

# 3406 –Knot Free 1984 Hunter 34

<p><b>Documentation</b></p>	<p>Knot Free is a California DMV registered vessel CF 8345 YB.</p> <p>USCG required Oil and Garbage Discharge Placards are located in the galley</p>
<p><b>Engine</b></p>	<p>Engine type: Yanmar 3GMF</p> <p><b>Working RPM 2100</b>    MAX RPM 2700 (Emergency only)</p> <p>3 blade fixed prop</p> <p>The engine hour meter is located in the engine compartment.</p> <p>To access the engine compartment, lift the top step of the companionway ladder.</p> <p>Check the oil by opening the engine compartment hatch found in the galley next to engine compartment. The dipstick is easily accessible from here.</p> <p>The coolant reservoir is on the port side of the engine on the right as you face the motor. The pressure cap is to the left.</p> <p>There are two belts to check on Knot Free located on the front of the engine. The steps must be removed to check belt condition and tension.</p>
<p><b>Fuel Gauge</b></p>	<p>There is no fuel gauge. <b>IT IS EXTREMELY IMPORTANT TO RECORD ENGINE HOURS ACCURATELY, SO WE CAN FUEL THE BOAT PROPERLY. There is a 20 gal. fuel tank in the starboard lazarette.</b> Our staff tops of the fuel tank for this boat every week.</p>
<p><b>Engine Start Up and Shut Down</b></p>	<p><b>Start Up</b></p> <p>The ignition key is on the starboard side of the engine panel. To energize the starter system, turn on the battery switch located in the galley above the access door for the engine.</p> <p>Use the ON position for normal operations. Use COMBINE batteries ONLY when the starting battery charge state is insufficient to crank the engine.</p> <p>No pre-heat glow plugs are installed. To start the engine, turn the key clockwise and push the start button.</p> <p><b>Shut Down</b></p> <p>The shut off pull lever is found on the engine panel.</p>

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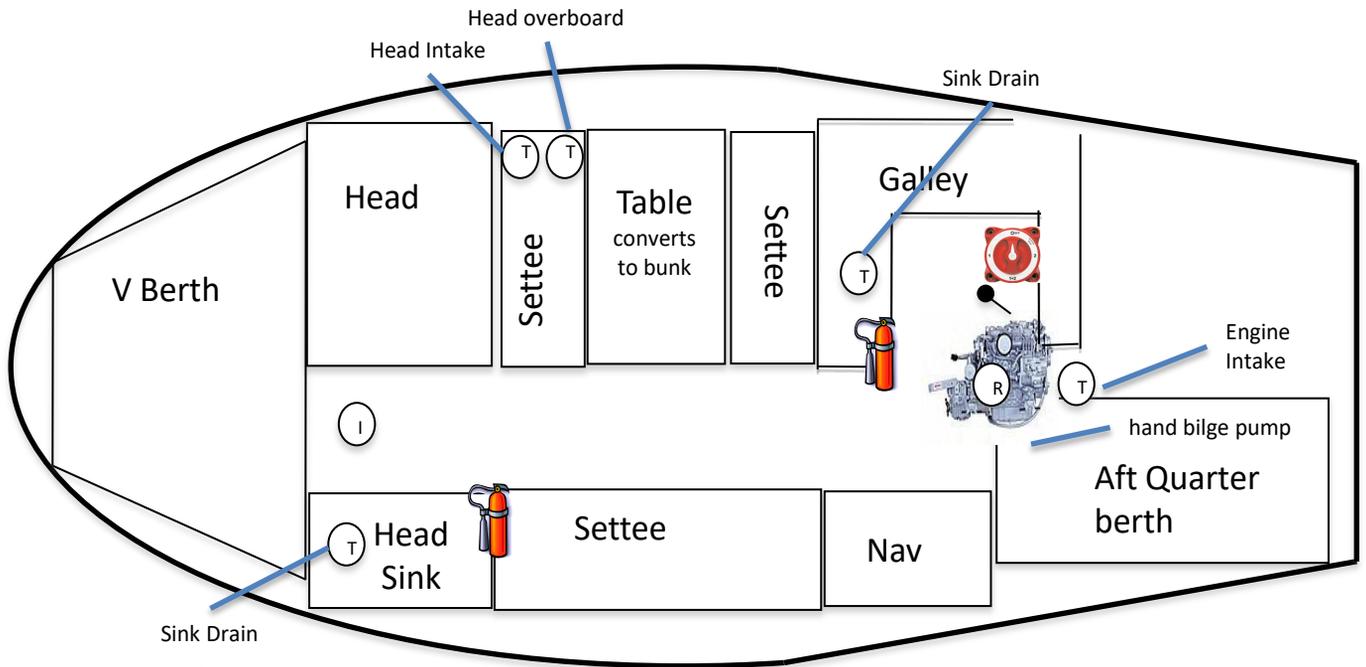
<p><b>Electrical System</b></p>	<p><b>AC</b> The AC emergency breaker is in the aft quarter berth on the aft wall.</p> <p>Leave the following AC switches on when plugged in dockside (all are labeled with green dots):</p> <ul style="list-style-type: none"> <li>• AC Main</li> <li>• Outlets (both port and starboard)</li> </ul> <p><b>DC</b> The DC off / on / combined Battery Selector located in Galley, on the engine cover box. <b>When leaving the boat, the DC Main should be in the “OFF” position.</b></p> <p>The depth sounder switch on the DC Main Panel activates the depth instrument located at the helm.</p>
<p><b>Thru Hulls</b></p>	<p>Knot Free has one instrument thru hulls. The depth sensor is located below the head floorboards.</p> <p>There are four thru hulls with seacocks.</p> <ul style="list-style-type: none"> <li>• Head sink drain is below the sink in the head offset to port.</li> <li>• Toilet intake and holding tank discharge are accessible below the forward dinette seat.</li> <li>• The galley sink drain is located under the galley sink.</li> <li>• The Raw Water Engine Intake is aft of the engine below the aft cabin berth off set to port.</li> </ul> <p>Knot Free does NOT have a pre-installed manual bilge pump, so we’ve provided a hand-operated portable bilge pump.</p>
<p><b>Head(s)</b></p>	<p>There is one “manual flush” head located to starboard. The head intake is located under the forward dinette seat. However, it is recommended that fresh water from the shower be used instead. There is a manual pump located next to the head bowl – it is zip tied off as this is the overboard pump for the holding tank, do not use!</p>
<p><b>Fresh Water System</b></p>	<p>There are two fresh water tanks on Knot Free. One is located under the port settee and the other is located under the wooden step at the stern of the boat. The tank selector valves are located next to the water tank in the port settee.</p>
<p><b>Manual Bilge Pump</b></p>	<p>Locate the manual bilge pump near the entry of the port stateroom. To use it, stick the end of the pump into the water in the bilge and the hose either overboard or into a sink with the drain open. Then pump manually until the water cleared.</p>

