



# ***FOUNTAIN MERCURY***

***Operation, Maintenance &  
Warranty Manual***

***Fountain Sportboats 2005-06***

**Record Your Boat Information Here:**

Model Name: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Date of Purchase: \_\_\_\_\_

Dealership: \_\_\_\_\_

**Record Your Engine & Drive Models Information Here:**

Engine Model: \_\_\_\_\_

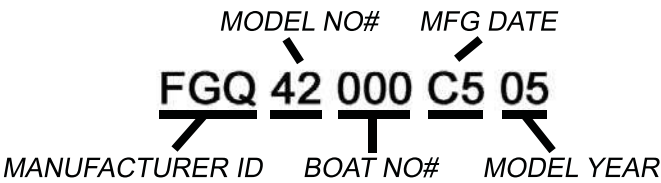
Drive Model: \_\_\_\_\_

Engine Serial Number(s): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

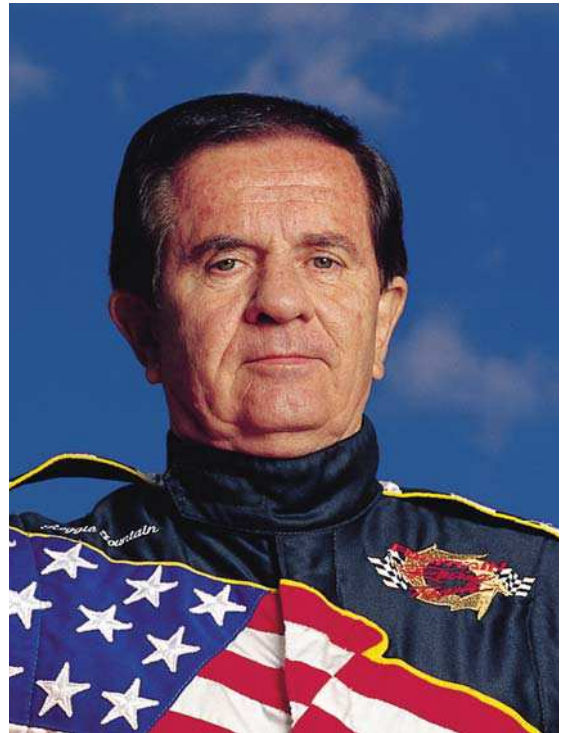
Drive Serial Number(s): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_





Thank you for your purchase of what I believe to be the finest offshore powerboat available. Our racing heritage, and ongoing domination of both the offshore racing circuits and the world speed record courses make Fountain Powerboats the ultimate choice for the performance boater. I take a great deal of personal pride in our boats, and I would like to personally welcome you to

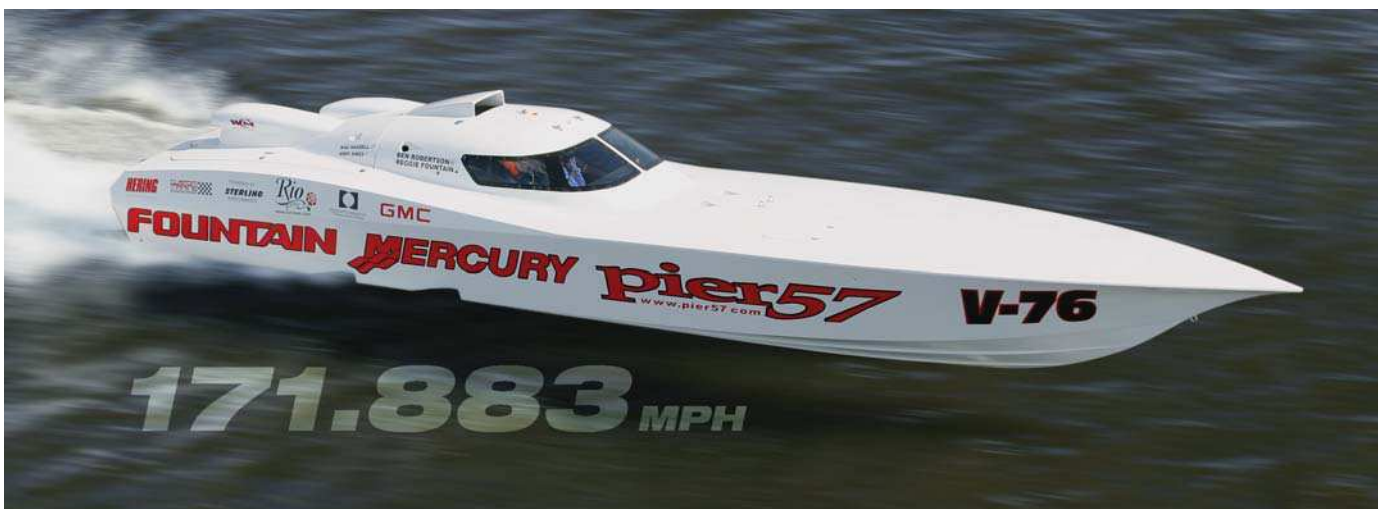


the growing family of Fountain Powerboat owners. This vessel has been delivered to you with confidence, and it was produced using the latest techniques and strict quality control using ISO 9001 standards.

This manual was prepared to help you understand the operation and maintenance of your vessel so that you may enjoy many hours of boating pleasure. Please read through this manual and view the owner's video prior to operating your vessel.

I invite you to visit us on the web at [www.fountainpowerboats.com](http://www.fountainpowerboats.com) for parts, accessories and our award winning Fountain apparel.

*Reggie Fountain*



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# **FOUNTAIN POWERBOATS EXPRESS LIMITED TRANSFERABLE WARRANTY**

**TERM:** As used in this Agreement, the term "customer" shall be deemed to include and to mean, without limitation, "consumer" and "purchaser," as the context may require. The consequences to, and the obligations of, each of the parties hereto shall be the same regardless of which of the above terms is used.

**Note:** FAILURE BY THE CUSTOMER OR THE DEALER TO RETURN TO FOUNTAIN AN ORIGINAL COPY OF THE WARRANTY REGISTRATION CARD, COMPLETED AND SIGNED BY THE CUSTOMER, WITHIN THIRTY (30) DAYS FROM THE DATE OF PURCHASE BY THE CUSTOMER WILL VOID THIS WARRANTY. FOUNTAIN EXPRESSLY MAKES THIS WARRANTY CONDITIONED ON THE RETURN OF THIS CARD TO FOUNTAIN WITHIN THIRTY (30) DAYS OF PURCHASE. This warranty gives the customer specific legal rights, and the customer may have other rights. Rights varying from state to state shall be addressed by corresponding Supplemental Dealer Sales Agreements.

**Fountain Powerboat Dealers are not the agents of Fountain Powerboats, Inc. NO FOUNTAIN DEALER IS AUTHORIZED TO ALTER THE TERMS OF THIS WARRANTY IN ANY MANNER, EXCEPT WITH THE WRITTEN PERMISSION OF THE PRESIDENT OF FOUNTAIN POWERBOATS, INC.. THE CUSTOMER IS ADVISED TO DEMAND A COPY OF THIS WRITTEN CONSENT BEFORE RELYING ON ANY REPRESENTATIONS OR PROMISES THAT MAY VARY THE TERMS OF THIS WARRANTY. Fountain Powerboats, Inc. does not authorize its dealers or any other persons to assume for the company any liability in connection with this LIMITED EXPRESS WARRANTY or any liability or expense incurred in the repairing or replacing of its products other than those expressly authorized herein.**

Fountain Powerboats warrants to the **ORIGINAL RETAIL CUSTOMER** each new boat to be free from defects in materials and workmanship, provided that the customer has maintained the same under normal, non-commercial use and stored same in accordance with Fountain Powerboats' recommendations.

Except as expressly indicated below, this warranty is for a term of one (1) year beginning with the delivery of the boat to the original retail customer. With respect to the structural portions of the hull and deck only, this warranty is for a term of six (6) years beginning with the delivery of the boat to the original retail customer. During this period, warranty repairs shall be made at

the selling dealer's store or service center or, at Fountain's discretion, at the Fountain factory on Whichards Beach Road in Washington, North Carolina. This warranty may be transferred to a second or subsequent owner of the boat provided that the second or subsequent owner notifies Fountain Powerboats, Inc. in writing within thirty (30) days of the change of ownership, by way of a completed warranty registration card. A transferred warranty shall be limited in duration to the length of the original warranty period, running from the date of delivery to the original retail customer, and the second or subsequent owners shall be required to use the boat in a non-commercial manner, and maintain and store the boat in accordance with Fountain Powerboats' recommendations.

Transportation charges, if any, for Fountain Powerboats boats, to and from the dealer's service center, or to and from the Fountain manufacturing plant on Whichards Beach Road in Washington, North Carolina, shall be the sole responsibility of the customer. All repairs under the terms of this warranty are subject to written authorization by factory-trained personnel whose decision shall be final.

**The sales personnel or other employees of the selling Fountain dealer are not authorized to make warranties concerning Fountain boats. No other warranties are given beyond those set forth herein.**

**Please Note: In the event that a boat is on loan, has been leased, rented or continually used as a demo, the warranty will begin as soon as one of these scenarios occurs. In the event that Fountain discovers that this has occurred, the warranty will begin when Fountain, in its sole discretion, has determined that the use began.**

The warranty provided herein is in lieu of all other express warranties and may not be extended or modified by anyone. Any implied warranties, including any implied warranties of merchantability or fitness for a particular purpose, are limited in duration to the period of the express warranty. Repair and/or replacement is the exclusive remedy for all claims of breach of warranty, both express and implied. Correction of non-conformities in the manner and for the period of time as set forth above shall constitute fulfillment of all Fountain Powerboats liability to the customer whether based on contract, negligence or otherwise. Fountain shall not be liable for incidental, consequential or special damages, such as but not limited to, damage to or loss of other property, equipment, loss of profits, cost of purchased or replacement goods, or claims of persons against the original customer. The remedies of the customer set forth herein are exclusive and the liability of Fountain shall not, except as expressly provided herein, exceed the price of the goods upon which such liability is based.

**This warranty does not apply to the following:**

- 1) Engines, out-drives, transmission and propellers or any other components of the powertrain or propulsion system. Custom-built Fountain engines are also excluded from the warranty.
- 2) Equipment and accessories not manufactured by Fountain.
- 3) Cracking, crazing, discoloration or blistering of gel coat finishes, powder coat finishes or paint finishes.
- 4) Carpet
- 5) Upholstery
- 6) Canvas
- 7) Windshield breakage, cracking or crazing.
- 8) Installation of engines by persons other than Fountain.
- 9) Costs for haul-out, launch, lift charges, towing, travel time charges, storage charges, dockage, insurance costs, and inconvenience for loss of time or income, etc.
- 10) The achievement of any particular performance or fuel consumption.
- 11) The cost of removing or replacing defective parts.

**The following voids Fountain's warranty:**

- 1) Subjecting the boat to accident, misuse, abuse or negligence.
- 2) Use of the boat for racing or engaging in a contest of speed or endurance of any type or modification of the boat in any way other than upon express instruction by Fountain.
- 3) Failure to perform periodic maintenance in accordance with Fountain recommendations.
- 4) Damage caused by improper mating of the boat to the trailer. The entire hull must be supported, which includes bunks that contour to support the step hull on the entire running surface, especially directly under the transom.

As an industry leader in research and development, Fountain Powerboats, Inc. reserves the right to change specifications, features and prices of its products without notification.

Warranty terms: Fountain's obligations under this express warranty and all other implied warranties are limited solely to the repair and/or replacement of any parts due to defective material or workmanship. The repair and/or replacement work is to be done by an authorized Fountain dealer or by Fountain within a reasonable time after the boat is delivered for repair. On the day of sale, the customer and selling Fountain dealer must complete and sign the warranty registration card, which is included with each boat. The selling dealer must return the warranty registration card to Fountain

Powerboats within thirty (30) days of the date of sale. However, if the dealer fails to return the warranty registration card to Fountain within the time period prescribed above, the customer's sole means of recovery shall be against the Dealer.

The customer must bring the Fountain boat to the authorized servicing Fountain dealer for such repair. No transportation charges will be paid by Fountain to transport the boat to a dealer or the Fountain factory for repair. Fountain is not responsible for engine removal and de-rigging. The customer must maintain the boat in accordance with commonly accepted practice and Fountain recommendations. Fountain boats are intended primarily for normal recreational and leisure time purposes and have not been designed or manufactured for heavy, commercial use. Therefore, Fountain is not liable for any consequential economic or physical damage resulting from any breach of any written or implied warranty.

**Procedures for warranty repairs and replacements:**

1. Upon receipt of the express limited transferable warranty card, a Fountain representative will be contacting you to determine where your boat shall be serviced, should the need arise.
2. You will then be assigned an authorized servicing center to perform your warranty work.
3. Should you wish or need to take your Fountain boat to a different authorized servicing center for warranty work, please contact the Fountain Customer Service by the methods described below.
4. The Fountain boat must be returned to the authorized servicing dealer who has the primary responsibility to perform warranty repairs. In the event the servicing dealer has ceased to do business, or you are traveling or have moved to a different locale, work under the warranty may be performed by any authorized Fountain dealer provided you have pre-authorization from the factory. Except in the specific instances just stated, your warranty work should be done by the authorized servicing Fountain dealer. **ANY AND ALL SERVICE QUESTIONS AND/OR REQUESTS MUST BE MADE BY PHONE TO 252-975-2000 OR 252-975-1132 OR BY MAIL TO FOUNTAIN'S PROPER MAILING ADDRESS AS FOLLOWS:**

**Fountain Powerboats, Inc.  
Attention: Customer Service  
P.O. Box 457  
Washington, NC 27889**



5. The authorized servicing Fountain dealer will examine the boat to determine if, in its opinion, a warrantable defect exists. The servicing Fountain dealer shall then report to Fountain whether a warrantable defect appears to exist. Fountain, at its option and sole discretion, will repair or authorize repair and/or replacement of all parts that are found to be defective. For repairs performed other than at the Fountain factory in Washington, North Carolina, an authorization form will have to be issued prior to any work performed. Prior written authorization from Fountain is required. You will be asked to sign a warranty form to assure Fountain that the warranty work has actually been performed to your satisfaction.

