Tournament Events

The 3 Event screen can be accessed by pressing the Quick Access Key. This feature provides a way to keep a boat within the strict guidelines of the event it is tracking and provide a visual display of the track and the progress of the skier.

Tournament and Training Modes

There are two modes for the 3-Event feature, Tournament and Training. On the 3-Event Screen touch [Change Event] to access the pop-up list.

**Tournament Mode**  
Slalom Tournament  
Jump Tournament  
Trick

**Training Mode**  
Slalom Training  
Jump Training  
Trick

The Tournament Mode is limited to the set speed of the event.
The Training Mode operates like the Tournament Mode without the set speed limitation.

Slalom Screen—Tournament or Training

The screen illustrates the display available when the event being tracked is the Slalom event; the three-event feature is turned on and is in tournament mode. The
Touch Commands aid in setting up, controlling and tracking the Slalom event.

**Touch Commands**

**Description**

**Cruise** - Touch to turn cruise control ON or OFF. (or press the Quick Access Key from this screen.)

**Settings** – Select to set the Buzzer Volume, Prop Type, Timing Recap, and Slalom wait time. See Slalom Tournament Settings.

**Save New** – Select to setup a new rider profile. See Profiles.

**Change Event** – Touch to select an event from a list.

**Course Manager** – Allows you to map a course. See Course Manager.

**Pull Type** – Touch to select a pull type from a list.

**Plus-Factor** - Touch to select ON or OFF from the pop-up. This setting is for additional throttle when entering the first gate.

**Event Times** - Display the event times as the skier passes the mapped points. (Touch
the numbers to view the previously recorded times; *Timing Recap.*

**Slalom Settings—**

**Tournament or Training**

On the 3 Event Screen, touch the Settings touch command to access the pop-up list. Touch each option to view or change the setting. When available, touch the arrows to change the setting.

Touch [Settings]. On the Pop-up, touch the arrows to turn Buzzer Volume UP or DOWN.

Touch [Exit] to return to close the pop-up.

Touch [Settings]. Touch [Prop Type]. On the Pop-up, touch to change from 3 blade or 4 blade.

**Touch [Exit] to return to close the pop-up.**
Touch the arrows to select a course that is not mapped. Touch [Map Course].

**NOTE:** Additional Details on Course List: The blue lettering above the course list displays the mapped information for the course selected. Always highlight a course on the list page before mapping a new course. When mapping a course, the program assigns the mapping to whatever name is highlights on the course list. For example, if Course1 was previously mapped and is highlighted when a new course is mapped, the new mapping will overwrite the original.

Touch the arrows to select a course type: Jump, Slalom 4-Buoy or Slalom 8-Buoy. Touch [Continue].

Allow the program time to load.

Press the [Map Course] button when the GPS puck crosses the start gate.

**NOTE:** For Slalom, press the [Start Gate] button when the GPS puck crosses the start gate.

Press the [Start Gate] to begin Mapping.

For Jump, press the [Start Gate] button when the ski pylon crosses the start gate.

If necessary, touch [Cancel] to cancel the current mapping and return to the course list.

Press the [End Gate] to complete Mapping.

Course Mapping Successful will appear on the screen.
The new name is highlighted. Touch [Done].

**NOTE:** Additional Options on the Course List pop-up.

- **Auto Detect** – Touch to select ON or OFF. **Auto Detect ON** – the display automatically selects the nearest mapped course, based on the longitude/latitude that is the same event type the user is in (slalom or jump).
- **Edit Name** – Touch to go back and edit a previously saved course.
- **Map Course** – Touch to map another course.
- **Exit** – touch to return to the 3 Event screen.
- **List of Courses** - Touch UP and DOWN arrows to scroll the list and choose a course.

**Jump Screen–**

**Tournament or Training**

The screen illustrates the display available when the event is Jump Tournament; the three-event features are in tournament mode and ready for settings. Use the Touch Commands in setting up, controlling and tracking the Jump event.

**Touch Commands**

**Description**

- **Cruise** - Touch to turn cruise control ON or OFF. (or press the Quick Access Key from this screen.)
- **Settings** – Select to set the Buzzer Volume, Prop Type, Timing Recap, and Jump Switch Timeout.
- **Save New** – Select to setup a new rider profile. See Profiles.
- **Change Event** – Touch to select an event from a list.
Course Manager – Allows you to map a course. See Course Manager.

Jump Letter – Touch to select a Jump Letter, Weight, and Distance using the arrows to change the values. Touch [Accept] to save or [Cancel] to close pop-up.

Event Times - Display the event times as the skier passes the mapped points. (Touch the numbers to view the previously recorded times; Timing Recap.)

Jump Settings—
Tournament or Training

On the 3 Event Screen, touch the Settings touch command to access the pop-up list. Touch each option to view or change the setting. When available, touch the arrows to change the setting. Touch [Exit] to close the pop-up.

RTB - Touch to select ON or OFF from the pop-up.

Touch [Settings]. Touch [Buzzer Volume]. On the Pop-up, touch the arrows to set a value at high speed and low speed.

