

# **OPERATOR'S MANUAL**

**Supplement - Water Sports Control  
V6-240, V6-280,  
V8-300, V8-350, V8-380, V8-430  
EVC**



## Water Sports Control



The Water Sports Control (WSC) system provides a single control unit for boat equipment that is used to fine-tune the boat's performance, ride, and wake during water sports activities. The system controls boat speed, trim tab deployment, drive trim angle, and ballast tank levels<sup>1</sup>.

Groups of settings can also be saved to provide quick return to boat settings that provided the wanted wake. This helps with repeatability of wakes for future boating sessions.

### **⚠ CAUTION!**

Whenever possible make setting changes to the system while the boat is stationary. If setting changes are made when the boat is underway the operator must remain in full control of the boat, including keeping a watch for other boats, people, or obstacles in the boat's path.

### **⚠ CAUTION!**

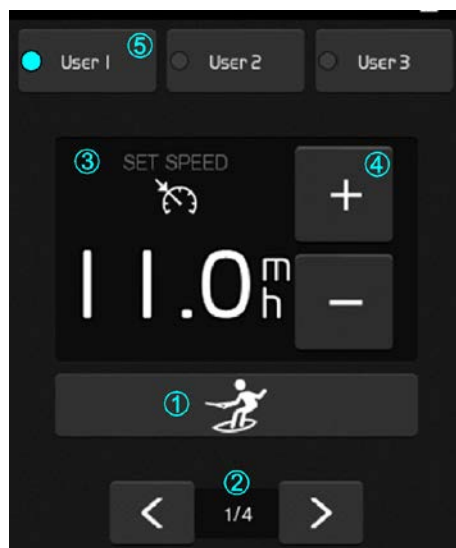
The operator should be prepared for changes to the boats steering and handling that may happen when the setting changes are activated.

<sup>1</sup> Control of trim tabs and ballast tanks requires installation of additional equipment and may not be available on your boat.

## Water Sports Control Display

See the owner's manual loaded in the display for options for displaying the WSC screen on the display.

This screen displays the functions available in the WSC program;



- ① The Water Sports Control icon, select here to activate WSC. Blue here indicates WSC is active.
- ② Move between the settable parameters with the arrow buttons.
- ③ Displays the parameter currently active.
- ④ Adjustments for the parameter.
- ⑤ User buttons. If active, the blue light on the left is lit. See *User* below.

### Set Speed

Use this panel to set the speed for the water sports activity.

#### Set speed

Select the proper engine speed to create the wake you want for your type of water sports.

Use the + or – buttons to adjust the speed.

A valid GPS signal is required to use the Speed functions. The Speed Source must be set to Speed (not RPM), see Menu below.

**NOTE:** The speed must be below 14 mph to use surf modes.

# Water Sports Control User Guide

## Trim Tabs

Use this panel to adjust the location of the wake created by the tabs.

This parameter is not available on all systems.

### Settings

**Surf Left** – the tabs are deployed to create the wake on the left side of the boat.

**All Up** – the tabs are completely retracted and are not affecting the wake.

**Surf Right** – the tabs are deployed to create the wake on the right side of the boat.

On the active selection, the blue light is lit.

**NOTE:** The system automatically retracts the trim tabs above a certain speed, above the range of normal water sports activity.

The tabs are also fully retracted when Water Sports Control is turned off, and when the engine is turned off.

## Set Power Trim

Use this panel to adjust the drive trim angle.

### Set power trim angle

Select the proper drive trim to produce the desired wake characteristics and boat ride.

Use the + or – buttons to adjust the trim angle.

See the material starting at *Powertrim/Tilt* in the engine's operator's manual for complete coverage of the power trim function.

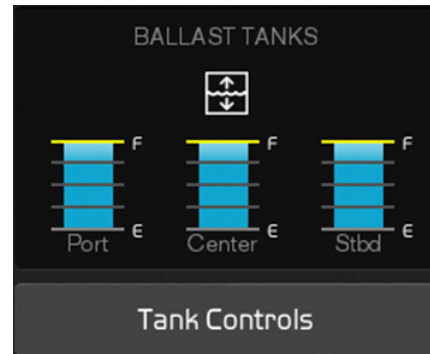
## Ballast tanks

This parameter is not available on all systems.

The system controls the pumps that are used to fill or drain the ballast tanks. The display shows up to three ballast tanks, only the number of tanks that are connected to the system are displayed.

The graph shows the fill level of each tank.

The tank fill levels can be adjusted to control the size and shape of the boat's wake.



### Tank Controls

Select the **Tank Controls** button.

On the Ballast Tanks screen;

Use the + or – buttons to adjust individual tank levels.