**Limitation on implied warranties:**

**ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS EXPRESS WRITTEN LIMITED WARRANTY AND, LIKE THE EXPRESS WRITTEN WARRANTY, ARE LIMITED TO REPAIR AND/OR REPLACEMENT AS THE SOLE MEANS OF RECOVERY IN THE CASE OF BREACH.**

**Exclusion or limitation of damages:**

Fountain will not be liable (a) for personal injury or property damage except personal injury or property damage caused by Fountain's negligence; (b) **FOR ANY CONSEQUENTIAL ECONOMIC DAMAGES, DAMAGES TO PROPERTY, DAMAGES FOR LOSS OF USE, LOSS OF TIME, LOSS OF PROFITS, OR INCOME, OR ANY OTHER INCIDENTAL DAMAGES, OR FOR ANY DAMAGES REGARDLESS OF THEIR NATURE CAUSED BY THE CUSTOMER'S AND OR DEALER'S FAILURE TO FULFILL THEIR RESPONSIBILITIES AS SET FORTH HEREIN.**

**IT IS EXPRESSLY UNDERSTOOD AND AGREED TO BY FOUNTAIN, THE SELLING DEALER AND THE CUSTOMER, THAT ANY DISPUTE ARISING UNDER THE TERMS OF THIS WARRANTY WILL BE GOVERNED BY THE APPLICABLE LAWS OF THE STATE OF NORTH CAROLINA AND, EXCEPT WHERE SPECIFICALLY PROHIBITED OR LIMITED BY THE LAWS OF A PARTICULAR STATE, THAT FOR ANY DISPUTE ARISING UNDER THIS WARRANTY, THE PROPER FORUM WILL BE THE COURTS OF BEAUFORT COUNTY, NORTH CAROLINA OR, WHERE APPROPRIATE, THE FEDERAL DISTRICT COURT FOR THE EASTERN DISTRICT OF NORTH CAROLINA.**

**Note:** Some states do not allow limitations as to the court in which a dispute may be resolved, so the foregoing provision may not apply in all cases.

This limited warranty, along with the Dealer Sales Contract, constitute the entire agreement and understanding between the customer and Fountain with respect to the purchase and sale of boats. No agreement or statement not contained in these agreements shall be binding upon Fountain as warranty or otherwise, and neither this limited warranty nor the Sales Contract shall be modified or amended unless it is in writing, executed by the President of Fountain Powerboats and the customer. The foregoing terms and conditions shall prevail notwithstanding any contrary terms and conditions of any other submitted by the customer for the boats. In the event that any of the above provisions should be held void by a state's court, all other warranty provisions shall remain intact.



## IMPORTANT SAFETY INSTRUCTIONS



### **WARNING**

1. Read the owners manual and watch the owner's video prior to operating the boat to understand and comply with systems and safety rules.
2. Always check your gas gauge before leaving the dock.
3. Consult your engine information packet for recommendations and specifications concerning fuels, lubrication, and boat & engine service intervals.
4. Do not smoke while refueling. Fuel is very flammable.
5. Always maintain proper safety equipment before leaving the dock, including, but not limited to an anchor, anchor line, at least one life vest per person on board, a throw cushion with a 20' rope attached, a ships bell, fire extinguisher, first aid kit, signal kit, spare oil, spare transmission fluid, and an assortment of miscellaneous tools.
6. Always check fluid levels and do an overall general inspection of the engine compartment prior to starting the engines.
7. Change the oil and filters after every 20-30 hours of operation to help prevent engine damage.

8. Always monitor water pressure gauges. Loss of water pressure increases engine temperature and can cause severe damage to the engine(s).
9. Always monitor oil pressure gauges. If the oil pressure drops, severe engine damage could occur.
10. Check all bilge pumps before each outing, and before leaving your boat moored to be sure they are fully functional, both in automatic and manual modes.
11. Do not leave the boat unattended or uncovered for long periods of time, or leave attached to mooring buoys in foul weather. Excess rain or high winds may cause sinking. Once bilge pumps run down the battery, bilge pumps will no longer operate and the boat will sink if water continues to enter the boat.
12. Review the performance report for proper trimming of the boat. Tests are based on calm water operations. Rougher water requires substantially different trim as shown in the owner's video manual. Usually as the water gets rougher, the tabs will need to go down and the drives will need to go in.
13. Always operate the blowers for at least 5 minutes before starting the engine(s) to insure that all gas fumes are removed. Gas fumes are heavier than air, and must be forced out of the bilge area.
14. Check the warning buzzer for sound to insure proper working order of this warning device.
15. Always start the boat with the drives and tabs in the down position.
16. Always start the boat with the shifters in the neutral position.
17. Always allow the engine to idle in the neutral position, and to attain normal operating temperature before shifting gears to prevent engine and gear damage.
18. Do not launch the boat if the drain plug is not installed.
19. Always wear your safety lanyard while under way.
20. Never trim the outdrive(s) out past 5.5 while on plane, and never independently trim the outdrives to allow more than 2 marks of trim separa-

tion between the drives on the trim indicators.

21. Never trim the outdrive(s) in past 3 while on plane.
22. Always check forward visibility before getting on plane.
23. Always slow down before turning the boat.
24. Turning maneuvers are safer if done in calm water. Fast turns in any conditions are dangerous.
25. Always look to the rear before turning. It is important to know what is around you at all times.
26. Do not operate the boat so that it leaves the water. It may harm the passengers. It will also cause over-rev related damage to the engine and/or outdrives, as well as undue stress on the boat and it's internal components.
27. Always be smooth, gentle and even with the throttles.
28. Never operate the boat at speeds that are beyond your capability, or the capabilities of the boat.
29. Always check oil and fluids after use. See engine manual for fluids and fluid levels.
30. Passenger safety is the boat owner/operators responsibility. Stop the engines before using the transom area as a swim platform or when swimmers are present in the area.
31. Do not operate this boat while under the influence of alcohol or drugs. Alcohol and drugs severely reduce the ability to react, especially in several different situations at once. Alcohol and drugs lead to incorrect judgments of speed, distance and direction. Alcohol and drugs reduce vision and the ability to fully comprehend emergency situations.
32. Always wash and flush engine(s) after use to keep corrosion damage to a minimum especially in using the boat in salt water.
33. Always be sure to support the bottom of the boat, including directly under the transom, when storing and/or trailering to prevent damage to the bottom of the boat.



34. Review the engine owner's manual for care and maintenance of your engine(s).
35. **THIS IS NOT AN EXHAUSTIVE LIST.** Always use common sense when operating your boat and seek proper guidance from qualified mechanics when making repairs.

By signing this warranty card the customer acknowledges that he or she 1) has viewed the Fountain Video Owner's Manual, 2) fully understands safe boating operation and every aspect of his/her Fountain boat. The customer also verifies that he/she has reviewed the Fountain performance report with the dealer and understands the proper trim settings for tabs and drives for all speeds, in all conditions, and while turning. The customer also verifies that the dealer has fully demonstrated this boat to him/her on the water and has demonstrated all systems and proper trimming of the drives and trim tabs for all sea conditions. The customer acknowledges that he/she has been informed of all potential hazards which can occur while boating. The customer also acknowledges that this boat should not be operated if any of the following are true: a) rough water, b) he/she is under the influence of drugs or alcohol, c) in severe weather, darkness, fog or low visibility. The customer acknowledges that he/she should wear their safety lanyard and life vest at all times and never turn the boat at an unsafe speed. The customer also acknowledges that he/she has read, understands, and agrees to abide by all of the important safety information on this warranty card.

This warranty registration must be completed and received by Fountain Powerboats within 30 days of purchase. Failure to do so will result in the warranty beginning on the date of delivery to the selling dealer. By signing, customer acknowledged having read and understood Fountain's Boat Warranty.

# Specifications

## ***27 Fever Single***

LOA: 27' / 8.23m

Beam: 8'4" / 2.54 m

Weight, dry: 5,150 lbs. / 2,338 kgs

Fuel capacity: 58 gals. / 220 L

Draft with drive down 33"

Recommended power: Single 425 HP 496 cu. in. Mercury with Bravo One drive - 70 mph

## ***27 Fever Single or Twin***

LOA: 29' / 8.84 m

Beam: 8'4" / 2.54 m

Weight, dry: 5,850 lbs. / 2,656 kgs

Fuel capacity: 131 gals. / 495 L

Single Engine Model:

Draft with drive down 34"

Recommended power: Single 525 EFI Mercury with Bravo One drive - 80+ MPH

## ***35 Executioner***

LOA: 35' / 10.67 m

Beam: 8'4" / 2.54 m

Weight, dry: 7,600 lbs. / 3,450 kgs

Fuel capacity: 156 gals. / 590 L

Draft with drive down 35"

Recommended power: Twin 425 HP 496 cu.in. Mercury's with Bravo One drives - 79+ MPH

## ***35 Lightning Twin***

LOA: 35' / 10.67 m

Beam: 8'4" / 2.54 m

Draft with drive down 35"

Weight, dry: 8,600 lbs. / 3,904 kgs

Fuel capacity: 164 gals. / 620 L

Recommended power: Twin 525 EFI Mercurys with XR drives - 90+ MPH

## ***38 Lightning Twin Staggered***

LOA: 38' / 11.58 m

Beam: 8'4" / 2.54 m

Weight, dry: 8,950 lbs. / 4,063 kgs

Fuel capacity: 211 gals. / 798 L

Draft with drive down 35"

Recommended power: Twin 525 EFI Mercurys with XR drives - 88+ MPH

# Specifications

## ***42 Executioner Twin Staggered***

LOA: 42' / 12.8 m

Beam: 8'4" / 2.54 m

Weight, dry: 10,300 lbs. / 4,676 kgs

Fuel capacity: 249 gals. / 942 L

Draft with drives down: 40"

Recommended Power:

Twin HP 525 EFI w/ Bravo One XR drive 84+ mph

## ***42 Lightning Twin Staggered***

LOA: 42' / 12.8 m

Beam: 8'4" / 2.54 m

Weight, dry: 10,300 lbs. / 4,676 kgs

Fuel capacity: 249 gals. / 942 L

Draft with drivers down 40"

Recommended power: Twin 525 EFI Mercurys with XR drives - 85+ MPH

## ***42 Poker Run Twin Staggered***

LOA: 42' / 12.8 m

Beam: 8'6" / 2.6 m

Weight, dry: 9,200 lbs. / 4,173 kgs

Fuel capacity: 212 gals. / 802.5 L

Draft with drive down 40"

Recommended power: Twin 525 EFI Mercurys with XR drives - 95+ MPH

## ***47 Lightning Triple***

LOA: 47'3" / 14.4 m

Beam: 8'6" / 2.6 m

Weight: 13,400 lbs. / 6,078kgs

Fuel capacity: 314 gals. / 1,188 L

Centerline length with molded swim platform: 47' / 14.4m

Draft with drives down 38"

Recommended power: Triple 525 EFI Mercurys with XR drives - 90+ MPH

# Specifications

## ***Standard Equipment (most models)***

Anchor locker, recessed in foredeck  
Battery(s), heavy duty w/jumper cables and receptacle  
Battery switches, parallel, explosion proof  
Bilge pumps, 12 volt DC, 1200 GPH automatic/manual pump  
Bolster seats, split, w/drop seats, electric drop seats  
Carpeting, cockpit, customized w/embroidered "Fountain" logo  
Cockpit cover, form fitted  
Color coordinated dash, throttles, gauge rims, bezels and steering wheel  
Engine compartment, w/hatch, motorized  
Fire extinguisher, automatic  
Fuel filters, two, w/water separators (twin applications)  
Fuel tanks, heavy duty, 3/16" thick aluminum, foamed, glassed and bolted in position w/stainless steel pickups  
Galley w/sink and cold water pressure system  
Graphics, standard selections  
Hand laid composite hull and deck manufactured w/multi-directional fiberglass w/high density coring and vinylester resin and w/hull and deck laminated, pop riveted, thru-bolted, screwed, and sealed together w/heavy duty marine sealant/adhesive  
Head, porta-potti  
Horns, electric  
Hour meter  
Ice chest, built-in, insulated  
Instrumentation, heavy duty Livorsi w/integrated warning lights  
Positive Lift Hull  
Propellers, stainless steel to match engine and drive package  
Rails, bow and stern, 316L stainless steel, thru-bolted  
Steering, heavy duty hydraulic, offshore hi-performance type w/dual pumps  
Stereo, marine AM/FM/CD w/four marine speakers  
Sun deck, upholstered over engine hatch with bolt logo  
Swim ladder, fold down off transom w/ integral fiberglass cover  
Tie Bar, external  
Trim indicators, mechanical for drives and tabs  
Trim switch on throttles  
Trim tabs, Kiekhaefer, heavy duty hydraulic, offshore hi-performance  
Windshield, Wraparound



# Specifications

## Performance Report:

Each Fountain Powerboat is water tested prior to delivery. This test information is recorded on the Performance Report, and this report is provided with every new boat purchase.

Use your performance report to see the optimum performance obtained on your boat at the factory, and as a reference for initial trim settings at various engine RPM and boat speeds.

