



Orientation Checklist for Evening Star

Updated: 09-29-2016

This is a brief description of *Evening Star* systems, including on-board location of equipment, and specific procedures for engine operation. Please refer to this checklist prior to departing from the dock.

General

- Accept risks only in a reasonable way. If you can, try to do the boat some good. Please report any damage, deficiencies or improvements to Bruce Levy (443 570-5550) or Rick Lee (301385-7906)
- Ensure that the fuel level does not fall below ½ tank. Apply any previous donations for fueling. If re-fueling is not possible, leave a donation for the next re-fueling (in ship's log book).
- Always pump out the holding bladder after your cruise so that the next guests will not begin their voyage with your waste on-board
- Record your voyage in the ships log book located in the Navigation Station desk. Upon returning, clean the boat and store the rescue sling; when departing, remove trash & personal belongings.
- For further information, manuals and USCG document are stored in the starboard settee cabinet, forward.

Specifications

USCG Document	934494	Hull #:	142
Year:	1988	Engine:	18 hp Yanmar diesel 2GM20F; 2 cylinder; # 08265
Displacement:	11,200 lbs.	Sail Area:	515 Sq. Ft
Mast Height:	47' 6"	Fuel:	18.5 gal; to view gauge, locate aft cabin access plate
LOA:	32' 6"	Water:	50 gal; 2 tanks: stbd Salon Settee & V-berth; 2 deck fills
LWL:	26' 3"	Batteries:	3 Below aft cabin berth; #1 (House) two in parallel-outboard compartment and left side inboard compartment; #2 (Start) one- right side inboard compartment. All 3 are new in June 2016
Beam:	11'	Waste:	14.5 Gal. Holding (Bladder); pump-out fitting on deck
Draft:	4' 2"	Anchors	Main: Fortress-Bow Locker; 6' chain and 180' line Spare: Danforth-Cockpit Lazarette, 6' chain and 150' line

Special Conditions or Information – Engine (See below for start/stop instructions)

Check oil

In the aft cabin, open the lower panel behind the door for access to dipstick. Min-Max range is about 1 quart. Add oil if below or near the Min mark.



- Check coolant** Under the inboard shelf in the aft cabin, look for the plastic overflow tank. Check coolant level in the plastic tank. The level should be above the Min line marked on tank. Do not overfill. You do not have to open the metal cap on the engine to check coolant level.
- Check fuel** Lift cushion in aft cabin to locate round cover. Swivel cover to expose the hole above fuel tank. View fuel gauge inside hole. Propping up the cushion with a flashlight is helpful here.
- Check belt tension** Remove the bottom companionway step to access the front of the engine. CAUTION: REMOVAL OF STEP CREATES A TRIPPING HAZARD. REPLACE AND SECURE STEP WHEN DONE. Adjust if belt slack exceeds about 3/4". Adjustment is done by moving the position of the alternator. Tools are in the tool bag.
- Other** Oil pressure switch is on the right (when facing the engine, or port) side of engine, below the alternator. Oil filter is above the oil pressure switch, under the alternator and is accessible from the engine front. Engine stop switch cable is on the left when facing the engine, or starboard, side of the engine below the throttle cable. Throttle cable is above the stop switch cable connection on the left side of the engine.

If necessary:

Remove the aft cabin inboard shelf for access to top of the engine, then...

- To Add Oil** Look for the yellow oil fill cap. Spare oil should be in a compartment under the aft berth.
- To Add Coolant** If plastic tank is empty, open metal fill cap and check level –add coolant here if not full; replace metal cap and add coolant to plastic tank to mid-way between Min and Max marks. Run engine and re-check level.

Special Conditions or Information – Electrical & Instruments

- Shore Power (including on-board Battery Charger) cable is located below V-berth in the forward cabin.
- Batteries/Switches the switch is below the berth in the aft cabin. The three (3) batteries are located under the aft cabin berth. Two are connected in parallel as #1 (House) and the third is #2 (Start). Set the switch to “2” to start the engine. Otherwise, leave the Switch on “Both” while operating under engine power, in order to charge them. Turn the switch to “1” whenever the engine is not on. Turn it to “Off” when leaving the boat, but leave it “On” if the solar panel is connected.
- Auto Bilge Pump switch is at the nav. station. It is wired directly to the battery and bypasses the red battery switch and the nav station DC circuits. Unless in manual use, this switch should always be in the “Auto” mode. It should not be OFF in normal operation.
- VHF Radio works, but use is not convenient from the cockpit. Consider carrying/using a portable VHF for cockpit/emergency use.
 - CD player has been removed.



