

Tiller Drive instructions

The tiller drive is in its early development but is already proving its value. The drive is interchangeable with all Tiller drives from Raymarine and Simrad. The mounting instructions and options are identical

Installing the tiller pin

1. The fixing point of the tiller point should be roughly 450mm from the rudder pivot point. It can be anywhere between 300 and 600 but will change the forces required by the tiller drive and the speed it can move the rudder.
2. Drill a 6 mm diameter hole to a depth of 25 mm at the fixing point you have marked on the tiller. 2. Use a two-part epoxy (e.g. Araldite) to fix the tiller pin in place.
3. Position the shoulder of the pin so it is 12.5 mm above the tiller surface.

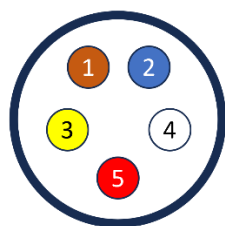
Installing the mounting socket

1. Determine the fixing point of the mounting socket on the seat. It should be perpendicular and 590mm away to the tiller when it is in the centre. If bought the non-standard extension, the position must be determined by yourself.
2. Drill a 12.5 mm hole to a depth of 25 mm at the fixing point you have marked on the cockpit seat.
3. If the structure at the mounting position is less than 25 mm thick, reinforce the underside with plywood bonded into position.
4. Fix the mounting socket in place using a two-part epoxy

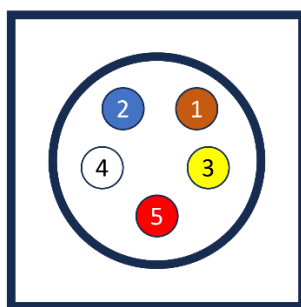
Wiring

Drill a hole of 20mm to mount the socket to. Insert the socket in the hole and then drill the little bolt holes. The connection diagram is shown below. Please refer to the Nautinec control installation guide for placement and calibration.

Press the +10 button (Moving the rudder right when the autopilot is standby). The rudder should move to left, but a tiller or quadrant goes to the right! If it goes the wrong way, switch the brown and blue wire in the control box. Once this is correct, you can calibrate the rudder sensor.



Tiller drive plug



Wall socket

Pin number	PCB connection
1 brown	Motor B
2 blue	Motor A
3 yellow	Rudder +
4 white	Rudder -
5 red	Rudder S

Calibrate rudder position in app

Go to Settings → Rudder. Set rudder Sensor to “Voltage”. Move it all the way to the left (so the tiller or quadrant move to the right and a boat would turn to the left). Mark the position with “Set rudder left position”. Do the same for the middle and right position. If wired correctly, the graph tells you the rudder movement.