# **FOUNTAIN POWERBOATS**

## **PERFORMANCE REPORT**

Date: 3/24/2004  
 Time: 3:15PM  
 Test Driver: \_\_\_\_\_  
 \_\_\_\_\_  
 Boat Dealer: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City & Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Temperature: 65  
 Wind: 5MPH  
 Water: CALM  
 \_\_\_\_\_  
 Serial No.: 385XX  
 Weight: 9007  
 Customer: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Outboard Rotation \_\_\_\_\_

**ENGINES:** 525 EFI MERCURISER  
**Port Serial#** 0M9050XX  
**OUTDRIVES:** BRAVO 1 XR

Ratio: 1.5:1

**Std Serial #** 0M9056XX  
**Prop:** 2 32 MERC  
**Std Serial #** 0W2149XX  
27 1/2 X 19 1/2  
**Std Serial #** 0W1500XX

**TRANSOM PLATES:** BRAVO 1 XR **X Dimension**  
**Port Serial #** 0W1500XX

### **ENGINE GAUGE READINGS**

#### **Starboard Engine**

**Port Engine**

	Cold	Hot	WOT
RPM:	850	700	5350
Oil Pres:	50	30	40
Oil Temp:	140	220	195
Water Temp:	130	165	160
Volts:	13	14	14
Fuel Total:	100	Gal.	
Vacuum in Gear at RPM:			in Inches: _____
Depth Gauge reads to	60		MPH

SPEEDO @WOT 90mph

	Cold	Hot	WOT
RPM:	850	700	5350
Oil Pres:	50	30	40
Oil Temp:	140	220	195
Water Temp:	130	165	185
Volts:	13	14	14

### **PERFORMANCE READINGS**

	MPH	Drives	Tabs	Vacuum/Boost*		Fuel Press.*		Water Press.	
						Port	Std.	Port	Std.
0 to Plane									
RPM: 3000	44	2	3			16	16	20	25
RPM: 4000	64	3	3			35	35	31	32
RPM: 3850	60	3	3			33	33	28	30
WOT: 5350	90	4	2			45	45	45	50

WOT: Wide Open Throttle

**WARNING--DO NOT TRIM DRIVE BEYOND 5 ABOVE 1200 RPM**

\*SUPERCHARGER ONLY

\*\*BE ADVISED THAT THESE PERFORMANCE FIGURES ARE MERELY AN ESTIMATE, NOT A GUARANTEE, OF WHAT YOU MAY EXPECT BASED ON OUR FACTORY TESTING PROGRAM. THE ABOVE LISTED SPEEDS ARE VERIFIED BY RADAR OR GPS OR BOTH WITH ONE TEST DRIVER AND LESS THAN FIFTY GALLONS FUEL LOAD. THIS BOAT SPEED CAN VARY DEPENDING ON LOADED WEIGHT, FUEL LOAD, NUMBER OF PASSENGERS, AIR, TEMPERATURE, ALTITUDE, HUMIDITY, BAROMETRIC PRESSURE, WATER CONDITIONS, WIND, ENGINE TUNING, HORSEPOWER VARIANCE FROM ENGINE TO ENGINE, PROPELLERS, AND NUMEROUS OTHER FACTORS BEYOND OUR CONTROL. THE SPEED VARIANCE CAN BE UP TO 4% OF THE TOP SPEED.

**BE ADVISED THAT THESE PERFORMANCE FIGURES ARE MERELY AN ESTIMATE, NOT A GUARANTEE, OF WHAT YOU MAY EXPECT BASED ON OUR FACTORY TESTING PROGRAM. THE ABOVE LISTED SPEEDS ARE VERIFIED BY RADAR OR GPS OR BOTH WITH ONE TEST DRIVER AND LESS THAN FIFTY GALLONS FUEL LOAD. THIS BOAT SPEED CAN VARY DEPENDING ON LOADED WEIGHT, FUEL LOAD, NUMBER OF PASSENGERS, AIR, TEMPERATURE, ALTITUDE, HUMIDITY, BAROMETRIC PRESSURE, WATER CONDITIONS, WIND, ENGINE TUNING, HORSEPOWER VARIANCE FROM ENGINE TO ENGINE, PROPELLERS, AND NUMEROUS OTHER FACTORS BEYOND OUR CONTROL. THE SPEED VARIANCE CAN BE UP TO 4% OF THE TOP SPEED.**

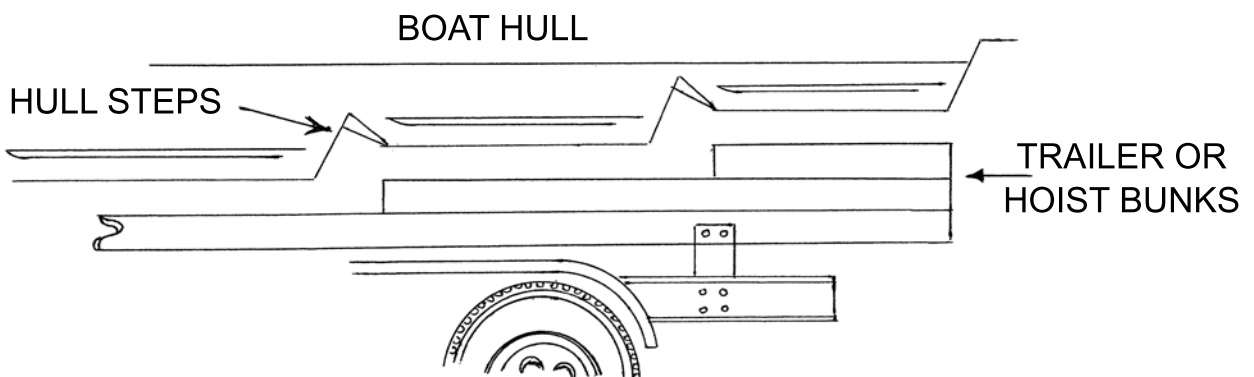
# Hull Support

Note: When setting up boat trailer or hoist bunks, it is recommended to support hull steps as shown.

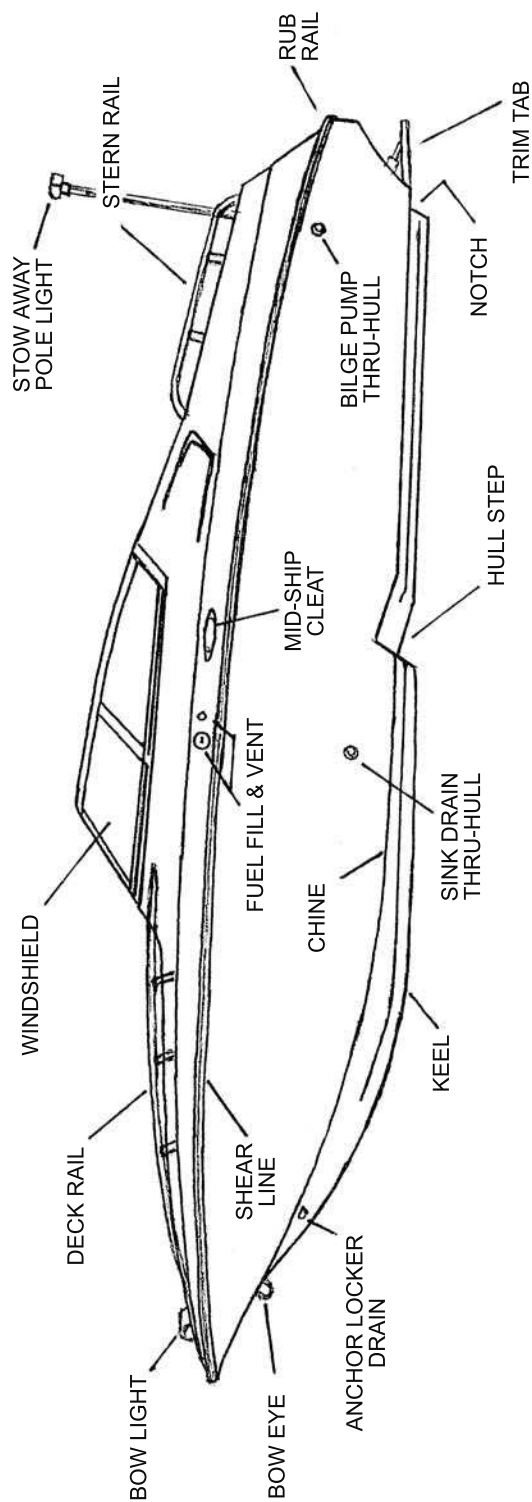
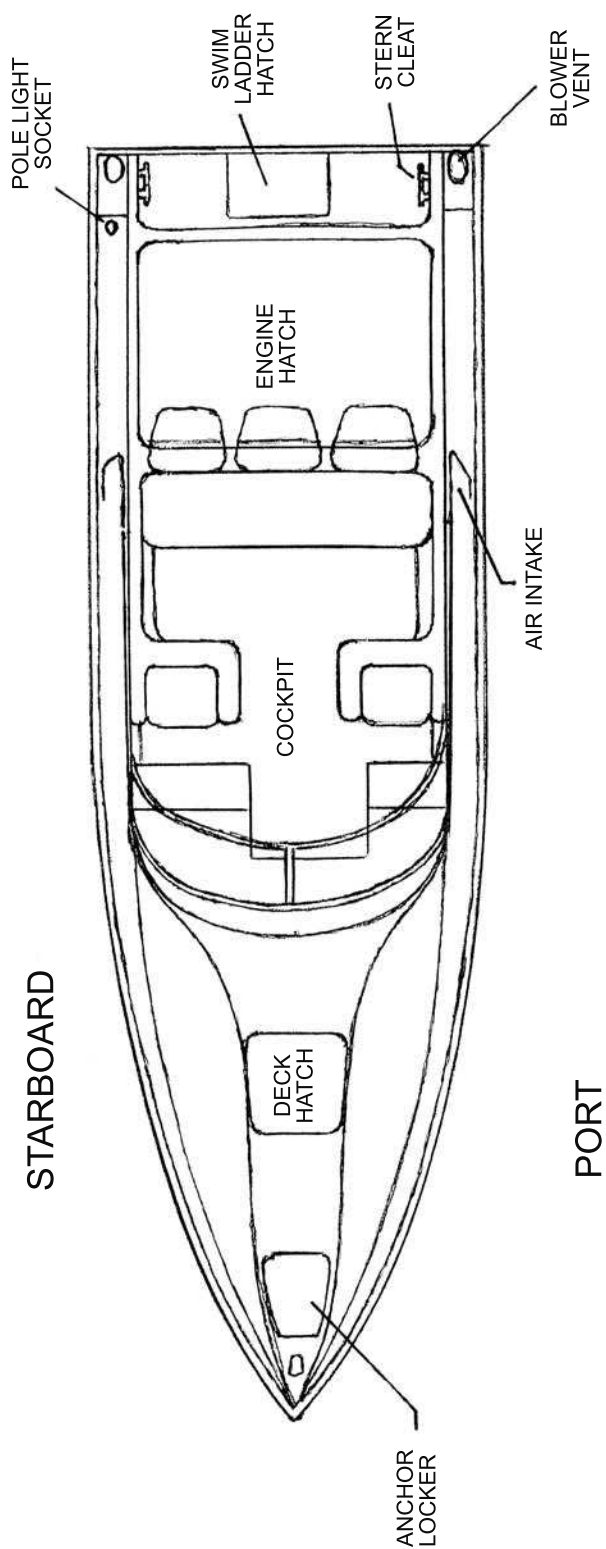
Hull support at the stern is essential due to the weight of the engine(s) and running gear.



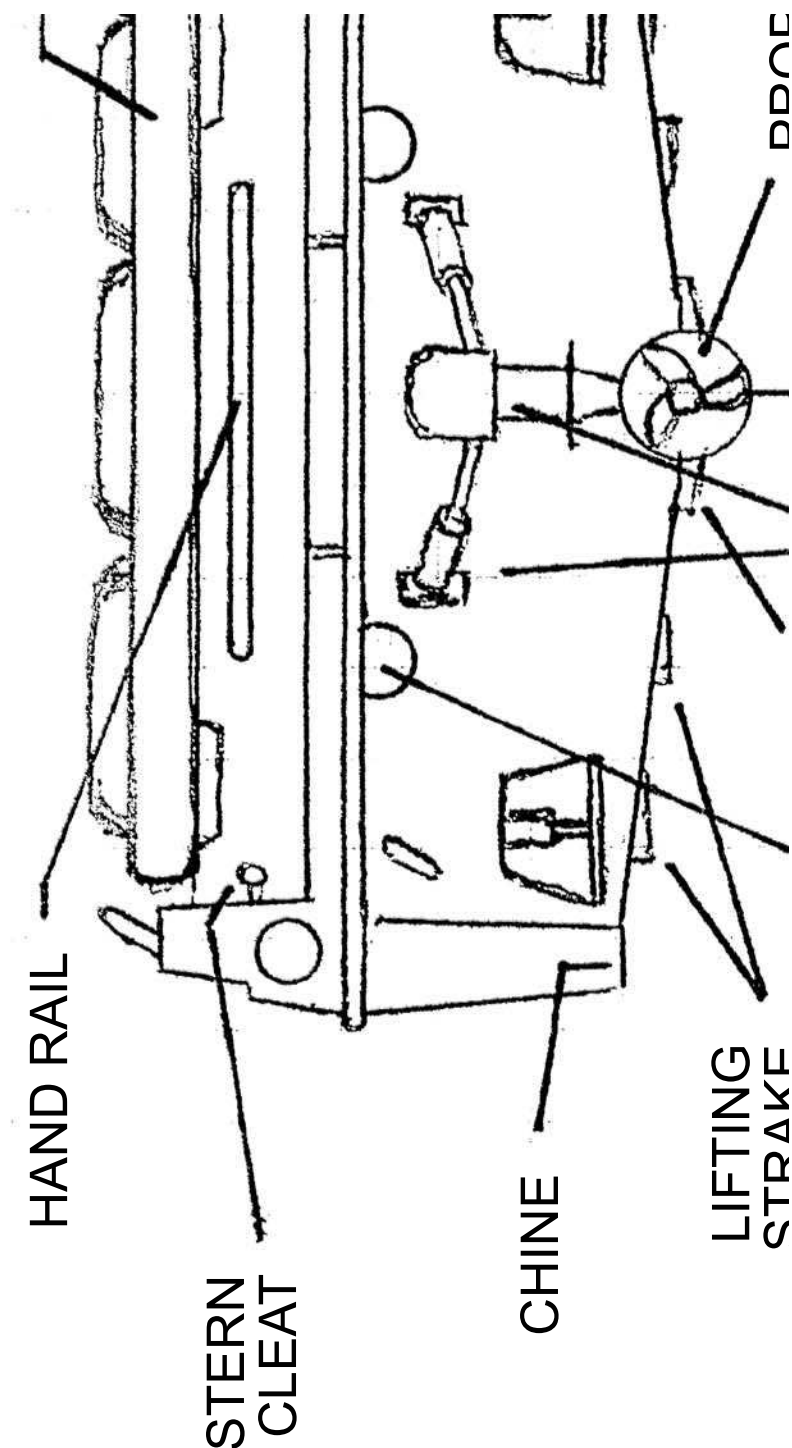
Incorrect hull support can have serious negative effects on the running surface of the boat by introducing either hook or rocker; damage to the strakes, steps or pad areas; or in extreme instances can cause severe structural damage to the hull both externally and internally.



