



Orientation Checklist for Horizon

Updated: 2016-Oct-06

General

- Manuals and vessel information are located in the binder above stereo (port side).
- Please clean the boat upon returning and remove personal belongings and trash when departing.
- All voyages should be documented in the ship's log book located in the Navigation Station desk.
- Report any damage or deficiencies to cruising@downtownsailing.org

Specifications

Registration #:	USCG registered	Hull#:	XLY 595267
Year:	1977	Engine:	Perkins 4.108; 4 cyl Diesel 48-HP
Displacement:	19,270 lbs	Draft:	5' 02"
Mast Height (from waterline):	52' 06"	Fuel Capacity:	30 gal. Holding tank: 18 gal.
LOA:	36' 08"	Water Capacity:	54 gal. 2 tanks, below Salon Settees
LWL:	28' 04"	Batteries:	Battery 1 and 2 (Starboard lazaret) Starting Battery (under companionway)
Beam:	11' 01"	Sails:	Main, Genoa on furler, staysail with boom

Safety Equipment

- First Aid Kit: Drawer port side Rescue Sling: Stern Rail
- PFDs: V-berth Fire Extinguishers: (2) – Starboard and Port stern Bulkhead
- Day/Night Flares: Aerial & Hand-held (in case) – Drawer port side above seats in salon
- Sounds (Horn, Bell & Whistle): Drawer port side above seats in salon
- Auto-Switched Bilge Pump: Wired directly to House Battery (must be switched to Auto when leaving boat). The switch is located on the starboard side inside the cabin above the galley sink
- Switched Bilge Pump: Wired to Electric Panel on the engine compartment wall (manual mode only). **Do not use this pump unless the other one is not working.**
- Manual Bilge Pump: Cockpit Port side (handle located in Cubby above Nav. Station desk)
- Anchors: Danforth (35 lbs) bow; Rode: 15' of chain & 150' of line (marked every 30')
- Thru-hulls/Sea-cocks: Engine water intake: In the cabin, starboard side, under the sink, the left front larger handle
- Engine exhaust: Stern Port side
- Bilge out: Stern center (smaller hole)
- Galley sink drain: Salon, below settee - Port side
- Transducers (Speed/Depth): Salon, below settee - forward Starboard side
- Head sink drain: Head, under sink
- Toilet raw water intake: Head, under sink



Waste tank - overboard drain: Forward Cabin, under V-Berth (Starboard side)

Thru-Hull Bungs: In the cabin, port side drawer above the seat

VHF Radio: Mounted above Nav. Station counter

Emergency Tiller: None

Tool Box: In the cabin, starboard side above the seat

Engine Check, Startup and Shutdown Procedures

Check Oil: Access from under companionway top step (lifts up and folds down in half), the dip stick is on top to your right half way into the engine compartment. Has yellow cable tie on it.

Change Engine's Diaper: This engine leaks oil that we have to capture before it gets into the bilge water by placing an oil absorbent sheet under the engine. If the sheet is soaked with oil, replace it. Fresh ones are in the storage bin under the very bottom companion step (the step lifts up revealing the storage).

Check Belts: Engine, Forward End, accessible from top

Check Coolant: Access from under companionway top step (lifts up and folds down in half)

Check Fuel: Fuel gauge in the cockpit, starboard side panel

Startup:

- ü Remove key from raw water intake valve (Located In the cabin, starboard side, under the sink) and **open raw water valve with the larger handle to your left**
- ü Gear shift on port side of binnacle – put in neutral (vertical position) **Engine will not start unless the shifter is in neutral**
- ü Throttle on starboard side of binnacle – push forward to slow idle
- ü Insert key into ignition and turn to “on” position (NO alarm will sound). The key has three positions. The first turn will activate the gauges so you can see the fuel level and voltage. Another turn will crank the engine.
- ü Throttle back after engine starts; **check for water from Exhaust Thru-Hull at the stern port side**
- ü Check Oil pressure gauge after 10 seconds to make sure it is above 45, if not stop the engine immediately. There is no oil alarm so you have to check the gauge for the PSI reading
- ü Disconnect the solar panel
- ü **Steam with the red battery switch set to “Both” position for at least an hour to charge all batteries, you can then switch it to 1. When sailing or at anchor, set it to position 1 or you will drain all 3 batteries and the engine will not start.**

