Dialing In YourTrawler

Suggestions on how to track and monitor the gear and systems on your boat. Tips and Ideas to make boating more fun and enjoyable

Track and monitor the gear and systems on your boat. Tips and Ideas

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by Jeff Merrill, CPYB © 2024 all rights reserved

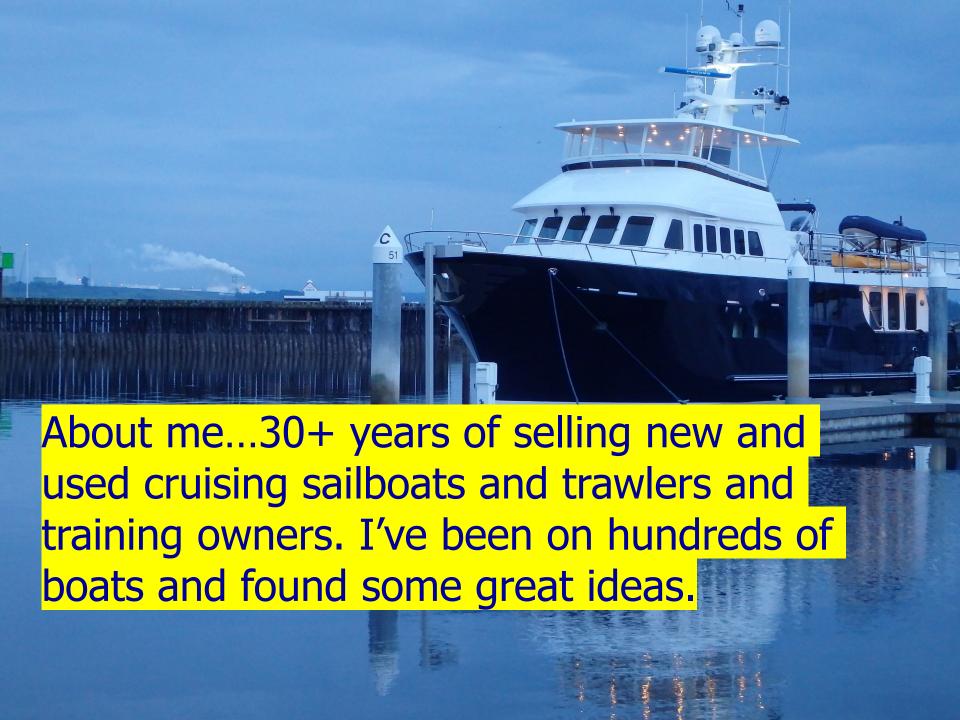
Racing sailboats led to this course

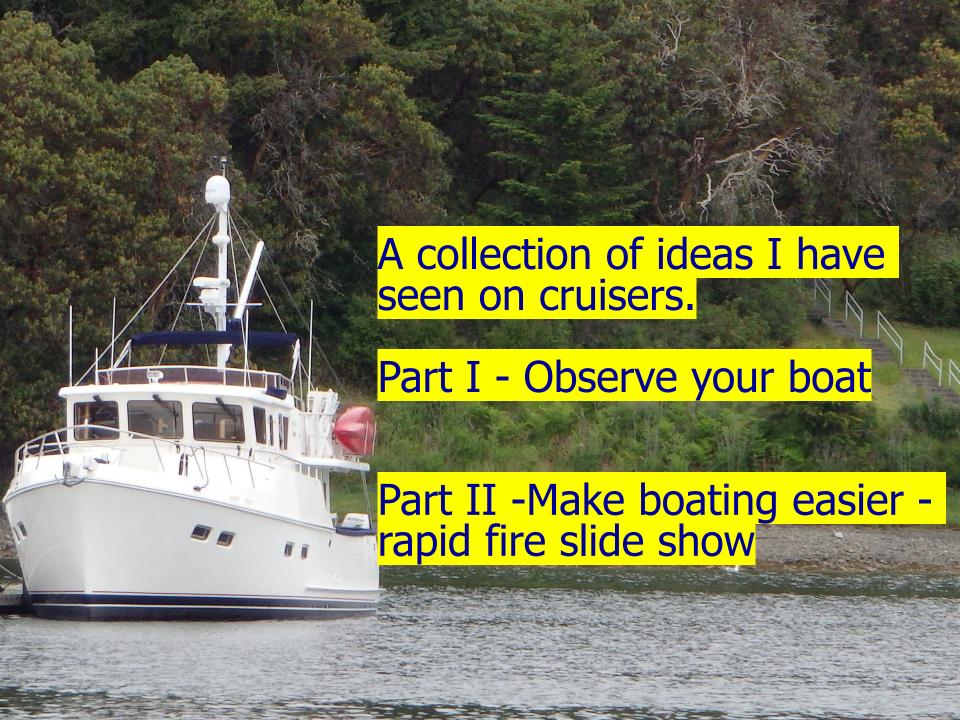


Wednesday May 15, 2024

Pilothouse – Gauge Reference My first power boat "AHA"



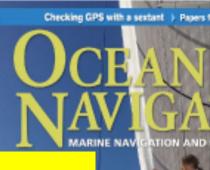




ialing-In-Your-Trawler articles Jeff Merrill has written are available







Handout* A list of the articles I have written for Ocean Navigator magazine



Of course, a compass

Mar/Apr 2020



Enabling your boat to talk

Nov/Dec 2019



Ship's Paper

Jul/Aug 201

Dialing-in-your-trawler articles - the series

There are over two dozen articles in the "Dialing-in-your-trawler" series so far. Each article has been published in *Ocean Navigator* magazine.

You can read the articles on the *Ocean Navigator* website, "Power Voyaging" section All articles are also archived on JMYS.com -|- Trawler Lifestyle section -|- Ocean Navigator

Here is a summary of the article titles:

Dialing in your trawler

Engine Essentials

Anticipating Anchoring

Steering Straight

Wanderers Water

Dinghy Dynamics

Night Running

Sea Safety

In Charge - 12V DC

Keeping Current - 120V AC

Fuel to Burn

A Trip to the Engine Room - part 1

A Trip to the Engine Room - part 2

Spare Parts - part 1

Where are you most vulnerable? - Spare Parts - part 2

Expert Instruction From The Brands You Trust.

Offshore Cruising: Preparing Craft & Crew

Preparation is key to successful cruising. Regardless of the size, make or model of your boat, understanding its critical systems and having a plan is crucial to keep your craft performing efficiently and safely. Join yacht broker, boatbuilder and TrawlerFest instructor Jeff Merrill in this exclusive online course designed to help you prepare yourself, your boat and your crew to get the most out of your offshore boating adventures.



YouTube videos



Learn something from every boat

Every vessel has a number of components that require attention and observation, we are all "in the same boat"

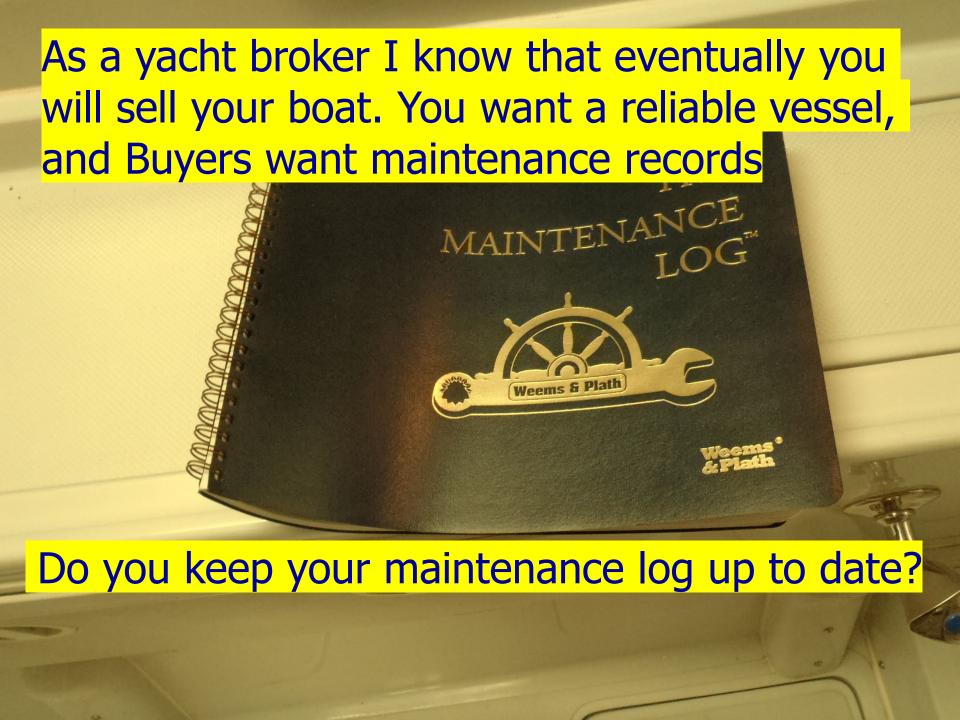
Noticing details will help you monitor your systems and better understand your boat.

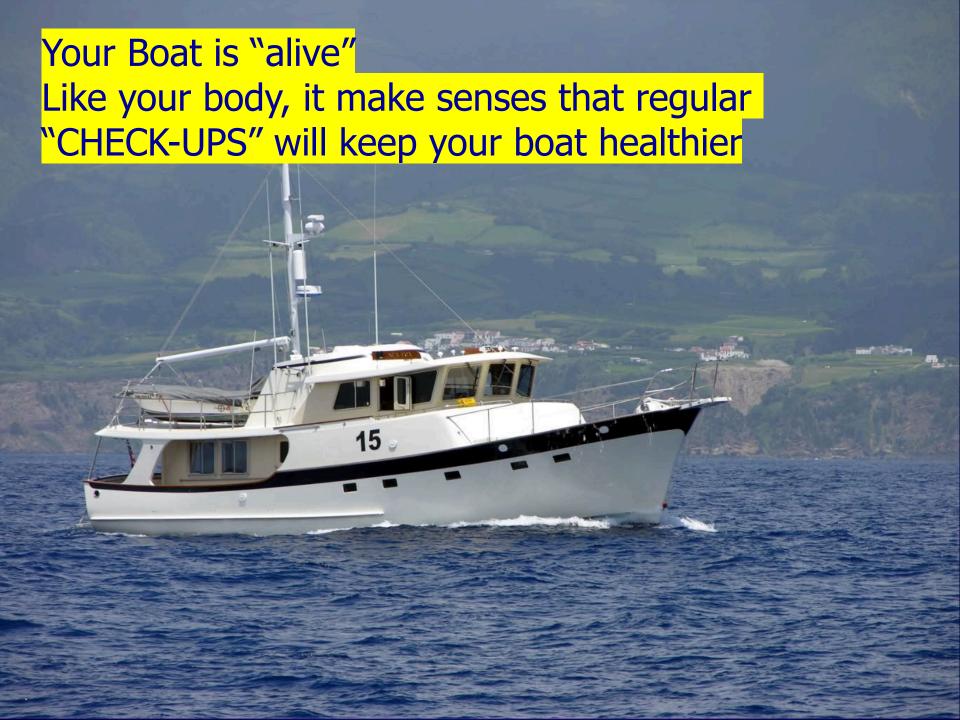
I will post this PowerPoint as a PDF and include the handouts on www.JMYS.com within a week.

