



BENNETT MARINE



AutoTrimPro

All-in-one trim tab control system

Installation & User's Guide

For Electric Trim Tab Systems

NMEA2000 Compatible

IMPORTANT SAFETY INSTRUCTIONS: Read and follow all instructions. Keep this manual on your boat.

Congrats!



Congratulations on your purchase! We're proud to say, boaters trust our brand. After all, we invented the world's first adjustable trim tab—and never stopped pushing forward, always striving to make a better, more affordable system with maximum performance.

Behind You For The Distance

Bennett's legendary customer service and support is a priceless perk to your new purchase! Our expert staff with over 50 years of trim tab experience is ready to assist with your installation, help with troubleshooting, or answer any of your questions along the way.

How to Contact Us

Call us at 1-954-427-1400, email BMI_Info@Yamaha-Motor.com, or go to BennettTrimTabs.com/Contact and fill out the online form. Please allow 24 hours for online requests. Our office hours are Monday through Friday from 8:00 a.m. to 5:00 p.m. (Eastern Standard Time).

The Benefits of Trim Tabs

Increase Visibility For A Safer Ride: Keeping your bow down at reduced speeds is important, especially in congested waters or foul weather. Bennett trim tabs enable you to plane at a much lower speed, operating your boat more safely.

Run More Efficiently: Getting up on plane quicker means your boat spends less time running inefficiently. Bennett trim tabs decrease engine laboring, which can improve fuel economy and prolong the life of the engine.

Maximize Performance While Smoothing Out The Ride: Bennett trim tabs enhance the operating economy of your boat by lifting the stern in proportion to speed, weight distribution, and fuel load changes—and AutoTrim Pro does this automatically for you!

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System Overview



AutoTrim Pro

All-in-one trim tab control system

AutoTrim Pro (ATP) is an all-in-one trim tab control system that packs a boatload of essential features into an easy-to-use, space-saving keypad. This system is a performance upgrade you can actually feel, engineered to make your boating experience even more enjoyable.

AutoTrim Pro automatically levels the pitch and roll of your boat, adjusting your trim tabs to hold the running angle you set throughout a variety of conditions including vessel speed and shifting weight. Enjoy the convenience of riding in auto mode, or shift to full manual mode anytime.

AutoTrim Pro (ATP) is an all-in-one trim tab control system consisting of two components, the Helm Display and the Control Unit. The Helm Display integrates four key functions: manual control, automatic control, trim tab position indication, and automatic trim tab retraction. The ATP Control Unit is the “brain” of the system which will constantly measure and monitor the boat's pitch and roll attitude, operating the trim tab actuators accordingly.

AutoTrim Pro functions with other commercially available electric trim tab systems brands, adding a high degree of usability to any system.

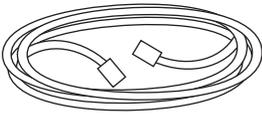
AutoTrim Pro Components

AutoTrim Pro
Helm Display



AutoTrim
Pro Kit Part#:
AP000A1BC

AutoTrim Pro
Control Unit



25' Helm Display extension

Installation of System Components

Installation of the ATP Helm Display

Before starting any work, disconnect the battery(s), and verify that all power is turned off.



Preparation

Before installing the ATP Helm Display, check for obstructions on the underside of the helm. Locate an appropriate location on the helm for the ATP Helm Display. The ATP



Helm Display should be installed such that the vessel operator has a clear, unobstructed view of the display, and is easily reachable from the operating position. Ideally, the ATP Helm Display should be installed in a horizontal position. This makes the use of the control more intuitive. It is important for the vessel operator to be able to clearly see the LED indicators on the ATP

Helm Display to know what the ATP is doing.

1. Use the template included on Pg. 11 to help decide the location for the ATP Helm Display. The Helm Display should be located on the helm in view of the operator, and within easy reach. It is important for the vessel operator to be able to clearly see the LED indicators on the ATP Helm Display to know what the ATP is doing. Before installing the ATP Helm Display, check for obstructions on the underside of the helm.
2. Drill the center hole 1" using the template from pg. 11.
3. Drill the four 3/16" screw holes.
4. Thread the wires for the ATP Helm Display through the 1" hole.
5. Secure the ATP Helm Display using the four 8-32 nylon thumb nuts included.
6. Locate the power source for all of the helm instrumentation. Connect the orange wire from the ATP Helm Display to the power source for the instrumentation. **Make sure the power source is circuit protected for 5A or less.** When power is removed from this orange wire, the system will shut down.

Installation of System Components

7. Locate the ignition power. Consult the engine manufacturer's documentation to identify a source for ignition power. Connect the purple wire from the ATP display to the ignition power. The ATP Helm Display does not use any power from the ignition system, but senses when the power to the ignition has been turned off to automatically raise the trim tabs. **Make sure the power source is circuit protected for 5A or less.**

Note: The orange and purple wire cannot be connected to the same source. **If the orange wire is connected to the ignition, the auto tab retract feature will not function.**

8. Locate a suitable ground. Connect the black wire from the ATP Helm Display to the ground source for the instrumentation.

If a second helm station is utilized in this system, repeat steps 1-5 only for the upper station ATP Helm Display.

Installation of the ATP Control Unit



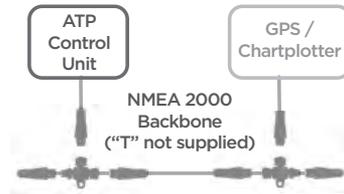
The ATP Control Unit is the sensor and processor for the ATP system which activates the electric actuators that adjust the trim tabs. The unit contains an accelerometer, gyroscope, and an electronic compass that sense the position and movements of the boat and therefore should not be mounted within 24" of any magnetic items such as electric motors or speakers. However, the ATP Control Unit can be conveniently mounted anywhere in the boat, and in any orientation.

1. Locate a suitable dry, rigid location for the ATP Control Unit.
2. Mount the Control Unit using the two #8 x 1/2" screws provided.
3. Connect the orange and black power wires to a power source capable of supplying 20 Amps @ 12V or 10 Amps at 24V. (Refer to system diagram on pg. 10).

Connecting the System

1. Connect the communications cable from the ATP Helm Display to the communications cable on the ATP Control Unit.
2. Connect the port actuator cable to the white & black cable (with the red band) on the ATP Control Unit.
3. Connect the stbd. actuator cable to the white & black cable (with the green band) on the ATP Control Unit.

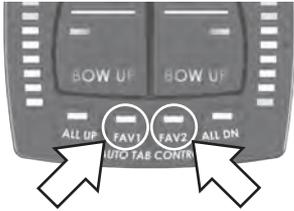
4. Connect the NMEA2000 Cable from the ATP Control Unit to the NMEA2000 Backbone (See the system diagram on pg. 10). A GPS that supplies speed data must also be connected to the NEMA2000 network. The ATP control will use the speed data to determine the boats mode of operation. If the vessel does not have a NEMA2000 network with a GPS, please refer to the appendix for Angle set-up mode.



Testing the system

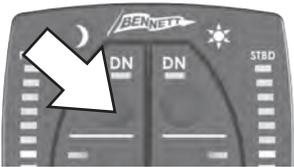
1. Reconnect the battery(s) or turn the battery switch to ON.
2. Turn the ignition to the ON position.
3. The ATP Helm Display should illuminate.

4. The two blue LEDs over FAV1 and FAV2 should be flashing. This



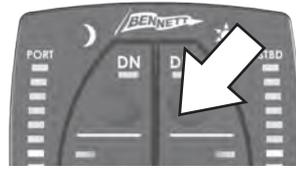
is an indication that the system has not yet been oriented to the boat. (You will complete this step on pg. 12).

5. Press the PORT Bow DN button on the ATP Helm Display. The



starboard actuator should extend. If the starboard actuator does not extend, or the port actuator extends instead of the starboard actuator, refer to the troubleshooting section starting on pg. 32.