Shutdown:

- ü Throttle the engine hard for 3 seconds, bring it back to idle speed for 1 minute and then pull out the kill switch while holding the panel with your other hand. Once the engine stops, return the kill switch by pushing it back in.
- ü Turn key to off position; turn Battery Switch to “Both” (**Do NOT turn off the ignition key or battery switch while the engine is running**)
- ü Connect the solar panel
- ü At end of sail, return key to raw water intake valve and **shut raw water valve (horizontal)**

General Information

Electrical Panel: Mounted on the engine compartment wall port side



Battery switches: There are two: 1. Red **Perko switch** on the starboard side that can switch between the two battery banks or combine both, 2. On the electrical panel; this switch is not used.

Stove: Fueled by propane, tank in the aft port lazaret

Ice Box and refrigerator: Has electric cold plate, switch is on the panel. Drains into bilge

Deck Fittings:

Pump-out: Forward, Port side

Water Fill Tubes: Deck Fittings (Port and Starboard sides)

Fuel Fill Tube: Deck Fitting (At the Stern behind the rail)

Compass: Mounted in the binnacle

Autopilot: Disconnected and not functional

Shower Drain: Auto Pump (in Shower Sump) is wired to "Water Pressure" switch on Electric Panel

Prop walk: To starboard in reverse

Sailing

Mainsail controls are achieved through a cabin-top mounted winch, leading to a traveler car system running across the deck in front of the main cabin's sliding hatch.

Main: Topping Lift: Use cleat on mast below the boom, blue line with white specks

Outhaul: Use cleat on underside of boom

Slab reefing: Single Reef Only

Mast Slide: Gate should be pinned up with Main dropped, lowered with Main raised

Winch Handles: Located in the drawer above sofa on port side inside the cabin

Leaving and Securing the Boat

- Ü Holding tank pumped out
- Ü Fuel tank topped off or leave cash in the log
- Ü Ensure all below-waterline thru-hull valves are closed
- Ü Ensure bilge and ice box are empty of water
- Ü Ensure all hatches and windows are closed
- Ü Red battery switch set to BOTH position
- Ü Bilge pump set to Auto mode, the green LED should be lit (above galley sink on starboard side)
- Ü Trash and belongings removed.
- Ü Make an entry in the ship's log book located in the cabinet on starboard side across from the door to the head. Do NOT leave the log in the Nav desk.
- Ü Companionway padlock closed

Boat Layout



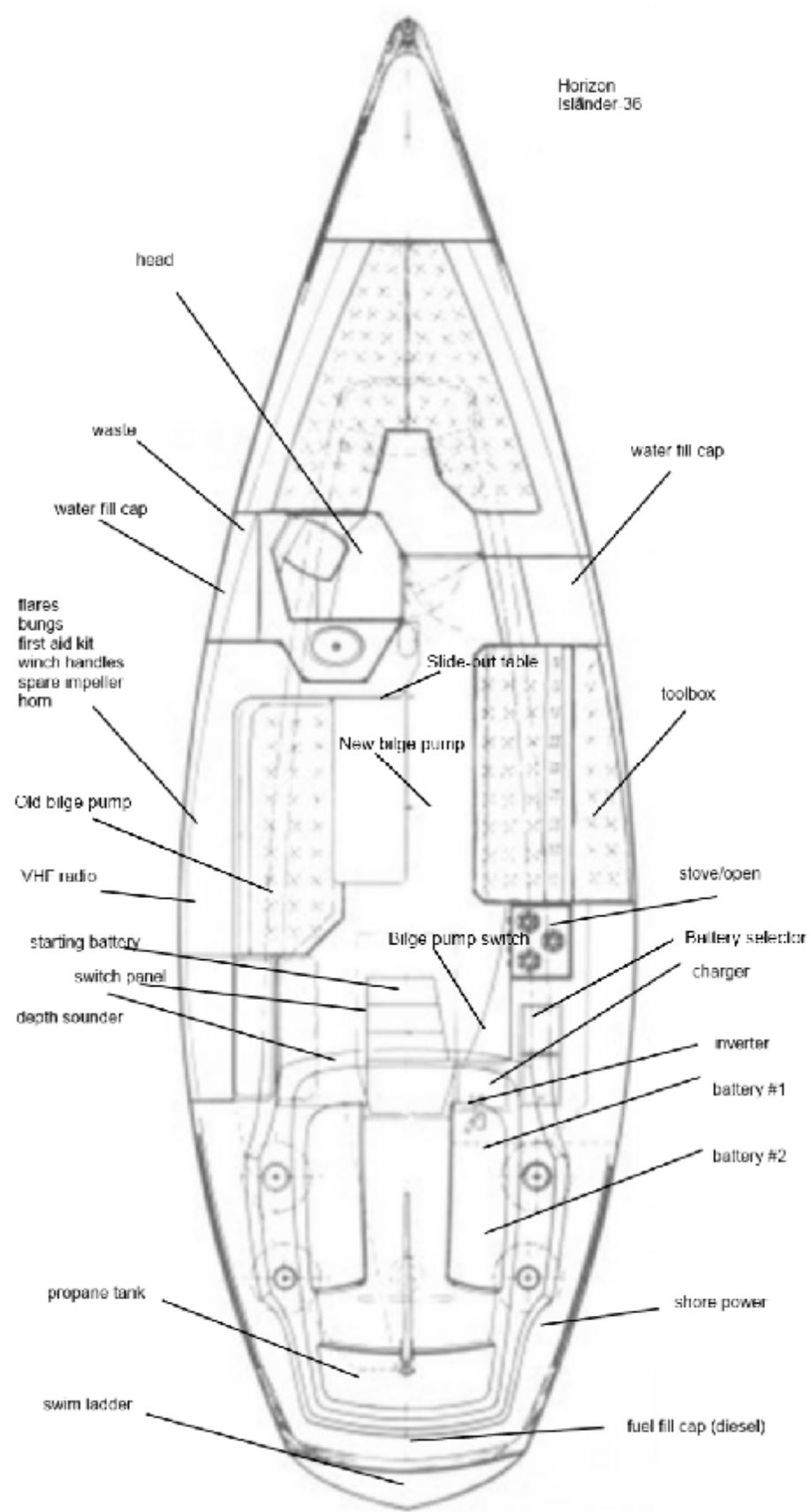
Deck Fittings:

Pump-out: Forward, Port side

Water Fill Tubes: Deck Fittings (Port and Starboard sides)