- Raymarine Chart Plotter mounts onto the helm binnacle. The mount is stored in the Cockpit lazarette (port). Power cable attaches to binnacle connector. Power for the Plotter is controlled by the Electrical Panel switch marked "Instruments".
- Depth Sounder is not reliable at this time.
- Knotmeter sending unit is under the forward bilge cover. Check the impeller if you desire the instrument to read properly. Replace the sending unit with the dummy while cleaning the impeller to prevent flooding of the vessel. IMPORTANT: THE BOAT CAN SINK IF THE SENDING UNIT OR THE DUMMY IS NOT INSTALLED CORRECTLY. Preferred is to use the Chart/Plotter or your personal GPS.

Special Conditions or Information – Sailing

- Make sure the head sink drain valve is closed while sailing.
- Headsail Furling is available for the Genoa. To prevent the Furling Line from jamming in the furling drum, be sure to keep a bit of tension on the line as it is taken up in the drum during sail deployment. Observe that the line wraps evenly onto the full height of the furling drum.
- Reefing (two settings) is available on the mainsail. Reefing is completely performed from the cockpit, using either of the two reefing lines marked on the cabintop line clutches. Tighten the topping lift, then lower the halyard while pulling in the selected reefing line until the reef clew is tight to the boom (the reef tack should lower automatically), lock the reefing line clutch and raise the halyard to tighten the sail. Loosen the topping lift. Shaking out the reef is the reverse of this process.
- The Topping Lift line cleats to the port side of the boom. The Outhaul line cleats to the underside of the boom. The Boom Vang line runs to the cockpit through a marked line clutch. The Traveler control lines are on the cabintop on each side of the traveler bar.

Special Conditions or Information – Galley Stove (TASCO Model 555LP)

NOTE: Most boats are lost by fire. Be extra careful when using the galley stove.

The Stove is fueled by propane from a tank located in the aft-most cockpit lazarette on the port side next to the helmsman's seat. The tank is pressurized, but has a manual valve at the top of the tank. There is a second (red) valve in the line near the tank. THE PROPANE TANK VALVES ARE ALWAYS TURNED ON AND OFF FIRST.

- TURN STOVE ON: Open both the tank valve and the red valve in the storage lazarette. Then, switch on the electrical switch marked "propane" at the nav station. Last, with lighter ready, turn on the stove knob for the burner and light it. The lighter is in the top galley drawer.
- TURN STOVE OFF: Before you turn the burner off, have someone in the cockpit turn both valves in the storage lazarette OFF. Wait until the flame goes out, to empty the system, then turn off the burner and the nav. station "propane" switch. Please keep the tank valves closed and the "propane" switch off except when the stove is in use.

Special Conditions or Information – Other

- Bimini can be deployed by zippering to the rear edge of the dodger and tying the aft end (with the pole inside) to the split backstay with the cords attached.
- Hot Water is provided (to the Galley and Head sink faucets) via a heat exchanger. The engine



must be running to provide a reliable supply of heated fresh water.

- Manuals are in the starboard settee cabinet, forward.
- Prop Walk is to PORT with engine in reverse.
- Be careful when closing Port Lights. They are getting new gaskets and need only to be tightened finger tight only. Over-tightening WILL break them. Be especially careful with the main cabin port light (starboard side over galley). It has been broken once already.

Equipment/Supplies: USCG Required

Fire Extinguishers	(1) Aft Cabin at lower left inside doorway; (1) Salon Settee Shelf (port); (1) V-berth behind port door (out of date).
Flares	Salon Cabinet near galley (starboard)
PFDs (Type II) 3	Hanging Locker beside Nav Station
Sounds (Air horn)	Shelf under helm seat