6. Press the STBD Bow DN button on the ATP Helm Display. The

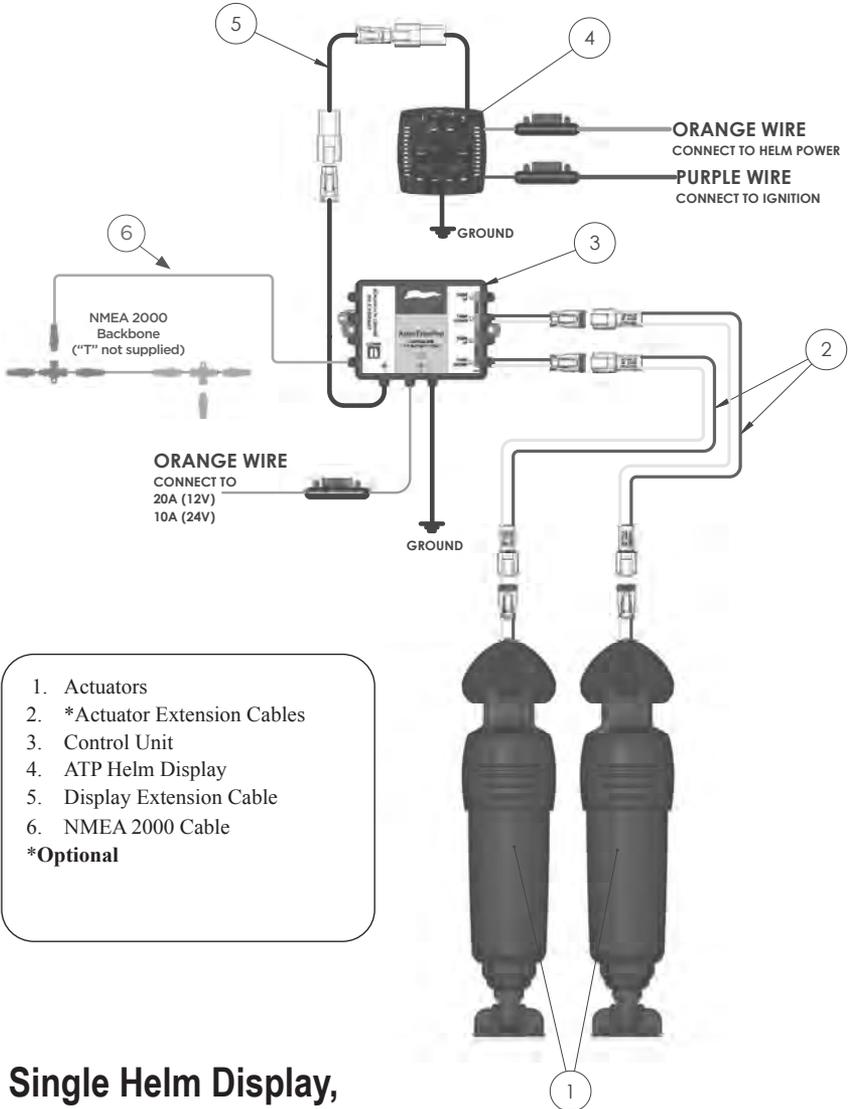


port actuator should extend. If the port actuator does not extend, or the starboard actuator extends instead of the port actuator, refer to the troubleshooting section on pg. 32.

7. Turn on the boat's GPS unit. Verify that the NMEA2000 LED in the lower left corner of the control unit is blinking.



System Diagram

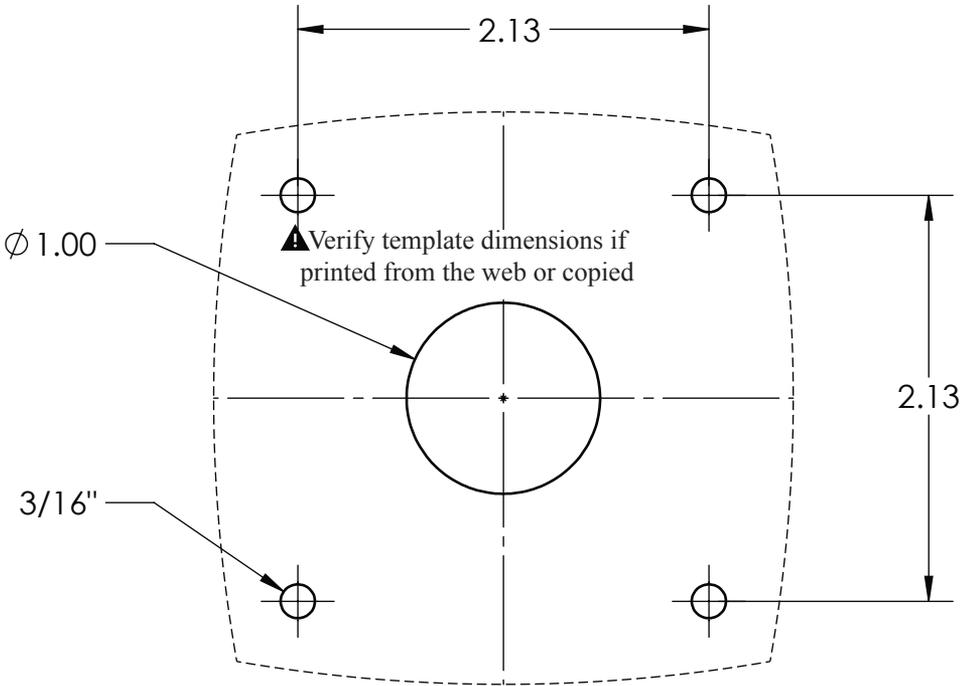


Single Helm Display, Single Actuators

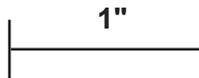
*Please call us at (954) 427-1400 for
additional help with wiring instructions*



ATP Helm Display Drilling Template



Must be printed or copied at 100% scale



System Set-up: Orientation

These steps cannot be completed until the boat is launched and in the water.

Orientation

The ATP Control Unit will be oriented in a simple two step process. This orientation set-up lets the ATP Control Unit learn it's installed orientation relative to the boat. Step one will check for the direction of gravity, step 2 will sense the boat as it starts to move. These two measurements will allow the ATP to understand it's orientation relative to the boat. If the orientation process is not completed, the FAV1 and FAV2 blue lights will be flashing, indicating that there is no orientation set.



1. Rest State Orientation

- Launch the boat.
- Turn the system on.
- Allow the boat to come to a rest.
- Press and hold the Bright and All UP buttons for at least 5 seconds. This will establish the direction for the gravity vector relative to the installed ATP Control Unit.



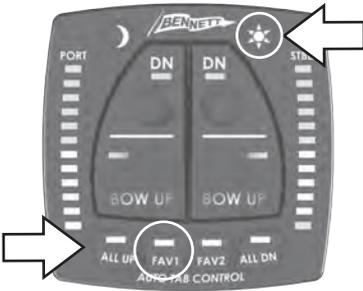
The system will flash all four corner LEDs to indicate that a setting has been made.



2. Acceleration State Orientation

You will not turn the boat during this part of the set-up process, and you will need to verify that rudder or outboard engines are in line with the hull before starting so that the boat will not begin to turn as the acceleration starts.

From a rested state, press and hold the Bright and FAV1 buttons for three seconds to enter orientation



mode. The four yellow LEDs will blink to let you know that the system has gone into orientation mode. The system will now start looking for an initial acceleration. Fully throttle

up in a straight line for at least 5 seconds without using the trim tabs. The system will sense this initial acceleration and use this information to orient itself to the boat. You may now back off the throttle, and after approximately 10 seconds the flashing FAV1 and FAV2 lights will stop flashing, indicating that the system has been oriented.

In rare cases for certain heavier boats the tabs must be slightly deployed for the boat to fully come on plane.

Please use caution during this step as you will be operating the Helm Display at high speed.

