

Wheel Drive Installation Instructions

1. The Big Ring

- Ensure that the centre of the ring is exactly aligned with the centre of the helm wheel. Otherwise, the belt tension will fluctuate with the wheel revolutions and causing stress
- First, place all six U-bolts loosely over the wheel spokes.
- Then, tighten them gradually, one by one, a little further each time.
- Place the supplied belt over the ring and re-assemble your helm wheel

2. Motor housing

- Connect the motor to the controller using appropriately sized wire (minimum 1 mm²).
- Do **not** tighten the cable gland before fitting the motor housing cap, as this could twist the wires when screwing the cap on.
- Adjust belt tension by rotating the motor housing in the bracket.
 - For the initial installation, set the tension mechanism to its loosest position so there is enough range to apply proper tension.
 - The belt should not be overtightened — the main goal is simply to prevent slipping under normal operation.
- Ensure proper alignment: the small sprocket and the big sprocket must be in line, with the belt running centrally on both.
 - Misalignment can cause the motor clutch to loosen. Make sure the alignment of both sprockets is exactly parallel or slightly angles so that the clutch is “rolled on” to the motor shaft.

3. App Settings

- The Autopilot Settings (PID) are very boat specific.
- If you don't use a rudder sensor, make sure to set a current limit, so that the motor stops when it is at its end. You can also limit the amount of movement in one direction with time. The motor is so powerful that the sprocket inner assembly will give at first.