



Boat Manual

BOAT NAME

Albireo

BOAT CODE

G30

SLIP

J21

SAIL IN REVERSE

No Single Handed Sailing

MAXIMUM CAPACITY: 8 PASSENGERS

Violation Will Result In Suspension of Members Certification and Charter Privileges

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Boat Manual		Radio Call Sign	Le Laveer
		Make	1990 Catalina
Name	Albireo	Documentation No.	CF 8448 JT
		Length	30 Feet
Code	G30	Beam	
Slip	J21 East Basic Cove	Draft	
Use this information along with the Discrepancy Report and the Basic Course Syllabus			

Engine	Universal 3 cylinder diesel located under the settee's aft bench seat and the galley sink cabinet.
Control Panel	The Engine Control Panel is located on the port aft end of the cockpit combing. The control panel contains a Tachometer, an Engine Temperature gauge, a Fuel Gauge, a Volt Meter, a Start Button , a Key Ignition Switch and an Engine Stop "T" handle.
Dipstick	Starboard side of the engine. Access through the hatch on the inboard side of the settee bench.
Engine Hour Meter	Located on the face of the tachometer on the Engine Control Panel (See: "Engine")
Fuel Gauge	On the Engine Control Panel (See: "Engine")
Ignition	Key switch on the Engine Control Panel (See: "Engine")
Start	Silver button on the Engine Control Panel (See: "Engine")
Glow Button	On the Ignition Key Switch by turning the key switch full clockwise and holding for 20-30 seconds.
Throttle	On Starboard side of Helm pedestal. Forward is fast, Back is idle.
Shift	On Port side of Helm pedestal. 1. Move lever forward for "Forward" 2. Move lever to middle for "Neutral" 3. Pull lever back for "Reverse"
Engine Starting	<ol style="list-style-type: none"> 1. Turn Battery Switch to "1"/"Engine" (See: "Battery Switch") 2. Place Shift lever in "Neutral" (See: "Shift") 3. Move Throttle lever to 25 o/o (See: "Throttle") 4. Check to make sure the "Stop Engine" "T" handle (See: "Stop Engine") is in completely. 5. Activate engine "Glow Plug" for 20-30 seconds (See: "Glow Plug") 6. Release ignition key to "Run" position 7. Press the "Start" button (See: "Start") and hold until engine is running. NOTE: DO NOT "CRANK" FOR MORE THAN 20 SECONDS! IF ENGINE DOES NOT START, WAIT 30 SECONDS AND REPEAT STEP 4 THRU 6. 8. Check the engine exhaust at the bottom of the transom to see that water is being exhausted out. 9. After the engine is running, turn the battery switch "All" (See: "Battery Switch") to charge all batteries. <p>Warning! Never Turn the Battery Switch to "Off" While the Engine is Running!</p>

Stop Engine	<p>To stop the engine:</p> <ol style="list-style-type: none"> 1. Pull the “Stop Engine” “T” handle on the engine control panel (See: “Engine”) out until engine has stopped running. 2. Reset “Stop Engine” “T” by pressing it back in completely. 3. Turn Ignition Key off. <p><i>Warning! Never Turn the Ignition Key Off While Engine is Running!</i></p>
Notes	<i>Sail In Reverse</i>