Trim Tab Basics

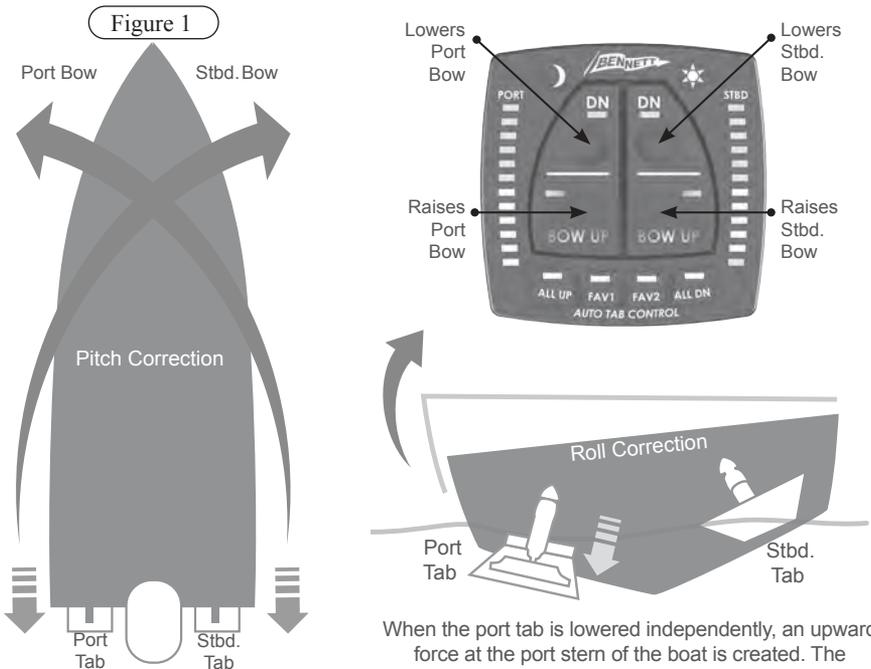
This section is intended to provide a general overview of how trim tabs work.
For detailed information on operating your AutoTrim Pro, see pg. 20.

Trim Tab Basics

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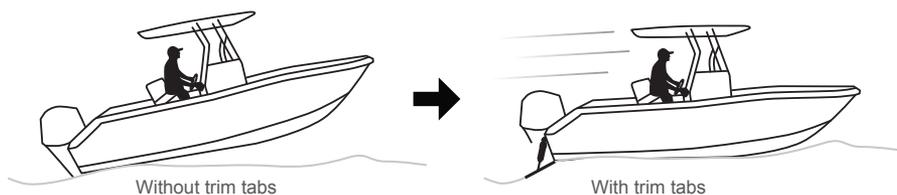
Bennett trim tabs most often attach to the bottom edge of the transom (although other mounting variations are available). When the Helm Display is pressed, the trim tabs deploy. Water-force on the trim tab creates upward pressure, raising the stern and lowering the bow. Properly sized trim tabs improve the performance of your boat in a wide range of weight, weather and water conditions.

In general, trim tabs operate in reverse of what you may think (Figure 1). The port (left) trim tab controls the starboard (right) bow. Conversely, the starboard (right) trim tab controls the port (left) bow. When operating your trim tabs manually, the Helm Display is wired so that all you have to do is press the control in the direction you want the bow to move. Don't worry about which trim tab is moving. The proper use of Bennett Trim Tabs becomes second nature after a short time. **For information about operating ATP auto mode, see pg. 25.**



When the port tab is lowered independently, an upward force at the port stern of the boat is created. The inverse applies when lowering the stbd. tab independently.

This section is intended to provide a general overview of how trim tabs work. For detailed information on operating your AutoTrim Pro, see pg. 20.



Getting and Staying Trimmed

Most boats break over (or get on plane) at a particular speed. This speed is determined by weight distribution, and water conditions, etc.. Bennett trim tabs enable your boat to plane at speeds lower than the natural planing speed. When tabs are deployed, your stern will rise and lower your bow, getting you up on plane faster.

Optimum Attitude

A good way to find your boat's optimum attitude is to conduct a simple test. Run the boat lightly loaded, at full speed on flat water. Notice the bow in relation to the horizon. This should be your boat's best running attitude ("Sweet spot"). Properly sized trim tabs can be used to recreate this optimum attitude regardless of weight distribution, speed or water conditions.

Getting Used to the Feel of Your Trim Tabs

When learning to use your tabs manually, begin by pressing the Helm Display in half-second bursts for gradual trimming. Be careful not to over-trim your boat. An over-trimmed boat will "plow" or "bow-steer". If you over-trim the boat, simply press BOW UP and the bow of the boat will rise. **For information about operating ATP auto mode, see pg. 25.**

This section is intended to provide a general overview of how trim tabs work. For detailed information on operating your AutoTrim Pro, see pg. 20.

Special Conditions & Safety Precautions

Correcting for a List

Bennett trim tabs may be operated independently so that you can correct for listing. Your control is designed so that you can use it intuitively when controlling the tabs manually. Do not think about what the trim tabs are doing, just concentrate on the bow. If the port bow is high, push the port side BOW DOWN button. If the starboard bow is high, push the starboard side BOW DOWN button. Press the control in half-second bursts to avoid over-trimming, allowing time between corrections for the boat to react. **For information about operating ATP auto mode, see pg. 25.**

Using In Conjunction With Outboard Trim/Tilt

Using your trim tabs in conjunction with your engine's power trim will give you increased speed and power.

1. Adjust the trim tabs to achieve a planing attitude.
2. Use the power trim to position the prop path parallel to the water flow as indicated by increased RPM / Speed.
3. If necessary, re-adjust the trim tabs to fine tune the trim of your boat.
In other words, use your trim tabs to trim the boat and your power trim to trim your prop.

Running In Rough Water

When running in a chop or heavy seas, press BOW DOWN on both tabs. This will bring the "V" of the hull in contact with the waves rather than having the waves pound the hull and your passengers.

Following Sea

For maximum control and maneuverability in a following sea or when running in an inlet, make sure the trim tabs are fully retracted by pressing BOW UP on both tabs. This brings up the tabs, decreasing lift in the stern, allowing the bow to rise. If tabs are deployed, the bow may dig.

This section is intended to provide a general overview of how trim tabs work. For detailed information on operating your AutoTrim Pro, see pg. 20.

Windy Chop

To raise the windward side of the boat press BOW UP on that side. If this is not sufficient, press BOW DOWN on the leeward side of the boat. This allows the windward side of the boat to rise and minimizes spray. Do not over-trim when attempting this.

Shallow Water / Hole Shot

To lift the stern and lower the bow, lower both tabs completely down by pressing BOW DOWN on both tabs. As you throttle up and speed increases, raise the tabs by pressing BOW UP on both tabs.

Porpoising

Porpoising is a condition more common in faster boats. As speed increases, the bow repeatedly rises out of the water until gravity overcomes lift and the bow falls down creating a bouncing effect. To correct this condition, press “Bow Down” in half-second bursts. As the trim tabs deflect, the porpoising subsides and your speed should remain the same or slightly decrease. Only a slight amount of trim tab deflection should be necessary.

Safety Precautions

Bennett trim tabs have a significant effect on the operation and versatility of your boat. No one knows your boat better than you, so the best learning method is to spend time getting familiar with your boat’s reaction to the trim tabs.

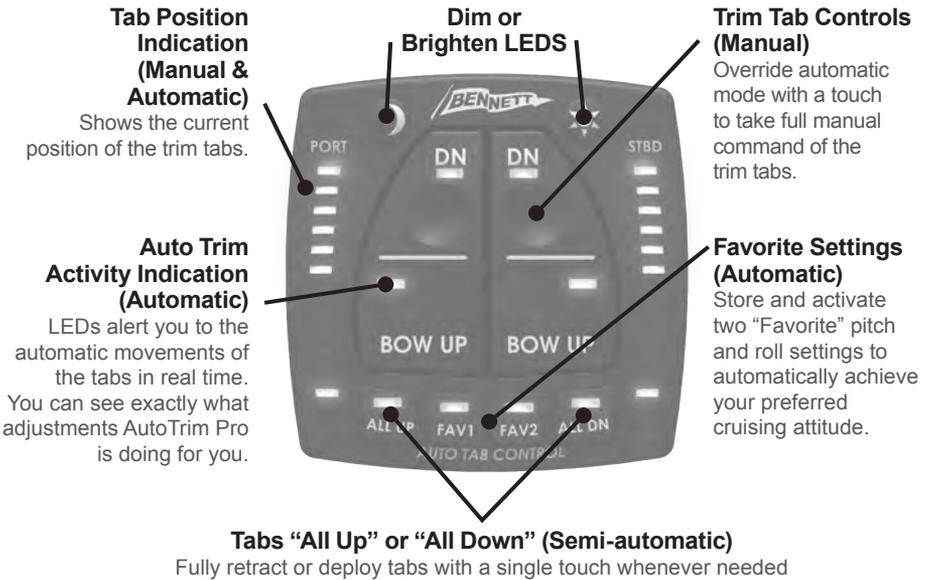
Remember, practice makes perfect! As your experience increases, so will your enjoyment. Always operate your boat with safety first in mind.