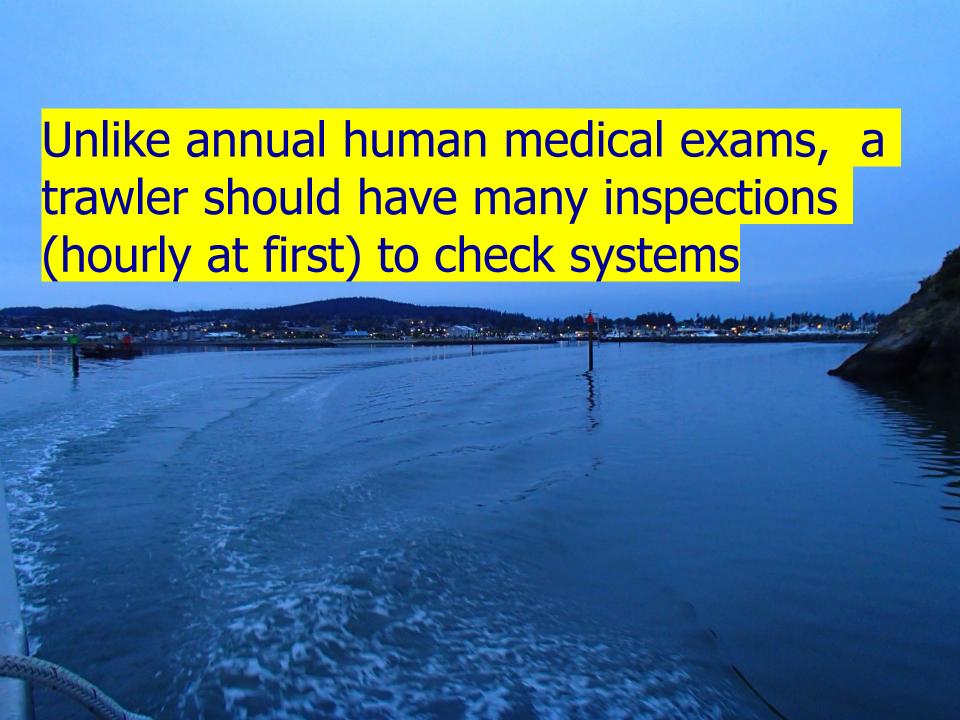
Please interrupt with questions

Sign up list for email notification.





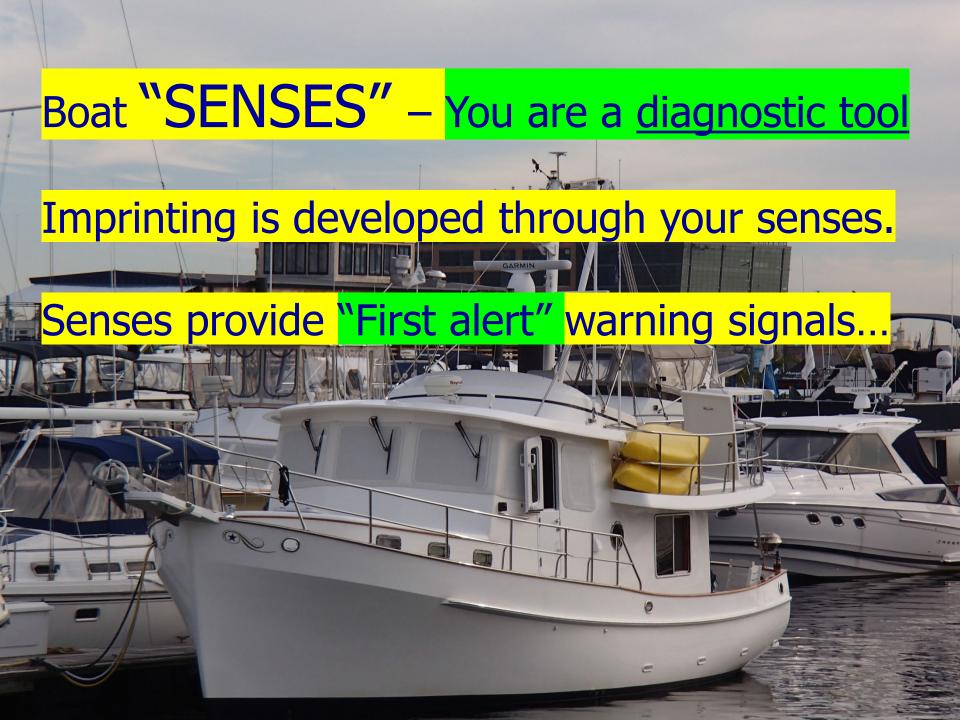




Be observant and pay attention

What can you do to keep track of things and make boating easier?









New noises to identify:
Pumps, Beeps, Clicks, Alarms
Vibrations (normal and OK)
High pitch whine (laundry)
Wear ear muffs in the engine room

Do you hear that "Buzzing" outside?







- Burning?Smelly or stinky?
- Something unusual?
- A change in what the "normal" smell is can be an early warning sign of something amiss...

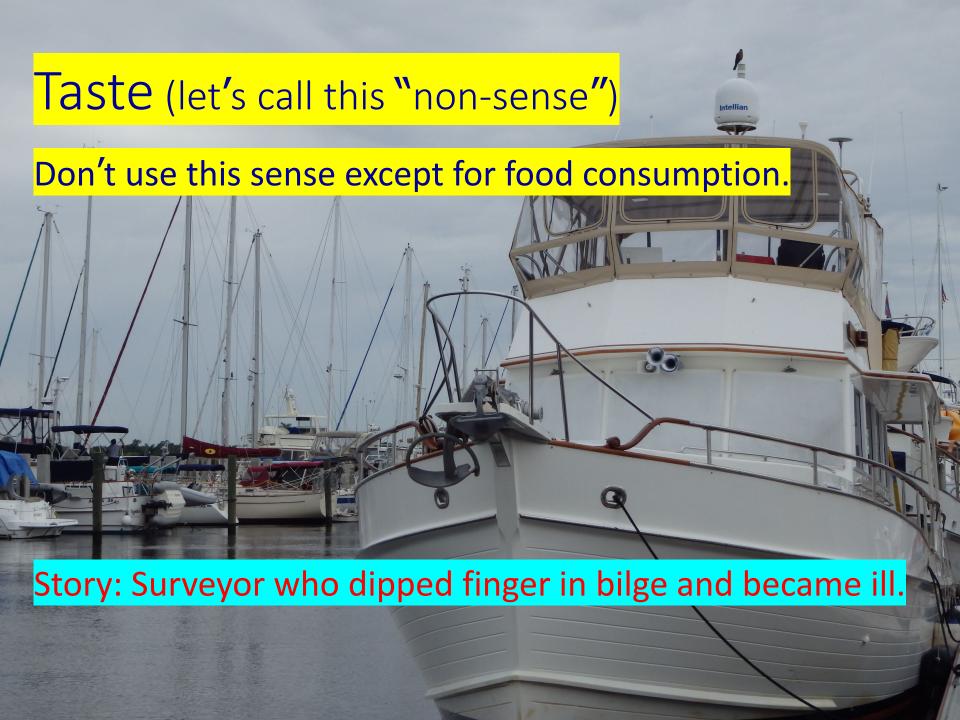


Touch (and what not to touch)

Machinery hot parts – be careful of burns

Gloves – anchoring and handling dock lines (wood dock splinters)

Shoes on deck: hatch dogs, sure footing, around windlass, anchor and chain





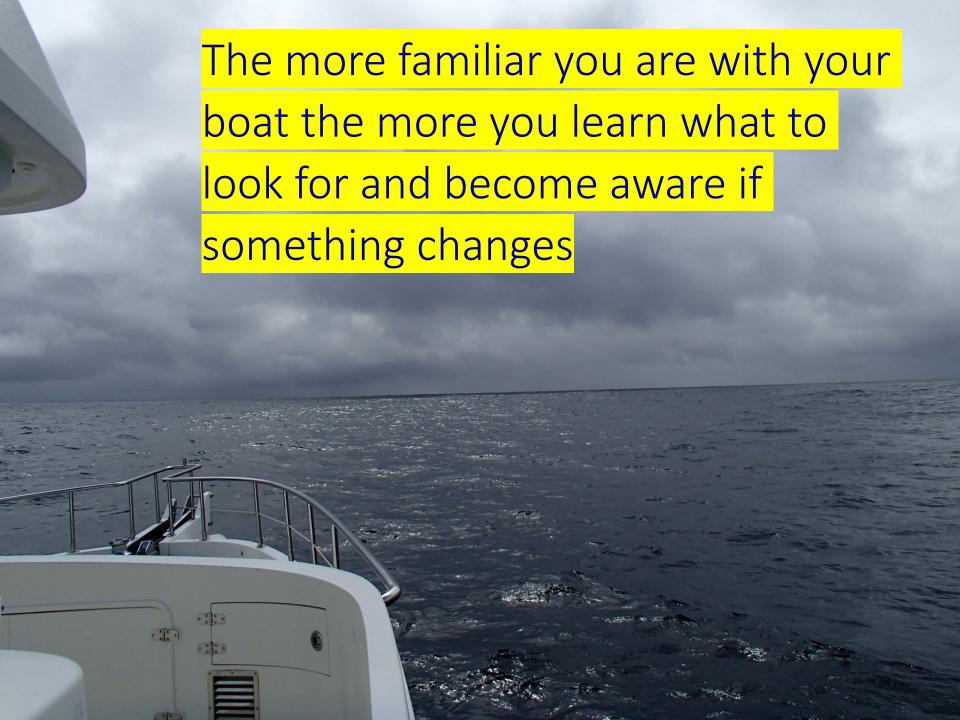


GET YOUR BOAT ON TRACK

Let's see what other boat owners do to stay on top of things.

Machinery with temperatures to monitor and many reminders or quick reference ideas.





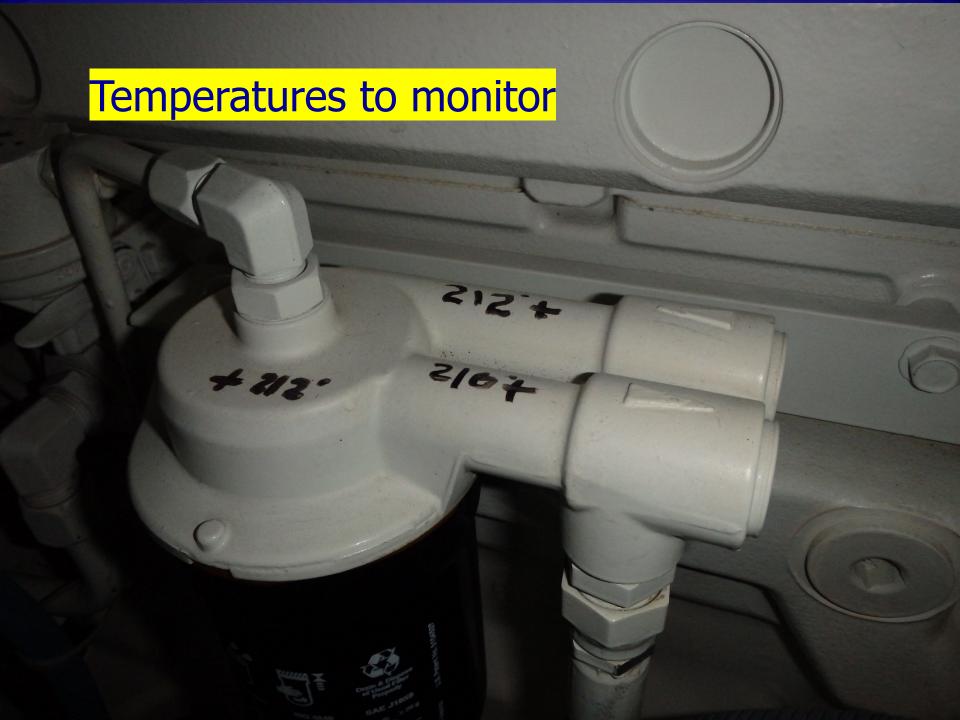
Locate where things are installed

Anti siphon vents?

Where is your autopilot rate gain compass?



How about your GFCI outlets and shore power breakers?