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<b>Anchor and Ground Tackle</b>	<p><b>Primary Anchor</b> A 22 lb. Bruce style primary anchor, with a combination 30' chain/170' nylon rode is mounted in a bow roller.</p> <p><b>Secondary Anchor</b> A 26 lb. Danforth style secondary anchor, with a combination chair/nylon rode stowed in the port lazarette</p> <p><b>Kellet/Sentinel</b> There is a kellet with sentinel stowed in the starboard lazarette.</p> <p><b>Windlass</b> There is no windlass.</p>
<b>Draft / keel type</b>	Knot Free draws 5'6", and has a fin keel
<b>Refrigeration</b>	Knot Free is outfitted with an ice box which drains to the bilge.
<b>Stove</b>	Knot Free has a two burner stove with an integrated oven. The propane tank is located on the stern rail with the attached regulator. There is NO remote solenoid switch to turn the gas on from the galley, so the propane must be turned on AND off at the tank. When finished cooking, always turn the propane off while the stove is burning in order to purge the propane from the lines.
<b>Barbeque</b>	<p>There is a stern rail mounted propane BBQ. The BBQ uses the small green "Coleman" style propane canisters ... you must provide your own; and remove from the boat at the end of charter.</p> <p><b>*Please clean grill &amp; burn off all food when done!*</b></p> <p>The regulator assembly is stowed in the galley.</p>
<b>Running Rigging</b>	<p><b>Mainsail</b> Knot Free has a traditional mainsail with 2 reefs. The reef lines do not run to the cockpit, you must go forward to the mast. The tack reef is a ring that hooks on a horn at the top of the gooseneck, and the clew reef lines cleat (with a cam clutch) on the underside of the boom at the gooseneck.</p> <p><b>Jib</b> Knot Free is set up with a 110% roller furled jib. Jib sheets are routed to the primary winches on the cockpit combing.</p> <p>There are winches on the cockpit combing to port and starboard. The port cockpit winch is near the jib furling line. <b>DO NOT USE THE WINCH TO FURL THE JIB.</b> If the jib will not furl by hand, the jib has not been properly de-powered. Turn to a broad reach and "blanket" the jib with the main sail.</p>



