



AVENTURA SAILING

# Radiance

## Boat Manual



BOAT CODE

**B40**

SLIP

**E129**

**DO NOT SAIL IN REVERSE**

*At the End of Your Charter  
Please Leave Battery Switches "ON"*

**MAXIMUM CAPACITY: 10 PASSENGERS**

*Violation Will Result In Suspension of Members Certification and Charter Privileges*

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<h1>Boat Manual</h1>		<b>Make</b>	2012 Beneteau
		<b>Documentation No.</b>	1240517
<b>Name</b>	<h1>Radiance</h1>	<b>Length</b>	40'-0"
		<b>Beam</b>	12'-09"
<b>Code</b>	<b>B40</b>	<b>Draft</b>	6'-05"
<b>Use this information along with the Discrepancy Report and the Basic Course Syllabus</b>			

## Engine Yanmar 3JH5E, 4 Cylinder, 39HP Sail Drive Diesel

<b>Location/Access</b>	Under/behind companionway steps.
<b>Engine Cockpit Control Panel</b>	Starboard, aft combing; containing a tachometer, an ignition key switch, engine start and stop switches.
<b>Battery Switch</b> <i>Never turn any battery switch off while engine is running!</i>	Engine Start and House Battery Switches: Located in starboard aft cabin. Leave ON at all times.
<b>Engine Hour Meter</b>	Inside port, aft cabin: open engine compartment, upper left side.
<b>Fuel Gauge</b>	Main electrical panel.
<b>Ignition/Start</b>	Start switch.
<b>Glow Plug</b>	None: N/A
<b>Throttle/Shift</b>	<p>Single handle on the starboard side of the helm pedestal; forward for forward, middle for neutral, and back for reverse; further forward or reverse as needed for throttle.</p> <ul style="list-style-type: none"> <li>To disengage the transmission, push in red button at the base of the shift lever so the throttle can be advanced without going into gear. This can only be done in neutral.</li> <li>To re-engage the transmission, bring the handle to neutral and the red button will pop out.</li> <li>Before dropping dock lines run through shifting and throttle advance until you understand this and are comfortable.</li> </ul>
<b>Engine Starting</b> <i>Warning! Never turn the battery switch to "OFF" while the engine is running!</i>	<ol style="list-style-type: none"> <li>Deactivate and disconnect shore power.</li> <li>Make sure transmission is disengaged, throttle 50%, push ON/Start button - alarm will sound.</li> <li>Push ON/Start button a second time. If engine does not start within 5 sec., recheck that steps were performed exactly and retry.</li> <li>Check the engine exhaust at the starboard waterline even with the engine control panel to see that water is being exhausted out. Warm up for 15 Minutes.</li> <li><b>BEFORE DROPPING DOCK LINES RUN THROUGH SHIFTING AND THROTTLE ADVANCE UNTIL COMFORTABLE.</b></li> </ol>
<b>Stop Engine</b>	Push STOP button on starboard cockpit control panel. Alarm will sound - push OFF.
<b>Dipstick</b> <i>Check oil only if necessary.</i>	On the Starboard side of engine, just aft of the oil filter.

## Electrical & Electronics

<p><b>Electrical Panels</b></p>	<ul style="list-style-type: none"> <li>• Located at Navigation Station, left side of panel is 115 VOLTS AC. Breakers on this panel control all 115 volt systems on board and is powered by shore power only. This system only operates when shore power is plugged in and the “AC MAIN” is toggled ON.</li> <li>• Right side of panel is 12 VOLTS DC. Switches on this panel control all 12 volt systems on board.</li> </ul>
<p><b>Battery Switch</b>  <span style="color: red;">Never turn any battery switch off while engine is running!</span></p>	<p>Engine Start and House Battery Switches: Located in starboard aft cabin. Leave ON at all times.</p>
<p><b>Battery Charging</b>  <span style="color: red;">Both batteries require 2 to 4 hours to recharge when charge levels are low. Monitor battery levels frequently! (SEE: “Monitoring Batteries”)</span>  <span style="color: red;">At the end of charter, leave battery switch on “BOTH”!</span></p>	<p>There are 2 methods for charging the batteries on board.</p> <p><b>Shore Power:</b></p> <ol style="list-style-type: none"> <li>1. Plug in Shore Power cord at the receptacle on the port side of the aft cockpit. Make sure it’s plugged in and the AC breaker switch is “ON” at the Dock Box.</li> <li>2. On the AC power panel: Toggle on “Battery Charger” breaker. Red light next to these breaker should be lit.</li> </ol> <p><b>Charging Batteries with Engine:</b></p> <ol style="list-style-type: none"> <li>1. Turn Battery Switches “ON” and start engine following “Engine Starting” procedures.</li> <li>2. Adjust the “Throttle” lever until the tachometer is between 1500 and 1800 rpm.</li> </ol>
<p><b>Monitoring Batteries</b>  <span style="color: red;">Monitor battery levels frequently when using 12 volt services!</span>  <span style="color: red;">After charter: leave battery switch on “BOTH” and “CHARGER” toggle “ON”.</span></p>	<p><b>Monitoring Battery Level:</b> Charger located in Navigation Station, press volts button under display.</p>
<p><b>Battery Locations</b></p>	<ul style="list-style-type: none"> <li>• House Battery: Aft cabin under bunk.</li> <li>• Engine Start Battery: Under compainway steps.</li> </ul>
<p><b>Instruments</b></p>	<p><b>Auto Helm Control:</b> Aft of cockpit control panel.</p> <hr/> <p>Turn on Navigation at DC panel. No Radar.</p>