- Do not over-trim, particularly at high speeds as the bow will dig in and wave action may cause the boat to veer.
- While operating trim tabs, use caution. Improper use of trim tabs may cause accidents and/or injury.
- For best maneuverability, trim tabs should be fully retracted in a following sea, or when running in an inlet.

For information about operating ATP auto mode, see pg. 25.

The ATP Helm Display Quick-start Guide

Button & LED Indication Overview



The ATP Helm Display

The ATP Helm Display is the user interface for the AutoTrim Pro system. There may be one or more ATP Helm Displays installed on the boat depending on the number of control stations in the vessel (Helm station and fly bridge station). The ATP Helm Display integrates four key features:

1. Trim Tab Position Indication
2. Manual Trim Tab Controls
3. Automatic Trim Tab Controls
4. All Up & All Down Semi-Automatic Controls

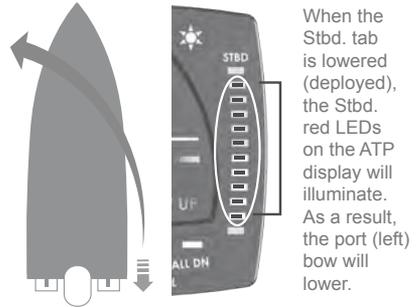
Indication & Manual Mode Buttons

Yellow LED Indication



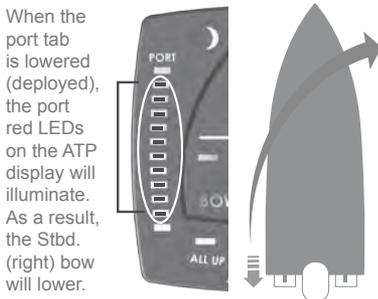
These LEDs represent the range of motion that the trim tabs may move through. The four yellow LEDs will be illuminated continuously during normal operation.

All red LEDs illuminated indicates that the tabs are fully deployed (down).



No red LEDs illuminated indicates that the tabs are fully retracted (up).

Red LED Indication



The red LEDs represent the actual movement of the tabs. As the tabs move from the full-up position to the full-down position the red LEDs will illuminate to illustrate the trim tab deflection.

Sun & Moon Buttons



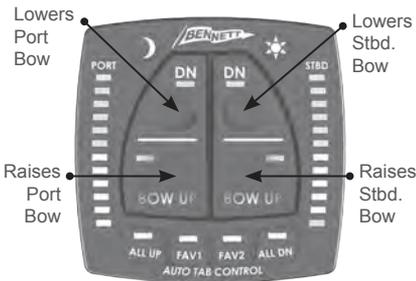
The Sun and moon buttons are used to increase and decrease the brightness of the LEDs on the display.

Manual Mode Buttons & Indication continued

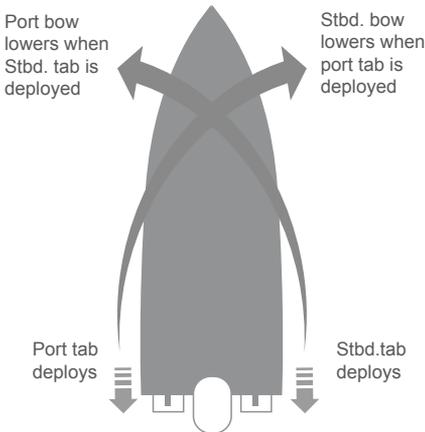
The Sun and Moon buttons are also used in different sequences to enter calibration modes and set up mode.

Manual Trim Tab Buttons

The manual trim tab buttons can be used to manually lower and raise the trim tabs, immediately disengaging automatic controls.



Although the manual mode buttons are intuitive and self-explanatory, the movement of the trim tabs operate in reverse of what you may think,



meaning the port (left) trim tab controls the starboard (right) bow. Conversely, the starboard (right) trim tab controls the port (left) bow.

Upper right button “DN”

(STBD Bow DN) Pressing this button will cause the port tab to go down. When the port tab is extended, the starboard bow will be lowered.

Upper left button “DN”

(Port Bow DN) Pressing this button will cause the starboard tab to go down. When the starboard tab is extended, the port bow will be lowered.

Lower Right “BOW UP” Button

(STBD Bow UP) Pressing this button will cause the port tab to come up. When the port tab is retracted, the starboard bow will be raised.

Lower Left “BOW UP” Button

(PORT BOW UP) Pressing this button will cause the starboard tab to come up. When the starboard tab is retracted, the port bow will be raised.

See "Trim Tab Basics" on pg. 16 for additional information on how the movement of trim tabs affects the pitch and roll of your boat.

Continue on to the next section for information on automatic and semi-automatic features.

Semi-Automatic Controls

The ATP Helm Display features two convenient buttons enabling boaters to fully retract (raise), or fully deploy (lower) both trims tabs with one quick touch of a button.

- **“ALL UP” Button:** Pressing this button will cause both tabs to fully retract.
- **“ALL DN” Button:** Pressing this button will cause both tabs to fully deploy.

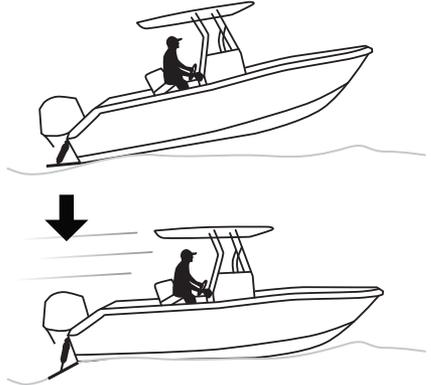
Using the “All DN” Button

When the ALL DN button is pressed ATP will fully deploy the trim tabs. The ATP controller will monitor the position of the trim tabs and keep trying to put them fully down until the tabs have reached the full-down position.



Fully Deploys (Lowers)Both Tabs

The ALL DN button provides a quick and easy way to put the tabs full down if the tabs are being used in a manual mode.



⚠ CAUTION

The ALL DN Button will move the trim tabs to the full-down position. This can have a dramatic effect on the attitude of the vessel as both tabs are deployed. The tabs will deploy at the same speed, so it is normal for the tab that was deployed further to reach its limit first. If the boat is underway, the boat may react by a sudden decrease in speed, or listing as the tabs are brought into a full-down position.

Use care when operating a vessel with the trim tabs in a full-down position. In some boats tabs in a full-down condition can make the vessel subject to bow steering at medium to high speeds. Tabs should be brought back up for high speed operation.

Using the “All UP” Button

When the ALL UP button is pressed the ATP controller will fully retract the trim tabs. The ATP controller will



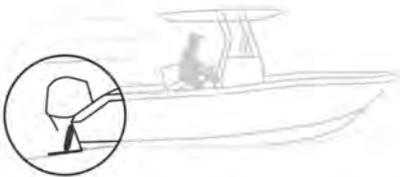
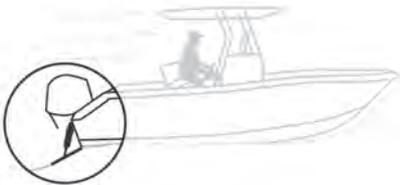
Fully Retracts (Raises) Both Tabs

monitor the position of the trim tabs and keep trying to retract the tabs until the tabs have reached the full-up position. The ALL UP button provides a quick and easy way to bring the tabs full up if the tabs are being used in a manual mode. It is normal for the user to retract the trim tabs immediately after getting the boat on plane.