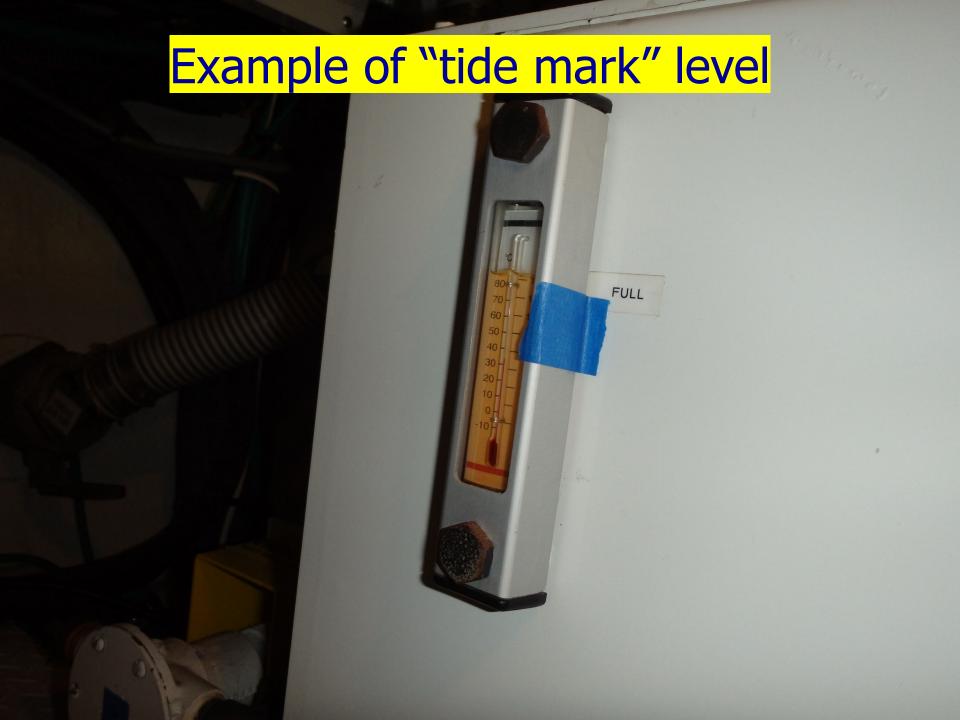
What other temperatures should you record?

- Stuffing box
- Engine coolant
- ER forward and aft bulkhead









Learn the "INS"...

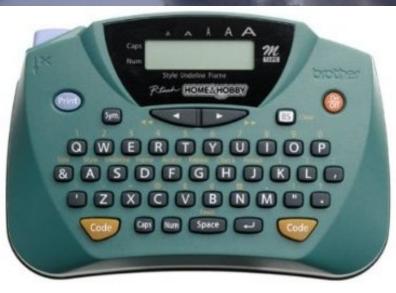


and OUTS... To and From, Supply and Return



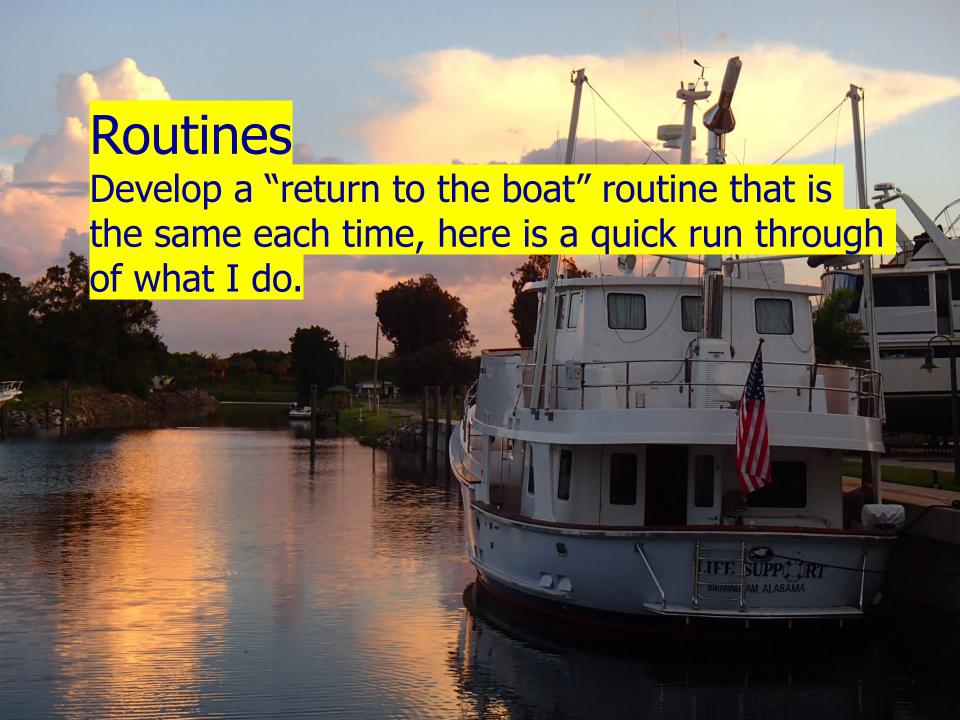
Get a Label Maker and use it!

STERN THRUSTER HEADER

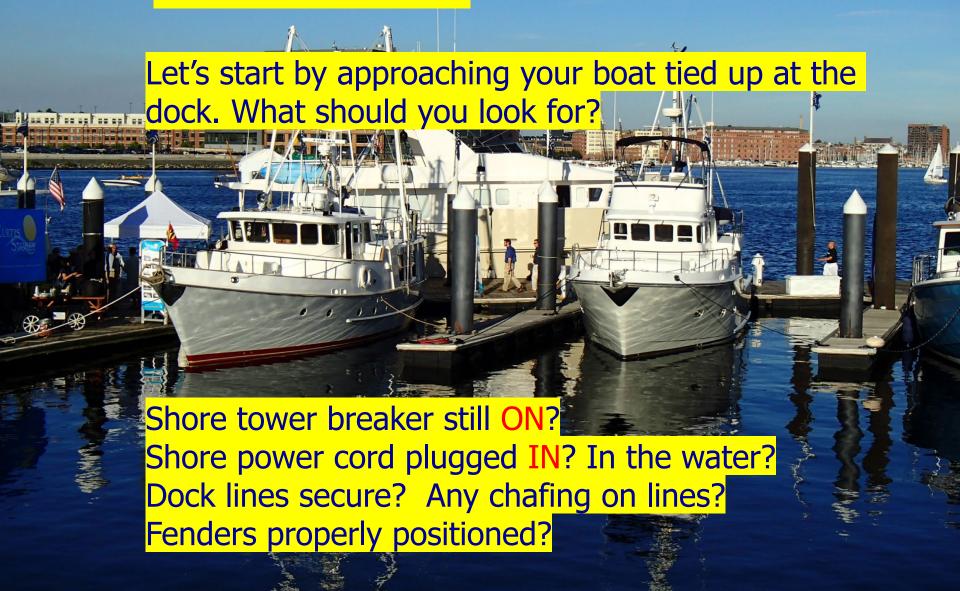








At The Dock

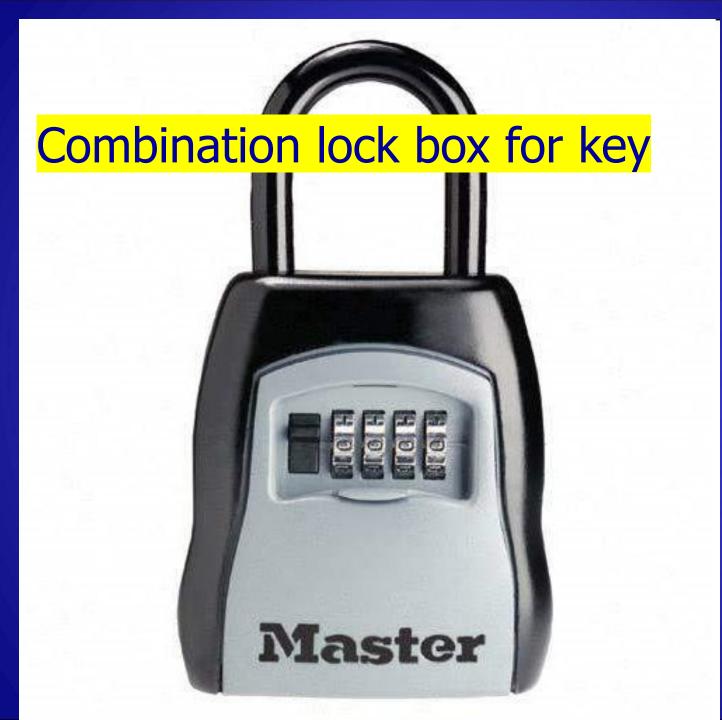






Is your lazarette hatch lockable?







Inside- My First Two Priorities

Electrical — Do I have shore power coming in and are my batteries charged?

Bilge – How much water do I have in the bilge?



AC IN = Good!



Keeping things clean and tidy makes it easier to notice when something goes wrong

USCG Vessel Safety Check

Handout* This is a great way to make sure you are in compliance



VESSEL SAFETY CHECK (VSC)

To be completed by a U.S. Coast Guard approved Vessel Examiner. See the back of this form for a brief explanation of required items.

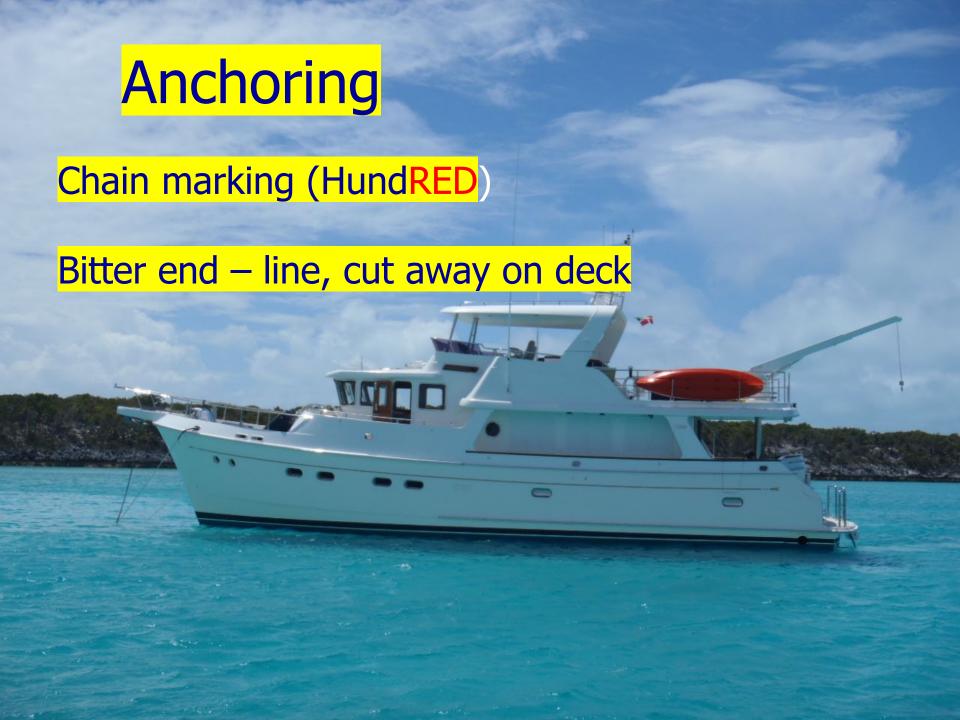
A Federal Requirements pamphlet is also available.