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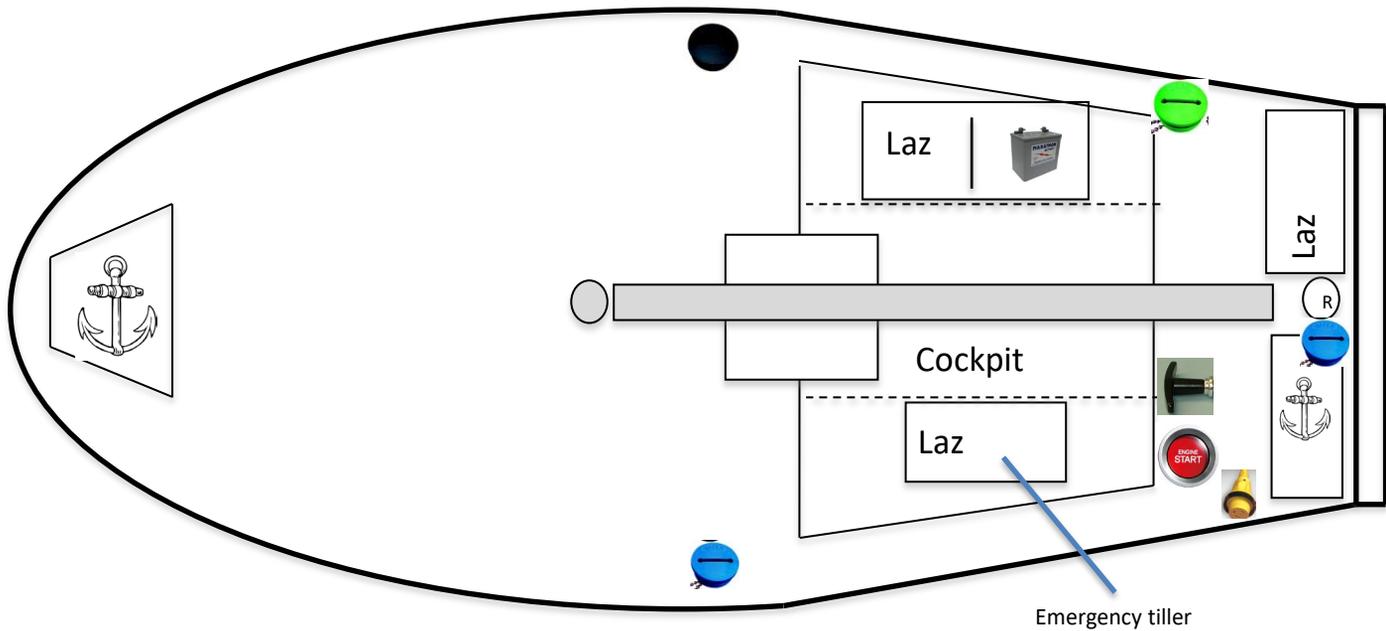
## Legend



## Notes

1. Oil Dipstick access from Galley
2. A/C Breaker switch in stbd quarter berth

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## Legend

- |   |                            |   |                    |   |              |   |                                      |
|---|----------------------------|---|--------------------|---|--------------|---|--------------------------------------|
|  | Rudderpost under wood step |  | Deck Fill – Diesel |  | Anchor       |  | AC Power cord                        |
|  | Thru Hull With Seacock     |  | Deck Fill – Waste  |  | Engine Kill  |  | There is no propane/CNG on this boat |
|  | Deck Fill – Water          |  |                    |   | Engine Start |   |                                      |

Knot Free deck and hull photos:



Knot Free below deck photos:



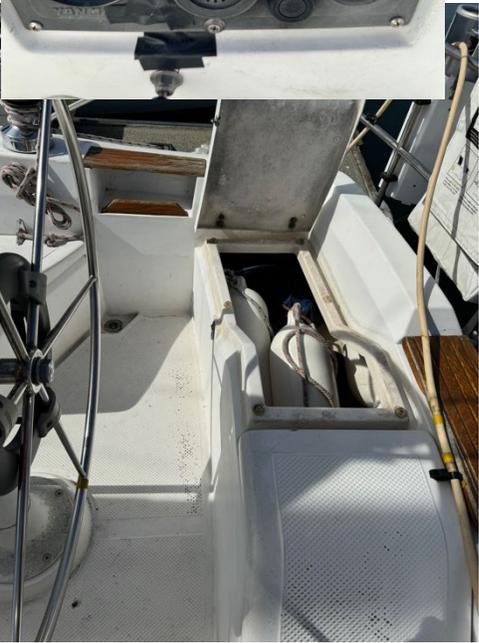
Knot Free AC/DC, Nav station and battery switch photos:



Knot Free Hull:



Knot Free Deck:



Knot Free Interior:



Knot Free Engine and Controls:

