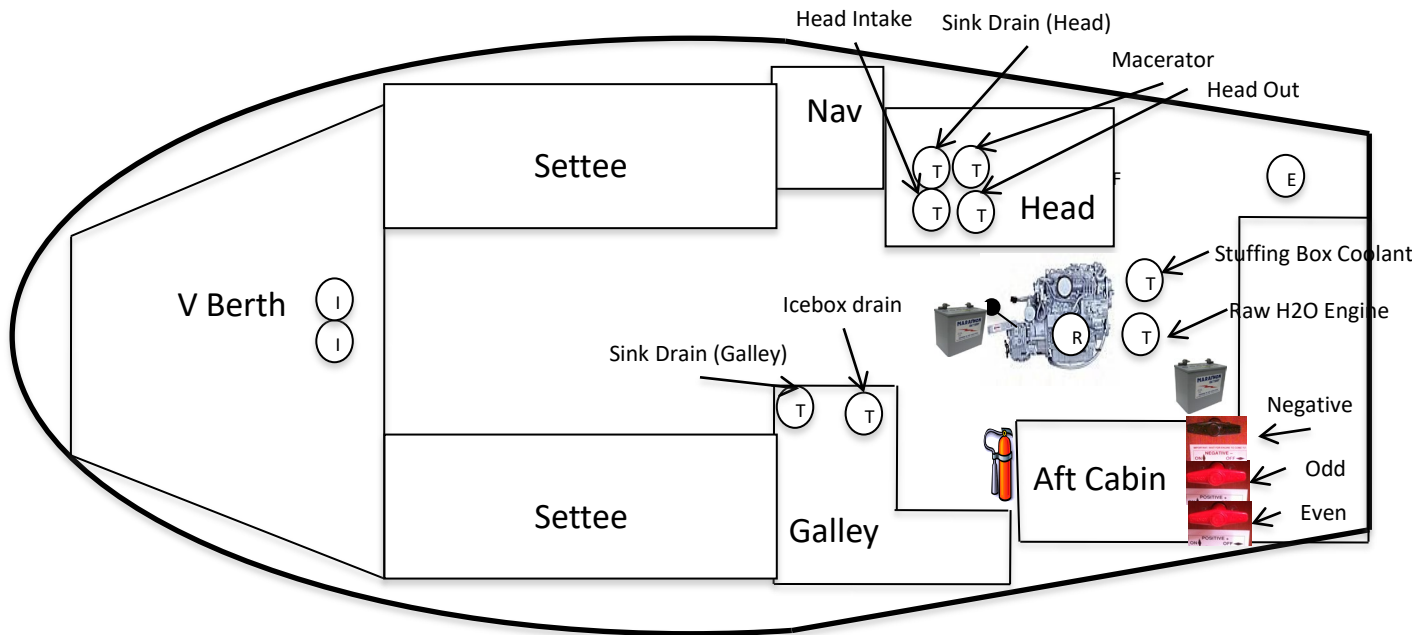










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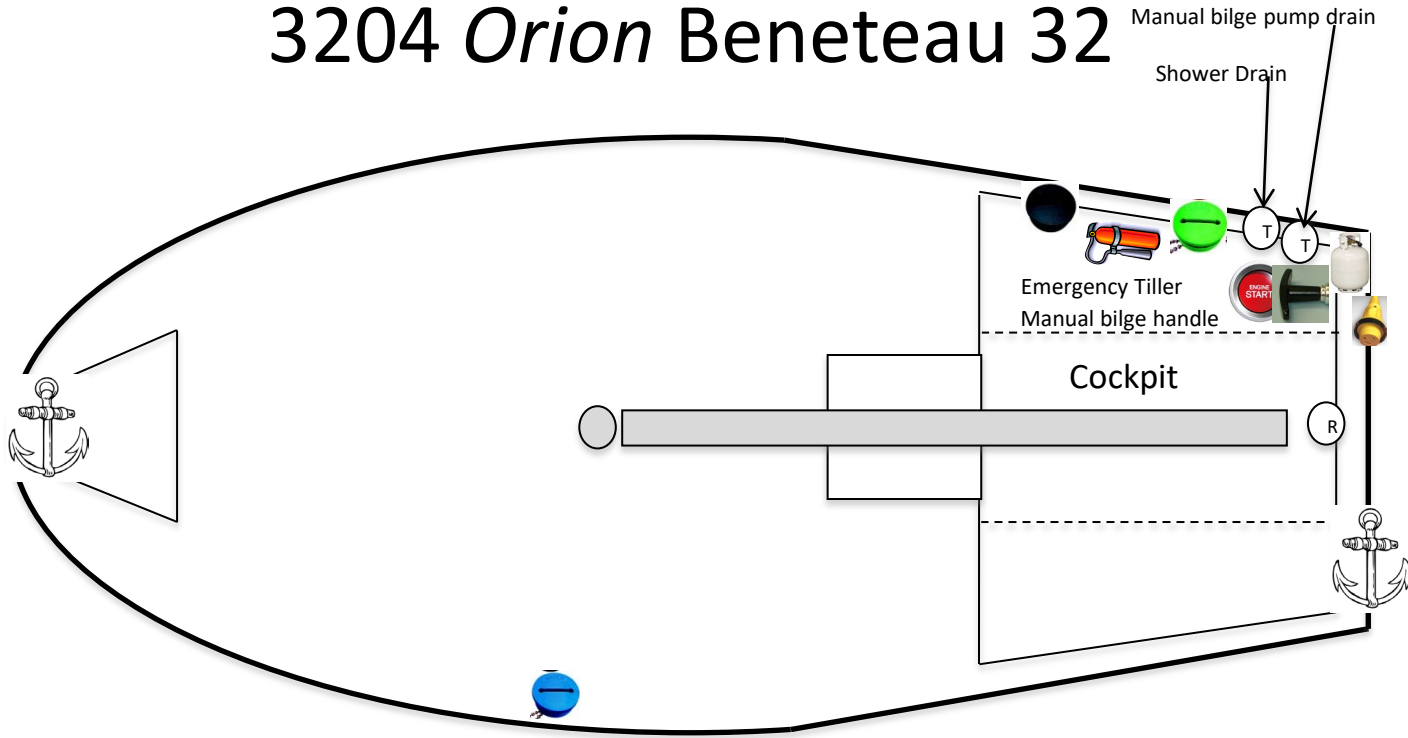


