

## 24. KINGFISHER QUICK START

1. Engine room checks should be performed daily, before cruising.
  - a. Check engine oil and coolant levels.
  - b. Check Generator oil and coolant levels.
  - c. Check Racor fuel filters for water or contamination.
  - d. Check generator fuel filter.
  - e. Observe engine room for leaking oil, coolants, or fuel.
  - f. Check that main sea strainer is clean and free of debris.
  - g. Check that generator strainer is clean and free of debris.
  
2. Disconnect shore power
  - a. Turn off all AC breakers.
  - b. Confirm Shore 1 and Shore 2 breakers are in off position.
  - c. Turn off shorepower circuit breaker at pedestal on the dock.
  - d. Disconnect yellow electrical cord from boat and place in lazarette. **Always disconnect from the shore end and connect from the boat end to avoid moving a live cord.**
  
3. Turn on DC/Battery power
  - a. Turn on both electronics, instruments, and engine controls breakers.
  - b. Alarm will sound: Silence with button on shifter control.
  - c. Turn on other circuit breakers as you desire.
  
4. Close all port holes and hatches that might permit water to enter the boat.
  
5. Confirm that dingy is secure.
  
6. Check around boat for obstacles in the water and items on the boat that need to be secured.
  
7. Check fuel level sight gauges.
  
8. Turn on Furuno radar/chartplotter and VHF Radio.
  
9. Start Engine
  - a. Set control handle to neutral. Select Station Select button on control.
  - b. Turn ignition switch to ON.
  - c. Push black Start button and crank engine until it starts. **Note-Cummins engine company states “do not crank engine for more than 30 seconds,**

wait 2 minutes to allow the starter motor to cool down before restart attempt.”

- d. Check that cooling water is coming out the exhaust (Look for bubbles and water currents swirling out of the underwater exhaust outlet).
- e. Verify that engine instruments are working.
- f. Check oil level in Reduction Gear with the engine running at idle speed.

10. Turn on Bow/Stern Thruster by pushing both buttons at same time and see that it is functioning.

- a. The thruster will turn off automatically after a period of non-use.
- b. Do not use thruster continuously for more than 3 minutes or it will overheat.
- c. Use thruster in short bursts.

11. Check wind and current directions.

12. Boat Operation

- a. Warm up by advancing throttle to 1000 rpms when clear of marina.
- b. Operate engine no faster than 1400 rpm until the coolant temperature reaches 140 degrees.
- c. Operate the engine at any speed after reaching normal operating temperature of 170-185 degrees.
- d. The 380HP Cummins engine aboard KINGFISHER is designed with a maximum RPM of 3000 rpms. These engines are intended to operate at a maximum operating/cruising RPM of 80% of maximum output or, in this case, 2400 RPMs.
- e. If you are operating at the maximum RPMs (2300-2400 rpms), do so for only one hour out of eight.

13. Returning to Dock

- a. The engine cool down for the last 5 minutes should be at slow speeds to allow the engine to cool down before shut down.
- b. Place fenders on docking side of boat.
- c. When docked and the mooring lines are secure, shut off the engine.
- d. Turn off power to instruments.

14. Reconnect to Shorepower

- a. Confirm that Shore Power switches are turned OFF at the AC Breaker panel.
- b. Re-attach the power cord to the boat, insert the plug, turn and tighten.

- c. Connect the power cord to the dock power source. **MAKE SURE THE DOCK POWER SOURCE BREAKER IS IN OFF POSITION.** After connected turn on the dock breaker.
- d. Turn on shore power breaker at DC Breaker panel.
- e. Turn on desired DC breakers. Battery Charger, refrigerator, freezer, etc.

15. Closing the boat

- a. Close the appropriate windows and hatches, unless you leave some open for ventilation.
- b. Lock the doors.
- c. On the dock, check the position of all fenders and see that mooring lines are secure.