⚠ CAUTION

The ALL UP Button will bring the trim tabs to the full-up position. This can have a dramatic effect on the attitude of the vessel as both tabs are retracted.

The Tabs will retract at the same speed, so it is normal for the tab that was deployed further to retract slower. The boat may react by increasing speed, or listing as the tabs are brought to a full-up position.



Using Automatic Mode

The Favorite (FAV) Buttons



Sets Favorite
Position 1

Sets Favorite
Position 2

The ATP Helm Display allows for the user to set two different favorite positions. These positions are a combination of pitch and roll attitudes that the user feels are comfortable or useful running attitudes for the boat.

One favorite position may be set such that the boat's roll attitude is level and the pitch attitude is relatively flat. This is a normal operating condition. In automatic mode, the ATP will operate the trim tabs to attempt to maintain this attitude as speed, engine RPM and weight distribution changes occur. A second favorite position may be set with the port bow high to minimize spray in windy conditions for example.

“FAV 1” Button: Pressing will activate the first stored favorite position. Pressing any manual

button, or ALL UP or ALL DN will cause the ATP system to stop automatic control.

“FAV 2” Button: Pressing will activate the second stored favorite position. Pressing any manual button, or ALL UP or ALL DN will cause the ATP system to stop automatic control.

Setting a Favorite Position (FAV1 or FAV2)

To enter AUTO mode, the user must first set the favorite position. To set the favorite position:

1. The user will manually adjust the trim tabs, throttle, and engine trim to attain the desired boat attitude.
2. After the desired attitude is set, the user will press and hold the FAV1 or FAV2 button to store the position. The FAV1 or FAV2 button must be pressed for at least three seconds to record the position. If the FAV1 or FAV2 buttons are pressed and held longer, the system will continue to monitor the boat's attitude during the time that the button is held then take an average of the position during that time. This is useful when the conditions are somewhat rough and the vessel is moving around during the time that the position is being set.

Using Automatic Mode continued

3. After the user releases the FAV1 or FAV2 button, the system will immediately go into automatic operation. When the ATP is in automatic mode, the FAV1 or FAV2 button that was pressed will illuminate with a blue LED to indicate that the unit is in automatic mode and trying to adjust the vessel to the position stored in the corresponding button. Automatic operation is described below. If the user attempts to go into automatic mode and there is no position stored, the FAV1 or FAV2 button that was pressed will flash a yellow LED. No automatic operation will be performed.

Starting Auto Mode

To activate automatic trim tab operations, press and release the FAV1 or FAV2 button. In order to



start automatic operations, the unit must have the FAV position set (see “Setting a Favorite Position” on pg. 25), and the initial set-up

described on pg. 12 must have been already performed.

⚠ CAUTION

Pressing and holding either FAV button for more than 3 seconds will reset to the current position. The ATP will then try to maintain the boat in the new current position.

Exiting Auto Mode

To exit auto mode, any manual or semi-automatic button (shown below) can be pressed and the system will stop automatic control, allowing the user to control the trim tabs manually.



For a detailed explanation of how auto mode works, see the following section "Understanding Automatic Operation".

Understanding Automatic Operation

The following information is not required reading to operate your AutoTrim Pro in automatic mode. However this section is designed to provide you with an in-depth understanding of how automatic operation will effect your vessel in various states.

Normal Operating States

The Bennett ATP system utilizes the information about the boat's pitch and roll position to determine the basic operation state that the boat is being used in. The basic state types of use are:

1. Rest
2. Idle
3. Acceleration
4. Planing
5. Turning
6. Deceleration

In normal operation the boat will progress through these basic operation states. The following example shows how a boat may progress through these operating states in normal use.



Understanding Automatic Operation continued

If your boat is not equipped with NMEA2000, see Appendix (Pg. 39)

ATP Response to Normal Operating States

This section will explain the basic operating states and the ATP system's response to those operating states.

Rest Mode



The ATP system will move into the **Rest** mode when the ATP controller senses that the boat speed over ground is near 0 mph. In this mode the trim tabs will be brought to the full-up position. The ATP will make no attempt to control the attitude of the vessel. **For non-NMEA2000 Systems see Appendix Pg. 39.**

Idle Mode



The ATP system will move into the **Idle** mode when the ATP controller senses that the boat over ground is less than 4 mph. In this mode the trim tabs will be brought to the full-up position. The ATP will make no attempt to control the attitude of the vessel while in **Idle** mode as the speed of the vessel is too low to have any meaningful effect on the trim tabs. The ATP system will automatically look for the vessel to move into the **Idle** mode when it

detects a deceleration. **For non-NMEA2000 Systems see Appendix Pg. 39.**

Acceleration Mode



The ATP system will automatically move into **Accel** mode when the ATP controller senses an acceleration AND an increase over ground above 20 mph. In the **Accel** mode, the trim tabs will be fully deployed to assist the vessel with getting on to plane, then move the trim tabs to the anticipated operating position (the position that the trim tabs were at when the FAV position was set). The ATP will wait for a few seconds for the vessel to settle, then it will begin to automatically transition into a **Planing** Mode where the ATP will automatically control the trim tabs to attempt to move the vessel to the FAV position that was set. **For non-NMEA2000 Systems see Appendix Pg 39.**

Planing Mode



Planing Mode is a relatively steady state condition where the ATP will attempt to maintain the attitude of

the vessel at the preset FAV attitude by moving trim tabs. In this mode the ATP will correct roll and pitch changes. It is important to keep in mind that the ATP control cannot make the trim tabs do anything that the user could not do in manual mode. If it is not possible for the trim tabs to adjust the boat's attitude based on the current speed, loading and water conditions, then the ATP will not be able to make the trim tabs improve performance. If the trim tabs do not have enough effect on the vessel, please call Bennett Marine or your dealer to discuss options that may improve the performance of the trim tabs system.

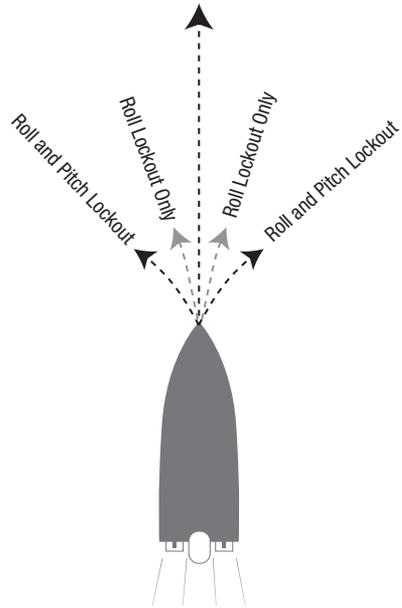
The ATP system has been designed to mimic what an operator would do. During normal operation, the boat will roll and pitch in response to waves. The boat operator ignores these normal movements and does not try to adjust for these momentary conditions by altering the position of the trim tabs. The boat operator will use the trim tabs to adjust for weight shifts, loading conditions, or throttle positions. The ATP system will work the same way. The ATP will ignore roll and pitch conditions caused by the boat rocking and pitching in the water, and look for longer term average movements. The ATP will attempt to correct for these long-term conditions. **For non-NMEA2000 Systems see Appendix Pg. 39.**

Turning Mode (Lockout)

While the vessel is operating in **planing** mode, it is normal for the boat to be turned as the operator



navigates a desired course. As a boat turns, the changing water flow under the vessel will cause the pitch and roll attitude of the vessel to change while the boat is in a turn. As soon as the vessel exits the turn, the boat's attitude will return to normal. Turns during operation of a boat are a very temporary condition. For this reason



Understanding Automatic Operation continued

the ATP controller will sense that the boat is in a turn and modify the way that it tries to adjust. If the turn is fairly gradual (less than 1 degree per second) the ATP control will still make adjustments to the boat to compensate for pitch changes. These pitch changes are uniform on both tabs. If the turn is more than just gradual (more than 1 degree per second) the ATP controller will sense the turn, and cease trying to make adjustments while the boat is in a turning mode. Turns in a boat are almost always a temporary condition, so the ATP will allow for this temporary condition, and return to automatic control after the boat is back to normal operating conditions. After a turn the ATP control will wait four seconds to allow the vessel to settle before attempting to begin automatic control again.