Touch [Settings]. Touch [Prop Type]. On the Pop-up, touch to set at 3 blade or 4 blade.
Touch [Settings]. Touch [Timing Recap]. The pop-up displays current and previous event times.

Touch [Settings]. Touch [Jump Switch Timeout]. On the Pop-up, touch the arrows to change the value.

NOTE: ZeroOff recommends keeping the default value of 1.8, (only changing in extreme conditions).

### Trick Screen

The screen illustrates the display available when the event is Trick Tournament; the three-event features are in tournament mode and ready for settings. Use the Touch Commands in setting up, controlling and tracking the Trick event.

#### Touch Commands

**Description**

- **Cruise** - Touch to turn cruise control ON or OFF (or press the Quick Access Key from this screen.)

**Settings** – Select to set the Buzzer Volume, Prop Type, and River Mode.

**Save New** – Select to setup a new rider profile. See Profiles.

**Change Event** – Touch to select an event from a list.
Course Manager – Allows you to map a course. See Course Manager.

Pull Type – Touch to select a Pull Type on the pop-up.

Plus-Factor - Touch to select ON or OFF from the pop-up. In the ON position, the system will react sooner to both increase and decrease in speed deviation. Used for trick setting or additional throttle when entering the first gate.

**Trick Settings—**

**Tournament or Training**

On the 3 Event Screen, touch the Settings touch command to access the pop-up list. Touch each option to view or change the setting. When available, touch the arrows to change the setting. Touch [Exit] to close the pop-up.

Touch [Settings]. Touch [Buzzer Volume]. On the Pop-up, touch the arrows to set a value at high speed and low speed.

Touch [Settings]. Touch [Prop Type]. On the Pop-up, touch to set at 3 blade or 4 blade.

Touch [Settings]. Touch [River Mode] to select ON or OFF. With River Mode ON, touch to set the River Dir Offset UP and DOWN values using the arrows.
Settings Menu

The Settings Menu screen can be accessed by pressing the Quick Access Key. The following settings are available:

<table>
<thead>
<tr>
<th>Touch Commands Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>User Settings</strong> – Allows you to customize the display options for ambient light and brightness, set US or metric units Tab, Ballast, and other settings.</td>
</tr>
<tr>
<td><strong>Service Information</strong> – Provides information about the software version, dealer, oil changes and dealer services.</td>
</tr>
<tr>
<td><strong>GPS Utilities</strong> – Displays Satellite Status and Time and Position Setup options.</td>
</tr>
<tr>
<td><strong>Factory Settings</strong> – Displays boat model, center tab, surf tabs and depth transducer. A dealer code is required to access.</td>
</tr>
</tbody>
</table>

**Diagnostics** – Displays Engine, PDM, and 3 Event Diagnostics including a list of fault codes and descriptions; on some screens, corrective action will be shown.


**IMPORTANT:** Use the 3-Event Charts for reference only. The charts will not reflect any changes, should a change occur in the rule book. We suggest periodically verifying the charts with the current rule book.

**User Settings**

On the Settings Menu, touch the User Settings touch command to access the first of two user settings screens. Touch the field following the option to change the setting. When arrows are available, touch the option to highlight it and touch the arrows to change the setting.
Touch [Next] to access the second screen and [Back] to return.

**Description of Options**

<table>
<thead>
<tr>
<th>Touch Commands</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Units</td>
<td>US Standard (US Std) or Metric</td>
</tr>
<tr>
<td>Fire Extinguisher</td>
<td>Enable (Pop-up) or Disable (Pop-up)</td>
</tr>
<tr>
<td>Auto Volume</td>
<td>Enable or Disable</td>
</tr>
<tr>
<td>Fuel Alarm</td>
<td>Sets the percent of fuel left in tank to deploy the alarm</td>
</tr>
<tr>
<td>Min Depth Alarm</td>
<td>ON or OFF</td>
</tr>
<tr>
<td>Day Brightness</td>
<td>Sets the screen brightness for daylight</td>
</tr>
<tr>
<td>Night Brightness</td>
<td>Sets the screen brightness for nighttime</td>
</tr>
<tr>
<td>Gauge Brightness - Day</td>
<td>Sets the gauge brightness for daylight</td>
</tr>
<tr>
<td>Gauge Brightness - Night</td>
<td>Sets the gauge brightness for nighttime</td>
</tr>
<tr>
<td>Tab Settings Page</td>
<td>Controls the tab positions for two trim tabs on the boat. See Tab Settings.</td>
</tr>
<tr>
<td>Ballast Settings Page</td>
<td>Controls the ballast fill and drain times. See Ballast Setting.</td>
</tr>
<tr>
<td>Connects to GPS</td>
<td>YES = There is no Paddle Wheel Offset field. NO = A Paddle Wheel Offset field is provided.</td>
</tr>
<tr>
<td>Paddle Wheel Offset</td>
<td>Sets the paddle wheel offset. (Only available if GPS is not connected.)</td>
</tr>
</tbody>
</table>

**Tab Settings (Speed, Auto, Position)**

On the User Settings Screen, touch the Tab Settings touch command to access the Tab Settings screen. The Auto Tab Settings provide the user with the opportunity to control the tab positions for two trim tabs on the boat. The following can be controlled through these settings:

- Two Speed settings
- Trim Tab positions
- Turn Auto Limits ON and OFF
- Set the Auto Launch timing
Ballast Settings
(Tank Fill/Drain Times)
In the User Settings Screen, touch the Ballast Settings key to access the Ballast Settings screen. This screen provides the ability to control the ballast fill and drain times.