Legend


-  Engine
-  Oil Dipstick
-  Battery
-  (R) Radiator Fill
-  (T) Thru Hull With Seacock
-  (I) Instrument Thru Hulls
-  Battery Switch (Pos)
-  Battery Switch (Neg)

Notes

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Legend

 Rudderpost


 AC Power cord


 Anchor

 Fire Extinguisher


 Deck Fill - Diesel

 Deck Fill - Waste

 Engine Kill

 Deck Fill - Water

 Propane / CNG

 Engine Start

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Orion deck and hull photos:



Orion below deck photos:



Orion AC/DC, nav station and battery switches photos:



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<p>Documentation</p>	<p>Orion is an undocumented vessel, registered in the State of California. The registration number is CF 9861 PR.</p> <p>The Discharge of Oil placard and the Garbage disposal placard are located affixed to the underside of the starboard lazarette lid.</p>
<p>Engine</p>	<p>Engine type: Yanmar 3YM20 Working RPM 2800 MAX RPM 3600 (Emergency Only) 3 blade fixed prop</p> <p>An engine hour meter is located inside the cabin at the navigation station</p> <p>Access to the front of the engine is accessed by removing the companionway ladder. Oil, coolant, and belts may all be easily checked from this location.</p> <p>The engine oil dipstick is located at the front of the engine, on the left as you face it.</p> <p>The coolant reserve is on the “wall” on the right as you face the engine. The coolant level should be between the low and full marks. There is no need to remove the pressure cap on the coolant tank if the reserve tank contains sufficient coolant.</p> <p>There are two belts to check, located at the front of the engine.</p>
<p>Fuel Gauge</p>	<p>The fuel gauge is located next to the ignition key panel. The DC switches and key must be on to energize the gauge. Orion holds 17 gallons of fuel when full</p>
<p>Engine Start Up and Shut Down</p>	<p>Start Up The dashboard is mounted to the starboard aft side of the cockpit bench seat. To start, push the “POWER” button, once the alarm sounds push the “START” button.</p> <p>Shut Down The engine is shut down by pushing the “STOP” button located near the ignition switch, then push the “POWER” button and hold for 5 seconds until the alarm stops.</p> <p>There is an emergency fuel shut off located next to the battery switches (to the left as you face the switches. DO NOT use this pull lever except in the case that the normal engine shut off is not working. Activating this lever may result in the injectors needing to be bled before the engine will start.</p>