Equipment/Supplies: DSC Required

Anchor/Spare	Cockpit lazarette (port)
Bilge Pump Handle	Cabinet above port settee (aft)
Boat Bungs	Cabinet above port settee (aft)
Boat Hook	Cockpit lazarette (port)
Bucket/Sponge	Cockpit lazarette (port)
Chart Book	Inside Nav.Station Desk / Larger version in hanging locker to aft of nav station
Deck Brush	Cockpit lazarette (port)
Deck Key	Top drawer in Galley
Dock Lines	Cockpit lazarette (port)
Dodger	Cabin top
Emergency Tiller	Under Aft Cabin berth cushion behind batteries
Engine Coolant	Under Aft Cabin berth cushion near batteries
Engine Oil	Under Aft Cabin berth cushion near batteries
First Aid Box	In the Head on the counter
Flashlight	Nav. Station Drawer / Port side cabinet above settee
Horn	Shelf above hanging locker beside Nav.Station
Life Jackets (extra)	In V-berth
Log Book	Nav.Station Desk / Shelf above hanging locker
Portable Bilge Pump	Cockpit lazarette (port)

Radio VHF	Mounted above Nav. Station
Throwables	Cockpit lazarette (port)
Tool Kits	Basic kit #1 in V berth lower shelf starboard Additional large tool bag in cockpit port lazarette
Winch Handles	Shelf above Salon Settee (port)
AC fans, Cockpit Table	V-berth locker, starboard
AC lamp	V-berth locker, port, middle
Sponge, cleaners	Compartment under head sink
Sail Bags	V-berth locker, port, lower



Equipment/Supplies: DSC Recommended

Boat Manuals	Forward Cabinet above Salon Settee (Starboard)
Boat Soap	Cockpit lazarette (port)
Chart Plotter	Port side cabinet above setee
Dish-Cleaning Soap	Galley (under sink)
Garbage Bags	Inboard Galley Cabinet
Paper Towels	Galley shelf
Rescue Sling	Hang on Stern Pulpit
Deck Key	Top drawer in Galley
Shore Power Cable	Stowed below V-berth. Plug in under helm seat

Thru-Hull Locations

Engine Raw Water Intake	Inside engine access panel behind companionway step. Yellow handle on port (left) side
Engine Exhaust	On transom
Galley Sink Drain	Door below galley sink
Head Sink Drain	Head, access under sink. KEEP CLOSED WHILE SAILING
Toilet Raw Water Intake	Inside engine access panel behind companionway step. Yellow handle on starboard (right) side. ALWAYS KEEP CLOSED. Use bottled water to flush
Waste Bladder - Overboard Drain:	Port Cockpit lazarette
Transducers (Depth / Sonar)	Salon, below floor, forward of table
Bilge	Port cockpit lazarette

Deck Fitting Locations

Waste Bladder Pump-out	Port quarter near jib winch
Fresh Water Fill Tubes	Aft tank: Midship on Starboard side. Forward tank: at Bow
Diesel Fuel Fill Tube	Port quarter near transom



Engine Operation

Engine Starting Procedure

Turn on battery Start battery is 2 on the red battery switch located on the front of the berth in the aft cabin.

Open engine raw water thru-hull and remove key.

Remove the bottom companionway step to access the front of the engine. CAUTION: REMOVAL OF STEP CREATES A TRIPPING HAZARD. REPLACE AND SECURE STEP WHEN DONE. Engine raw water thru-hull valve is the yellow handle on the starboard side of compartment (on the left facing you). Open valve and remove the engine ignition key from the yellow handle. NOTE: The yellow handle on the port side (to your right) is for the head raw water thru-hull. This should always remain closed.

Check engine controls

Throttle is located on the starboard side of the binnacle in front of the helm. Gear shift is the black handle on port side between the binnacle and the helm. UP IS FORWARD; DOWN IS REVERSE.

Start engine Instrument panel is located on the port side of the cockpit. Advance throttle slightly; Insert and turn ignition key then press black start button. Check exhaust water flow at transom.

Select battery Turn battery switch to 2 to start engine. Select BOTH to charge batteries while running the engine. Select 1 for House.

Engine Shutdown Procedure

Stop engine Pull out black handle on instrument panel until engine stops. Buzzer should sound. Turn off key. Keep key in switch while sailing.

Replace key and close engine raw water thru-hull.

When finished with engine, remove key and place it over the yellow handle of the engine raw water thru-hull valve inside companionway access panel. Close raw water valve. REPLACE AND SECURE COMPANIONWAY STEP TO AVOID TRIPPING HAZARD.

Battery When finished with batteries, turn red battery switch in aft cabin to OFF. If solar panel is connected, select ALL.