Deceleration Mode



The ATP will monitor the speed over ground from the GPS and sense a deceleration and the associated bow rise as a boat is decelerating and coming off plane. The ATP controller will fully deploy the trim tabs when it senses this condition to minimize the amount of bow rise associated with

the deceleration. The ATP controller will then look for the vessel to enter **Idle** mode as the boat slows. The ATP controller will automatically raise the trim tabs to a full-up position as it sees the boat's attitude move into **Idle** mode. As soon as the ATP system senses the deceleration and puts the tabs down, the system will stop all automatic adjustments, as trim tabs will have no effect on the vessel as the boat is moving slowly.

Special Conditions

Hole Shot: A hole shot is a special condition where the boat operator wants to get the boat up and on plane as quickly as possible. The ATP will sense the boat's acceleration and bow rise and deploy the tabs automatically, but the user can put the tabs full down before the acceleration begins by putting the vessel in hole shot mode.

To enter Hole Shot Mode:

1. Press the ALL DN button to fully deploy the tabs.
2. As the tabs are moving down, the operator will press the FAV1 or FAV2 button that is desired.

The system will now leave the tabs full down until the vessel is accelerated. This will help the vessel get on plane faster than it would when the tabs are deployed as the

vessel is accelerating. When in hole shot mode, the ATP will leave the tabs down until the boat's attitude moves below the planing angle, then the boat will enter **Accel** mode and move the trim tabs to the anticipated operating position as the vessel gets up on plane. In **Accel** mode, the ATP will wait four seconds for the vessel to settle, then it will move to planing mode.



These two LEDs will flash alternately to indicate the system senses rough sea conditions.

Rough Seas: Rough seas are a special condition where the boat is



pitching and rolling excessively due to sea conditions. In rough sea conditions, it is best if the operator takes control of the trim system. The ATP system is constantly monitoring sea conditions for large swings in pitch and roll, as well as excessive pounding from waves. Upon detecting rough sea conditions, the ATP control will stop automatic trim tab operations and fully retract the trim tabs. The ATP control will indicate that the system has detected rough seas by flashing the blue lights on the FAV1 and FAV2 buttons. The lights will continue to flash until sea conditions have changed. When the ATP senses that the sea conditions are calmer, the ATP will again resume normal operation.

Troubleshooting

Installation & Start Up

ATP Helm Display not illuminating

As soon as power and ground are connected to the ATP display, the display will flash the LEDs, starting from the outside corners and moving toward the center. If LEDs are not seen flashing when power is applied, no power is supplied to the ATP Display.

- **Potential Cause 1:** There is no power to the ATP Helm Display orange wire.
 - **Solution:** Check for power connection to the ATP Helm Display to ensure it is turned ON. This should normally be the same power source as the helm instrumentation.
- **Potential Cause 2:** There is no ground connection to the ATP Helm Display black wire.
 - **Solution:** Check for a ground connection.
- **Potential Cause 3:** The ATP Helm Display has been dimmed to the off position.
 - **Solution:** Press the SUN button several times to brighten the display.
- **Potential Cause 4:** The fuse may be blown on the ATP Helm Display.
 - **Solution:** Check the fuse at the ATP Helm Display. The fuse should be 1.5A.

ATP Helm Display illuminates on power-up but then goes dark

The ATP Helm Display will turn off when there is no communication between the ATP Helm Display and the ATP Control Unit.

- **Potential Cause 1:** The ATP Control Unit has no power applied to it.
 - **Solution:** Verify that the red Power LED in the lower center of the ATP Control Unit is illuminated. If it is not illuminated, check the power supplied to the orange and black wires of the ATP Control Unit.
- **Potential Cause 2:** There is no communication between the ATP Helm Display and the Control Unit.
 - **Solution a:** Verify that the ATP communications LED is flashing. This is the lower left LED on the ATP Control Unit. If this LED is not flashing, there is no communication between the ATP Helm Display and the ATP Control Unit.
 - **Solution b:** Verify that the ATP Helm Display communications cable is connected to the communications cable on the ATP Control Unit. An extension cable may be used between the ATP Helm

Display and the ATP Control Unit. This cable should be a thin gray cable with a four position connector.

- **Solution c:** Unplug the ATP Helm Display communications cable and inspect the pins inside the connector. If a pin has been pushed back, remove the orange retainer, push the pin forward until it clicks, then replace the orange retainer.

ATP Helm Display has the two blue LEDs above the FAV1 and FAV2 buttons flashing

The ATP Helm Display will flash the blue LEDs above the FAV1 and FAV2 buttons when the ATP Control Unit has not been oriented to the boat. This is normal as the system is shipped without an orientation configuration. The orientation must be performed with the boat in the water, and the system completely functional.

- **Potential Cause:** The ATP system has not been oriented following the ATP Control Unit installation.
- **Solution:** Verify that the trim tabs function properly when the manual buttons are pressed. Follow the Orientation procedure on pg. 12.

Tabs do not retract when ignition is turned off

- **Potential Cause:** The system is not wired to a power source that shuts off when the ignition is turned off.
 - **Solution:** Re-wire to a power source that shuts off with the ignition. Connect the purple wire from the back of the Helm Display to a power source that is shut off by the ignition.

Display LEDs do not go off when the ignition is turned off

- **Potential Cause:** The system is not wired to a power source that shuts off when the helm instrumentation power is turned off.
 - **Solution:** Re-wire to power source that shuts off with the helm instrumentation power. Connect the orange wire from the back of the Helm Display to a power source that is shut off by the ignition.

Trim Tabs not responding when ATP Helm Display buttons are pressed

- **Potential Cause 1:** There is no communication between the ATP Helm Display and the Control Unit.

- **Solution a:** Verify that the ATP communications LED is flashing. This is the lower left LED on the ATP Control Unit. If this LED is not flashing, there is no communications between the ATP Helm Display and the ATP Control Unit.
- **Solution b:** Verify that the ATP Helm Display communications cable is connected to the communications cable on the ATP Control Unit. An extension cable may be used between the ATP Helm Display and the ATP Control Unit. This cable should be a thin gray cable with a four position connector.
- **Solution c:** Unplug the ATP Helm Display communications cable and inspect the pins inside the connector. If a pin has been pushed back, remove the orange retainer, push the pin forward until it clicks, then replace the orange retainer.
- **Potential Cause 2:** The ATP Control Unit has no power applied to it.
 - **Solution a:** Verify that the red Power LED in the lower center of the ATP Control Unit is illuminated. If it is not illuminated, check the power supplied to the orange and black wires of the ATP Control Unit.
- **Potential Cause 3:** The Actuators are not connected to the ATP Control Unit.
 - **Solution:** Verify that the white and black cable from the upper right side of the ATP Control Unit is connected to the Starboard actuator cable. Verify that the white and black cable from the lower right side of the ATP Control Unit is connected to the Port actuator cable.
- **Potential Cause 4:** The trim tab system is not functioning properly.
 - **Solution:** The ATP installation assumes a fully functioning trim tab system is in place before the ATP system is installed. Refer to the Trim tabs owner's manual for full instructions on installation and troubleshooting. Also refer to troubleshooting at BennettTrimTabs.com or call our support line at (954) 427-1400 M-F 8AM - 5PM EST.

Operations**FAV button pressed and unit will not go into auto mode**

- **Potential Cause 1:** There is no FAV position stored.

Solution: Check for flashing yellow LEDs above the FAV1 or FAV2 buttons as the FAV button is pressed. This is an indication that there is no position stored in the FAV button that has been pressed. To store a position, manually adjust the boat into the desired attitude using the throttle, engine trim and trim tabs. Press and hold the FAV button. Button must be held for at least three seconds. The ATP will go to automatic control mode as soon as the button is released.

- **Potential Cause 2:** Orientation has not been not completed.

Solution: Follow the orientation procedure on pg. 12.

- **Potential Cause 3:** No GPS info from NMEA2000.