Date of VSC: _	
Decal Awarded:	Yes 🗆 No 🗆

	Street, Square, or other Designation of the last of th			7				
Owner/Operator Name:			VESSEL INFORMATION: Registration or Documentation Number:					
								Regi
Owner/Operator has attended a CGAUX, USPS, State		HIN:						
orBoating Safety Class: Yes \[\] No \[\]			Leng	Length: <16				
Location of VSC - County: State: Replaced decal was: Last Year Outdated First time								
Replaced decal was. Last Tear [] Outdated [] First time [] .				Type: PWC Open Cabin Other				
VESSEL SAFETY CHECK DECAL REQ	UIRE	ME	NTS		RECOMMENDED AND DISCUSSION I			
Item	Yes	No	N/A		Item	Yes	No	
1. Display of Numbers	5 2 3			1,	Marine Radio	THE PARTY		
2. Registration/Documentation				П. 1	Dewatering Device & Backup			
3. Personal Flotation Devices (PFD)				Ш. 1	Mounted Fire Extinguishers			
4. Visual Distress Signals (VDS)				IV.	Anchor & Line for Area			
5. Fire Extinguishers				VI	First Aid and PIW Kits (**over)			





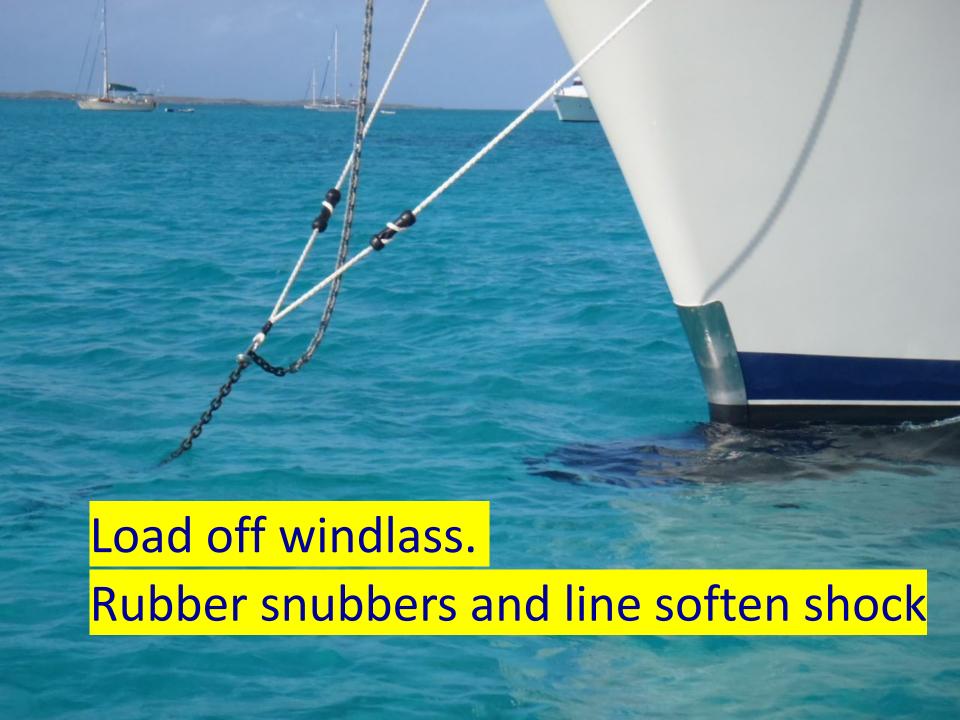


Hund-RED's

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ANCHOR CHAIN
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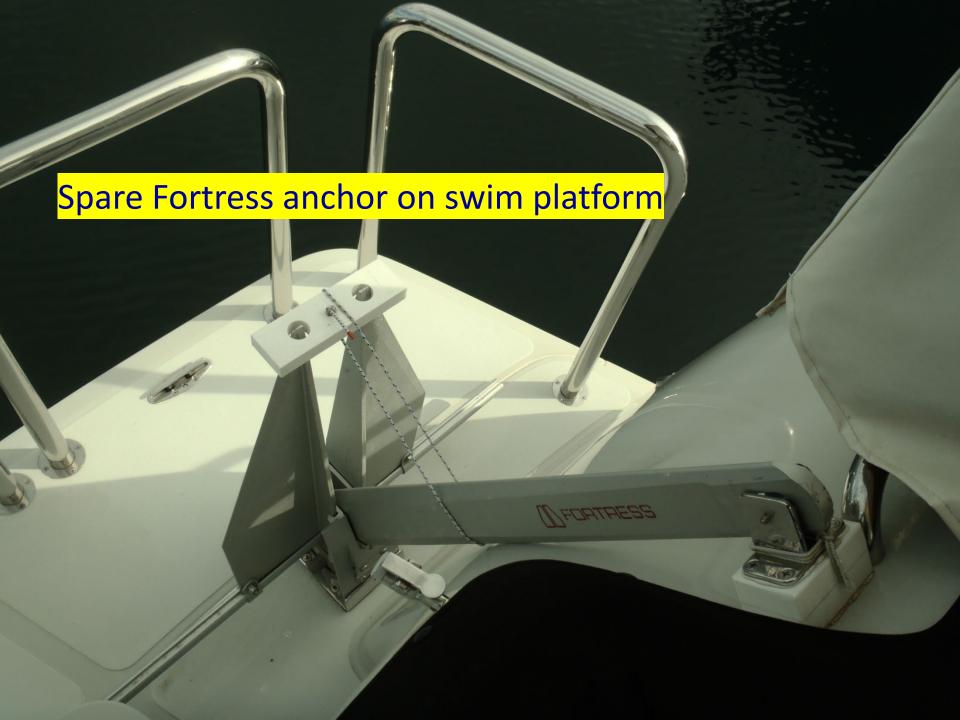




Stop Slop







Chain color coding by windlass control









ANCHOR CHAIN

1st WHITE AT 40'
WHITE MARK EVERY 50'
LAST 50' PAINTED RED





Folding pad eye for clipping on fenders



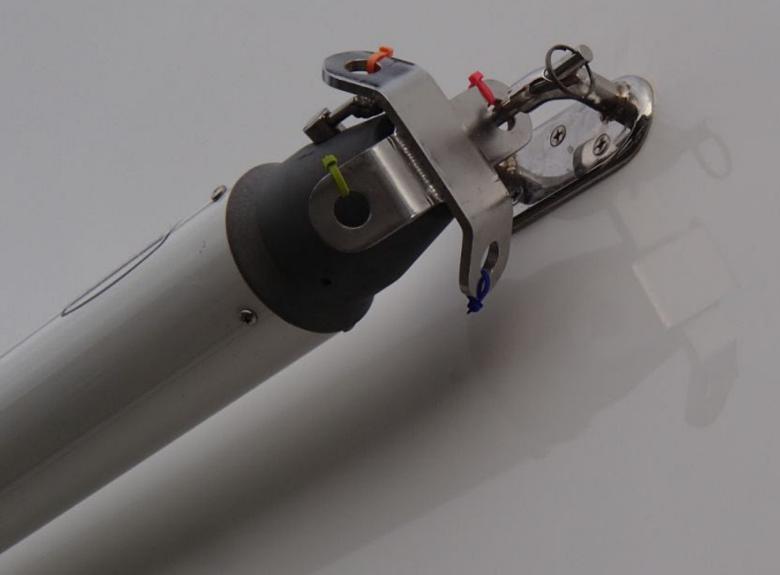








Flopper stopper – color code line attachments













Docking Tips



- Dock lines color code red/green
- Extra lines and chafe protection
- Surge areas chain on cleats
- Fenders clips on hull, fender boards
- Inflatable fenders (need air pressure)
- Fender hooks
 - Shore power connections secure?

Color markings or numbering of dock lines

Dock Lines
Short - White whipping
Medium - Red whipping
Long - Black whipping













This example is for a main engine. I recommend you create an individual log for all major components: Transmissions, Generator, Windlass, Crane, Watermaker, Stabilizers, etc.

Nordh	avn 55	Main Engine Maintenance Log	
1200		John Deere I Lugger L1276A.2C/MG5091SC Serial # 1271-270	8 :340 HP @ 1800 RPM
		Fuel, Coolant (brand and gallons) Filters (air, fuel oil), Belts,	
		Zincs, Oil Changes	Service contact:
		Engine mounts, drips/leaks	
PORT STEELS		Engine mounts, shaft, stuffing box, shaft brush	
Main E	ngine Servic	e records	
Date	Hours	Project	Comments
160,112			
Note -	create a sep	arate maintenance page for ALL major equipment:	
		Black holding Toilets	
		Crane or Davit	
		Engine 2 (twin or wing)	
		Fuel Log	
		Fuses and Breakers	The state of the s
		Generator (s)	
4		Haul out	
		Hydraulics	
		Laundry	
		Lube oil	《 ····································
		Main Transmission	
		Shaft, stuffing box, propeller	
Harris In		Stabilizers	
1-1-12		Steering	
		Tender and outboard	The street of the second street of the second

Thruster(s)
Watermaker
Windlass

Zincs

Maintenance Log - Records

Note all purchases and upgrades
Keep receipts
Track oil changes and all service repairs

This collected information is an important record and doubles as a sales tool when you are ready to sell your boat

Handout*

Steve D'Antonio and Jeff Merrill Maintenance List

Maintenance Guidelines and Recommendations

Engines and Generators

- Check engine oil, transmission fluid and coolant daily/before each use
- Change oil and filters seasonally or every 200 hrs. whichever comes first
- Change primary and secondary fuel filters seasonally, or if vacuum exceeds 5 in.
 hg. All primary filters should be equipped with vacuum gauges, see
 https://www.proboat.com/the-vacuum-gauge-tool.html for more on vacuum gauge
 selection, installation and use.
- Adjust valves per engine manufacturer's requirements (typically every 1000-2000 hrs.). http://www.cruisingworld.com/how/keep-valve-train-track
- Check belts monthly, replace every two years.
 http://www.cruisingworld.com/how/orderly-transfer-power
- Check/replace air filters as needed. These should be equipped with vacuum monitors. See http://stevedmarineconsulting.com/fuel-and-air-filter-service-protocols/
- Pressure test cooling systems annually.
- Flush and refill cooling systems every two years or 1000 hrs. whichever comes first. Coolant should be analyzed annually.

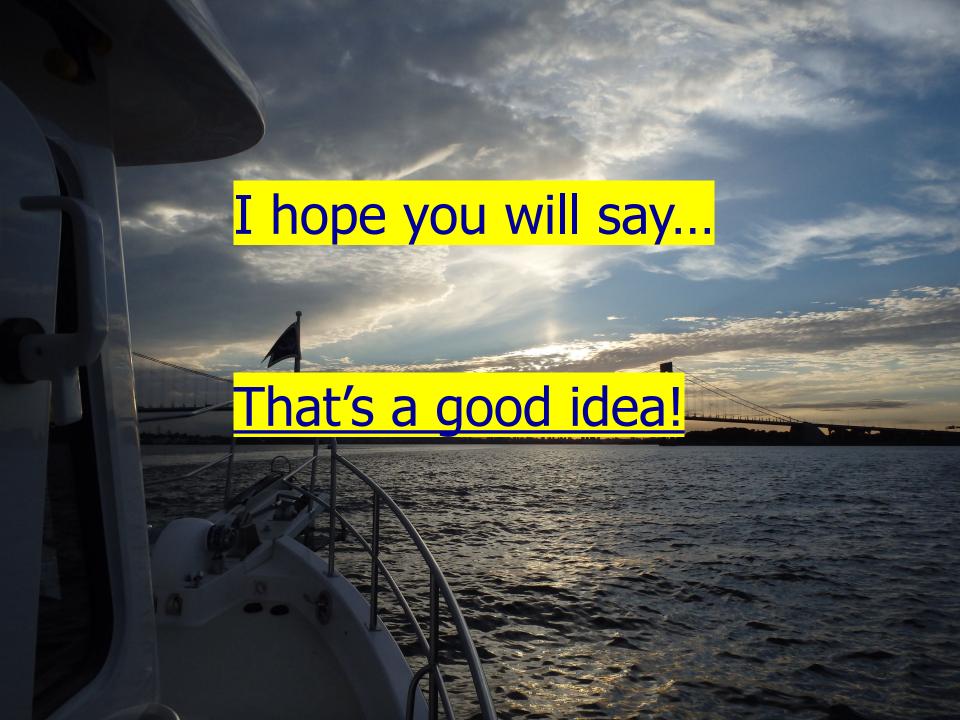
http://stevedmarineconsulting.com/photo-essay-may-2015/

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IDEAS THAT YOU CAN USE ON YOUR TRAWLER