# Quick Reference Drawing

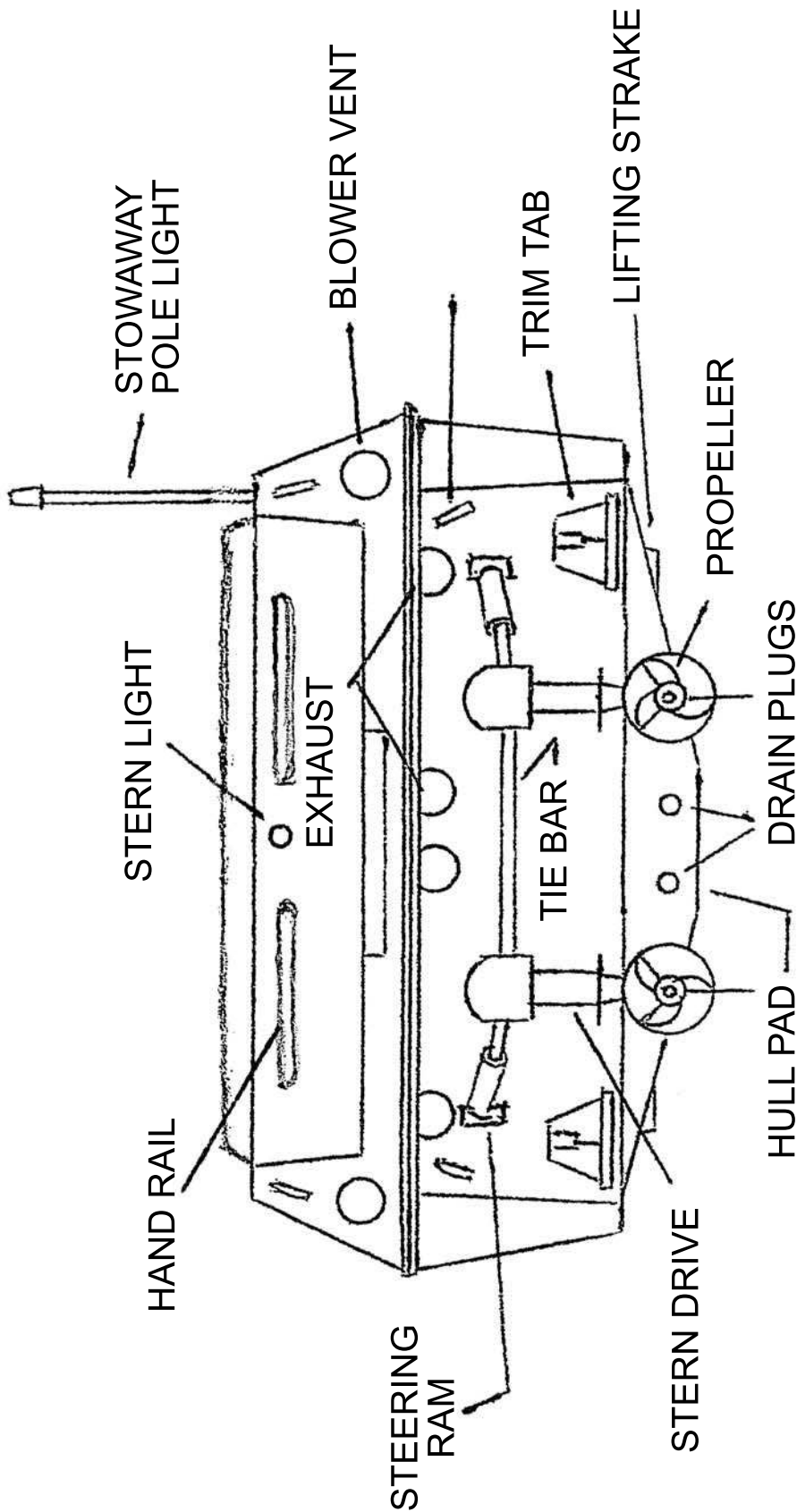


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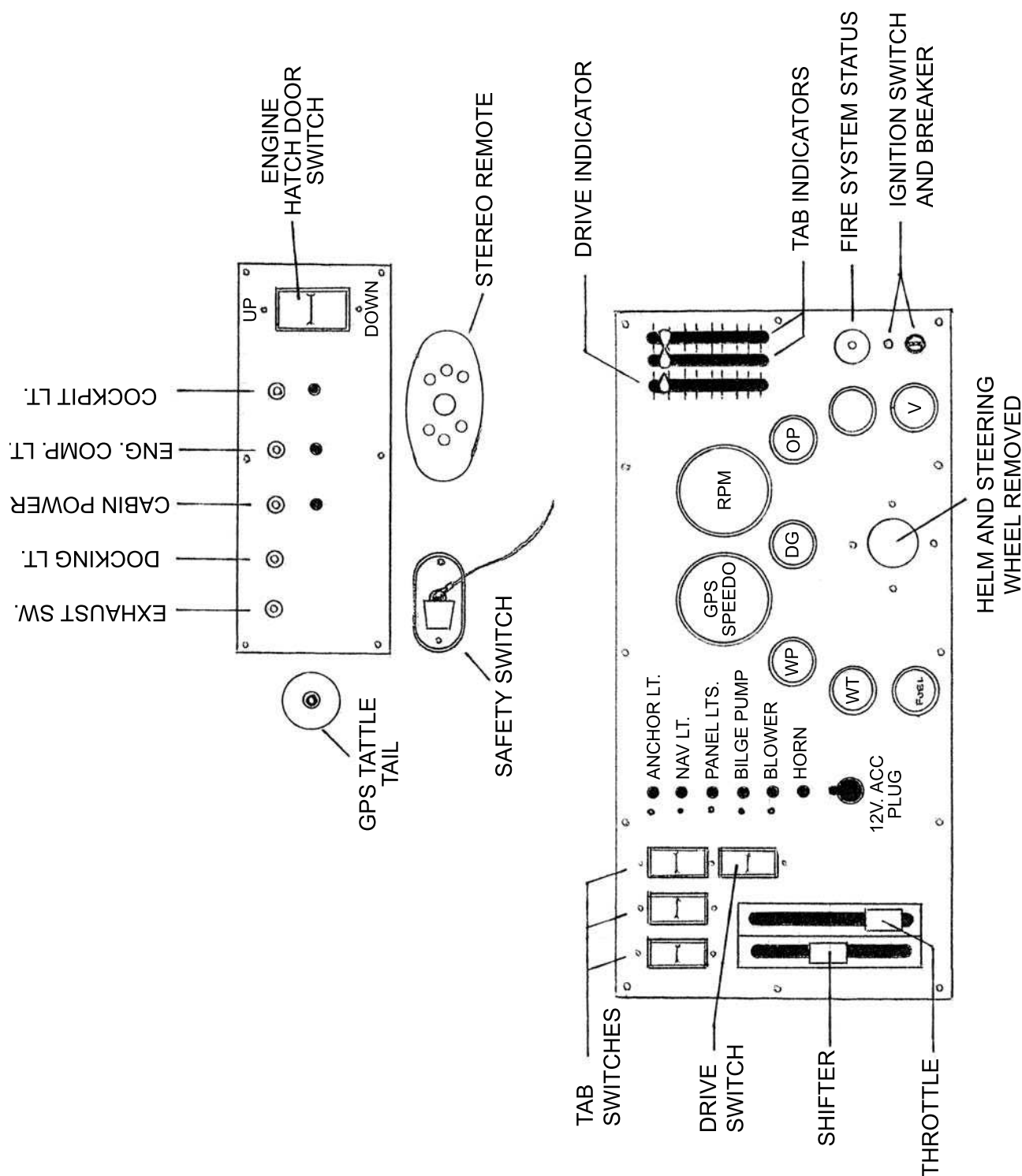




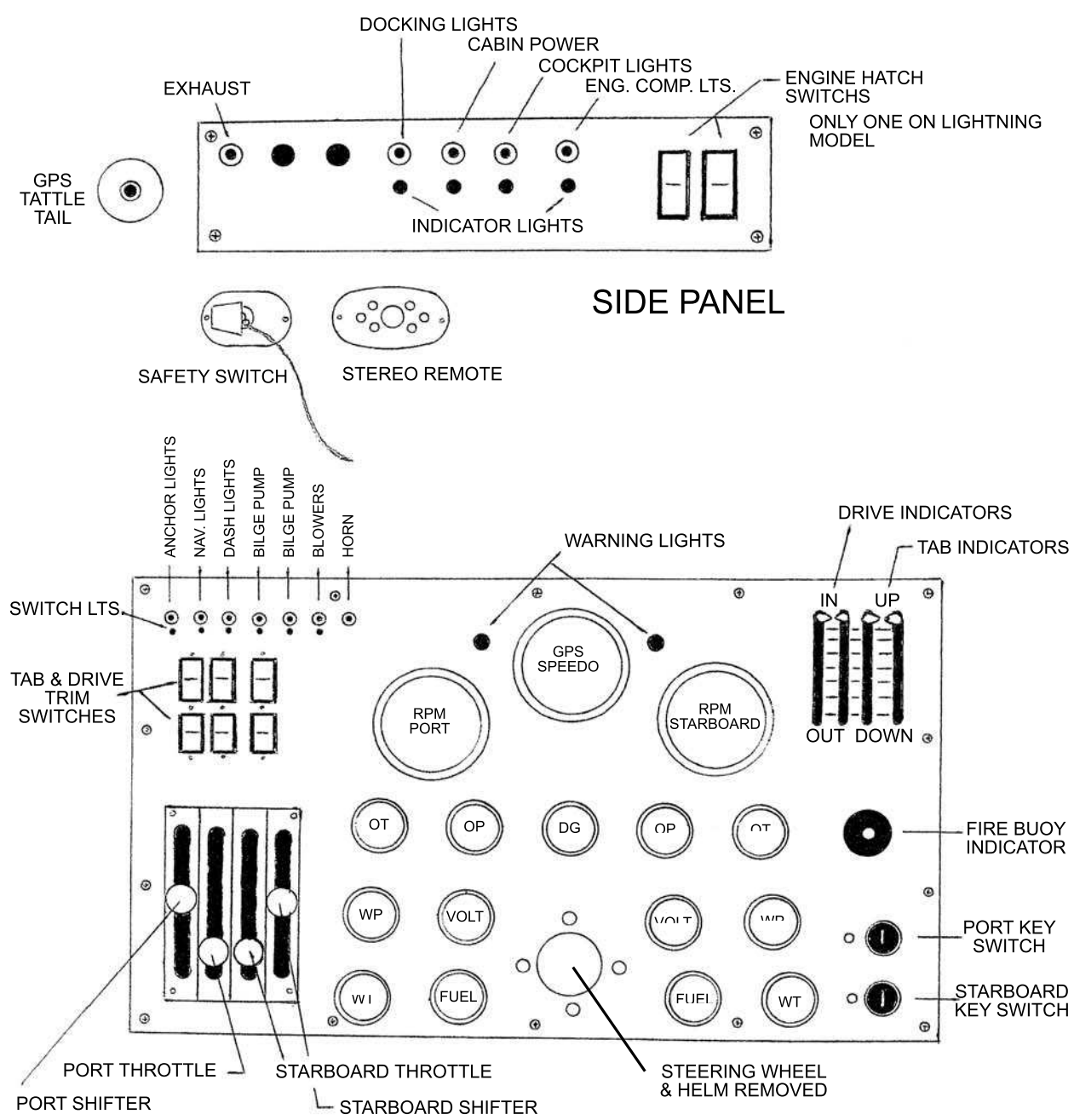
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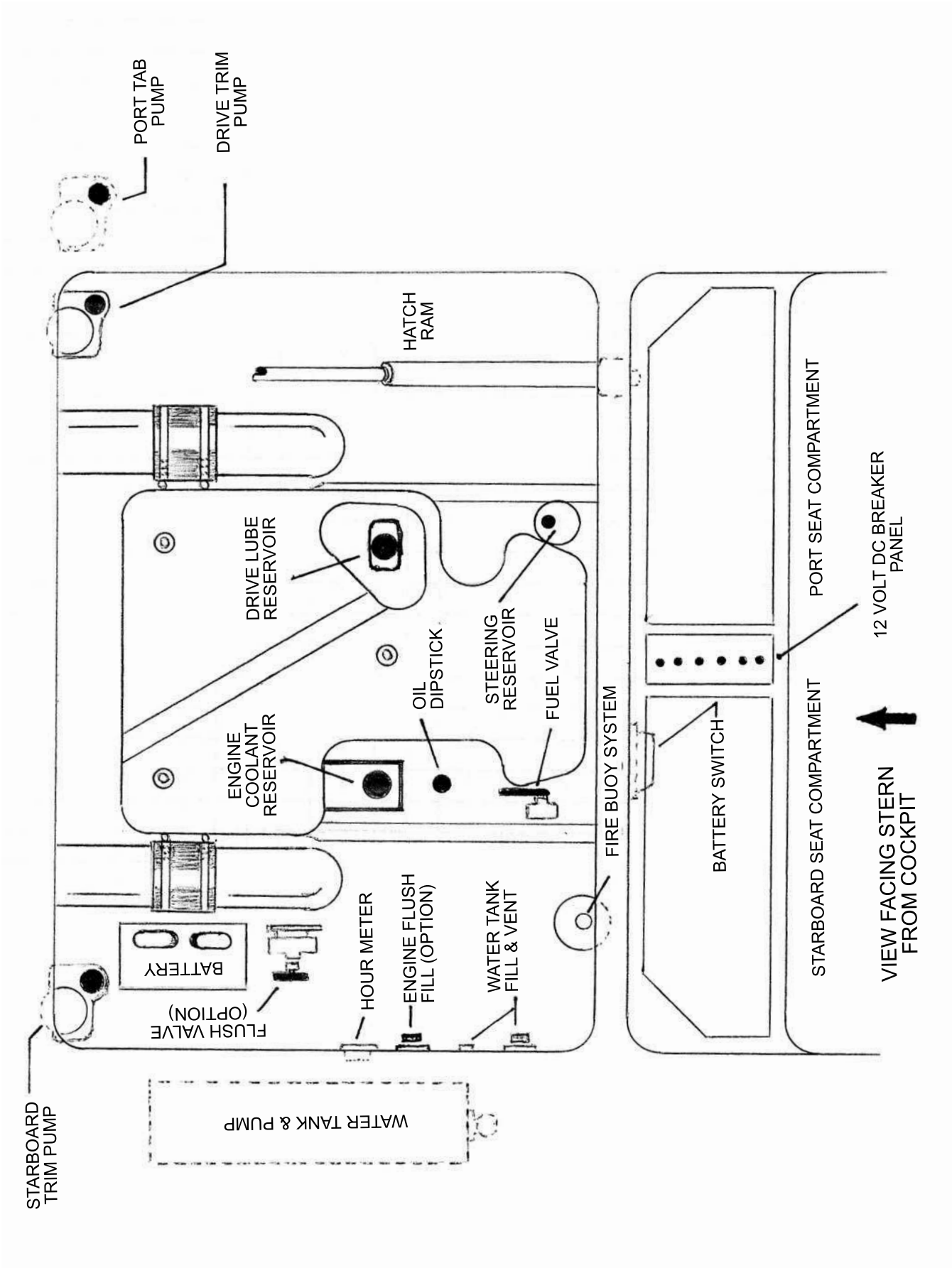
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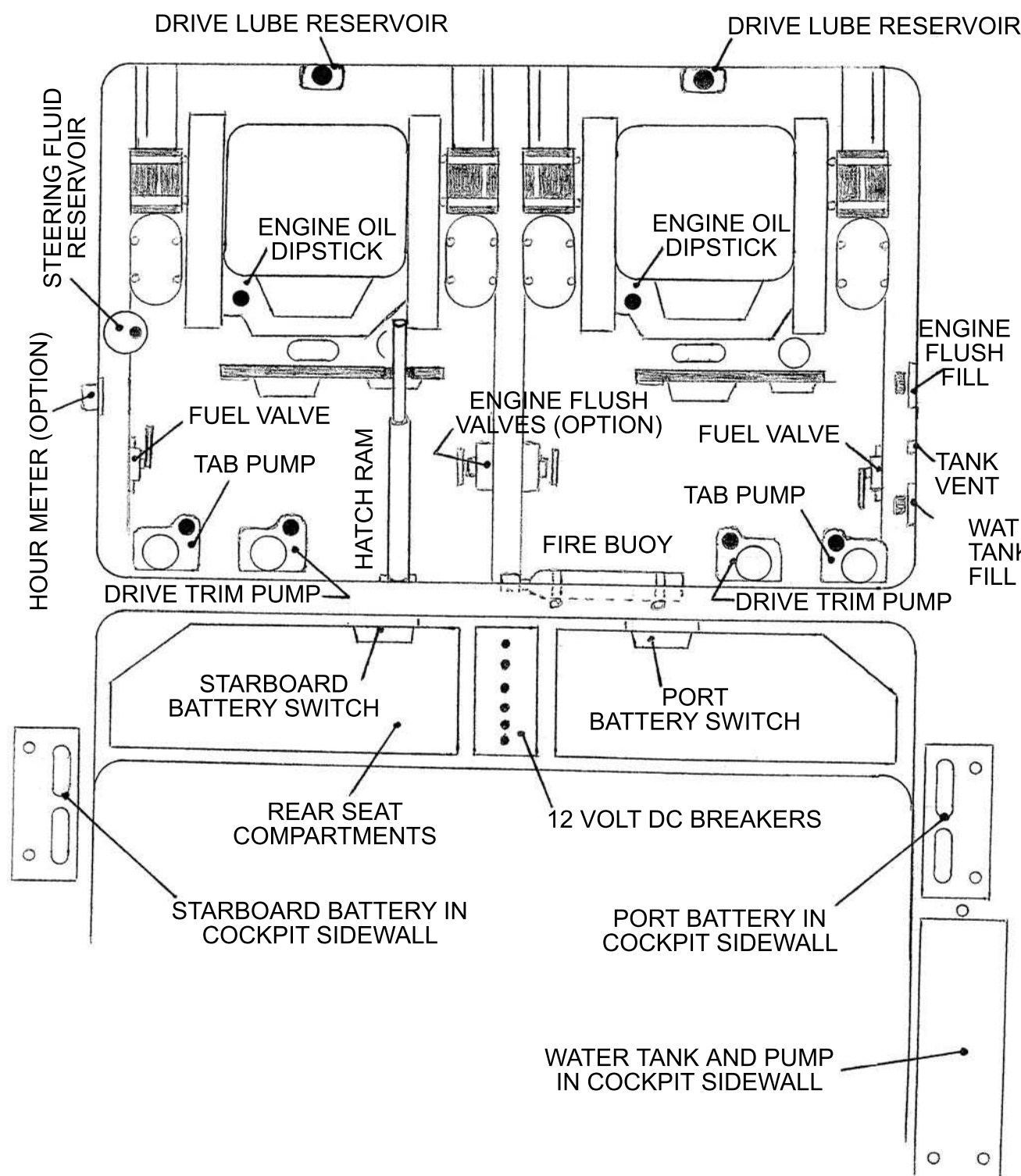
# Quick Reference Drawing



# Quick Reference Drawing

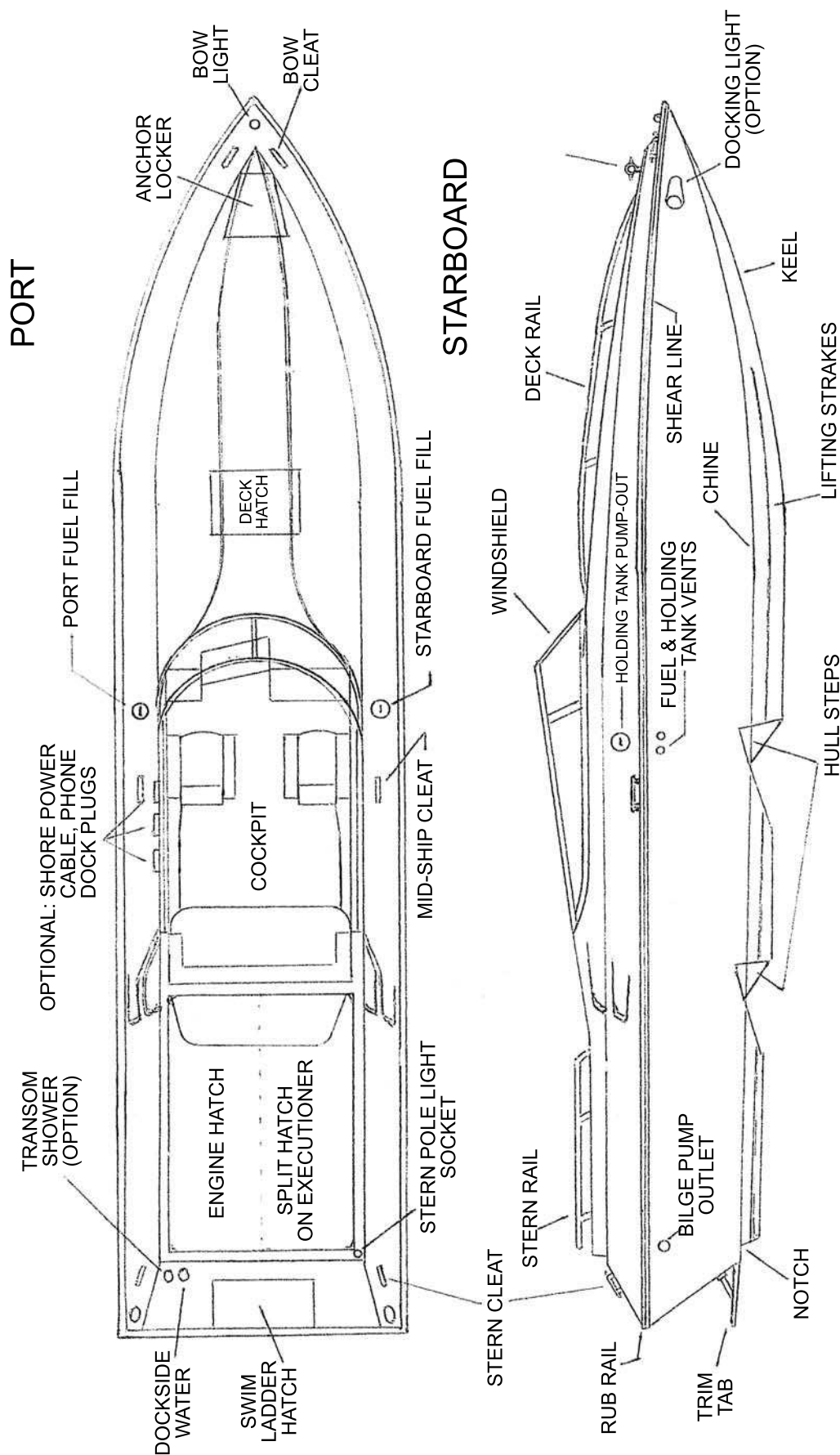


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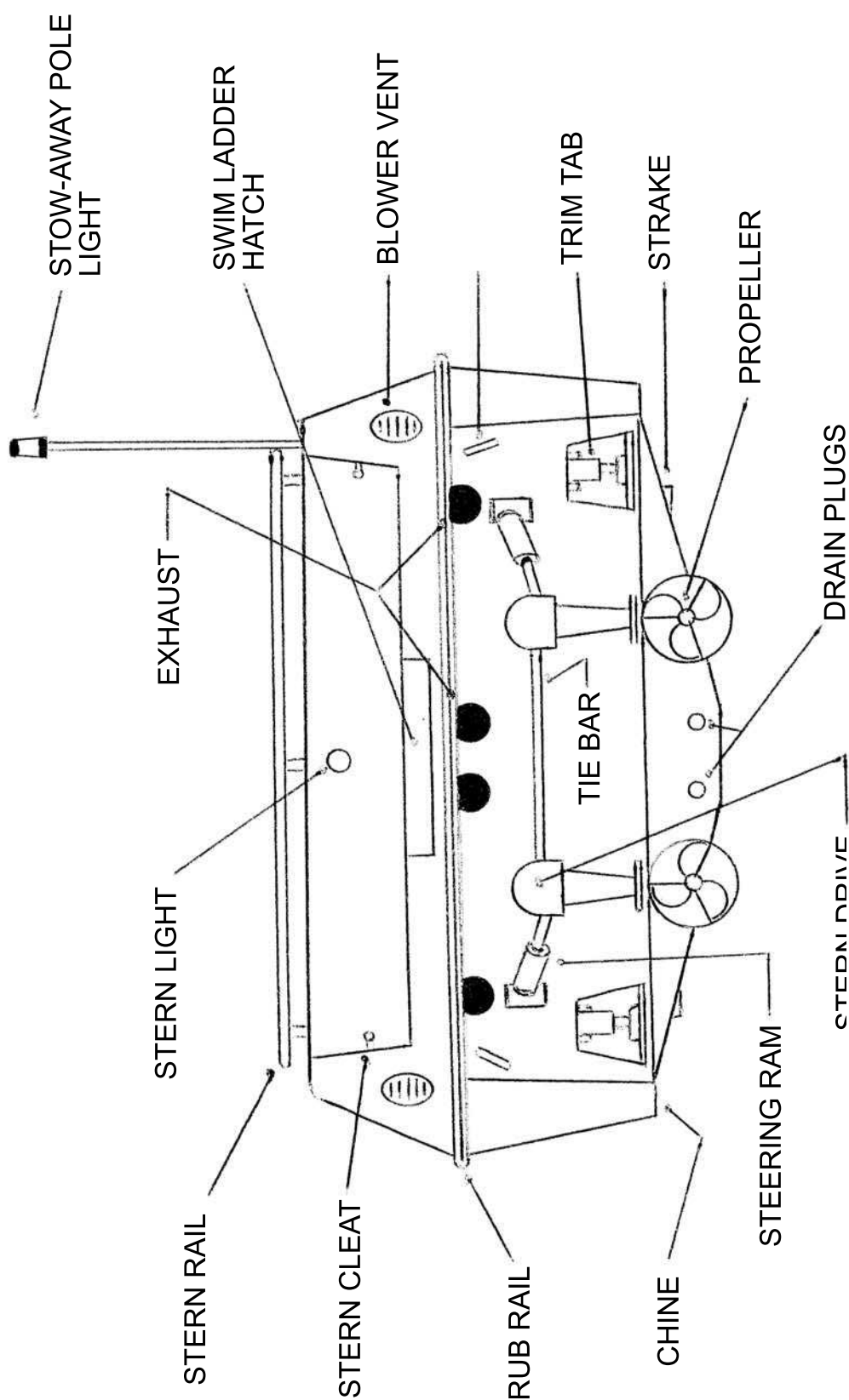