- **Solution 1:** Verify that the NMEA2000 line from the ATP controller is plugged

into the NMEA2000 bus

- **Solution 2:** Verify that there is a GPS unit on the NMEA2000 bus to supply speed over ground.

ATP Helm Display has the two blue LEDs above the FAV1 and FAV2 buttons flashing

The ATP Helm Display will flash the blue LEDs above the FAV1 and FAV2 buttons when the ATP Control Unit has not been oriented to the boat. This is normal as the system is shipped without an orientation configuration. The orientation must be performed with the boat in the water, and the system completely functional.

- **Potential Cause:** The ATP system has not been oriented following the ATP Control Unit installation.
 - **Solution:** Verify that the trim tabs function properly when the manual buttons are pressed. Follow the Orientation procedure on pg. 12.

No response from the ALL Up button

- **Potential Cause:** The tabs are already in full-up position.
 - **Solution:** The system is working as designed.

No Response from the ALL DN Button

- **Potential Cause:** The tabs are already in full-down position.
 - **Solution:** The system is working as designed.

System comes out of FAV mode

- **Potential Cause 1:** A manual trim tab button, ALL Up or ALL Down has been pressed.
 - **Solution:** The system is working as designed. Pressing any button will cause the system to exit automatic operation.
- **Potential Cause 2:** The system has detected rough sea conditions.
 - **Solution:** If the system flashes the blue LEDs above the FAV1 and FAV2 buttons and stops automatic operation, the system is working as designed. The system will constantly monitor conditions and when the system detects excessive roll conditions or excessive pounding, the system will retract the tabs and exit automatic mode. Under these kinds of conditions, the user must operate the trim tabs manually.
- **Potential Cause 3:** Intermittent power has caused the system to brown out and restart.
 - **Solution:** Verify the power connections to the ATP Helm Display and the ATP Control Unit. If there is a temporary power outage the system will shut down and restart. After each restart the ATP

Helm Display will flash all the LEDs starting in the outside corners and moving toward the center. Rewire the system such that the power source for the ATP display is a clean, stable source not affected by voltage drops when large loads are operated.

System brings tabs full up and will not auto control

- **Potential Cause:** System has detected rough sea conditions.
 - **Solution:** If the system flashes the blue LEDs above the FAV1 and FAV2 buttons and stops automatic operation, the system is working as designed. The system will constantly monitor conditions and when the system detects excessive roll conditions or excessive pounding, the system will retract the tabs and exit automatic mode. Under these kinds of conditions, the user must operate the trim tabs manually.

System tries to maintain a position that is not the position that was set

- **Potential Cause 1:** Position has been accidentally reset by pressing and holding the FAV1

or FAV2 buttons for more than 3 seconds.

- **Solution:** Reset the FAV1 or FAV2 position. Manually adjust the boat to the desired position. Press & hold the FAV1 or FAV2 buttons for 3 or more seconds to store the desired position. See pg. 25 for more details.
- **Potential Cause 2:** The trim tab system is not capable of moving the boat to the desired position.
 - **Solution:** Verify that the user can manually adjust the trim tab system to move the boat to the desired position at the same load, engine RPM, and engine tilt settings. If the trim tab system cannot adjust the boat under manual operation, it will not be able to adjust it under automatic operation.

ATP will not control the boat attitude

- **Potential Cause 1:** The actuators are plumbed or wired backwards.
 - **Solution:** Verify that when in manual mode that pressing the upper left manual control button causes the right (starboard) tab to go down. Verify that when in manual mode that pressing the upper right manual control button

causes the left (port) tab to go down.

- **Potential Cause 2:** The ATP Control Unit not installed in a good location.
- **Solution:** The ATP Control Unit must be installed on a rigid, non-moving surface, away from any magnetic objects. Move the ATP Control Unit to a more suitable location (see pg. 7), then repeat the set-up and orientation procedures.
- **Potential Cause 3:** The ATP Control Unit orientation is not correct.
 - **Solution:** The ATP Control Unit must be oriented to the boat. If the orientation is reset while the boat is in the wrong position, the ATP will not properly control the boat. To reset the orientation, follow the orientation procedure on pg. 12.
- **Potential Cause #4:** NEMA2000 Data Not Available.
 - **Solution:** The system will utilize the GPS data to know the boats Speed Over Ground (SOG). Verify that the GPS is NEMA2000 capable and connected to the NEMA2000 Bus.

Additional troubleshooting steps specific to non-NMEA2000 systems can be found on pg. 44.



APPENDIX: For Non-NMEA2000 Systems

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Troubleshooting (Specific to non-NMEA2000 systems).....	44

Installation of the AutoTrim Pro up to this point in the manual has assumed the presence of a NMEA2000 backbone within the boat. The following instructions are additional installation and troubleshooting steps to be used if there is not a NMEA2000 backbone present.

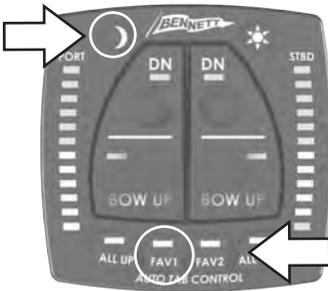
APPENDIX: Angle Set-up (Non-NMEA Systems)

Angle Set-up

The ATP system will evaluate the vessel's pitch angle to determine the mode the boat is operating in. In order to properly measure the pitch and roll attitude of the boat, the ATP Control Unit must be oriented to the boat. (Pg. 12)

1. Idle Angle Set-up

The idle angle is used to determine that the vessel is in a slow moving state. Trim tabs should be fully retracted any time the vessel is moving at idle speed as trim tabs will have no effect without water pressure against them. The idle angle should be set in calm water with the trim tabs fully retracted, and the vessel idling at a fast idle speed, usually about 1500rpm-2000rpm. The boat should be throwing a wake no larger than what would be acceptable in a NO WAKE zone. To set the idle angle, get the boat moving at an appropriate idle speed, run the boat at this speed for 10-15 seconds to allow the boat to settle into a steady running attitude. After settling, press and hold the moon button and the FAV1 button at the



same time for at least 5 seconds (or longer which will calculate the average measurement during that

span of time).

Once the buttons are released, the system will flash all four corner LEDs to indicate that a setting has been made.

2. Planing Angle Set-up

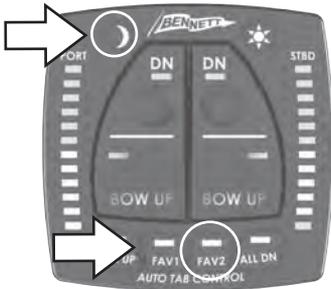
The planing angle is used to determine that the vessel is on plane. The trim tabs will be deployed to varying degrees while the boat is planing to improve the boat's attitude in roll and pitch. The planing angle is not necessarily the target position that the boat will be maintained at, rather it is an identifier to tell the system that the boat is in the planing mode. If the boat's pitch angle drops below the planing angle, the system will automatically retract the tabs. If the boat's pitch angle is above the planing angle, the system will automatically control the trim tabs.

To set the planing angle:

The planing angle should be set in relatively calm water. Put the trim tabs to a half-down position and carefully run the boat at it's fastest safe speed to set the planing angle.

APPENDIX: Angle Set-up (Non-NMEA Systems)

When the boat has settled into a steady pitch position, and a steady speed, wait approximately 15 seconds to ensure the boat has settled on plane, then press and hold the Moon and FAV2 buttons



for 5 seconds (or longer which will calculate the average measurement during that span of time). This will set the planing angle.

Once the buttons are released, the system will flash all four corner LEDs to indicate that a setting has been made.

⚠ Caution: The boat may be temporarily very over-trimmed in this attitude and have a potential to bow steer during the set-up only.

This is not the target position, but rather a procedure to set the limits of the operation range of the trim tabs.

You are now finished with the one-time Angle Set-up procedure and will not need to perform this set-up again. To set or activate either FAV setting, see the "Using Automatic Mode" section on pg. 25.

Favorite Buttons



Understanding Automatic Operation: (Non-NMEA Systems)

ATP Response to Normal Operating States

This section will explain the basic operating states and the ATP system's response to those operating states.

