove
- Straight edge

## Getting Started - Important Please Read

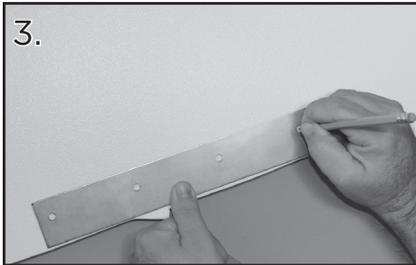
**1. Checking for Obstructions.** Before starting the installation — and drilling any holes — verify that there are no mounting restrictions inside or outside the transom. Choose a location about 3-4" from the chine (side of the hull). Hold the tab up to the very bottom of the transom (flush with hull bottom), and hold the actuator on the trim tab, using the center set of holes for your starting point. Then set the actuator upper hinge against the transom. Verify this for both sides so that the actuators will not center on any obstruction. If they do, reposition tabs slightly inboard or outboard.

Now you are ready to continue the installation, with Steps 2-12 starting on the next page.

# SLT Installation Instructions cont.



**Position the Tab.** Using the backing plate, choose a location 3-4" from the chine. Maintain a minimum of 8" from the centerline of your drive unit to the closest edge of the trim tab. Align the bottom of the backing plate flush with the bottom of the transom. The hole pattern on the backing plate should be closer to the top edge of the backing plate.



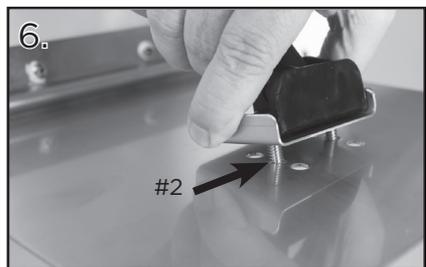
**Mark the Pilot Holes.** Using the same backing plate as a template, mark the pilot hole locations. Make sure the tabs can be mounted in the same location on both sides.



**Drill the Mounting Plate Holes,** using a 5/32" drill bit. (For aluminum boats, use #10-32 machine screws of an appropriate length instead of the screws supplied.)



**Install Tab and Hinge Assembly.** Dip screws in marine sealant before inserting into pilot holes. Run the screws in 3/4 of their length. Slide trim tab between backing plate and hinge plate. Now, tighten the screws.



**Attach Actuator to Trim Tab.** Start with the center set of holes (Position #2), placing the mounting bracket in between actuator lower hinge and tab. Secure lower hinge with included 1/4-20 x 3/4" Philips Head machine screws.

# SLT Installation Instructions cont.



**7.**  
**Set Final Actuator Position.** Use a straight edge under the trim tab to make sure the tab is flush with the hull bottom. This is important to ensure correct actuator placement.



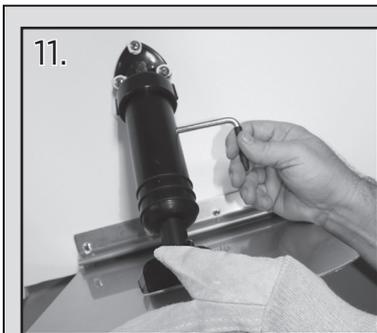
**8.**  
**Mark Actuator Position on Transom.** Set the actuator upper hinge against the transom. Mark the three upper hinge hole centers.



**9.**  
**Drill Actuator Holes.** Use a 3/16" drill bit to drill the three holes. (For aluminum boats, use 1/4-20 machine screws of an appropriate length instead of the screws supplied.)



**10.**  
**Mount Actuator to Transom.** Apply marine sealant in and around pilot holes. Secure upper hinge to transom with #14 x 1 1/2" screws.



**11.**  
**WARNING: Tab will snap down with 50-90 lbs of force if not held manually.**

Releasing the Pin. Actuator spring is under tension. Use a glove to first slightly lift up on the bottom of the tab. Take care not to have any obstruction under the tab when doing this. Slowly remove the pin from the actuator. Once the pin is removed, slowly lower the tab before releasing your hand from the tab.

**12.** Repeat Steps 2 - 11 for the opposite side of the boat. See next page to adjust the tabs after sea trial if needed.

**Congratulations, your Self-leveling tabs are now installed and ready for your enjoyment!**

# Adjusting Your SLT System

**IMPORTANT: Conduct a sea trial before making any adjustments.**

## Three Mounting Options to Change Lift:

The SLT has three hole positions on the trim tab so that the actuator angle may be adjusted for optimum lift pressure and performance. The supplied mounting bracket installed under the actuator lower hinge covers the holes that are not used.

### 1. Center Set of Holes — Position #2

When you first install your tabs, you will start at Position #2 (See Step #6 on page 5 and image to the right.) After the sea trial, you may find that Position #2 does not provide the optimum setting for your boat — see below.



### 2. First Set of Holes (Closest to the Transom) — Position #1

Position #1 provides more lift. If your boat has more stern weight, you may wish to increase lift. Move the actuator forward from Position #2 to Position #1.



### 3. Trailing Edge Holes (Farthest from the Transom) — Position #3

Position #3 provides less lift. If the bow is too low during the sea trial, you may wish to decrease lift. Move the actuator back from Position #2 to Position #3.



## Maintenance

**Zincs (If Storing in Saltwater):** To deter electrolysis, a zinc anode should be attached to the top of each tab. Zinc must make direct contact with stainless steel. Do not paint zinc.

**Painting:** Paint trim tabs to discourage marine growth. 1. Clean surfaces of all grease, oil and dirt. 2. Apply two coats of epoxy metal primer. 3. Apply two coats of anti-fouling paint. Actuator, including the piston, may be painted.

**Saving the Pin:** This allows you to put your SLT tabs in the retracted position when not on the water. You may wish to do this for beaching, trailering or rack storage. Reinsert the pin following the reversed method used in Step #11 on page 6.

# BENNETT WARRANTY

Bennett SLT actuators in the United States carry a Limited Lifetime Warranty against manufacturing defects. Limited Lifetime Warranty refers to the life of the product, not the boat, or the owner. Limited Lifetime Warranty ends when the product becomes unusable for reasons other than manufacturing defects.

PLEASE NOTE: Damage to the trim tabs due to electrolysis is not covered by warranty. No labor costs of replacement, haulout, or miscellaneous charges are covered. Contacting Bennett Marine first may save considerable time, trouble and expense.

The foregoing is in lieu of any and all other warranties, expressed or implied, including any warranty of merchantability or fitness for a particular purpose. There are no other warranties which extend beyond that set forth above.

**Warranty Return Procedure:** We recommend that you contact us first to troubleshoot your system and determine the best solution. Simply email to BMI\_Info@Yamaha-Motor.com and we'll be glad to assist you.

**U.S. Customers:** Simply return the faulty part to Bennett Marine along with our Quick and Easy Product Return Form found on the Warranty page of our website: [www.BennettTrimTabs.com/warranty](http://www.BennettTrimTabs.com/warranty). Parts covered under warranty will be repaired or replaced without charge.

**Customers Outside the USA:** Please contact your local Bennett Marine distributor for warranty and return procedures in your respective country.



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