

Offseason Care for Sans Souci

Prepared September 18, 2009

Washing and Waxing Sans Souci

1. Follow standard marina procedure.

Verifying Shore power is on

There are two methods that can be used.

Method 1 – Look in the lazarette (under the cockpit)

- A. Open the hatch in the cockpit



- B. Look slightly forward, on the starboard side. If you see the two green lights on, then the power is fine



- C. There is also a voltage display, in roughly the same position. It will read 230 to 250 volts if the shore power is on and working fine



Method 2 – Look at the electric Panel on the staircase

- A. Enter the boat
- B. Look at the electrical panel at the stairs



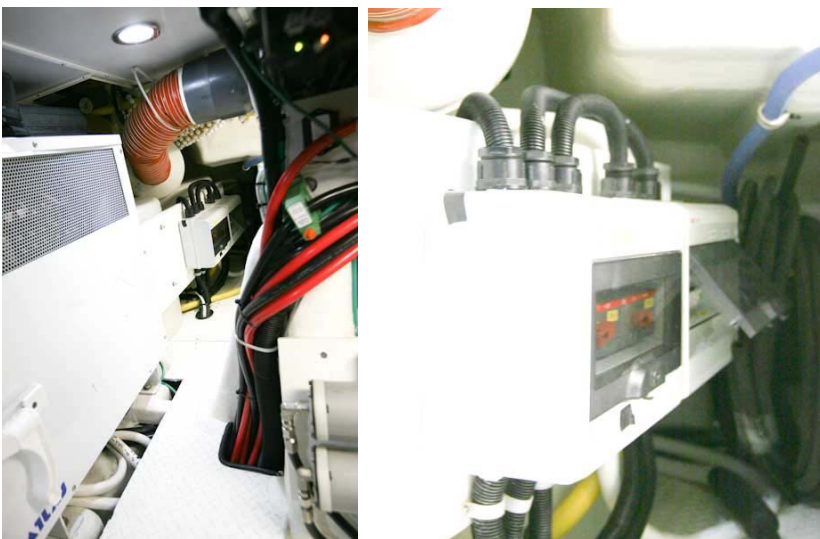
- C. If the 240v non-inverter panel shows 235 to 245 volts in the upper left corner, then the power is fine.

What to do if the power isn't on

- A. Check the power on the dock. I do not know how to do this, but the marina should have a way to know. Most of the time, the problem will be that the power is out at the marina
- B. Check the breaker at the pedestal on the dock. There is a circuit breaker. Try flipping it. I have two cords coming into my boat, so you'll need to check both.



- C. Check the breaker inside the boat. If is at the very back of the inside of the lazarette. Be careful crawling. There is a lot of wires around. You have to enter the lazarette (through the hatch in the cockpit), and face the back of the boat. From there, you look to the left, towards the back of the boat. You will need to crawl in, and look at the breaker, to see if it is tripped.



The breaker is located inside the door that is open above. My memory is that there are two

breakers, and if one is tripped, it will be in the down position. Just flip it up.

Note: When the power to the boat is restored, it takes the boat at least a minute or two to recognize the power. The boat has an intelligent power system that studies the power before it connects it to the boat.

What to do if the shore power is on, and yet the boat isn't recognizing it anyhow.

- A. This is hopefully not going to occur. If it does, we need to run the boat from the generator while we figure out what is going on.
- B. Start a generator (either, it doesn't matter which one). For this document, I will assume the one in the engine room (the 25kw) – See the instructions for starting the 25kw generator
- C. Turn the power switch on the electric panel from position 1 to position 2



- D. Solve the power problem (CALL KEN!)
- E. When the power is restored, turn the power switch back to position 1. DO NOT FORGET THIS STEP!!!!

Note in the picture above that the shorepower will light as green if shorepower is available. There is also a green light for 'shorepower standby' This will be lit when there is shorepower but the boat is not recognizing (using) it.

- F. Refer to the instructions for stopping the power to the 25kw generator

Engine Start Procedure

- 1) Check oil on both engines
- 2) Turn on fans on electric panel. There are three breakers; two intake fans, and also one exhaust fan. All three should be turned on.



- 3) Turn BOTH keys to the on position – you will hear an alarm
- 4) Verify the throttles are in the neutral (centered - N) position



- 5) Turn the engine speed selector to 'idle 1'
- 6) Press the 'station select' button
- 7) It is unlikely, but worth verifying that no one is around the boat. Starting the stabilizers could kill a diver or swimmer. So.. I always glance over the side on both sides before starting engines to make sure nobody is in the water.
- 8) Start both engines, one at a time (same as a car)

- 9) Turn on four switches on the electric panel in the pilot house
- two that have to do with the autopilot
 - and, two that have to do with the hydraulics and stabilizers



The switches are on the electric panel that is near the floor, on your right side, as you face the steering wheel. Turn on the following breakers:

- Autopilot #1
- Autopilot pump #1
- Stabilizers
- Hydraulics

- 10) Turn the engine speed dial to 'idle 3'. This will give a faster idle
- 11) Wait 15 minutes for the engines to warm up. Perhaps start the generators while waiting
- 12) Turn off the four switches on the electric panel (autopilot, stabilizers and hydraulics)
- 13) Set idle back to 'idle 1'
- 14) Turn the engines all the way off
- 15) Wait at least 5 minutes
- 16) Turn off the fans

20kw Generator start procedure

1. The switch on the hallway electric panel, for the 20kw generator should be in RUN – I will leave it that way, so you should never need to mess with it.



