

Internal Rudder Limits

If the steering motor attempts to drive the rudder beyond its physical limits, it is possible that the motor or steering gear will be damaged. There is an internal **rudder limit** potentiometer that can be adjusted so that this is prevented from occurring.

There are two lights inside the back case indicating the state of the rudder limit circuits ...

- * The port (red) limit light will come on when the rudder position is further to port than the limit set by the **rudder limit potentiometer**. This will cause any port drive command to be ignored, and also turn off the port drive light on the front panel.
- * The starboard (green) limit light functions in the same way for rudder angles to starboard of centre.

To set up the internal limit control correctly:

1. Set the internal **limit (VR7)** potentiometer to fully clockwise.
2. Set the autopilot to **Set/Standby Mode**.
3. Turn the helm by hand to port until the rudder will no longer move, then bring it back toward centre by a small amount.
4. Using a small screwdriver, adjust the **limit (VR7)** pot anticlockwise until the port(red) limit light comes on.
5. Turn the helm to starboard until the rudder will no longer move, then bring it back toward centre by a small amount.
6. If the green limit light is not already on, then adjust the **limit (VR7)** pot anticlockwise until the stbd (green) light comes on.