

Please perform the tests below in the order listed.

Engine push test:

- Center engine
- Using your hands, push engine back and fourth
- While pushing, watch the steering cylinder body move

Results:

- if the cylinder body moves more than ¼" you have air remaining in the system and further bleeding is required

Wheel turn test:

- note your helm pump and steering cylinder part number
- count your steering wheel(s) turns from hard-over to hard-over
- consult with "Quick Reference Turns Chart"

Results:

- Wheel turns should be very close to the wheel turn chart numbers. If you are well over these numbers, further bleeding is required. (It takes multiple turns to compress the air to the point where it will move the fluid)

Cylinder/Helm pump check:

- Center engine
- Trim engine UP
- Turn steering wheel 1-turn to the starboard side
- Let go of wheel
- Let engine fall over to the side (should take 6 hours)
- While the engine is falling, watch the steering wheel (place a piece of tape on the wheel)
- Repeat the above turning to the port side

Results:

- if at any time the steering wheel turns "on its own" then the helm pump is at fault and will have to be replaced/ repaired
- if the engine falls to both directions quickly, then the cylinder is at fault and will need to be replaced/ repaired
- if the engine falls to "one side only", then the helm pump is at fault and will need to be replaced/ repaired.

Please let me know what you find out.