Touch the Next Setting key to move the triangle under a setting and touch the arrows to change the setting.

Service Information
On the Settings Menu, touch the Service Information touch command to access the Service Information. This set of screens display software information and allows the dealer to reset the engine oil change intervals and the dealer service schedule.

NOTE: the Dealer Service Reset requires a dealer code to be entered before the gaining access to the screens.

Touch Commands

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software Version</td>
</tr>
<tr>
<td>Dealer Service Reset</td>
</tr>
<tr>
<td>Oil Change Reset</td>
</tr>
</tbody>
</table>

Software Version - Displays part numbers and versions for the application, software, operating system and more.

Dealer Service Reset - The dealer sets the number of engine running hours between servicing intervals at which time an alert will be displayed to the boat operator.

Oil Change Reset – Touch to reset for the next oil change alert. (The service intervals are predetermined and set by the dealer)
Dealer Information - Provides your dealer's contact information such as a phone number.

GPS Utilities

On the Settings Menu, touch the GPS Utilities touch command to access the GPS Utilities screen. The GPS Utilities include the Satellite Status and the Time and Position Setup.

Touch Commands Description

GPS Status - Displays the location of the satellites.

Position Format Selection - Feature allows you to define the amount of detail to display for longitude and latitude information on the GPS map.

Time Setup Parameters - This is used to select correct time zone and clock mode for either 12-hour or 24-hour time formats. You can also enable DST (Daylight Savings Time) by using the PLUS/MINUS soft keys to select the box.

Factory Settings

On the Settings Menu, touch the Factory Settings touch command to access the Factory Settings screen. A Dealer code is required to access this screen.
When choosing this selection, the display will query the engine(s) ECU, as illustrated below, and provide feedback.

**Touch Commands**

**Description**

**Engine Diagnostics** - Displays feedback on any diagnostic codes that have been activated and stored in the ECU for service needs.

**3 Event Diagnostics** - Displays any 3 Event fault codes that have been activated and allows you to clear faults.

**PDM Diagnostics** - Displays short circuits, open circuit, over current, in/out of range, and faults within the system outputs, switch inputs, analog inputs, and CAN communication.

**Engine Diagnostics**

On the Diagnostics Menu, touch the Engine Diagnostics touch command to access the Engine Diagnostics screen.

The following is a list of field definitions contained on the ENGINE DIAGNOSTICS screen:

**Active Faults/Stored Faults**

Shows the number of active faults and which fault number is currently being displayed. To advance to the next fault, touch [NEXT] and [PREV] to go back to the previous fault. Touching [BACK] returns to the Settings Menu.
• **SPN** – “Suspect Parameter Number” - fault code If not translated into text by the display, see the engine manufacturer’s literature for the definition of the SPN number.

• **FMI** – “Failure Mode Indicator” - fault code The FMI is defined by SAE J1939. If not translated into text, see the SAE standard, or the engine manufacturer’s literature.

• **Description Field** – Most common SPN’s and FMI’s have text for the description stored in the display. If there is no text, then this SPN and FMI must be defined by referring to the engine manufacturer, or the SAE J1939 standard.

  **NOTE:** This field is only used with certain brands and models of engines.

**Corrective Action** (Suggested action for correction):

**Get Faults**
Touching **[Get Faults]** queries the engine(s) ECU for feedback on diagnostic codes that have been activated and stored in the ECU for service needs.

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### 3 Event Diagnostics

On the Diagnostics Menu, touch the 3 Event Diagnostics touch command to access the 3 Event Diagnostics screen.

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### PDM Diagnostics

On the Diagnostics Menu, touch the PDM Diagnostics touch command to access the PDM Diagnostics screen.

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### 3-Event Charts

On the Settings Menu screen, touch the 3 Event Touch Command to access the 3-Event Charts screen. The charts display reference tables of the Slalom Timing Tolerances and Jump Timing Tolerances.

**IMPORTANT:** Use the 3-Event Charts for reference only. The charts will not reflect any changes, should a change occur in the rule book. We suggest periodically verifying the charts with the current rule book.

Touch **[More]** to view the next page.
Troubleshooting

Problem:
Display appears not to work or doesn't come “ON”.

Possible Solution:
1. Display could be in sleep mode. Touch a key on the keypad to activate the display.
2. Check for loose connections at battery and display unit.
3. Check for reversed polarity on the power connections.
4. Verify battery has a minimum voltage of 6 Volts.

Problem:
Display resets or goes “OFF” when starting engine.

Possible Solution:
1. Check display supply wires are connected properly to battery.
2. Verify battery is charged properly.
3. Check battery for efficient starter current.

Problem:
Display has no backlight.

Possible Solution:
Contact your MasterCraft service center.

Problem:
Display has no keypad backlight.

Possible Solution:
Contact your MasterCraft service center.