



AVENTURA SAILING

Fox Sea

Boat Manual



BOAT CODE

D38

SLIP

E22

DO NOT 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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Boat Manual		Make	2001 Dufour
		Documentation No.	115016
Name	Fox Sea	Length	38 Feet
		Beam	12'07"
Code	D38	Draft	6'- 03"
Use this information along with the Discrepancy Report and the Basic Course Syllabus			

Engine Volvo Penta 3 Cylinder Diesel

Location/Access	Remove companionway steps or white cowling covers in the quarter berths. To remove steps, pull the small wooden peg under bottom step.
Engine Cockpit Control Panel	Located forward, low in cockpit at the entrance to the companionway, containing a tachometer, glow plug (toggle switch), ignition power button, engine start button and stop lever.
Battery Switches <i>Never turn any battery switch off while engine is running!</i>	House Battery Switches: Located under chart table (outboard). Engine Battery Switches: Located behind door in the port quarter berth. Battery switching uses double red "flag" type switches; "flags" horizontal is OFF, "flags" pointed down is ON. Both must be in the ON position for power to flow. The "flags" cannot be removed if they are in the on position.
Engine Hour Meter	Above companionway steps with water temp and oil pressure gauge.
Fuel Gauge	Lower dial on DC panel above chart table. Will not work unless the battery switches and the voltage meter rocker switch just above it are on.
Ignition/Start	No key, black on/off button on cockpit control panel with separate black start button.
Glow Plug	Toggle on cockpit control panel.
Shift/Throttle Single Lever Control	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. <ul style="list-style-type: none"> • To disengage the transmission, push in black 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. • To re-engage the transmission, bring the handle to neutral and the black button will pop out. • Before dropping dock lines run through shifting and throttle advance until you understand this and are comfortable.
Engine Starting <i>Warning! Never turn the battery switch to "OFF" while the engine is running!</i>	<ol style="list-style-type: none"> 1. Deactivate and disconnect shore power. Turn Engine Battery Switch ON. 2. Disengage Shift/Throttle lever, throttle 50%. 3. Push black ignition button to turn on ignition. 4. Hold the glow plug toggle switch up for 30 seconds 5. Push black start button until engine starts. If engine does not start within 5 sec., recheck that steps were performed exactly and retry. 6. Check the engine exhaust at the bottom of the transom to see that water is being exhausted out. Warm up for 15 minutes. 7. Before dropping dock lines run through shifting and throttle advance until comfortable.
Stop Engine	Red handle on Engine Control panel; pull out to stop engine. After engine has stopped, push Red handle back in, when the engine stops, push the ignition power button off.
Dipstick <i>Check oil only if necessary.</i>	Dipstick Access under white cowling cover in starboard quarter berth; below fuel filter, yellow knob.

Electrical Control Panels

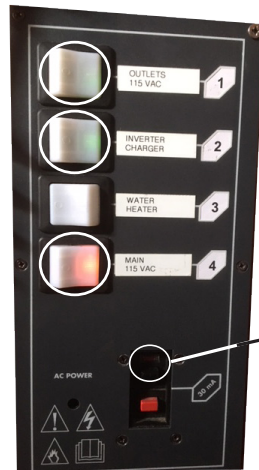


DC Control Panel is above the chart table outboard.

Voltage Meter

- Position on the rocker switch is Engine
- = Position on the rocker switch is House

NOTE: Battery switches must be “ON” to monitor batteries.



OUTLETS
Green ON

INVERTER CHARGER
Green ON

WATER HEATER
OFF

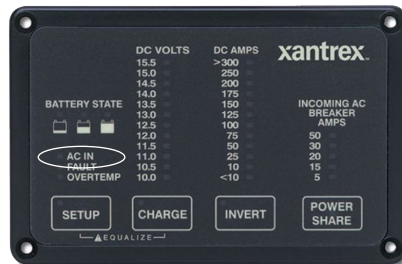
MAIN
Red ON

CIRCUIT BREAKER
Black Button

AC Control Panel is forward of the DC panel facing aft and has an Inverter control panel at the top, 4 rocker switches, and a main circuit breaker. Black button resets and red button trips AC power.

When shore power is removed or fails, the main circuit breaker will trip and must be reset by pressing the black button above the red button.

At the end of your charter 3 of the 4 AC switches should be ON (Outlets, Inverter charger, and Main) except water heater. They should be back-lit green or red.



Inverter Control Panel is above the AC Panel. “AC IN” indicates AC power is properly connected. If not lit check the black circuit breaker button.

