



# License to Keel Boat Manual



BOAT CODE

**R32**

SLIP

**C110**

**NOTE: SAIL IN REVERSE**

**MAXIMUM CAPACITY: 8 PASSENGERS**

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

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<b>Boat Manual</b>		<b>Radio Call Sign</b>	License to Keel
		<b>Make</b>	Catalina
<b>Name</b>	<b>License to Keel</b>	<b>Documentation No.</b>	1043363
		<b>Length</b>	32 Feet
<b>Code</b>	R32	<b>Beam</b>	11'- 9"
<b>Slip</b>	C110	<b>Draft</b>	4'-3"
<b>Use this information along with the Discrepancy Report and the Basic Course Syllabus</b>			

<b>Engine</b>	
<b>Type</b>	Beta 30 Diesel 3 Cylinder, Located under companionway steps.
<b>Dipstick</b>	Starboard side of engine, Lift stairs and secure. Unlatch cover (Port side of cover); lift cover up and towards you. <b>NOTE: After checking oil level be sure that the dipstick is fully seated in its tube!</b>
<b>Engine Hour Meter</b>	Cockpit Control Panel in the RPM gauge. Port side in front of wheel.
<b>Fuel Gauge</b>	None
<b>Ignition Switch</b>	Cockpit Control Panel (Key)
<b>Glow Plug</b>	None
<b>Throttle</b>	Starboard side of the Helm/Pedestal
<b>Shift</b>	Port side of the Helm/Pedestal. In reverse, prop-walk is to port. <b>NOTE: Shift at idle speeds only!</b>
<b>Engine Start</b>	Disconnect shore power. 1. Turn engine start battery switch to "BOTH" (See: Batteries Switches) 2. Make sure "Shift" lever is in neutral. 3. Advance "Throttle" 50%. 4. Turn the ignition key to the right. 5. 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.
<b>Prop Rotation</b>	Right (Backs to left in reverse).
<b>Stop Engine</b>	Push STOP button. Turn the engine START BATTERY switch to OFF.

<b>Electrical</b>	
<b>Control Panel</b>	Located above the Navigation station table just forward of the galley sink cabinet.
<b>Batteries</b>	Engine Start Batteries: Two located in the port stern lazarette. House Batteries: Two battery banks located under the Starboard settee main cabin.
<b>Battery Switches</b>	Engine Start Battery Switch: Located on the Aft Cabin berth (low, below bed) House Battery Switch: Located on the electrical Panel  <b><i>NOTE: Never Turn Any Battery Switch Off While Engine Is Running!</i></b>
<b>Inverter and Battery Charging</b>	<i>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.</i>
<b>Cabin Lights</b>	<i>"Interior Lights" switches in galley forward above counter.</i>
<b>Outside Lights</b>	<i>Switches on separate panel under electronics.</i>

<b>Electronics</b>	
<b>Autopilot</b>	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.
<b>Radar</b>	Control on GPS screen, mounted Starboard side of helm. Press HOME, press RADAR.

<b>Sails</b>	
<b>Jib</b>	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.  <b><i>NOTE: Do not release the jib halyard brake located on the port side of the companionway hatch.</i></b>
<b>Main</b>	Main halyard and main sheet lead aft to the Starboard side of the companionway.

Tankage	
<b>Water Tanks</b>	<p><b>Tank 1</b> Tank located Under the aft cabin berth. Fill fitting located outside the cockpit (Starboard, well aft) Capacity: 15 gallons</p> <p><b>Tank 2</b> 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</p>
<b>Fuel Tank</b>	<p>Tank located in stern lazarette (Starboard) under shelf. Fuel fill fitting located outside the cockpit aft. Capacity: 15 gal</p> <p><b>NOTES:</b> <i>Remove fill cap slowly and hold it firmly so as not lose it overboard should the tether line break. Do Not Leave Fuel Filler Nozzle Unattended When Fueling!</i></p>
<b>Holding Tank</b>	<p>Located Under the Aft section of the Starboard settee. The pump out cap is located on the port side, midship, outboard.</p> <p><b>To Empty Holding Tank While Out at Sea:</b></p> <ol style="list-style-type: none"> <li>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. <b>NOTE: On Discrepancy Report note that Zip-Tie has been cut. Staff will install new tie.</b></li> <li>2. Turn the macerator on at the DC switch</li> <li>3. Press button under the settee and run until it runs free</li> <li>4. CLOSE the through hull (by turning the valve handle down) otherwise the tank will fill with seawater.</li> <li>5. Turn the DC macerator switch off.</li> </ol> <p><b>Harbor Pump Out:</b> Fitting located on starboard deck, aft of mast.</p>

Head	
<b>Head</b>	Standard marine head, the inlet valve is located with the head sink valve.
<b>Flush Direct Overboard</b>	<p><b>NOTE: Operate Only When 3 Miles Out At Sea</b></p> <p>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 then 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. To return the head to holding tank reverse the overboard procedure turning the Y valve clockwise until it stops and close the through hull.</p> <p><b>NOTE: On Discrepancy Report note that Zip-Tie has been cut. Staff will install new tie.</b></p>

## 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. <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)

Inventory		
Item	Qty	Location
Air Horn	1	Boat Bag
Anchors	2	Bow Anchor in Bow Anchor Locker 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