



AVENTURA SAILING

# License to Keel

## Boat Manual



BOAT CODE

**R32**

SLIP

**C110**

**SAIL IN REVERSE**

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

**MAXIMUM CAPACITY: 8 PASSENGERS**

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

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|                                                                                      |                        |                          |                 |
|--------------------------------------------------------------------------------------|------------------------|--------------------------|-----------------|
| <b>Boat Manual</b>                                                                   |                        | <b>Make</b>              | 1994 Catalina   |
|                                                                                      |                        | <b>Documentation No.</b> | 1027919 1043363 |
| <b>Name</b>                                                                          | <b>License to Keel</b> | <b>Length</b>            | 32 Feet         |
|                                                                                      |                        | <b>Beam</b>              | 11'- 9"         |
| <b>Code</b>                                                                          | <b>R32</b>             | <b>Draft</b>             | 4'-3"           |
| Use this information along with the Discrepancy Report and the Basic Course Syllabus |                        |                          |                 |

| <b>Engine</b> Beta 30, 3 Cylinder Diesel                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Location/Access</b>                                                                                 | Under companionway steps. Lift stairs and secure. Unlatch cover (Port side of cover); lift cover up and towards you.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Engine Cockpit Control Panel</b>                                                                    | Starboard, low next to helm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Battery Switches</b><br>Never turn any battery switch off while engine is running!                  | <ul style="list-style-type: none"> <li>Engine Start Battery Switch: <u>On the Aft Cabin berth, low, below bed.</u></li> <li>House Battery Switch: Located on the electrical panel, port.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Engine Hour Meter</b>                                                                               | Cockpit Control Panel within tachometer, key start like a car.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Fuel Gauge</b>                                                                                      | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Ignition/Start</b>                                                                                  | Round Silver Key on Cockpit Control Panel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Glow Plug</b>                                                                                       | None: N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Throttle</b>                                                                                        | Starboard side of the Helm/Pedestal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Shift</b><br>Shift at idle speeds only!                                                             | Port side of the Helm/Pedestal. In reverse, prop-walk is to port.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Engine Starting</b><br>Warning! Never turn the battery switch to "OFF" while the engine is running! | <ol style="list-style-type: none"> <li>Deactivate and disconnect shore power. Turn Engine Start and House Battery Switches "ON".</li> <li>Make sure shift is in neutral, throttle 50%, ignition on, engine stop handle in completely.</li> <li>Turn the ignition key to the right. If engine does not start within 5 sec., recheck that steps were performed exactly and retry.</li> <li>When engine has run for a few seconds the "Low Oil Pressure" alarm should stop buzzing. If buzzer continues to sound, throttle up engine for a few minutes.</li> <li>Check the engine exhaust at the bottom of the transom to see that water is being exhausted out. Warm up for 15 minutes.</li> <li>Before dropping dock lines run through shifting and throttle advance until comfortable.</li> </ol> |
| <b>Stop Engine</b>                                                                                     | Push STOP button.<br>Turn the engine START BATTERY switch to OFF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Dipstick</b><br>Check oil only if necessary.                                                        | Starboard side of engine, lift stairs and secure. Unlatch cover (Port side of cover); lift cover up and towards you.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

# Electrical

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|                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Electrical Panel</b>                                                                                                                                                                                                                        | Located above the Navigation station table just forward of the galley sink cabinet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Battery Switch</b><br>Never turn any battery switch off while engine is running! At the end of charter, leave battery switch on "OFF"!                                                                                                      | <ul style="list-style-type: none"> <li>• Engine Start Battery Switch: Located on the Aft Cabin berth (low, below bed)</li> <li>• House Battery Switch: Located on the electrical Panel</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Inverter and Battery Charging</b><br>Both batteries require 2 to 4 hours to recharge when charge levels are low. Monitor battery levels frequently! (SEE: "Monitoring Batteries")<br>At the end of charter, leave battery switch on "BOTH"! | <p>This boat is equipped with an Inverter/charger. When on shore power it operates as a charger, when off shore power it operates as an inverter to give AC power. When off shore power press "inverter" on the Heart Link panel forward of the electrical panel. If the red reverse polarity light is on, the AC main should be turned off. There is an additional AC main switch located in the Stern Lazarette (port) for shore power this switch should remain in the on position and not changed.</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 the "Master Breaker".</li> <li>3. Toggle on the "Battery Charger" breaker. Red lights next to these breakers should be lit.</li> </ol> <p><b>Charging Batteries with Engine:</b></p> <ol style="list-style-type: none"> <li>1. Turn Battery Switch switch to "BOTH".</li> <li>2. Start the engine. Let the engine run until it has "warmed up".</li> <li>3. Adjust the "Throttle" lever until the tachometer is between 1500 and 1800 rpm.</li> </ol> <p>After batteries are charged and engine is off, turn "Engine Start" switch OFF.</p> |
| <b>Monitoring Batteries</b><br>Monitor battery levels frequently when using 12 volt services!<br>After charter: leave battery switch on "OFF" and "battery charger" toggle "ON".                                                               | <p><b>Method for Monitoring Battery Level:</b></p> <p>The Battery Inverter/Charger is located under the Nav station, mounted on the outboard bulkhead. A BLUE light on the face of the charger should be ON. The Charger has a "Trickle" charge for the batteries when needed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Battery Location</b>                                                                                                                                                                                                                        | Engine Start Batteries: Two located in the port stern lazarette.<br>House Batteries: Two battery banks located under the Starboard settee main cabin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Pedestal Cluster Instruments</b>                                                                                                                                                                                                            | To activate the pedestal cluster instruments: <ol style="list-style-type: none"> <li>1. Turn on the "House Batteries" switch.</li> <li>2. On the electrical control panel toggle on the "Electronics" breaker.</li> <li>3. Turn on each instrument at the helm</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Electronics