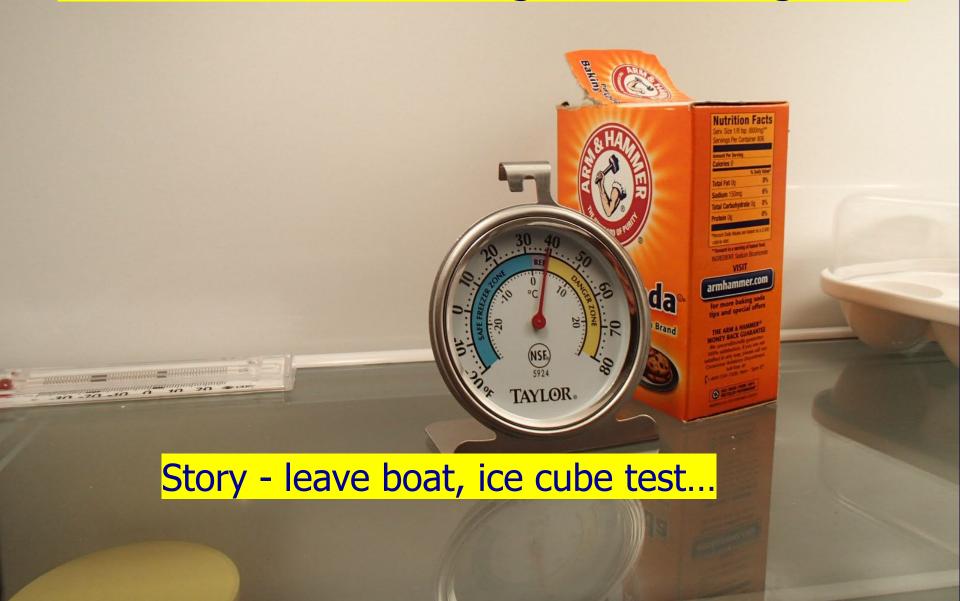




Refrigerator organization – bars and tubs



Thermometer and baking soda in refrigerator











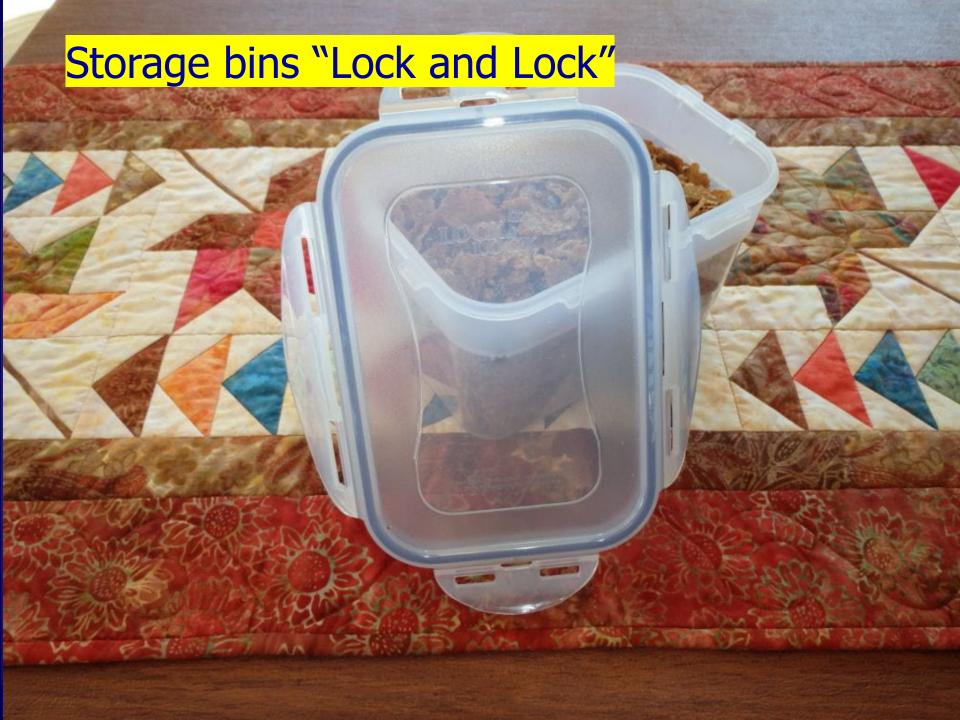




Clear tubs for storage







Really Useful Boxes





Loose Parts Bin (you'll identify where it goes later)





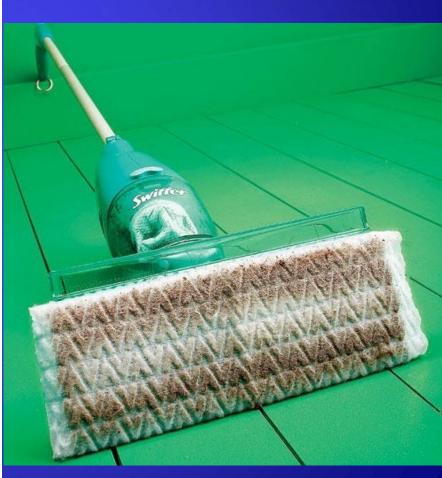






Swiffer Sweeper Vacs are great for wood floors





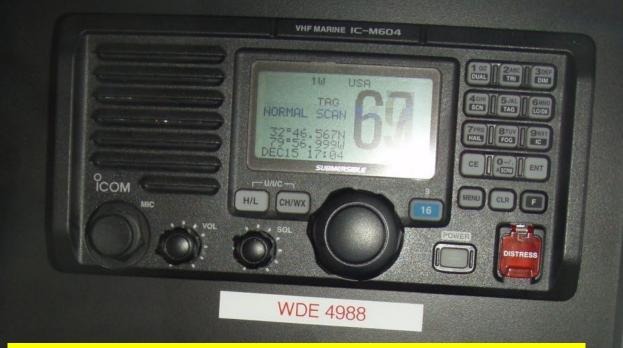
Squeegee and Shower Spray











VHF call sign label



(L) OFF





Keep your display screens clean

above hydraulics breaker, protected switch)

- · SET 2200 RPM ON WING ENGINE
- · PRESS "START" (GREEN) ON BOW THRUSTER KEYPAD; pump will whine and discharge stb'd. side, aft
- · PRESS "STOP" (RED) ON KEYPAD WHEN BILGE IS EMPTY; Repeat as necessary while locating water entry.















1



WARM/COOL AT



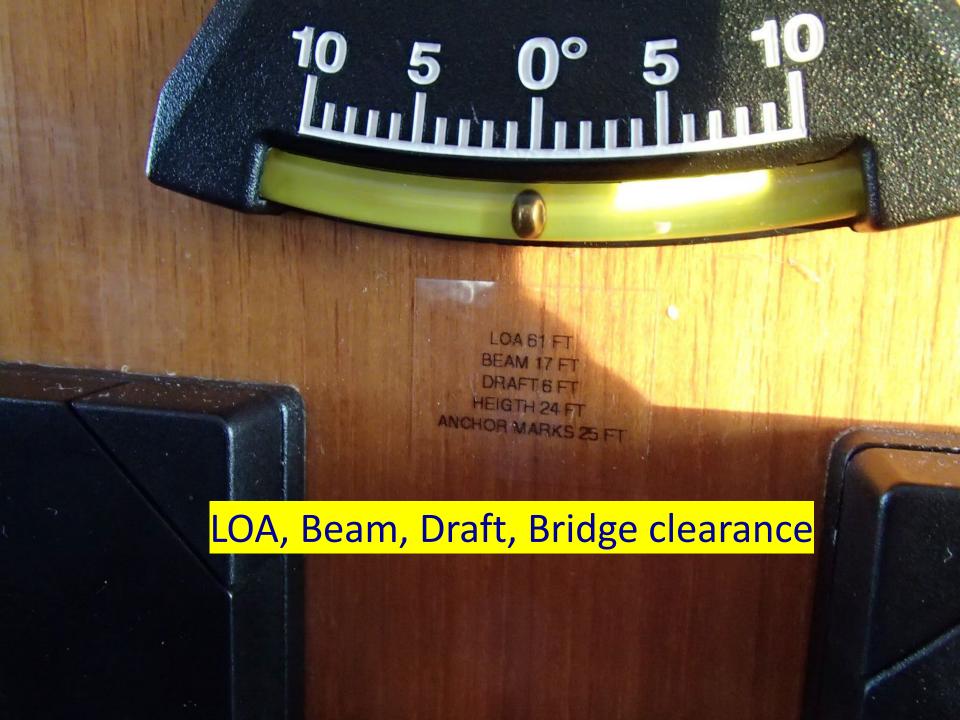






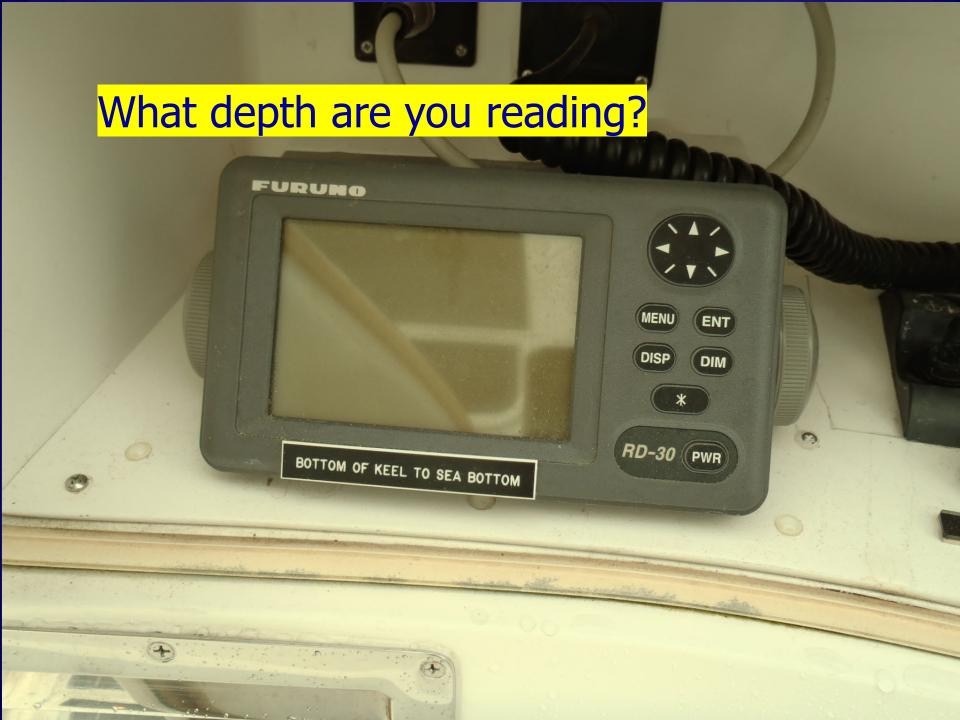






M.V. JODA

DRAFT	5.0'	1.525 m
LOA	48.5'	14.75 m
BEAM	16.75'	5.10 m
DISPL.	56,200 lbs	
WATER	540 USG	2,044 L
FUEL	1,038 USG	3,945 L
MAST	30' 4"	9.2 m