Electrical & Electronics

<p>Battery Switches</p> <p>Never turn any battery switch off while engine is running!</p>	<p>Battery switching uses double red “flag” type switches; “flags” horizontal is OFF, “flags” pointed down is ON. Both must be in the ON position for power to flow. The “flags” cannot be removed if they are in the on position.</p> <p>Engine Battery Switches: Located behind the door in the port quarter berth.</p> <p>House Battery Switches: Located under chart table (outboard).</p>
<p>Battery Charging</p> <p>Both batteries require 2 to 4 hours to recharge when charge levels are low. Monitor battery levels frequently! (SEE: “Monitoring Batteries”)</p> <p>At the end of charter, leave battery switches on “OFF”!</p>	<p>There are 2 methods for charging the batteries on board.</p> <p>Shore Power: Charges only the House Battery bank</p> <ol style="list-style-type: none"> 1. Plug in Shore Power cord at the receptacle on the port side aft of the cockpit. Make sure the AC breaker switch is “ON” at the Dock Box AND at the AC Panel above chart table. 2. On the AC power panel: Toggle on the “Master Breaker” and “Battery Charger” breakers. Green lights on these breakers should be lit. (Recheck the black button above the red button.) <p>Charging Batteries with Engine: The only way to charge the Engine Start battery.</p> <ol style="list-style-type: none"> 1. With Battery Switches “ON” and engine running, adjust the “Throttle” lever until the tachometer is between 1500 and 1800 rpm. After batteries are charged and engine is off, turn “Engine” flag switches OFF.
<p>Monitoring Batteries</p> <p>Monitor battery levels frequently when using 12 volt services!</p>	<p>Voltage meter is top gauge on DC panel above chart table.</p> <p>See "DC Panel" on page 2.</p> <p>– Position on the rocker switch is Engine = Position on the rocker switch is House</p> <p>NOTE: Battery switches must be “ON” to monitor batteries.</p>
<p>Battery Locations</p>	<ul style="list-style-type: none"> • House Battery: 2 deep cycle batteries located under chart table. • Engine Start Battery: 1 battery located under companionway steps.
<p>Pedestal Cluster Instruments</p>	<p>To activate the pedestal cluster instruments turn on the “House” batteries and toggle on the “GPS” and “Radar” breakers on the DC panel.</p>

Sails

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D38

<p>Jib</p>	<p>Genoa on a roller furling, the take up line leads aft along the port rail. Halyard: Leads down the mast (starboard) and cleats off below the point it comes out of the mast.</p>
<p>Main</p>	<p>Main: Lazy Jacks to assist when lowering the main. Leave them up unless the main is up to help support the boom.</p> <ul style="list-style-type: none"> • Main Halyard: Leads aft to starboard companionway rope clutch, Attached at the end of the boom as topping lift. • Main Sheet: Leads aft to starboard companionway rope clutch. • Spinnaker Halyard: Leads down to the mast (port) and cleats off at the mast. Pole is attached to the mast. • Outhaul Line: Leads aft, adjust at the front of the boom. • Pole Topping Lift: Leads down the mast (port) and cleats off on the mast. • Reefing Lines: 1 & 2 lead aft to port companionway rope clutch. Line 3 leads aft to starboard side of the companionway. • Boom Vang Line: Leads aft to port the companionway rope clutch.

Water & Fuel Tanks

<p>Water Tanks</p>	<p>Aft:</p> <ul style="list-style-type: none"> • Fill Fitting: Located outside the cockpit stern (port). • Tank Location: Under the port quarter berth • Tank Holds: 42 Gallons <p>Forward:</p> <ul style="list-style-type: none"> • Fill Fitting: Located inside the anchor locker. • Tank Location: Under the v-berth (forward). • Tank Holds: 42 gallons.
<p>Fuel Tank Do not leave fuel filler nozzle unattended when fueling!</p>	<ul style="list-style-type: none"> • Fill Fitting: Located outside the stern, starboard. • Tank location: Under the starboard quarter berth • Tank holds: 47.5 gallons

Holding Tanks & Heads

Holding Tanks and Head

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

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

Aft Head

- Waste Pump Out Fitting: Located on the Port rail aft of the mast.
- Tank location: On top of the head sink to the left inside the white "bulk head box."
- Head: Manual flush.
- **To Put Head on Overboard or to empty tank:** Tank is gravity flush. Locate the large through hull under the head sink and open it (handle up and in line with hose) When the through hull is open the holding tank will drain, be sure it is closed 3 miles or less from the shore.

Forward Head

- Waste Pump Out Fitting: Located in the anchor locker next to the waste pump out.
- Tank location: Under the forward cabin berth (forward).
- Head: Standard manual flush.
- **To Put Head on Overboard:** Locate the large through hull under the head sink and open it (handle up and in line with hose) and turn the y-valve next to the toilet to overboard.
- **To Put Head on Holding Tank:** Close the over board (large) through hull and turn the y-valve to Holding Tank.
- **To Empty Forward Holding Tank While AT SEA:** If you are not pumping the tank through the deck fitting and wish to empty at sea, locate the through hull under the v-berth, forward of the holding tank and open it by rotating the handle until its in line with the hose. Locate the gusher pump fitting in head on forward bulkhead, open and use the handle stored under the sink to operate the pump.