During the set-up phase of the installation, an initial orientation and three pitch angles were set that are associated with the vessel. These are the **Rest** angle, the **Idle** angle and the **Planing** angle. The ATP controller will utilize these angles to help determine the type of operation that the boat is currently being used in. For information on the initial set-up, please refer to pg. 12.

The **Rest** angle was set while the boat was still in the water (Pg. 12).

The **Idle** angle was set with the boat idling at a speed that represents a no-wake zone speed (Pg. 40).

The **planing** angle was set with the boat up on plane and the trim tabs down (Pg. 40).

Rest Mode



The ATP system will move into the **Rest** mode when the ATP controller

senses that the boat is at or below the **Rest** angle that was set. In this mode the trim tabs will be brought to the full-up position. The ATP will make no attempt to control the attitude of the vessel.

Idle Mode



The ATP system will move into the **Idle** mode when the ATP controller senses that the boat is at or below the **Idle** angle that was set. In this mode the trim tabs will be brought to the full-up position. The ATP will make no attempt to control the attitude of the vessel while in **Idle** mode as the speed of the vessel is too low to have any meaningful effect on the trim tabs. The ATP system will automatically look for the vessel to move into the **Idle** mode when it detects a deceleration.

Acceleration Mode



The ATP system will automatically move into **Accel** mode when the ATP

Understanding Automatic Operation: (Non-NMEA Systems)

controller senses an acceleration AND an increase in the pitch angle past the **Planing** angle that was set. In the **Accel** mode, the trim tabs will be fully deployed to assist the vessel with getting on to plane, then move the trim tabs to the anticipated operating position (the position that the trim tabs were at when the FAV position was set). The ATP will wait for a few seconds for the vessel to settle, then it will begin to automatically transition into a **Planing** Mode where the ATP will automatically control the trim tabs to attempt to move the vessel to the FAV position that was set.

Planing Mode



Planing Mode is a relatively steady state condition where the ATP will attempt to maintain the attitude of the vessel at the preset FAV attitude by moving trim tabs. In this mode the ATP will correct roll and pitch changes. It is important to keep in mind that the ATP control cannot make the trim tabs do anything that the user could not do in manual mode. If it is not possible for the trim tabs to adjust the boat's attitude based on the current speed, loading

and water conditions, then the ATP will not be able to make the trim tabs improve performance. If the trim tabs do not have enough effect on the vessel, please call Bennett Marine or your dealer to discuss options that may improve the performance of the trim tabs system.

The ATP system has been designed to mimic what an operator would do. During normal operation, the boat will roll and pitch in response to waves. The boat operator ignores these normal movements and does not try to adjust for these momentary conditions by altering the position of the trim tabs. The boat operator will use the trim tabs to adjust for weight shifts, loading conditions, or throttle positions. The ATP system will work the same way. The ATP will ignore roll and pitch conditions caused by the boat rocking and pitching in the water, and look for longer term average movements. The ATP will attempt to correct for these long-term conditions.

Troubleshooting: (Non-NMEA Systems)

The following troubleshooting steps are specific to non-NMEA2000 systems. All other troubleshooting steps can be found starting on pg. 32.

Operations

FAV button pressed and unit will not go into auto mode

- **Potential Cause:** The angle set-up has not been completed.
 - **Solution:** Follow the angle set-up procedure on pg. 40.

System will not automatically retract the tabs when the boat is idling or at rest

- **Potential Cause:** The idle Angle is set too low.
 - **Solution:** The boat is not settling below the idle angle so the tabs are not being retracted. Reset the idle angle with the boat at a slower speed when the idle angle is set. Do not set the idle angle with a heavily loaded bow. See pg. 40.

System will not automatically deploy the tabs on acceleration

- **Potential Cause 1:** Idle Angle is set too low.
 - **Solution:** The boat is not settling below the idle angle so the tabs are not being retracted. When the system

does not detect a settling and a full-tab retraction, it assumes the system is still in planing mode. The system will not fully deploy the tabs on acceleration to prevent false full-tab deployment. Reset the idle angle with the boat at a slower speed when the idle angle is set (See pg. 40). Do not set the idle angle with a heavily loaded bow.

- **Potential Cause 2:** Slow Acceleration.
 - **Solution:** The system detects accelerations to determine that the boat needs to put the tabs down. If the boat is accelerated very slowly, the system may not detect the acceleration. As the bow rises, the system will go into automatic control mode and put the tabs down in a control mode, but it will not rapidly deploy the tabs. If the boat is accelerated slightly faster, the acceleration may be sufficient to be detected and drive the tabs down.

System retracts the tabs at high speeds

- **Potential Cause 1:** Planing Angle decreased below the idle angle.
 - **Solution:** If the boat is moving fast and slightly bow heavy, the boat can attain a planing attitude that is below the angle that the boat might idle at. In this case, the system thinks that the boat is moving slow, so it retracts the tabs. This situation can be changed by resetting the planing angle at a lower angle (See pg. 40). Use a higher speed and additional tab deployment when resetting the planing angle.

- **Potential Cause 2:** The operating speed of the boat naturally drives the hull below the FAV position.
 - **Solution:** If the boat is moving fast and the FAV position is set at a relatively low speed, as the boat speed increases, the bow angle will naturally decrease. The system will recognize that the bow is low and try to bring the tabs up to compensate. Once the tabs are full-up, the tabs no longer have any effect on the bow angle. The tabs cannot raise the bow to achieve the FAV position. Use the engine trim to raise the bow and the boat will come back into the operating range where the trim tabs are effective.

Bennett Marine Warranty

We at Bennett Marine, (Bennett) are committed to product quality and customer satisfaction. We've supported our products for more than half a century and have earned a reputation for exceptional service and support. In keeping with that tradition Bennett provides a Limited Warranty for its Products. Please see the table below for our Warranty details.

Disclaimer And Exclusion Of

Warranties: This warranty is meant to be a complete and exclusive statement of the terms of all express warranties offered by Bennett. To the extent permitted by law, there are no warranties, express or implied, including any implied warranties of merchantability or fitness for a particular purpose extended by Bennett other than the express warranty set forth in this instrument. Some states do not allow the exclusion of, or limitations to, implied warranties so the above limitation may not apply to you.

Warranty Claim Procedure: To make a claim please call Bennett Marine at 954-427-1400 to troubleshoot the issue and start the claim process. You will be asked to complete a form that can be found online at BennettTrimTabs.com/Warranty and return the part for warranty evaluation. Parts will be evaluated upon receipt and any part found to meet the above warranty criteria will be repaired or replaced at Bennett's option. Replacement or repaired part, will be shipped at no cost to customer via ground freight to US destinations only. Any expedite methods will be at customer's expense.

Transferability: Before expiration of the warranty period, this Limited Warranty is fully transferable to subsequent owners of the boat on which it is originally installed and is void if the product is removed and reinstalled on another boat or is used for purposes for which it was not originally purchased.

Limitation And Exclusion Of Remedies:

Bennett's sole responsibility shall be the repair or replacement, at its option, of any defective part or component. In certain instances Bennett reserves the right to provide refurbished parts. Customer agrees that this is the sole and exclusive remedy under this Limited Warranty. Bennett will not be responsible for any incidental, consequential or indirect damages, including loss of use as a result of any manufacturing defect in a product. Bennett will not be responsible for labor, haul out, or any other fees associated with the removal or installation of warranted parts. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you.

Product modification: Bennett reserves the right to change, modify or improve the products without obligation to incorporate such changes in products previously sold or installed. With respect to components or products replaced under this warranty, Bennett Marine reserves the right, in its sole discretion, to provide updated or current model components or products.

Return Procedure For Customers

Outside U.S.: For international returns, please refer to our worldwide distributor map on our website BennettTrimTabs.com/find-a-dealer to contact your local Bennett Marine distributor for warranty and returns procedures in your respective country.

Product	Warranty Period
AutoTrim Pro Helm Display	3 years
AutoTrim Pro Control Unit	3 years

See BennettTrimTabs.com/Warranty for a list of all Bennett product warranties



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