## Sails

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B40

### Jib

A slight amount of tension on the furling line while unrolling will make it easier to roll back up.

Do not release Jib Halyard!

Mounted on a roller furling. The take up line leads aft along the port rail and is cleated outside the cockpit. The halyard leads aft through a lock on the Port side of the companionway. Always leave furling line cleated when sail is rolled up.

### Mainsail

Main halyard and main sheet lead aft to the Starboard side of the companionway. Note: Mainsail raising is much easier if one person helps "jump it" at the mast.

## Tankage

### Water Tanks

Valve to switch tanks located under galley sink.

#### Tank 1

Tank location: under starboard settee.  
Fill fitting location: port side, midship.  
Capacity: 26 gallons.

#### Tank 2

Tank location: under port settee.  
Fill fitting location: starboard side, midship.  
Capacity: 26 gallons.

#### Tank 3

Tank location: under forward cabin bed.  
Fill fitting location: starboard side, midship.  
Capacity: 26 gallons.

### Fuel Tank

Do not leave fuel filler nozzle unattended when fueling!

Tank Capacity 34 gallons.  
Tanks located in aft of quarter berth bunks.  
Fuel fill is located outside the cockpit, aft, port side.

### Holding Tank

Report on discrepancy report that zip-tie has been cut. Staff will install new tie.

Pump-out Fitting: Midship, outboard.  
Tank Location: In head cabinet  
Tank Capacity: 18 gallons

### Holding Tank Discharge at Sea

Report on discrepancy report that zip-tie has been cut. Staff will install new tie.

Through hull located in starboard head under sink.  
Gravity discharge, no macerator.

## Head

### Operations

Nothing goes in the bowl that has not been consumed first except marine toilet paper!

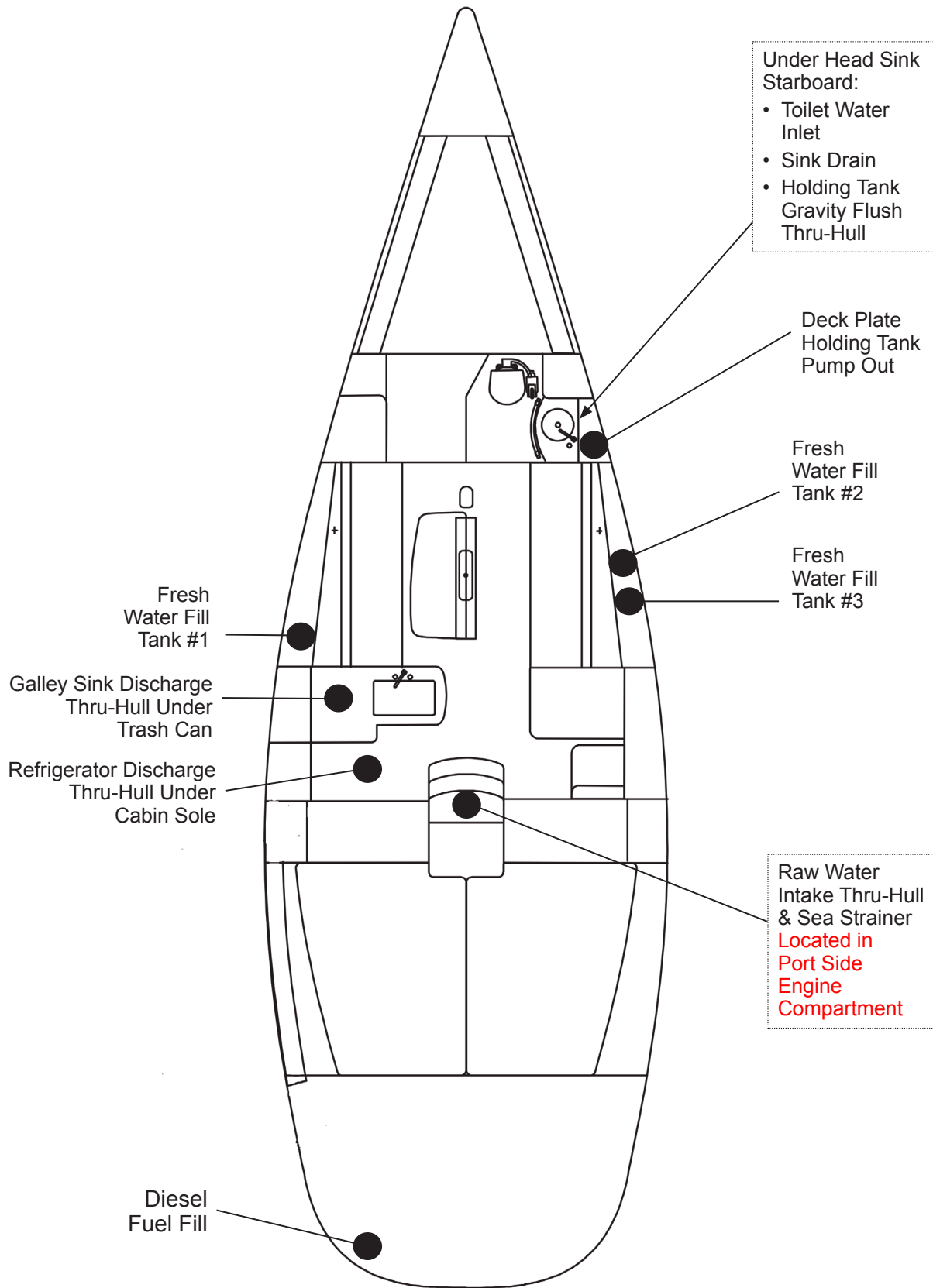
Make sure "Head Intake" valve is open. The valve is open if the handle is parallel with the hose.