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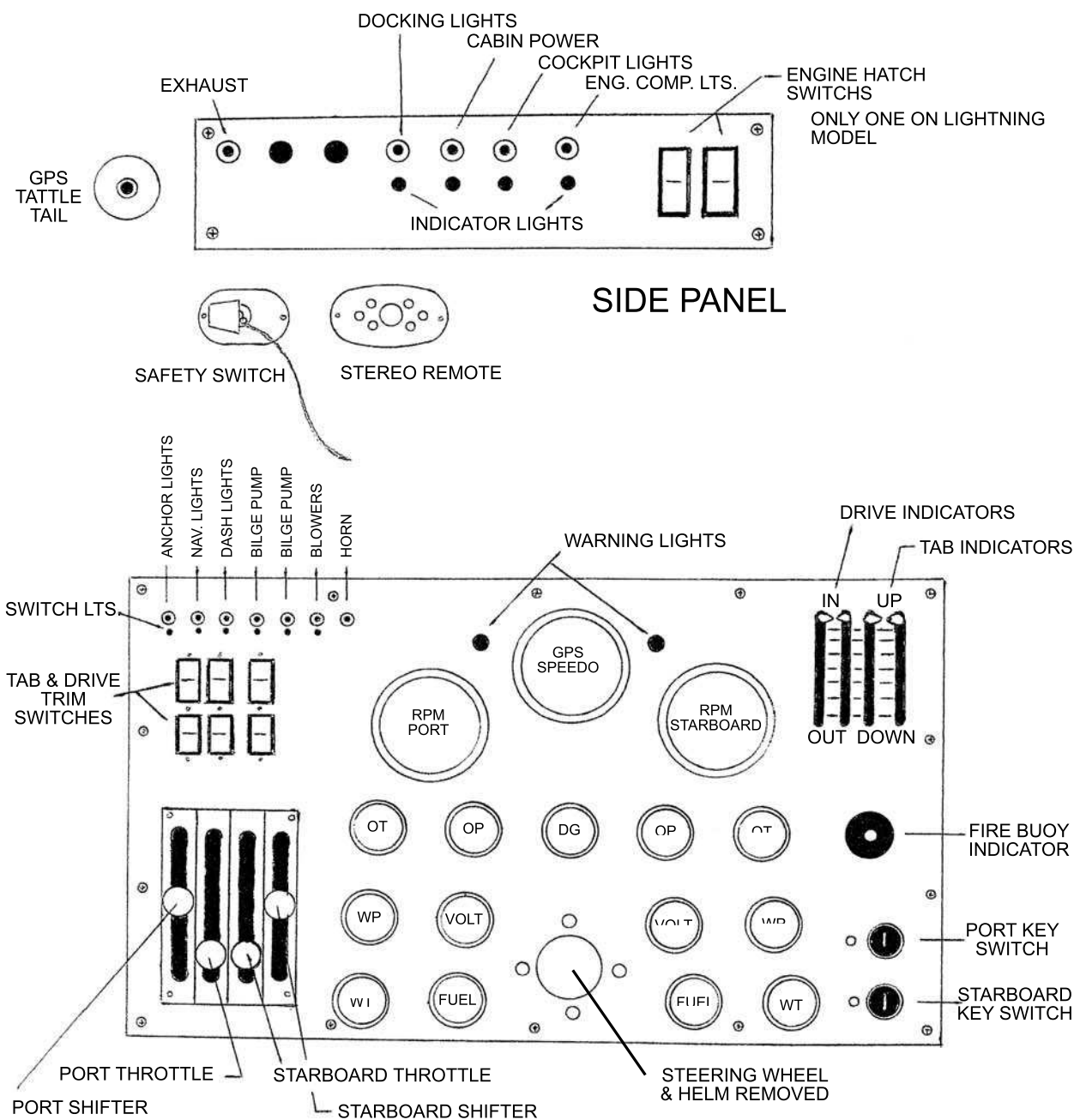




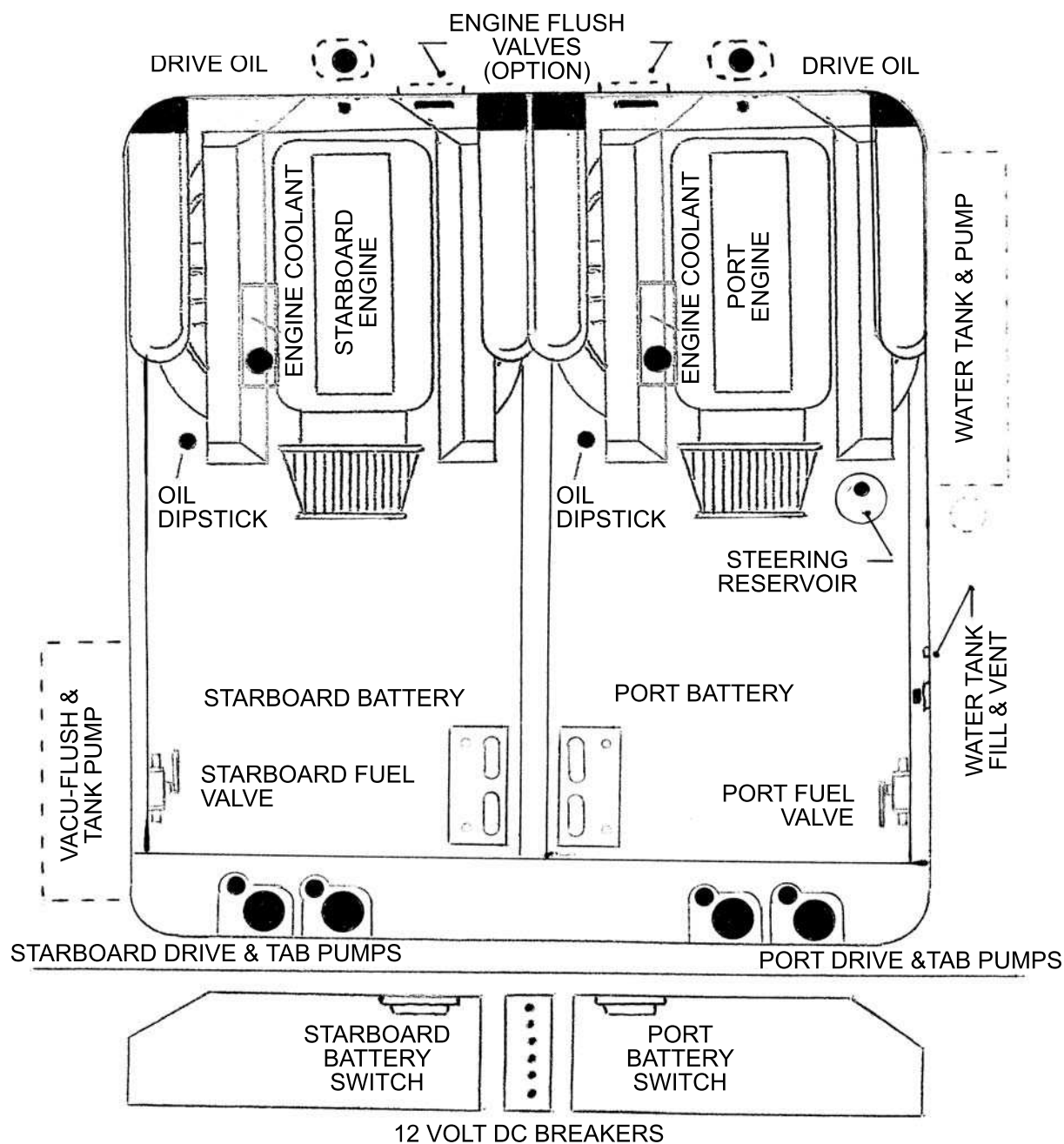
# Quick Reference Drawing



# Quick Reference Drawing

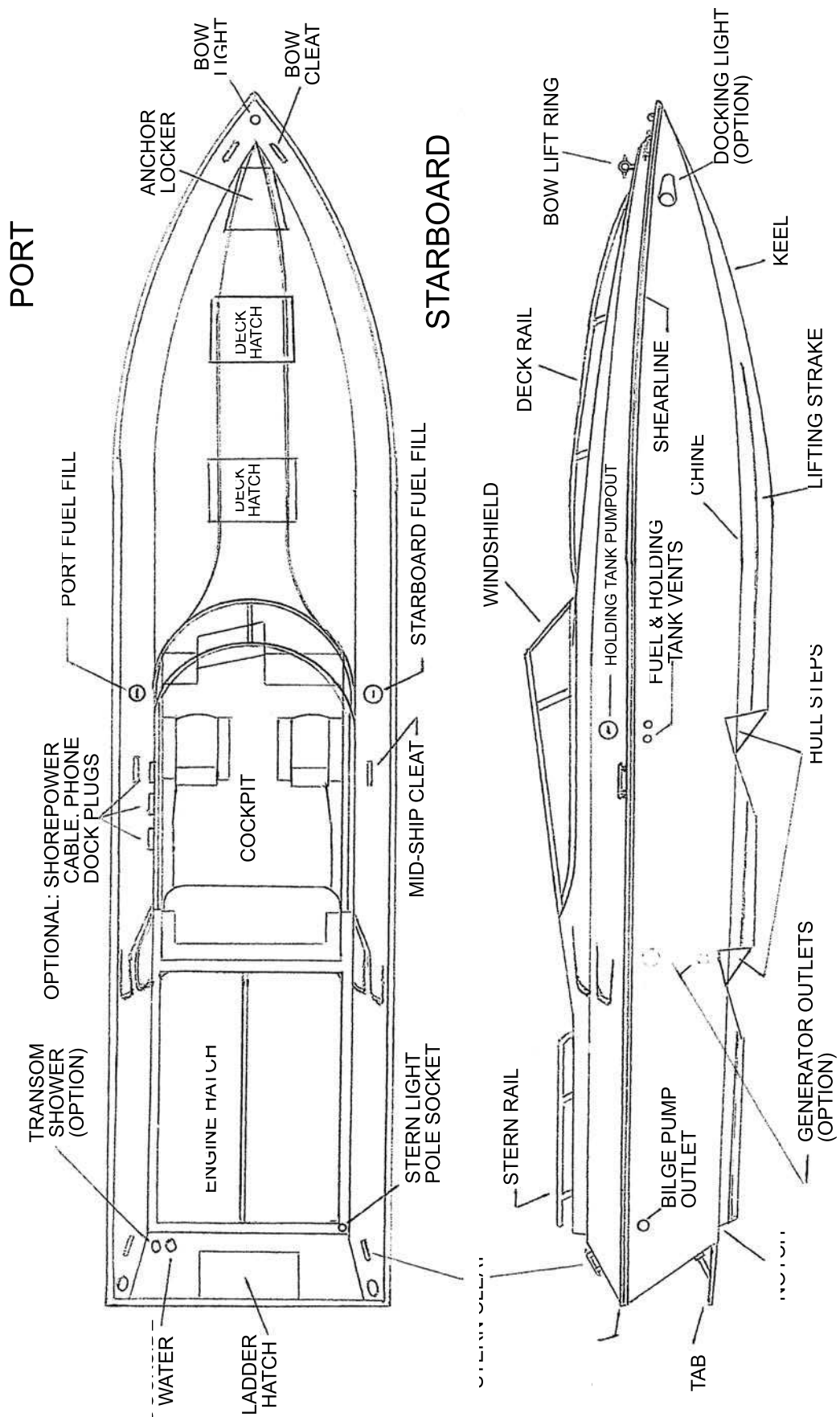


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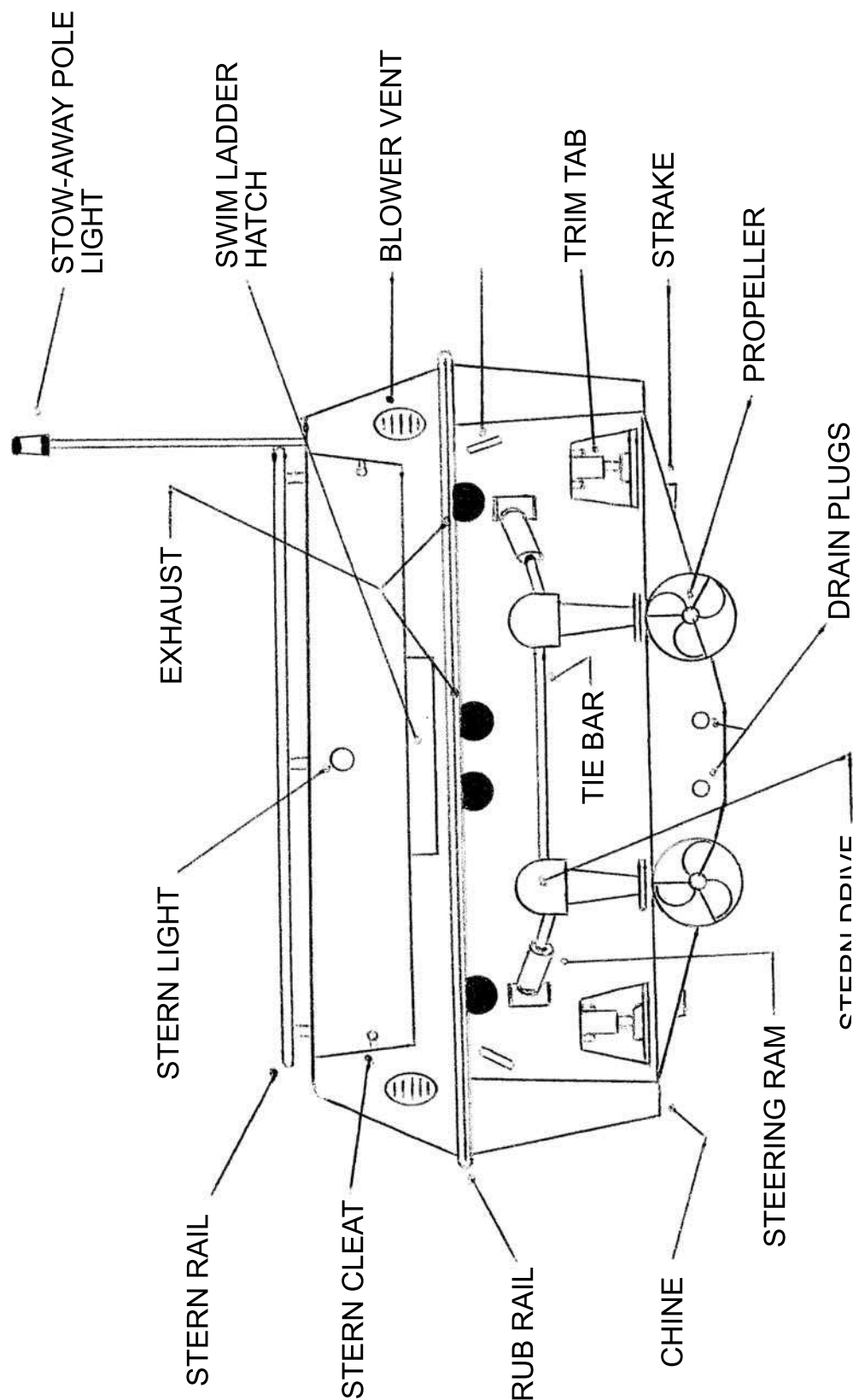