**Stop** – ceases all tank fill/drain actions.

**Fill All** – operates the pumps to fill all tanks.

**Drain All** – operates the pumps to drain all tanks.

### Factory presets

Tank fill rates/times are preset at the boat manufacturer.

They can be changed by the owner if conditions have changed and the tanks are not filling or draining properly.

**NOTE:** Do not use long fill or drain times, this might damage the pumps.

# Water Sports Control User Guide

## User

You can set and name three groups of settings, to return easily to settings that provided a particular wake or ride.

When you have adjusted the settings for all four parameters and want to save them for future use, hold one of the **User** buttons, until the light is lit.

If that User button already has settings saved you will get an over-ride message; Overwrite this preset. Select **Yes**.

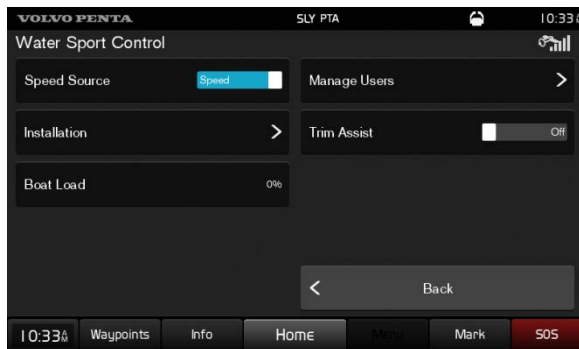
If a User is active the blue light is lit.

You can rename the Users, see Menu below.

## Menu

Several customizations are possible for the Water Sports program.

Select **Menu > Water Sports**



## Speed Source

Options are **Speed** and **RPM**.

Speed is the required for full Water Sports Control functionality.

If RPM is selected, only engine RPM and power trim angle can be set.

## Installation

There are two selections; Tank Fill and Tank Drain. These tank times are preset at the factory.

The setting can be adjusted if the pre-set times are not adequate. This can also be used to adjust for weakening pumps or for replacement pumps which may have different capacities.

## Boat Load

The boat load setting is used to compensate for any additional large load that is placed in the boat.

Normally this setting is not used (set at 0%).

However, if you install a heavy third party tank system or the installed tanks are very large, use this setting to compensate for the change in load. Adjust the slider to a value above 0% to approximate the new load.

Use the **Up** or **Down** buttons to move the slider.

This information helps the system adjust throttle response on take-off to compensate for the load condition.

**NOTICE!** Never exceed the weight limit posted by the boat manufacturer.

**NOTICE!** See the section *Static Water Line* in the engine's operator's manual before loading the boat.

## Manage Users

This is where you can customize the names for the Users.

Use the **arrows** to scroll through the Users.

At the desired User select **Rename**. The next screen (Preset Name) provides options for renaming. Select **Done** when finished.

**Reset** – resets the name and the parameters on the selected User to the factory default.

**Reset All** – resets the names and the parameters of all Users to the factory default.

## Trim Assist

This feature uses trim tab deployment to improve the boat launch from stationary to planning or water sports speed.

The settings are done by the factory.

The selection here is **On** or **Off**.

# Water Sports Control User Guide

## Operation

### CAUTION!

Whenever possible make setting changes to the system while the boat is stationary. If setting changes are made when the boat is underway the operator must remain in full control of the boat, including keeping a watch for other boats, people, or obstacles in the boat's path.

### CAUTION!

The operator should be prepared for changes to the boats steering and handling that may happen when the setting changes are activated.

After you have selected a User or manually entered settings, move the control lever in to the throttle position, the WSC system will maintain the settings you have selected.

Settings can be adjusted while underway, however remember that WSC only works at 14 mph and below.

Trim Assist helps the boat launch easier. It is activated when you select WSC or when you select PTA on the shifter. To use Trim Assist, it must be set to On in the Menu, see above.

At slow speeds, if Trim Assist is active, the trim tabs are down. If you are in reverse gear and throttle is above 10% Trim Assist is overridden and the tabs are retracted. Surf right or left also overrides the Trim Assist.

PTA (power trim assist) operates at speeds above the Water Sports limit. If it is activated the yellow PTA light is shown on top of the display. PTA on is also a way to activate Trim Assist.

The trim tabs are retracted when you turn the engine off.

For all selections a blue light indicates the feature is active.

A blinking blue light indicates the selected feature is not fully functioning. An example is a blinking blue light for a User, if Speed Source is set at RPM, the GPS (Speed) is not active and the User presets cannot be used (one parameter is Speed). To exit WSC return to idle or low speed and select WSC icon. Gray here indicates WSC is not active.



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