Inland, River reminders

1 WHISTLE

HEAD ON PORT TO PORT

OVERTAKING BOAT PUTTING SLOWER BOAT TO PORT

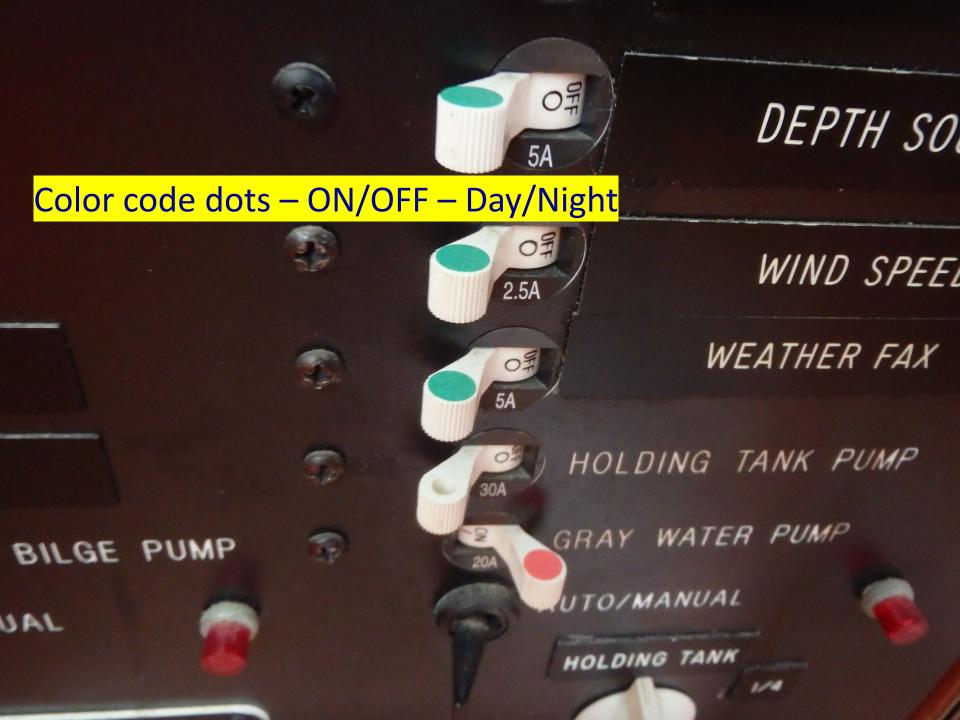
2 WHISTLES

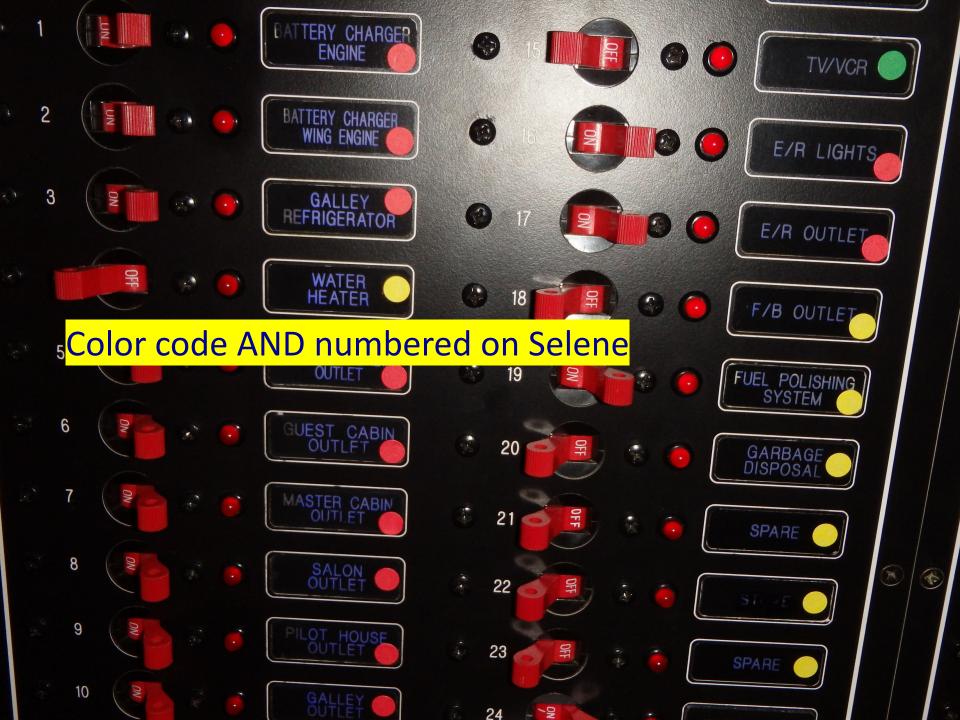
HEAD ON STBD TO STBD

OVERTAKING BOAT PUTTING SLOWER BOAT TO STBD

Detail tape to segment electrical panel







Toggle guards on "permanent" breakers

IVERTER

FWD

AMIDSHIPS

S AFT

ETS PILOT HOUSE

0

NE ROOM LIGHTS

/STEREO

AV CHARGER

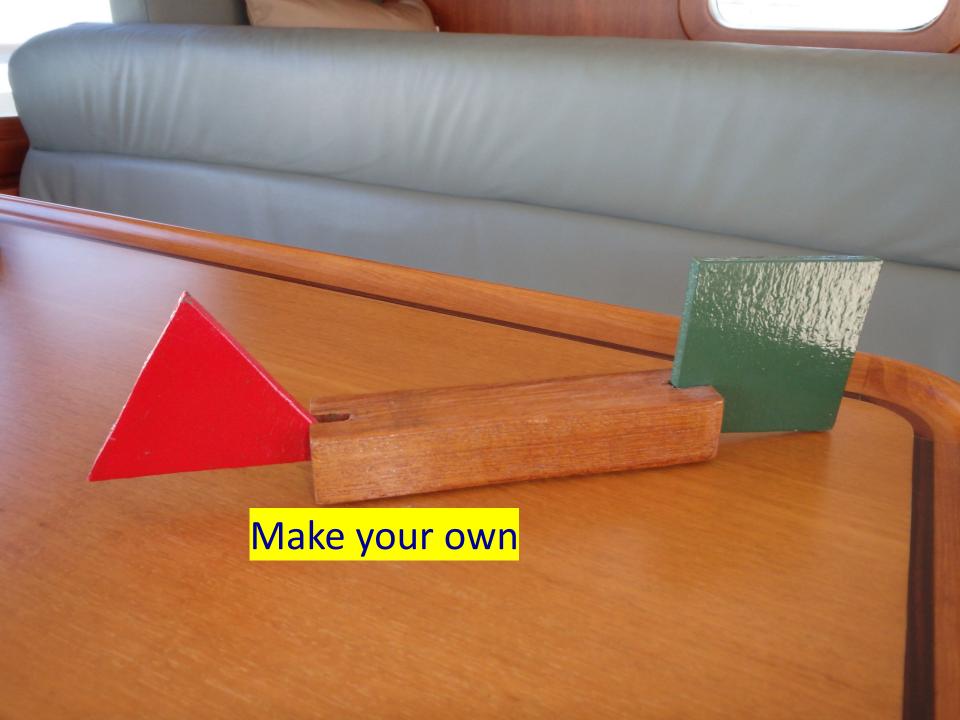






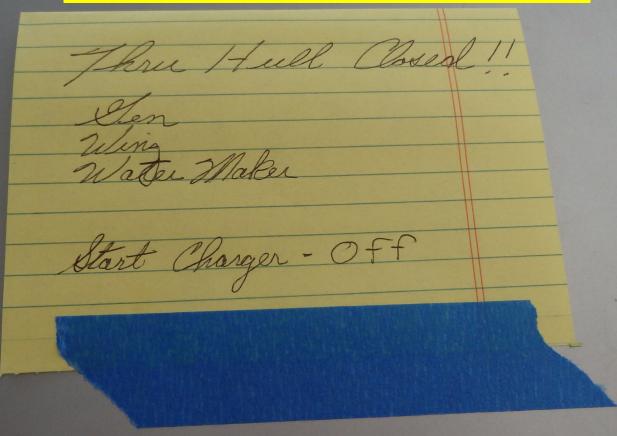






When you depart,

leave yourself a reminder...