General Notes

Stove

Propane, tank is located under the helm seat in the cockpit.

Safety Solenoid: Switch is located in the galley aft behind refrigerator lid below cabinet door on the right.

Bilge Pump

Manual Bilge Pump: Located in the cockpit on the side aft of the starboard lazarette.

Automatic Bilge Pump Switch: Located on the DC electrical panel.

Refrigerator

Switch is on the DC electrical panel (10). The drain pumpout switch is located behind the refrigerator lid, below cabinet door on the left.

Deck Plate & Thru-Hull Locations

Holding Tank Pump Out Inside Anchor Locker

Fresh Water Fill Inside Anchor Locker

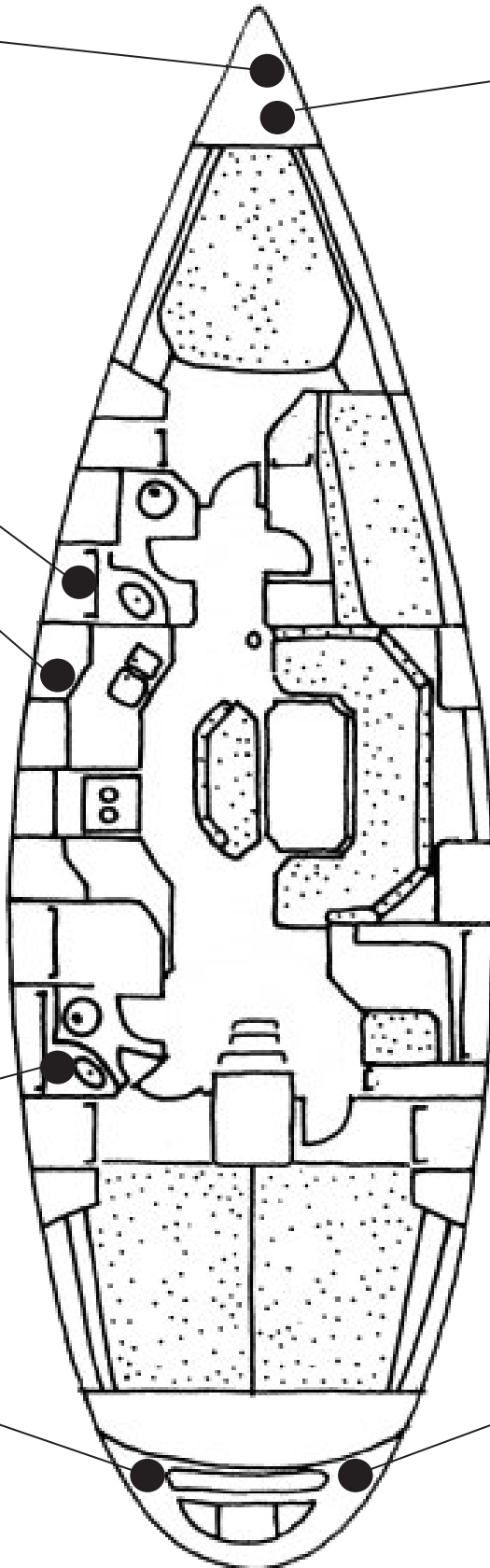
Thru-Hulls:
• Water Inlet
• Head Overboard
• Holding Tank

Holding Tank Pump Out

Thru-Hulls:
• Water Inlet
• Head Overboard
• Holding Tank

Fresh Water Fill

Diesel Fuel Fill



Inventory

Item	Qty	Location
Air Horn	1	Boat Bag
Anchors	1	Bow Anchor Roller
	1	Starboard Lazarette (Under PFDs)
Bell	0	
Boat Hook	1	Starboard aft cabin shelf
Bilge Pump Handle	1	Inside lid of the starboard lazarette
Canvas	4	Winch covers
	2	Combing compartment covers
	1	Cockpit Control Panel cover
	3	Dodger covers
	1	Mainsail cover
	2	Grab Rail covers
Deck Key	1	In Boat Bag. Use winch handle for aft fuel and water fill caps.
Emergency Tiller	1	In port lazarette
Fenders	4	2 port, 2 starboard
Fire Extinguishers	1	Aft cabin bulkhead
	1	V-Berth bulkhead
First Aid Kit	1	Navigation Station shelf
Flashlights	1	Boat bag and/or navigation station
Life Jackets	10	Starboard Lazarette
Life Sling	1	Mounted to stern rail.
Radar Reflector	1	Hanging in rigging
Signal Flares	4	Boat Bag
Tools		Various tools in navigation top drawer
VHF Radio	1	Navigation station
Winch Handles	4	Boat Bag