

Rudder Limits Switch Setting

The rudder limits prevent the steering motor driving the rudder beyond its physical (mechanical) stops. The **limit switch** is set so that the limit display comes on before the rudder reaches the stops.

There are two display symbols **P_L** (port limit), **S_L** (starboard limit) indicating the state of the rudder limit circuits ...

- * The port limit **P_L** display will come on when the rudder position is further to port than the limit set by the **rudder limit port setting**. This will cause any port drive command to be ignored and turn off the port drive light on the front panel.
- * The starboard limit **S_L** functions in the same way for rudder angles to starboard.

NOTE: THE RUDDER LIMITS ARE FACTORY SET TO APPROXIMATELY 25 DEGREES. IF THE RUDDER FEEDBACK HAS BEEN INSTALLED CORRECTLY, THE P L AND S L SYMBOLS SHOULD DISPLAY WHEN THE RUDDER IS MOVED PORT OR STARBOARD BY 25 DEGREES.

Setting Rudder Limit

- Switch to **SET** mode
 - Hold down the **GPS** button, and press the **TIMER** button, value "900" should display
 - Dial up "905" by the **COURSE** knob then press the **TIMER** button. Display will read rudder position as a scale of 0 to 255, 128 being the centre.
 - Rotate **steering wheel** to desired **Port Limit Position**, (the display should be between 150 and 255) then press the **GPS** button to set the **PORT LIMIT**.
 - Rotate **steering wheel** to desired **Starboard Limit Position**, (the display should be between 0 and 110) then press the **TIMER** button to set **STARBOARD LIMIT**.
- press timer button again.*

To test **Rudder Limits**, rotate wheel to **Port** and **StarBoard lock** and check **P_L** and **S_L** are displayed at correct position.