Electrical	<p>There are two electrical systems on board: 12v DC and 120v AC</p> <p>12v DC:</p> <p>The 12v DC system is controlled by the “12v DC Service” panel is located on the starboard side of the cabin, above the Nav station chart table. Desired systems activation is controlled the Battery Switch (See: “ Battery Switch”) and by rocker switches labeled for each system.</p> <p>Power for the system is supplied by 3 deep cycle 12 volt Marine batteries (See: “Batteries”) on board.</p> <p>120v AC Shore Power:</p> <p>The 120v AC system is controlled by the “120v AC Service” panel is located on the starboard side of the Cabin, above the Nav station chart table, below the “12v DC Service” panel. To active the system: Make sure the breaker button labeled “LEAVE ON” is IN. (Water Heater is non operational)</p> <p>Power is supplied to the system by a Shore Power Cord. To supply 120v AC power to the vessel:</p> <ol style="list-style-type: none"> 1. Plug the male end of the 120v AC Shore Power Cord into the AC receptacle on the dock box at the head of the slip. Make sure that the Breaker at the receptacle is toggled “ON”. 2. Plug the female end of the 120v AC Shore Power Cord into the on-board male receptacle located on the starboard side face of the aft cockpit bench seat.
Batteries	<p>There are 3 Deep Cycle Marine Batteries on board.</p> <p>Two “House” batteries are located under the starboard settee bench, aft end. One “Engine/Start” battery is located under the quarter berth, Inboard.</p>
Battery Switches	<p>The “Battery Switch” is located on the starboard side of the cabin, aft of the “12v DC Service” panel (See: “Electrical”), above the Nav station chart table.</p> <p>Battery positions labeled:</p> <ul style="list-style-type: none"> • OFF • 1 (Engine) • ALL • 2 (House) <p><i>Never Turn Any Battery Switch Off While Engine Is Running!</i></p>

Electrical	Continued
Battery Charging	<p>There are two methods for charging the batteries:</p> <p>1. Auxiliary Engine 12v DC Alternator: Start and run the Engine (See: “Starting”). Run the engine at between 1200 & 1500 RPM (See: “Engine & Engine Control Panel”). Turn the Battery Switch to “ALL”. This will SLOW charge all the batteries. Observe the “Volts” gauge on the Engine Control Panel for charge level.</p> <p>Note: These Are Deep Cycle Batteries and Will Take Longer to Charge.</p> <p>2. 120v AC Battery Charger: Activate the 120v AC system (SEE: Electrical - 120v AC Shore Power). The Battery 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 the need it. NOTE: IT IS NOT NECESSARY TO HAVE THE BATTERY SWITCH “ON” FOR CHARGING.</p>
Monitoring Batteries	<p>On the 12v DC Service, below the Battery Switch, there is a Battery Level Gauge labeled D.C. VOLTS that shows the voltage level of the batteries. To observe the battery levels, there is a “BATTERY TEST 1 -2” rocker selector switch to the right of the gauge.</p> <ul style="list-style-type: none"> • Move the rocker switch to the left for battery #1 (Start) • Move the rocker switch to the right for battery #2 (House). • The charged level should be between 11 & 13 volts. • When not observing battery levels, place the switch in “Neutral.” <p>Never Turn Any Battery Switch Off While Engine is Running!</p>
Sails	
Jib	<p>This Vessel has 120 Roller furling Jib.</p> <p>The Jib Sheets are lead down both the Port and starboard sides to the cockpit. The Jib Halyard is fairlead back to the cockpit on the cabin top and through a line clutch labeled “Jib Halyard”.</p> <p>Do Not Release the Jib Halyard Except in Cases of Emergency !!!</p> <p>The Furling line is fairlead down the Port side to the cockpit. NOTE: It is suggested that when the sail is being unfurled that one of the crew grasps the furling line with “slight” drag so that the line moves onto the spool at the CLEW of the sail smoothly makes it easier to furl the sail.</p>
Main	<p>The Mainsail is attached to the mast and boom.</p> <p>The Main Halyard and Main Sheet are fairlead back to the cockpit cabin top and through line clutches labeled “Main Sheet” and “Main Halyard”. The line clutches must be “unlocked” to operate these lines.</p>