35 & 38 Lightning  
Side by Side

# Quick Reference Drawing

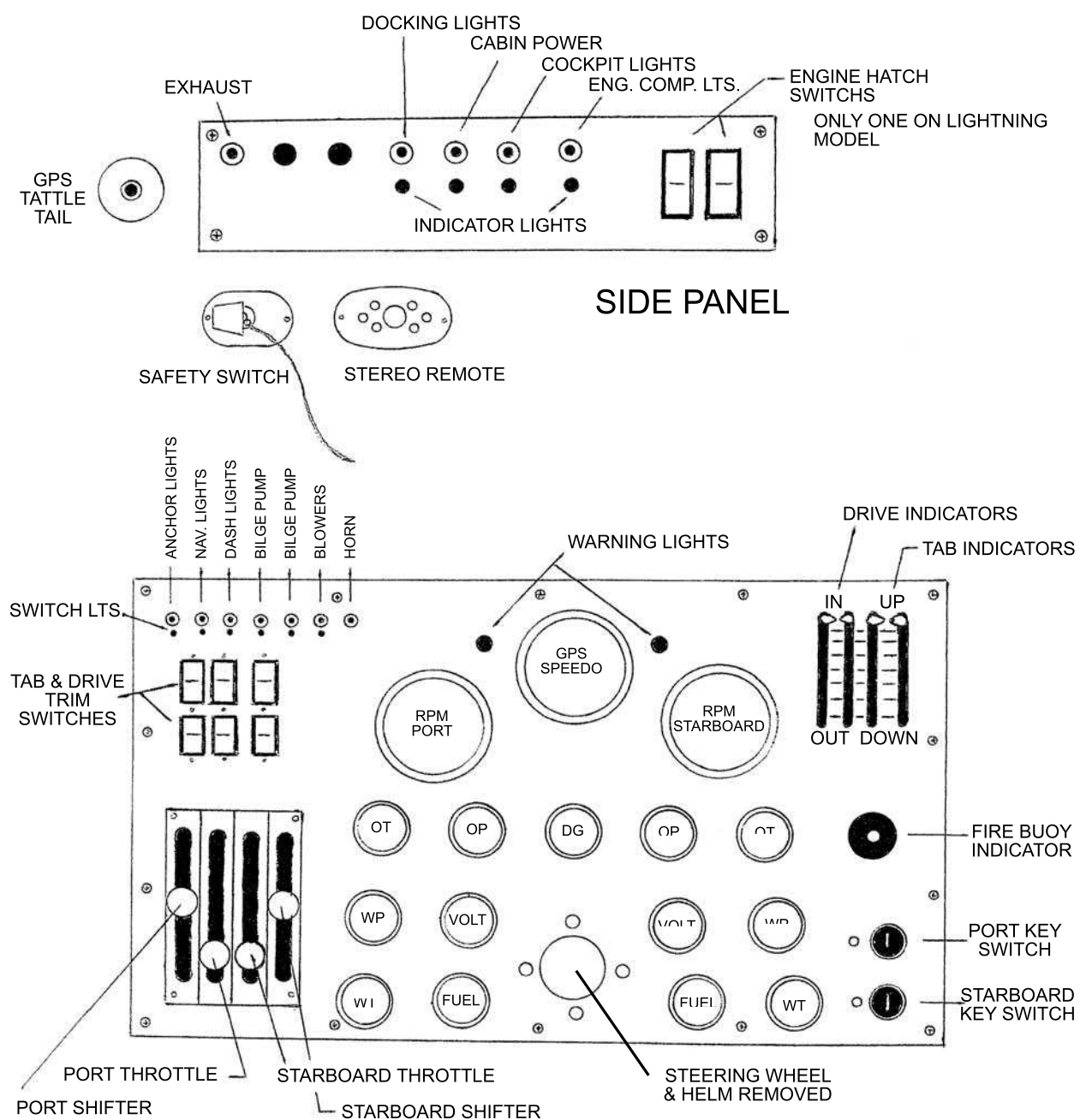


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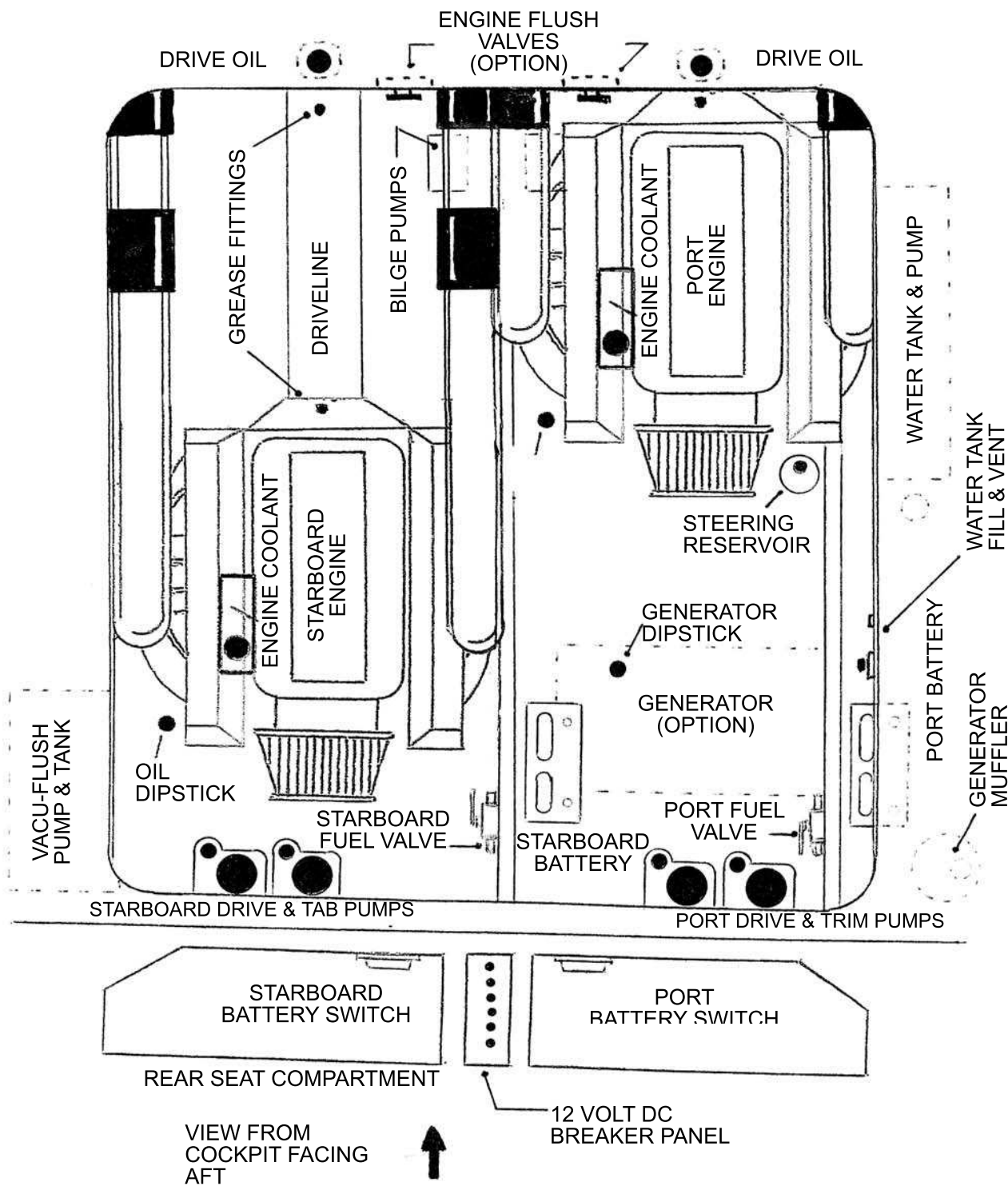


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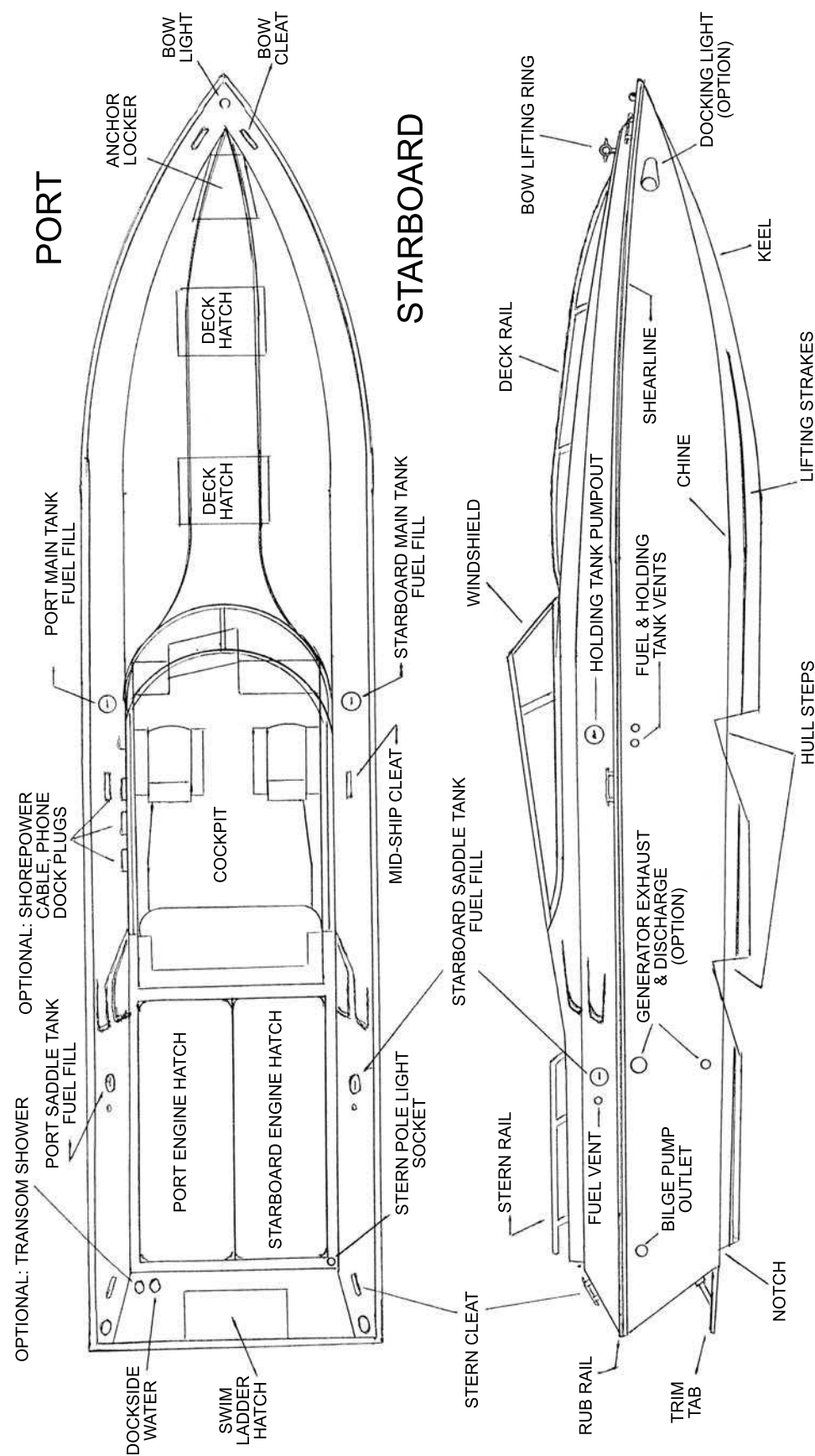