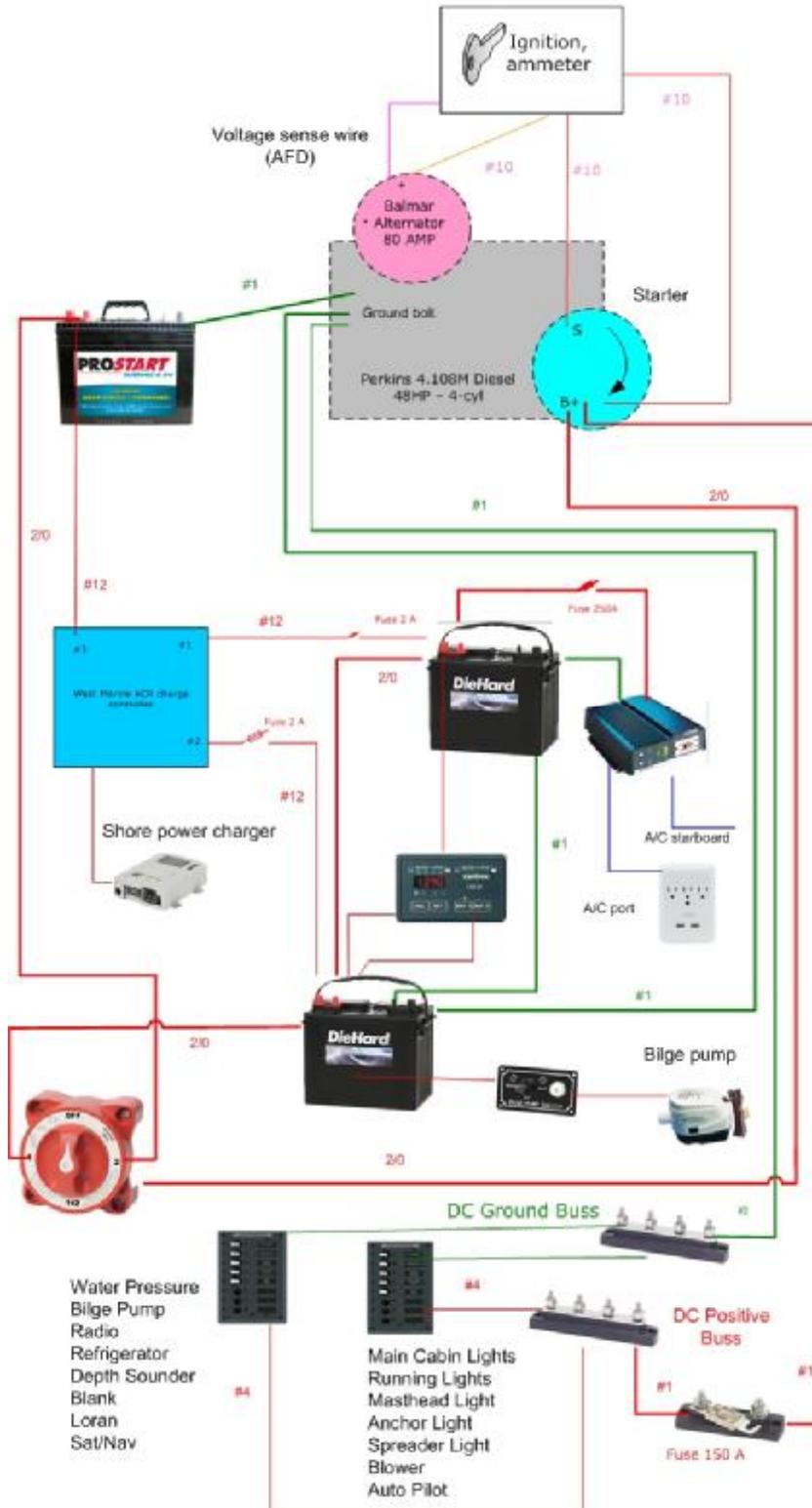
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Compass: Mounted in the binnacle





Horizon Electrical Wiring Diagram 2014-Aug-02





Hull Type:	Fin with rudder on skeg		Rig Type:	Masthead Sloop	
LOA:	36.08'		LWL:	28.25'	
Beam:	11.17'		Listed SA:	576 ft ²	
Draft (max.)	6.08'		Draft (min.)		
Disp.	13450 lbs		Ballast:	5820 lbs	
SA/Disp:	16.35	Bal/Disp:	43.27%	Disp/Len:	266.33
Designer:	Alan P. Gurney				
Builder:	Islander Yachts (USA)				
Construction:	FG		Ballast type:	Lead	
First Built:	1971	Last Built:	1986	# Built:	770
AUXILIARY POWER (orig. equip.)					
Make:	Perkins		Model:	4.108	
Type:	Diesel		HP:	48	
TANKS					
Water:	54 gals		Fuel:	32 gals	
RIG DIMENSIONS					
I:	45.00' / 13.72m		J:	14.48' / 4.41m	
P:	39.25' / 11.96m		E:	12.75' / 3.89m	
PY:			EY:		
SPL:	15' / 4.57m		ISP:		
SA(Fore):	325.80 ft ²		SA(Main):	250.22 ft ²	
Total SA:	576.02 ft ²		DL ratio:	266.33	
SA/Disp:	16.35	Est Forestay Len:	47.27'		