Tankage	
Water Tanks	<p>There are (2) water tanks aboard with a total 55 gallons.</p> <p>The deck fill caps are located near the rail on the starboard side just forward of the mast. Both are labeled "Water".</p> <p>Tank 1 is located under the V Berth. Capacity is 25 gallons</p> <p>Tank 2 is located under the forward end of the starboard settee bench. Capacity is 30 gallons</p>
Fuel Tank	<p>The Fuel tank is located under the Quarter Berth</p> <p>Tank capacity is 15 gallons.</p> <p>The fuel fill cap is located on the outboard side of the Port cockpit combing and is labeled "FUEL".</p> <p>NOTE: Remove fill cap slowly and hold it firmly so as not lose it overboard should the tether line break.</p> <p><i>Do Not Leave Fuel Filler Nozzle Unattended When Fueling!</i></p>
Holding Tank	<p>The Holding Tank is located under the Port settee bench.</p> <p>Tank capacity is 25 gallons</p> <p>The deck pump out fitting is located outboard side of the Port cockpit combing and is labeled "WASTE".</p> <p>Emptying the holding tank at Sea:</p> <ol style="list-style-type: none"> 1. Turn on the Battery Switch to "ALL" or "2". 2. On the 12v DC Service Panel locate the "Macerator" rocker switch and activate it. 3. Locate the "Macerator Pump", "Macerator Button" and "Macerator Through Hull" under aft end of the Port settee bench access cover. 4. Cut the Zip Tie on the "Macerator Through Hull" valve and open the valve (Move handle to a vertical position in-line with hose). 5. Press the black "Macerator" button under the lip of the access cover and hold in until the pump is no longer pumping waste overboard (pump isn't straining). 6. Close the "Macerator Through Hull" valve (Move handle to a horizontal position perpendicular to the hose). 7. On the 12v DC Service Panel, turn off the "Macerator" rocker Switch. <p><i>Report On The Discrepancy Report That The Zip-Tie Has Been Cut. Staff Will Install A New Zip-Tie.</i></p>

Head	<p>Open the access panel on the forward bulkhead in the Head labeled "HEAD INTAKE & SINK DRAIN".</p> <p>Open Through Valve by moving the handle to the vertical position (In-line with the hose).</p> <p>After Head use, close the Through Hull valve by moving the handle to the horizontal position (Perpendicular to the hose).</p> <p><i>Nothing Goes In The Bowl That Has Not Been Consumed First Except Marine Toilet Paper!</i></p>
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General Notes	
Bilge Pump (Electric)	<p>The Electric Bilge Pump is located under the main cabin bilge plate. Mounted next to the pump is an "Auto" bilge pump float switch. This float switch will automatically activate the bilge pump when the water level in the bilge is 4 inches or deeper. The float switch is wired directly the batteries and it is not required for the battery switch to be on.</p> <p>To activate the manual mode (Turns on when switched on) :</p> <ol style="list-style-type: none"> 1. Turn the battery switch (SEE: Battery Switch) to "ALL" or "2"/"House" 2. On the 12v DC Service panel, locate the "BILGE MAN/AUTO" rocker switch and move the switch to the left to the "MAN" mode. This will activate the bilge pump. Pump the bilge until it is empty (Near Empty). 3. On the DC Service panel move the "BILGE MAN / AUTO" to the right to the "AUTO" mode (Labeled "Leave On").
Bilge Pump (Manual)	<p>The Manual Bilge Pump is located on the inboard side of the Port cockpit seat bench (Labeled: "BILGE PUMP").</p> <p>To operate the pump:</p> <ol style="list-style-type: none"> 1. Retrieve the bilge pump handle from the Boat Bag. 2. Insert the handle in the pump receptacle on the face of the pump. 3. Move the pump handle up and down to operate the pump. Note: This may take many strokes to "Prime" the pump. Once "Primed" the pumping effort will be harder and will become easier once the bilge is empty. 4. Remove the pump handle and replace it in the Boat Bag.