2. Flip the toggle switch on the start panel (above the generator, in the lazarette) below to Manual (It's labeled MANUAL on the ENGINE CONTROL section below)



- It takes the generator a minute to start. You'll know it started, because the green light will appear on the rotary dial, under '20kw generator standby'



- If you want to power the boat from the 20kw generator, switch the rotary power switch from position 1 to position 3. You should see the green light for shore power switch to be 'shore power standby'
- If just starting it for testing, let it run about 5 minutes
- Prior to turning off the generator, set the rotary power switch to position 1, so that the boat is powered from Shorepower
- To turn off the 20kw generator, flip the toggle switch on the generator control panel back to OFF – Centered (in the lazarette)
- Verify the generator is actually off. The green light next to it should disappear



25kw Generator start procedure

1. On the electric panel, hold down the switch on the 25kw start panel, that is labeled pre-heat, for 15 seconds, then while still holding the preheat button click briefly the START switch to start. Release both after a couple seconds, and the generator should be running. You should be able to confirm this by seeing a green light next to 25kw Generator in standby where the rotary power switch is



2. If you want to power the boat from the 25kw generator, switch the rotary power switch from position 1 to position 2
3. If just starting it for testing, let it run about 5 minutes
4. Prior to turning off the generator, set the rotary power switch to position 1, so that the boat is powered from Shorepower

5. To turn off the 25kw generator, flip the start switch down, to STOP
6. Verify the generator is actually off. The green light next to it should disappear



Start Watermakers

1. There are three breakers that control the watermakers. They are on the 240v panel on the electric panel



The breakers relevant to the watermaker are labeled “Watermaker 1” “Watermaker 2” and “Water maker boost pump”. They are in the center of the 240v non-inverter service panel, on the left side of all the electrical panels on the stairway.

2. You need to be fast after turning on the boost pump. Once you turn it on, a pump is running that is forcing water into the system. If you don't start the watermaker quickly, the pump will be ruined.
3. Turn on all three breakers on the electric panel
4. Run up the stairs, and start watermaker 1.
 - Press the button for the low pressure pump, and wait 2 seconds
 - Press the button for the high pressure pump



5. The watermaker will squeal for a bit, and slowly count down. When it passes under 500, the noise will stop
6. Let it make noise, until the noise stops, then start the other watermaker
 - This is where potentially, the shore power could blow. I hope not. If so, we'll need to do this by running on the generator. You'll be testing the generators anyhow, so this isn't a big deal. If the breaker trips, we'll modify the instructions so that you do this test with the generator running.
 - To start watermaker 2, press the low pressure pump, wait two seconds, and press the high pressure pump.

- Watermaker 2 will squeal until it gets to under 500
- 7. When watermaker 2 is going, we are going to shut down watermaker 1
 - Press the high pressure pump button
 - Press the low pressure pump button
- 8. Once watermaker 1 is off (it takes about 2 minutes) we are going to flush it
 - Press the button for 'flush'. It will make noise for a few minutes
- 9. Shut down watermaker 2
 - Press high pressure, then low pressure
- 10. Quickly run down the stairs and shut off just the boost pump breaker
- 11. Go to watermaker 2 and press the flush button
 - Let it flush , which takes a couple mins
- 12. Shut down all three watermaker breakers

Flush Toilets

NOTE: CURRENTLY, I AM PLANNING TO JUST DRAIN THE TOILETS – FLUSHING WILL NOT BE NECESSARY

1. Avoid using the toilets on the boat. If we keep the ‘black water’ tank free of waste, you can empty it from time to time, without controversy
2. Flush each of the toilets a time or two. Verify that when the toilet refills it holds water. If it doesn’t, flush it another time or two until it does
3. It is highly unlikely that you could flush the toilets enough to fill the holding tank, however, it can’t hurt to once a month, empty the tank overboard. I will leave the boat with an empty holding tank, so it should only have clean water in it. To dump the tank overboard, go to the “black water system panel” .. rotate the key to the right, to activate the panel. Then, twist the egg timer on it. Let it pump overboard for about 60 seconds, then turn off the egg timer, and turn off the key.



A quick checklist before you leave the boat!

Verify all of the following are off:

- Exhaust and intake fans
- Watermakers
- Both generators
- The power selector is in position 1 – shore power
- The throttles are back to 'idle 1'
- The doors are locked
- The key is put back