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### Autopilot

Auto helm control panel is located in the Helm pedestal starboard. To use, make sure it is on at the electrical panel (top accessory DC switch on right side you face panel), push standby in the cockpit, engage at the wheel, come to course and push Auto. This Auto helm has an interface with the GPS, leave this off unless you have been checked out on its use.

### Radar

Control on GPS screen, mounted Starboard side of helm.  
Press HOME, press RADAR.

## Sails

### Jib

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.

***NOTE: Do not release the jib halyard brake located on the port side of the companionway hatch.***

### Main

Main halyard and main sheet lead aft to the Starboard side of the companionway.

## Tankage

### Water Tanks

#### Tank 1

Tank located Under the aft cabin berth.  
Fill fitting located outside the cockpit (Starboard, well aft)  
Capacity: 15 gallons

#### Tank 2

Tank located under V berth, valve just aft of tank  
Fill Fitting located on the Starboard deck just forward of the mast  
Capacity: 20 gallons

### Fuel Tank

**Do not leave fuel filler nozzle unattended when fueling!**

Tank located in stern lazarette (Starboard) under shelf.  
Fuel fill fitting located outside the cockpit aft.  
Capacity: 15 gal

### Holding Tank

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

Located Under the Aft section of the Starboard settee.  
The pump out cap is located on the port side, midship, outboard.

#### To Empty Holding Tank While Out at Sea:

1. Open through hull valve just forward of the tank. This is a ball valve on the line leading from the macerator mounted under the settee (small line). It is a small black handle low on the line. If the handle is up parallel to the line the through hull is open.
2. Turn the macerator on at the DC switch
3. Press button under the settee and run until it runs free
4. CLOSE the through hull (by turning the valve handle down) otherwise the tank will fill with seawater.
5. Turn the DC macerator switch off.

**Harbor Pump Out:** Fitting located on starboard deck, aft of mast.

## Head

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Head</b>                                                                                                                                                                               | Standard marine head, the inlet valve is located with the head sink valve.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Flush Direct Overboard</b><br><b>NOTE: Operate Only When 3 Miles Out At Sea.</b><br><br><b>NOTE: On Discrepancy Report note that Zip-Tie has been cut. Staff will install new tie.</b> | <ol style="list-style-type: none"> <li>1. Open the large discharge through hull under the aft section of the starboard settee (outboard of the smaller macerator through hull) by turning the RED handle up and parallel to the line.</li> <li>2. Turn the Y valve just forward of the toilet, counter clockwise until it stops with the little pointed part down and the forward large arm up.</li> <li>3. To return the head to holding tank reverse the overboard procedure turning the Y valve clock wise until it stops and the close the through hull.</li> </ol> |