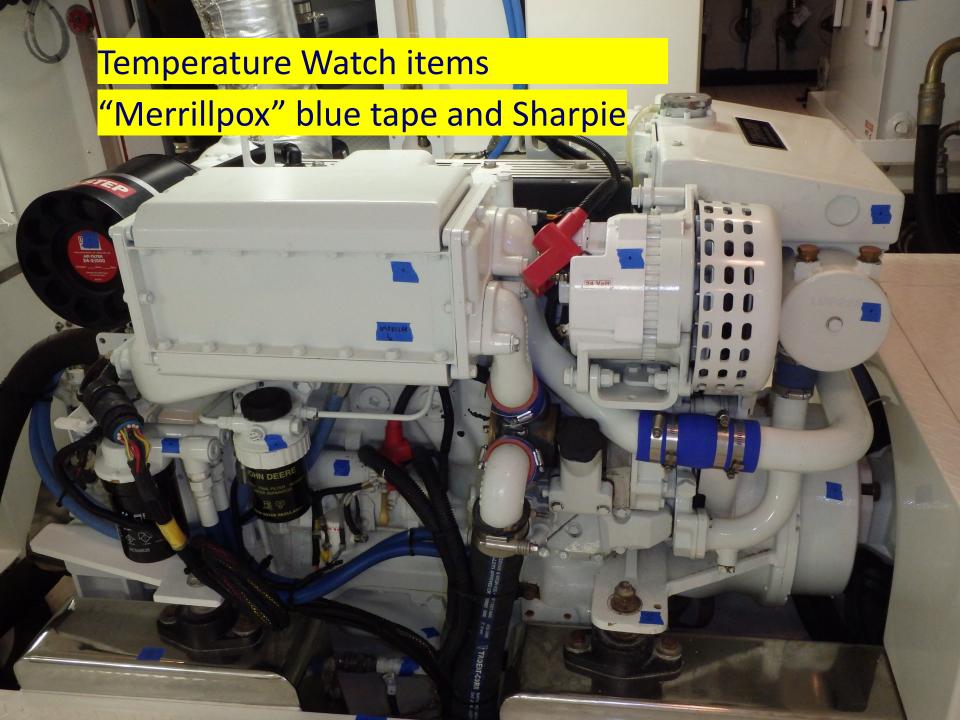




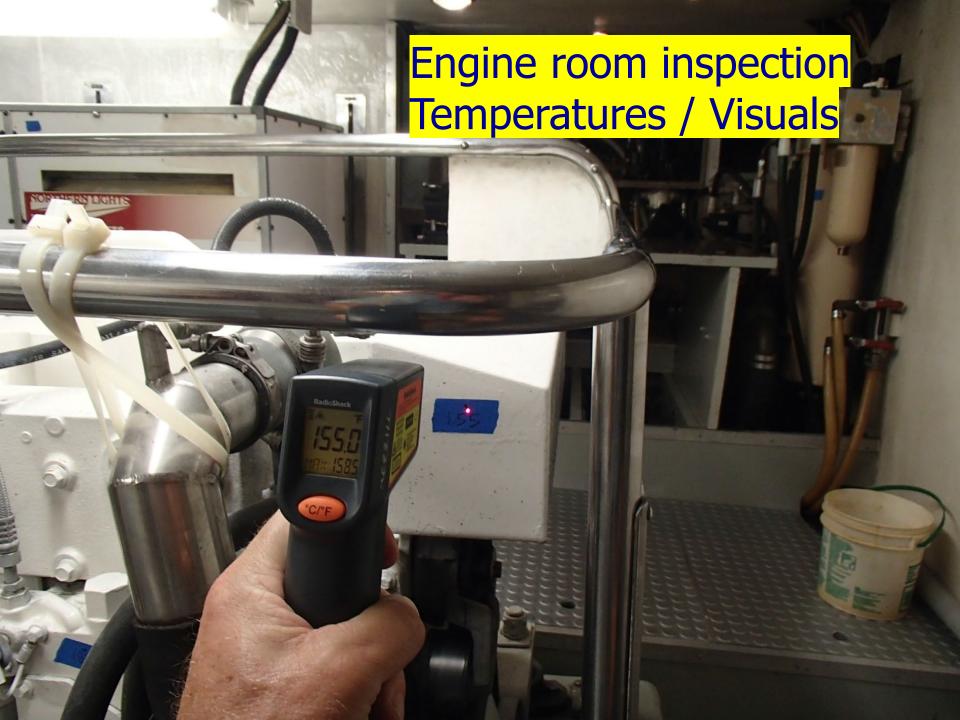


Infrared Temperature Gun



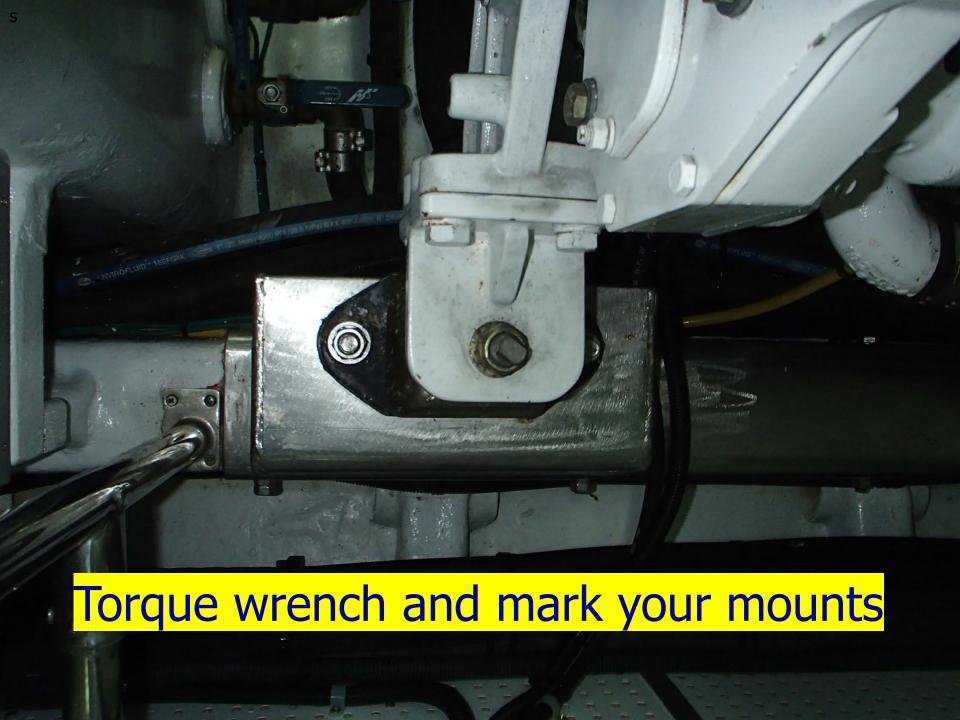






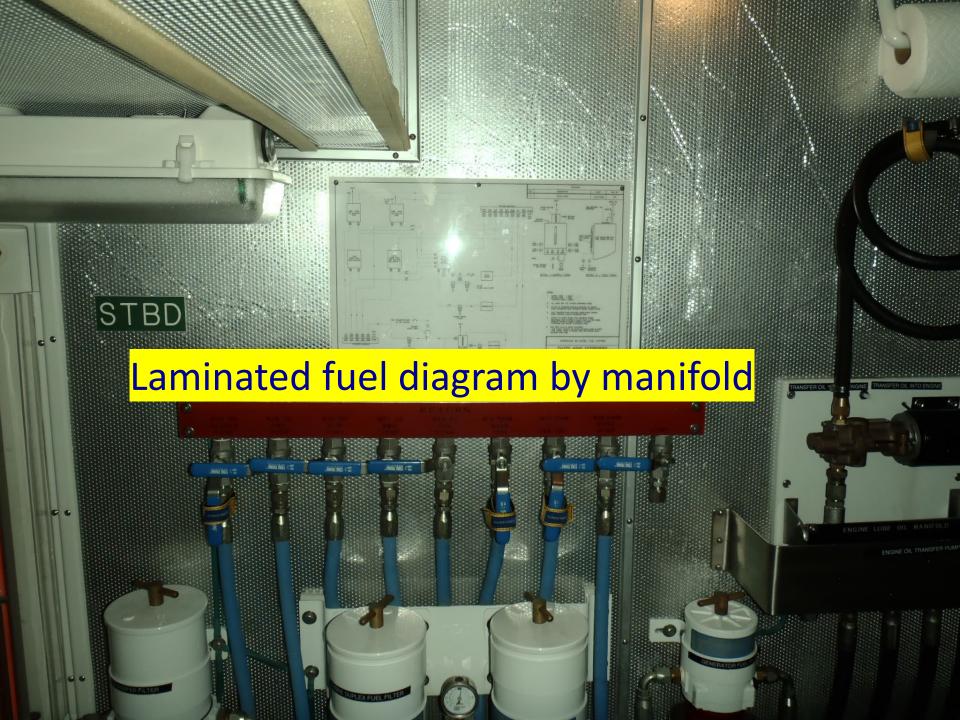


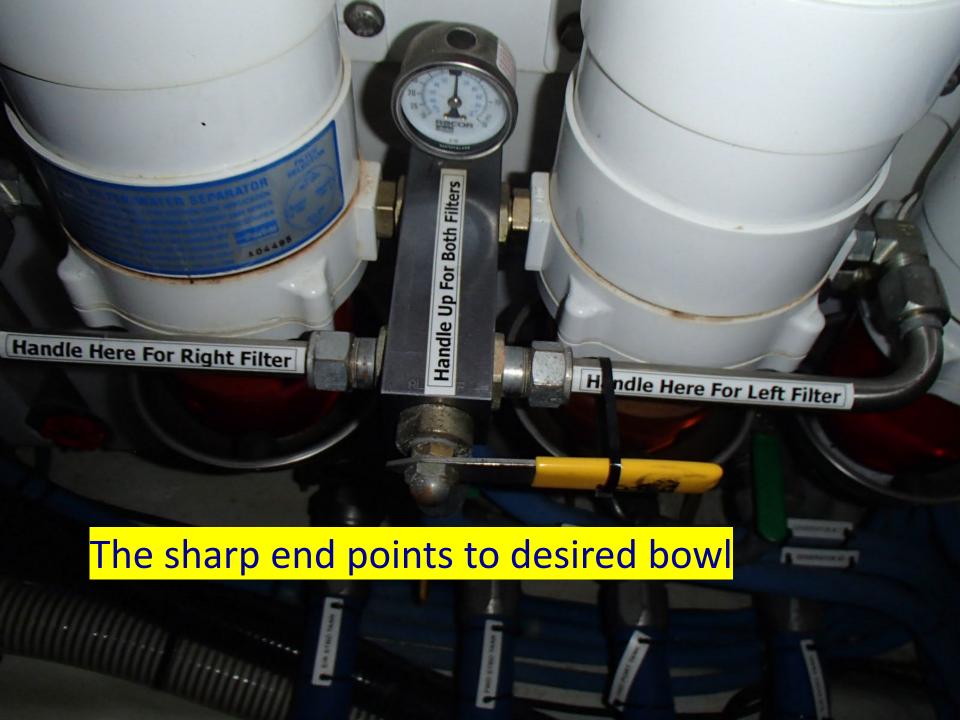


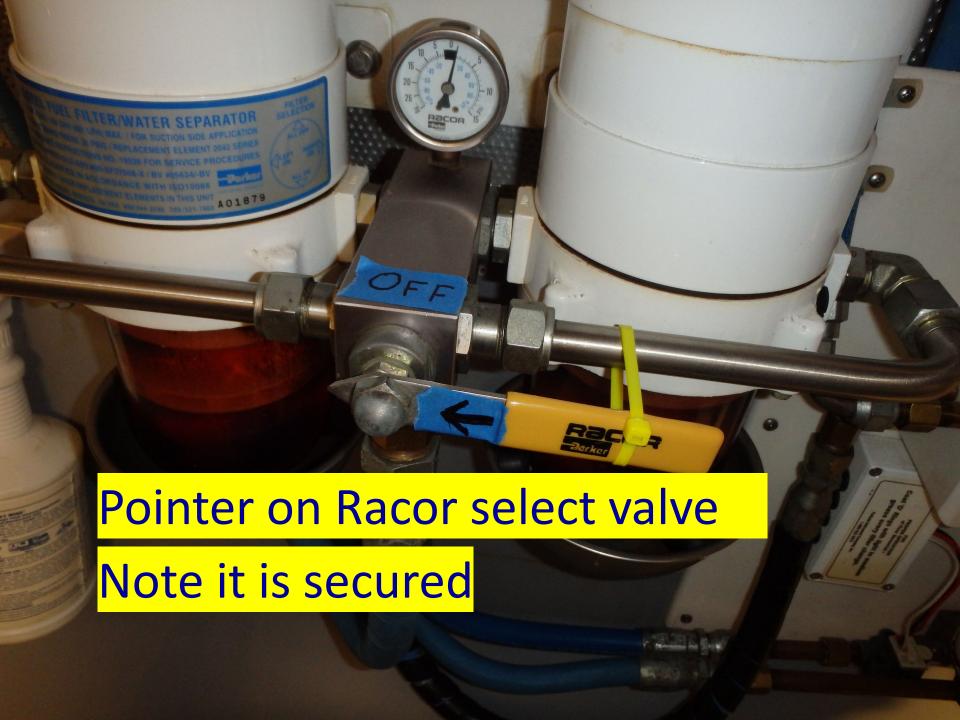




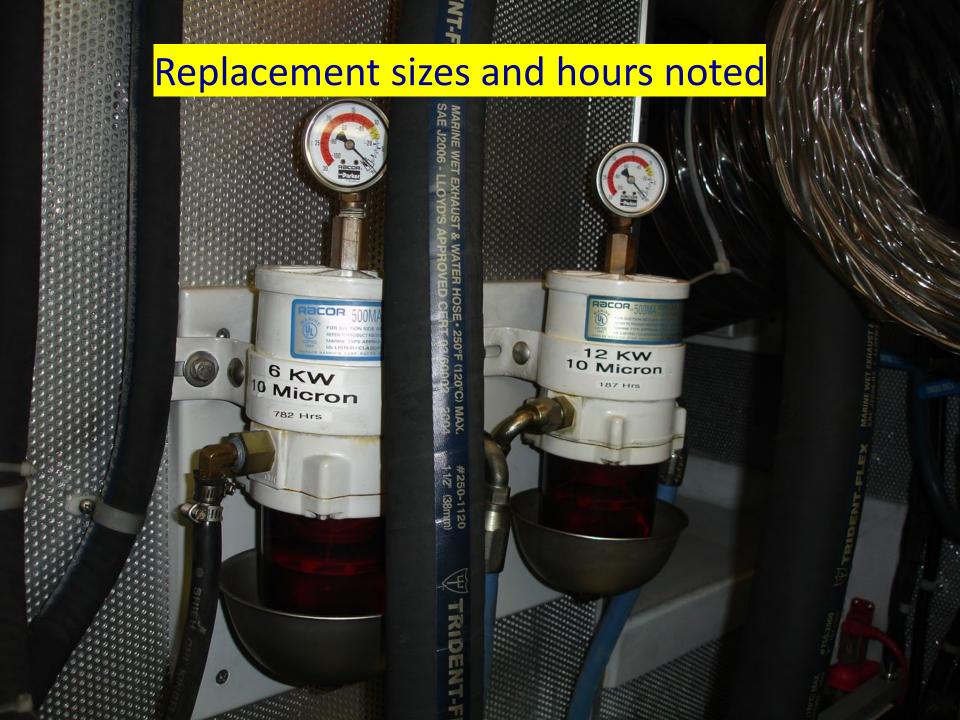








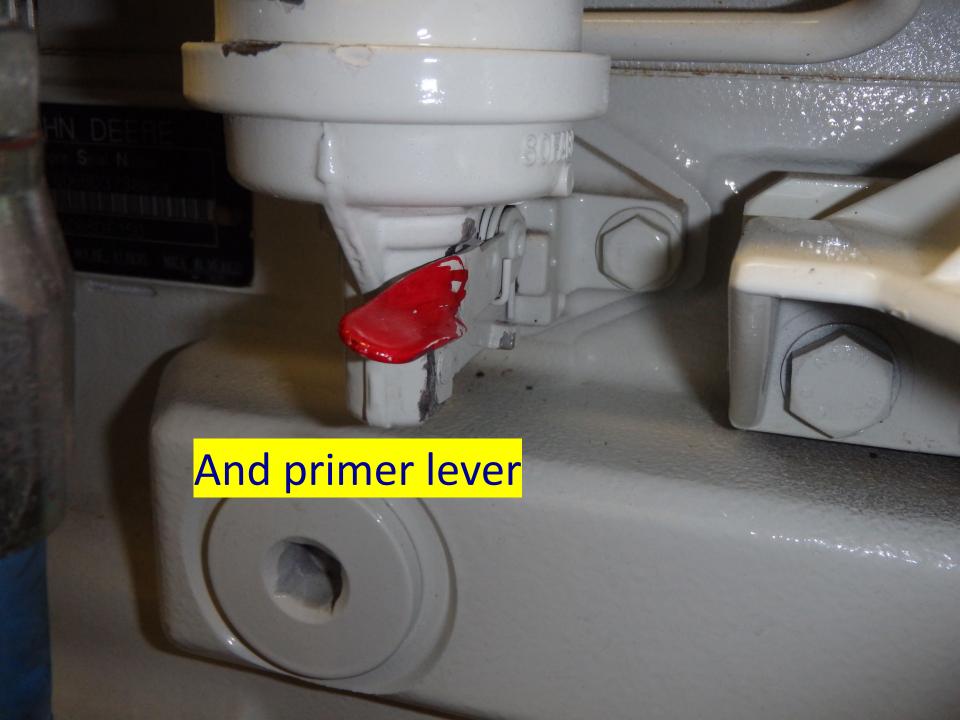








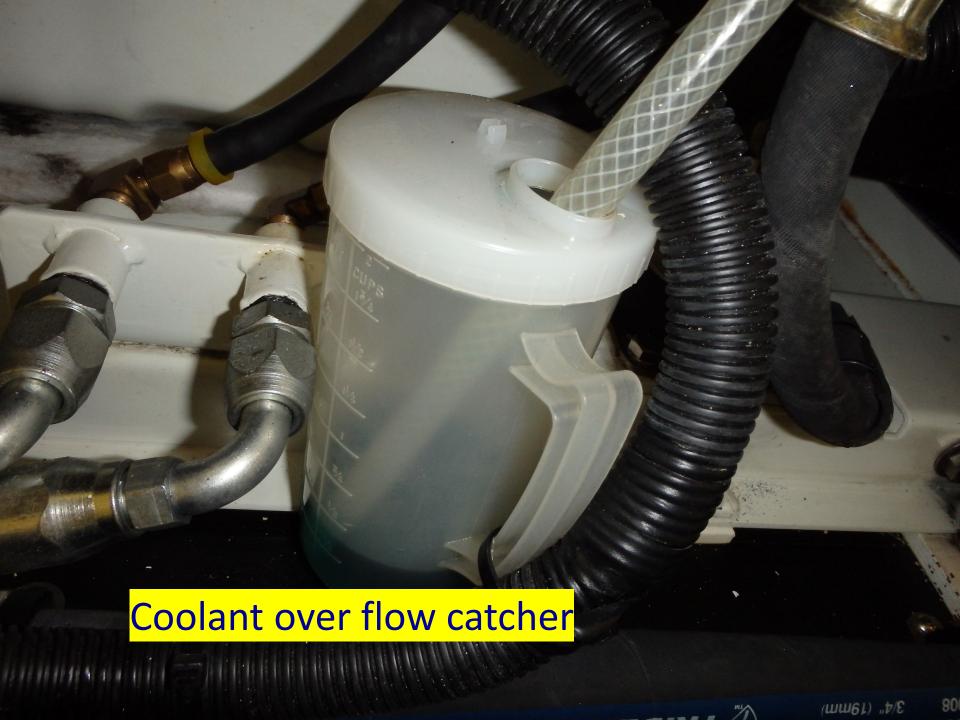


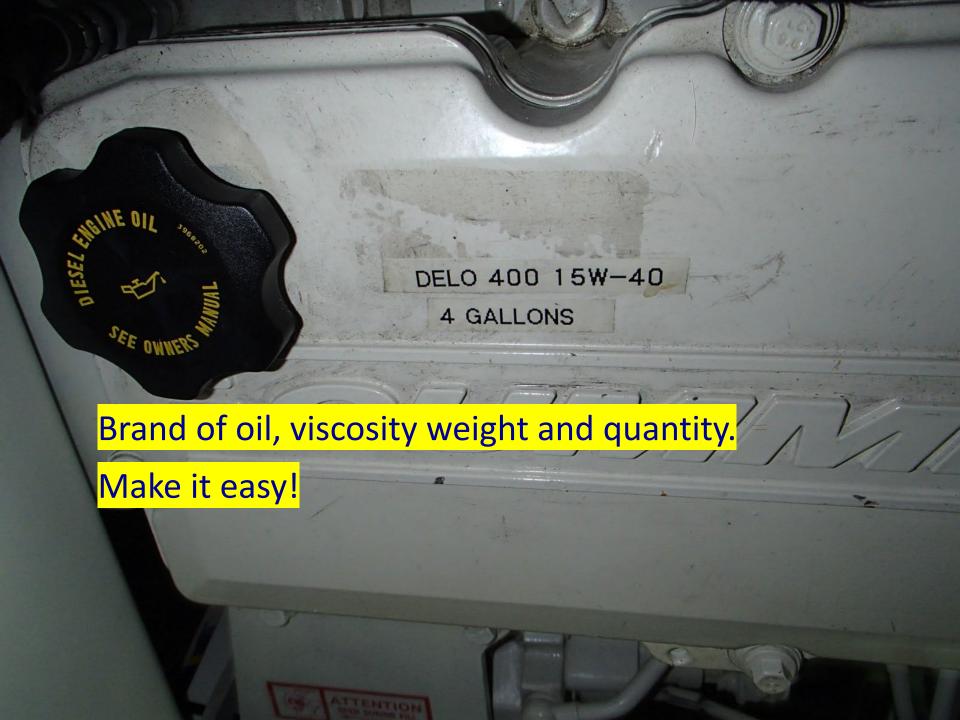




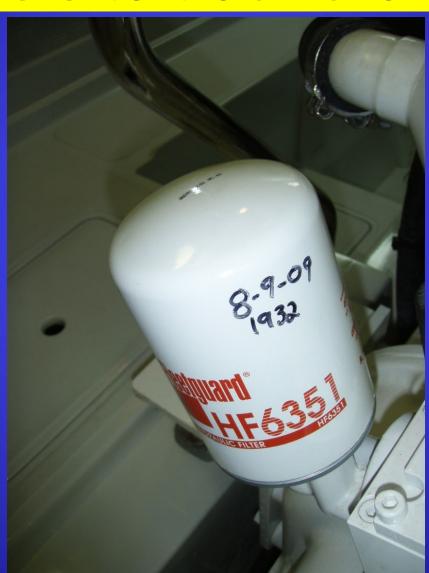








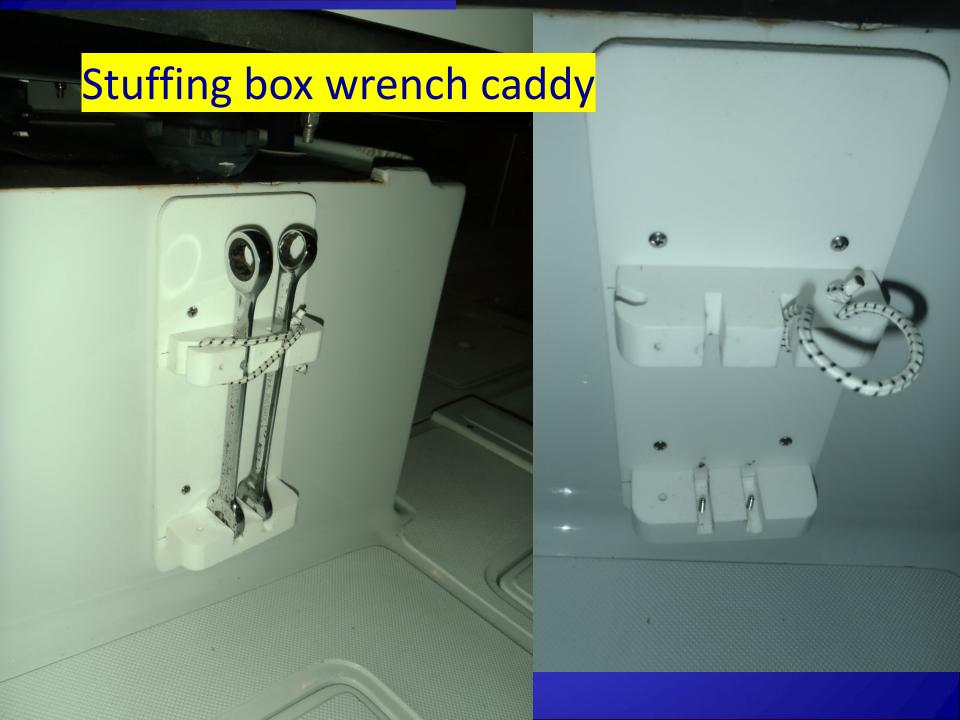
Label filters to track changes





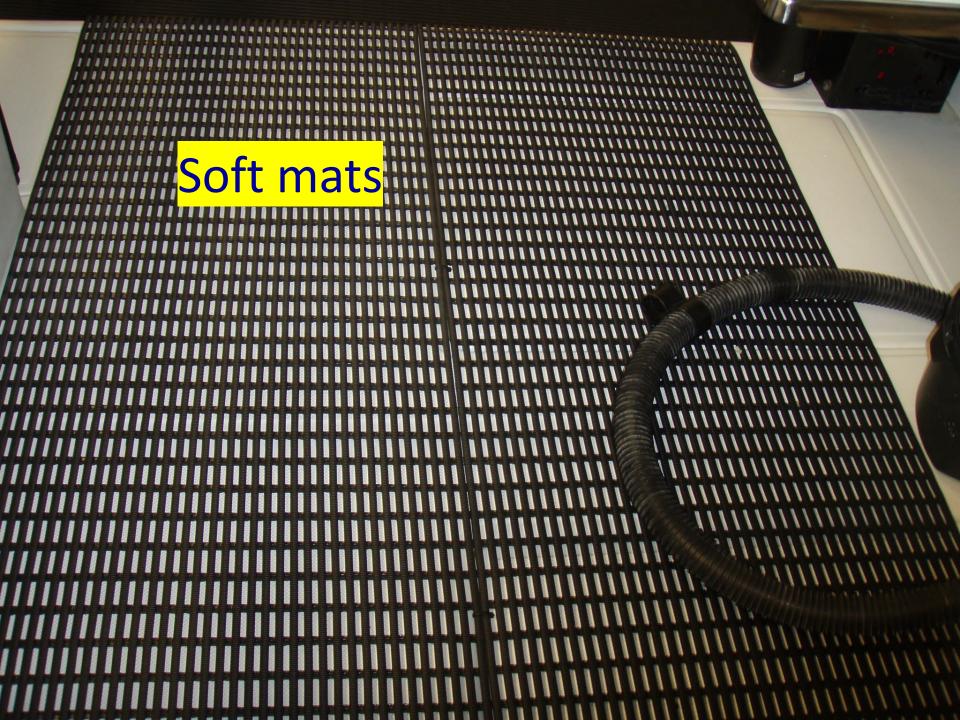


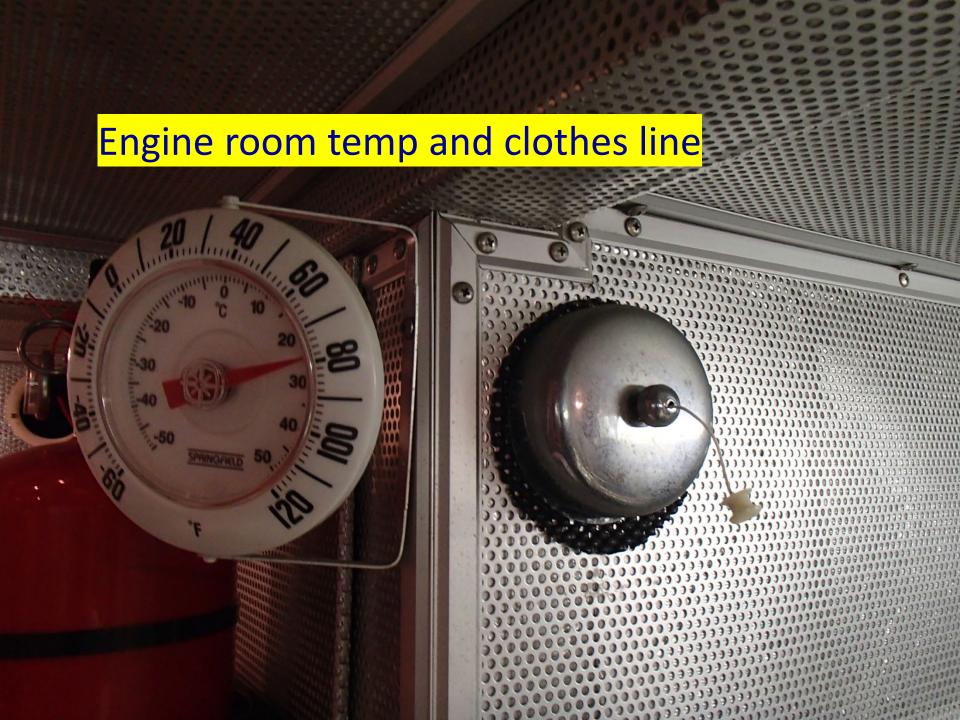




















Get out there and have fun!





PS - I am always on the hunt looking for other ideas, if you have any recommendations please let me know.

Email: Jeff@JMYS.com