General Notes (Continued)

<p>Ice Box</p>	<p>General Note: The refrigeration on this vessel is not operational at this time. The boat book will be changed and directions of operations will inserted once it is in service.</p> <p>The Ice Box is located outboard and aft in the Galley.</p> <p>When using CRUSHED ICE realize that it will melt.</p> <p>Water from the ice DOES NOT drain overboard or into the Bilge. It is PUMPED overboard by use of a FOOT PUMP located at the bottom of the aft galley cabinet.</p> <ol style="list-style-type: none"> 1. Remove ALL leftover ice from the bottom of the Ice Box. (It has been suggest to use the Dust Pan and Cleaning Bucket to remove excess ice. TRY IT). 2. Locate the RED "T" handled valve under the galley sink. 3. Turn to "T" handle to the vertical position and use the FOOT PUMP to drain the Ice Box. 4. When the box is drained turn the "T" handle to the Horizontal for the galley sink drain. <p>STAFF SUGGESTION: For Multi Day Charters, placing DRY ICE in the bottom of the Ice Box and placing your crushed ice on top of the dry ice, the crushed ice will last longer. Disposing of the dry ice is the same as regular ice, OVERBOARD.</p> <p><i>Warning: Do not let your skin come in direct contact with the dry ice!! This can cause severe burns to your skin!!! Use gloves or heavy towel to handle the dry ice. Do not place food or beverages directly on dry ice. They will freeze!!!</i></p>
<p>Stove</p>	<p>The Galley Stove is fueled by LGP. The Propane Tank is located in the stern lazarette.</p> <p>To operate the stove:</p> <ol style="list-style-type: none"> 1. Turn on the propane tank valve by turning the knob on top of the tank full Counter Clockwise. 2. On the 12v DC Service Panel locate the RED rocker switch labeled "LPG STOVE". Move the switch to the right to active the switch. 3. Locate the "GAS CONTROL PANEL" on the bulkhead aft of the POWER SERVICE PANELS and behind the VHF radio. Toggle "ON" the switch and observe that the GREEN "Power" is on. <p>At the stove :</p> <ol style="list-style-type: none"> 1. Retrieve a BBQ lighter from one of the galley drawers. 2. Select the desired burner to be used. 3. Ignite the lighter and place it next to the selected burner. 4. Push and hold in and turn the selected burner knob. 5. If the burner does not immediately light, BE PATIENT. Some times the fuel supply can be empty and the fuel needs to BLEED into the line from the tank to the Stove. 6. After the burner is lit, adjust the burner knob to the desired level. 7. When finish using the stove, REVERSE THE FIRST 3. STEPS to complete stove shut down.

Inventory		
Item	Qty	Location
Air Horn	1	Boat Bag
Anchors	2	Bow Anchor in Bow Anchor Locker
Bell	0	
Boat Hook	1	In quarter berth
Bilge Pump Handle	1	In Boat Bag
Canvas	1	Main Sail
	1	Helm Cover
	2	Hatch Covers: Main and Forward Hatch
	1	Dodger cover
	4	Winch Covers
	2	Handrails: Port and Starboard Cabin Top
	2	Cockpit Comb Line Boxes
Deck Keys	2	In Boat Bag: Deck Fitting and Emergency Tiller Cap Wrench
Emergency Tiller	1	In stern lazarette
Fenders	4	2 Port, 2 Starboard
Fire Extinguishers	1	Mounted on starboard bulkhead in V Berth
	1	Cabinet Starboard side of main cabin
	1	Mounted in Port Lazarette
First Aid Kits	2	Cabinet over Head sink and starboard side of main cabin
Flashlights	1	1 In cabinet starboard side of main cabin
Life Jackets	9	Adult Type II in Port Lazarette
	1	Child Type II in Port Lazarette
Life Sling	1	Mounted on Stern Pulpit
Oil Discharge Placard	1	Above Companionway Steps
Radar Reflector	1	Port Lazarette
Signal Flares	4	Boat Bag
Ship Papers		Boat Book, Navigation Station
Shore Power Cord	1	Attached to AC power inlet on face of stern bench seat, Starboard
Tool Kit	0	
VHF Radio	1	Mounted on overhead, aft of DC & AC Power Service Panels
Winch Handles	2	Boat Bag