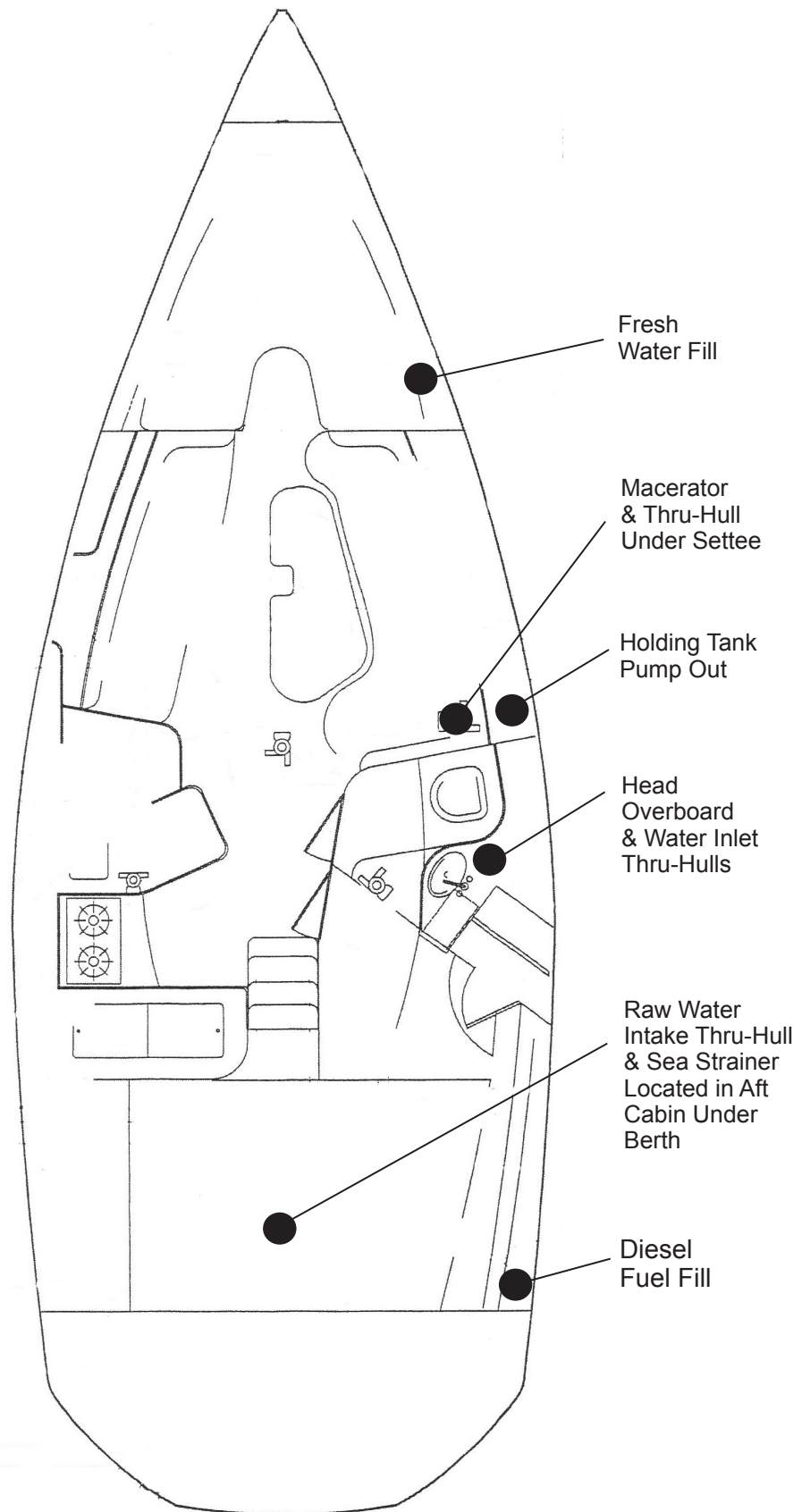
## General Notes

|                         |                                                                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stove</b>            | LPG (Propane), Tank and valves located under a hatch on top of the Cockpit (Port, aft). Turn tank and valve on and LP safety switch on the electrical panel to use. |
| <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>       | <b>Manual Bilge Pump:</b> Located above the stern seat starboard.<br><b>Automatic Bilge Pump:</b> Switch is located on the Electrical Control Panel.                |
| <b>Shower Sump Pump</b> | Switch located on the sink cabinet (aft) and the DC switch on the electrical panel.                                                                                 |
| <b>Hot Water Heater</b> | Engine must be running to use.                                                                                                                                      |
| <b>Microwave</b>        | Runs on AC (inverter or shore power)                                                                                                                                |

## Deck Plate & Thru-Hull Locations

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## Inventory

| Item               | Qty | Location                                                           |
|--------------------|-----|--------------------------------------------------------------------|
| Air Horn           | 1   | Boat Bag                                                           |
| Anchors            | 2   | Bow Anchor in Bow Anchor Locker<br>Stern Anchor in stern lazarette |
| Bell               | 1   | Saloon Wall Forward Settee                                         |
| Boat Hook          | 1   | Companionway Handrail                                              |
| Bilge Pump Handle  | 1   | In Boat Bag                                                        |
| Canvas             | 3   | Winch covers                                                       |
|                    | 1   | Helm                                                               |
|                    | 3   | Dodger covers                                                      |
|                    | 1   | Mainsail cover                                                     |
| Deck Key           | 1   | Boat Bag                                                           |
| Emergency Tiller   | 1   | Port Lazarette                                                     |
| Fenders            | 4   | 2 port, 2 starboard                                                |
| Fire Extinguishers | 1   | Port Lazarette                                                     |
|                    | 1   | Port Forward Bulkhead                                              |
|                    | 1   | Main Cabin, Mounted Behind Companionway Steps.                     |
| First Aid Kit      | 1   | Head on the shelf above the toilet.                                |
| Flashlights        | 1   | Boat bag                                                           |
| Life Jackets       | 8   | Adult Type 1- Port Lazarette                                       |
|                    | 4   | Child - Port lazarette                                             |
| Life Sling         | 1   | Mounted to stern rail.                                             |
| Radar Reflector    | 1   | Starboard forward cabin.                                           |
| Signal Flares      | 4   | Boat Bag                                                           |
| Tool Kit           | 1   | Port Lazarette                                                     |
| VHF Radio          | 1   | Navigation station                                                 |
| Winch Handles      | 2   | Boat Bag                                                           |