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Electrical System	<p>AC and DC Break Panel is found over the navigation station to starboard.</p> <p>AC</p> <p>The AC emergency breaker is located in the cockpit lazarette. The AC panel over the navigation station consists of five breakers.</p> <ul style="list-style-type: none">• AC MAIN SHORE & REVERSE POLARITY breakers are bridged together (Green dot)• WATER HEATER• BATTERY CHARGER (Green dot)• OUTLETS (Green dot) <p>NOTE: All breakers except the water heater have green dots, and should be left on when the boat is secured at the dock. DO NOT leave the water heater turned on.</p> <p>DC</p> <p>A well labeled DC Panel is found below the AC Panel. The following are special notes regarding the DC Panel switches.</p> <ul style="list-style-type: none">• The Instrument switch turns on the stereo, VHF, and binnacle instruments (depth/speed, wind, chart plotter)• The Auto Pilot has been disabled• The bilge pump is always in the “automatic” mode. Activating the bilge pump switch on the panel forces the bilge pump to run. Do not leave this switch in the on position.• The TANK GAUGE switch energized the SensaTank monitor, which measures the level of the fresh water and/or waste tank.• The FRESHWATER PUMP switch must be on to operate the sink faucets (galley and head), the shower drain pump, or the ice box pump. <p>The battery switches are located in the aft stateroom. The black handle is the “Common” or “Negative” terminal and must be on to energize the system. There are two red handles, labeled Battery 1 and Battery 2. Only one of these switches should be used at a time. Use Battery 1 on odd numbered days, and Battery 2 on even numbered days. Doing so, ensures you will have one battery with a full charge in the even the “active” battery is inadvertently drained of energy.</p>
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<p>Thru Hulls</p>	<p>There are ten below water thru-hulls on Orion, eight of which have seacocks, and are well labeled. There are also two above water thru-hulls with sea cocks.</p> <ul style="list-style-type: none"> • Two instrument thru-hulls are located under the v-berth, and are accessed by opening the v-berth hatch. • Four thru-hulls with sea cocks are located under the sink in the head. <ul style="list-style-type: none"> ○ Head Intake ○ Sink Drain ○ Head Out (DO NOT USE) ○ Macerator (DO NOT USE) • Two thru-hulls with sea cocks are found under the galley sink, and can be located by opening the lower hatch on the starboard side of the sink pedestal. <ul style="list-style-type: none"> ○ Galley sink drain ○ Icebox drain • Two thru-hulls with sea cocks are found under the aft stateroom mattress. <ul style="list-style-type: none"> ○ Raw water engine intake (MUST REMAIN OPEN) ○ Stuffing box coolant (MUST REMAIN OPEN) • The two above water thru-hulls are located in the starboard lazarette, near the stern. <ul style="list-style-type: none"> ○ Manual bilge pump outlet (MUST REMAIN OPEN) ○ Shower drain outlet (generally left open and must be open to drain the shower pan). The shower drain pump is activated with a toggle switch on the forward side of the head sink. It is energized by turning on the FRESHWATER PUMP switch on the DC Panel. <p>In the locker under the head sink, there is a red handle on a “Y” valve:</p> <ul style="list-style-type: none"> • handle is pointed AFT for draining the shower pan. • Handle is pointed DOWN for the Bilge pump. Always move the handle in the DOWN position after draining shower pan so water can be pumped out of the bilge if needed.
<p>Head(s)</p>	<p>There is one manual operation head on Orion. Fresh water from the head sink may be used to flush the toilet and/or waste line to the holding tank.</p> <p>The holding tank is in the starboard cockpit lazarette. There is a “Y” valve under the head sink which directs the waste from the head into the holding tank or to the “Head Outlet” thru-hull. DO NOT change the position of the “Y” valve. DO NOT use the macerator</p>
<p>Fresh Water System</p>	<p>There is one 48-gallon fresh water tank, found under the port salon v-berth mattress. The deck fill is amidships on to port.</p>

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<p>Anchor and Ground Tackle</p>	<p>Primary Anchor A 20 lb Danforth style primary anchor, with a combination chair/nylon rode is mounted in a bow roller.</p> <p>Secondary Anchor A 15 lb Danforth style primary anchor, with a combination chair/nylon rode is mounted on the stern pulpit port side.</p> <p>Kellet/Sentinel A kellet with sentinel is stowed in the Starbord lazarette.</p> <p>Windlass There is no windlass</p>
<p>Draft / keel type</p>	<p>Orion draws 6', and has a fin keel with a bulb</p>
<p>Refrigeration</p>	<p>There is a refrigerator/ice box on Orion. The system is turned on at the DC Panel. The temperature control is found inside the refrigerator unit.</p> <p>Pump out of the Ice Box is accomplished using the button on the aft side of the sink. The FRESHWATER PUMP switch on the DC Panel must be in the on position.</p>
<p>Stove</p>	<p>There is a gimballed, two burner stove/oven combination. It takes approximately 15 minutes for the oven to reach 350 degrees.</p> <p>The propane tank is located in a locker found in the aft/starboard lazarette. The GAS VALVE switch is found on the DC Panel.</p> <p>Pots and pans are found under the port salon settee cushion.</p>
<p>Barbeque</p>	<p>There is no BBQ on Orion</p>
<p>Running Rigging</p>	<p>Mainsail Orion has a traditional mainsail and a sailcover.</p> <p>Orion is set up with two reefs. Each reef is accomplished by using a single line. When hoisting the main, both reef line clutches should be open, and the lines should be free of any knots and/or coils.</p> <p>Jib There is a 90% roller furled jib.</p> <p>The main sheet and a spare halyard run through a clutch assembly to starboard of the companionway entrance, and the reef lines are to port.</p>