Electric Flush Procedures: On the right side of the bowl are two switches. The top switch is for rinsing out the bowl. The bottom switch when pushed on left side fills the bowl with water, when pushed on the right side drains the bowl.

## General Notes

<p><b>Stove</b></p> <p>When stove is not in use and at the end of cruise, turn off all switches and valves!</p>	<p>To operate the stove:</p> <ol style="list-style-type: none"> <li>1. Turn on the propane tank located in the port aft lazarette by turning valve on top of the tank counter clockwise until valve is fully open. Spare tank on starboard side.</li> <li>2. Make sure House Battery switch is ON.</li> <li>3. Switch on LPG on DC panel.</li> <li>4. Located on front of stove is a LPG control switch. Toggle to ON position until a orange light comes on.</li> <li>5. On the stove select the burner knob to be used.</li> <li>6. Push in selected burner knob and turn counter clockwise. An electric igniter will start sparking every couple seconds until gas lights. If no sparking use hand lighter in drawer.</li> </ol> <p>NOTE: If burner does not light, check tank for contents (should weigh about 35 lbs full). Repeat steps 1 thru 6.</p>
<b>Refrigerator</b>	Operate only on shore power or while engine is running.
<b>Anchor</b>	Located in bow anchor locker.
<b>Galley Sink</b>	Outlet through hull is under cabinet
<b>Head Sink</b>	Outlet through hull is inside a small hatch (low) against the Head bulkhead in the Aft cabin.
<b>Bilge Pump</b>	Automatic Bilge Pump: Switch is located on the Electrical Control Panel.
<b>Shower Sump Pump</b>	Switch in starboard head.

# Deck Plate & Thru-Hull Locations



## Inventory

Item	Qty	Location
Air Horn	1	Boat Bag
Anchors	1	Bow Pulpit
Boat Hook	1	Behind saloon starboard settee
Bilge Pump Handle	1	In Boat Bag
Canvas	1	Helm cover
	1	Dodger covers for only when it's down.
	1	Mainsail cover
Deck Key	0	Use winch handles
Emergency Tiller	1	Aft, port lazarette
Fenders	4	2 starboard, 2 port
Fire Extinguishers	1	Port, aft cabin
	1	Main cabin companionway steps
	1	Main cabin mounted between head and forward cabin doors.
First Aid Kit	1	Starboard, under navigation station in safety locker
Flashlights	1	Boat bag
Life Jackets	10	Adult type 1 - aft lazarette
Life Sling	1	Mounted to stern rail.
Oil Discharge Placard	1	Under Companionway Steps
Radar Reflector	1	Fixed on mast
Signal Flares	4	Boat Bag
Ship Papers	1	Boat Book, Navigation Station
Shore Power Cord	1	Plugs in under the starboard aft cockpit seat.
Tool Kit	1	Starboard, under navigation station.
VHF Radio	2	Navigation station and at helm
Winch Handles	2	Boat Bag