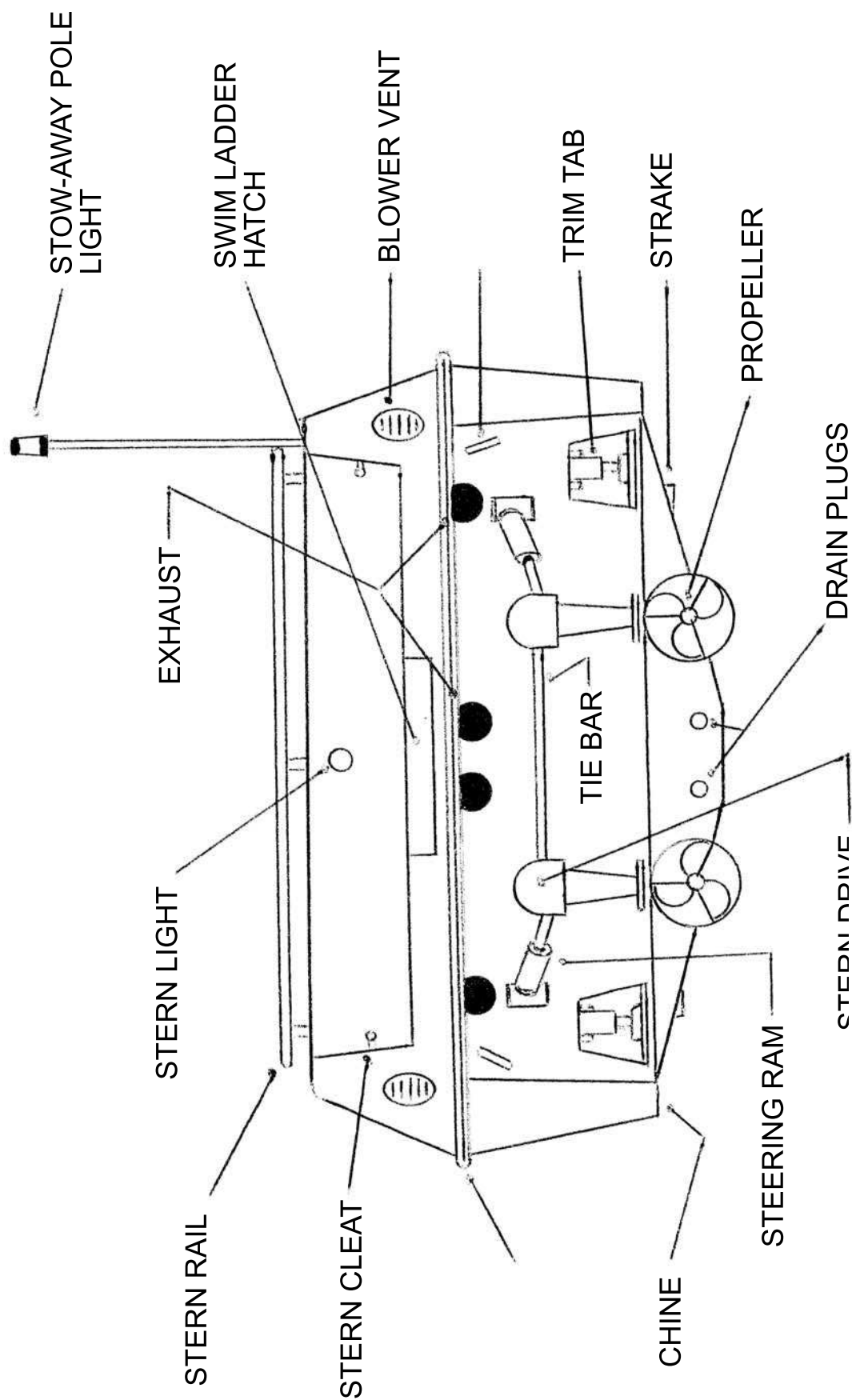
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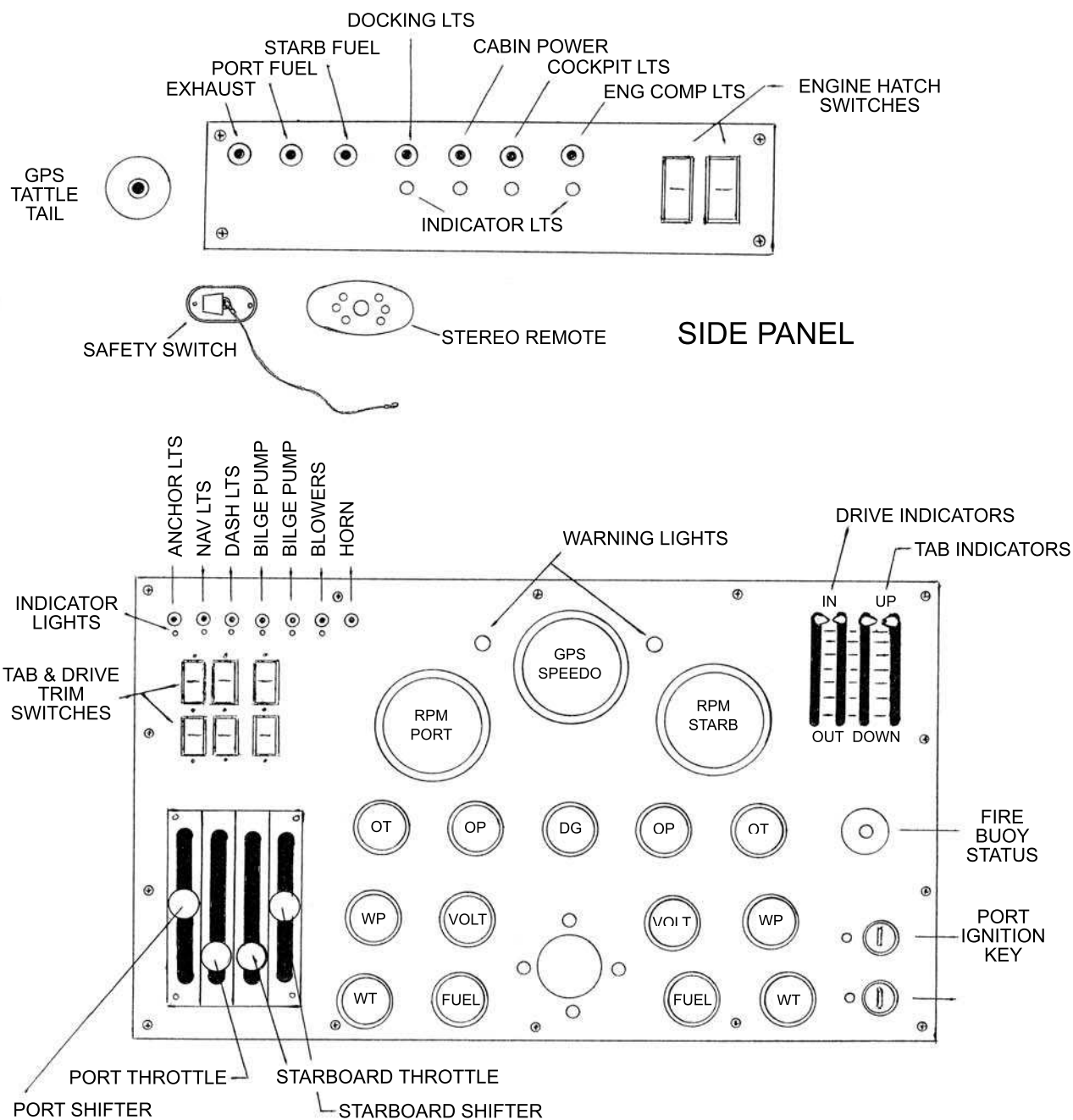
# Quick Reference Drawing



# Quick Reference Drawing

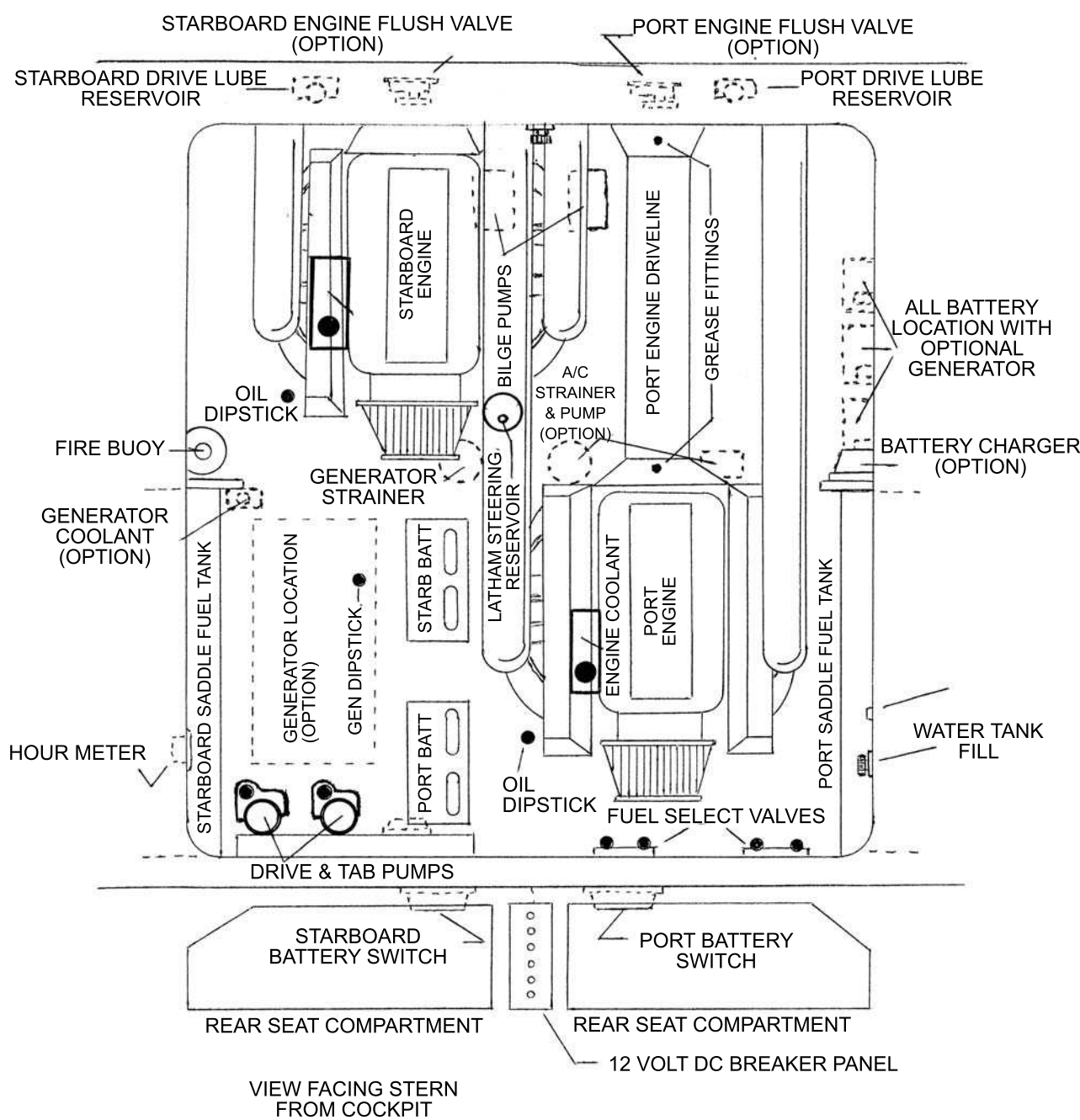


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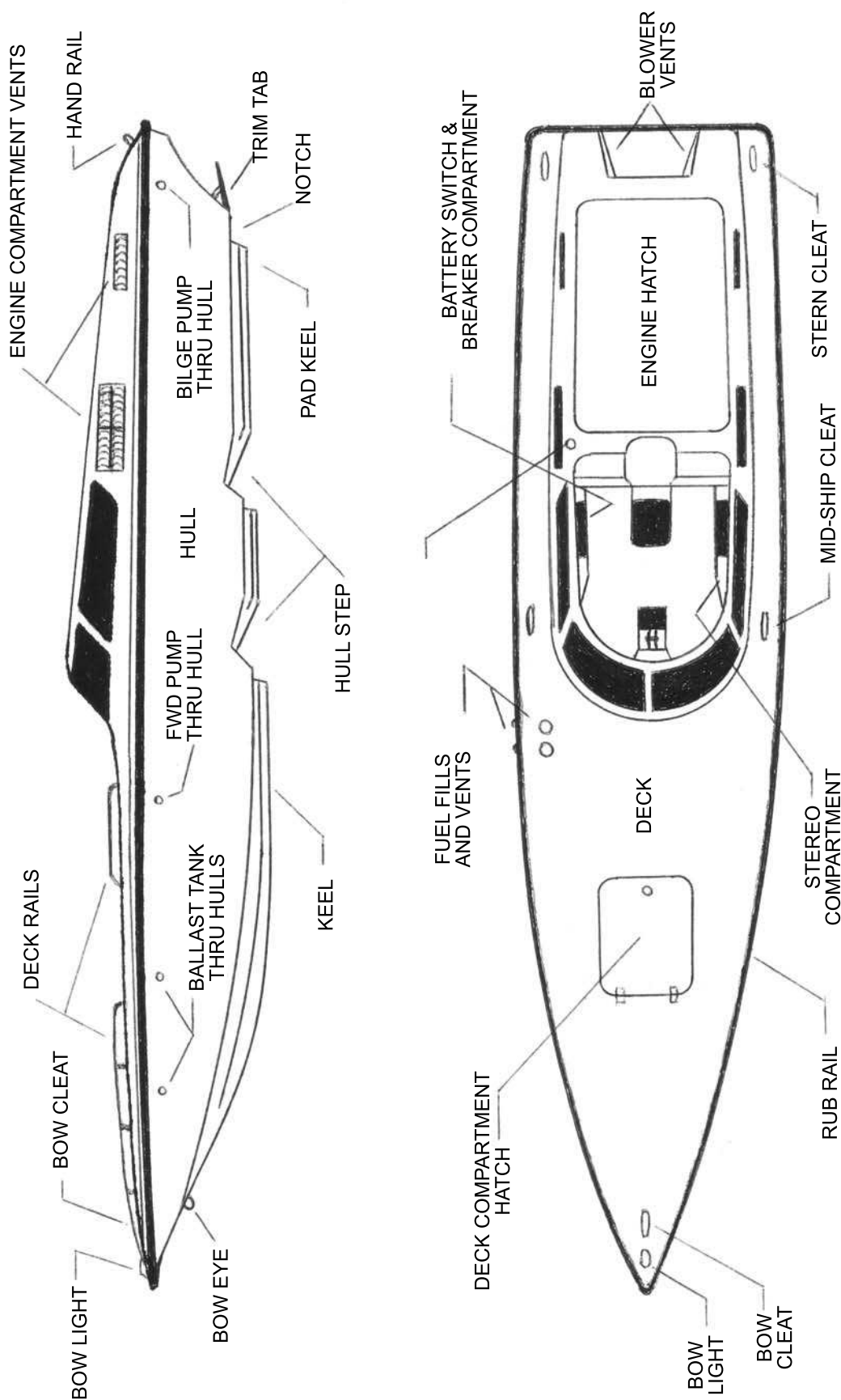




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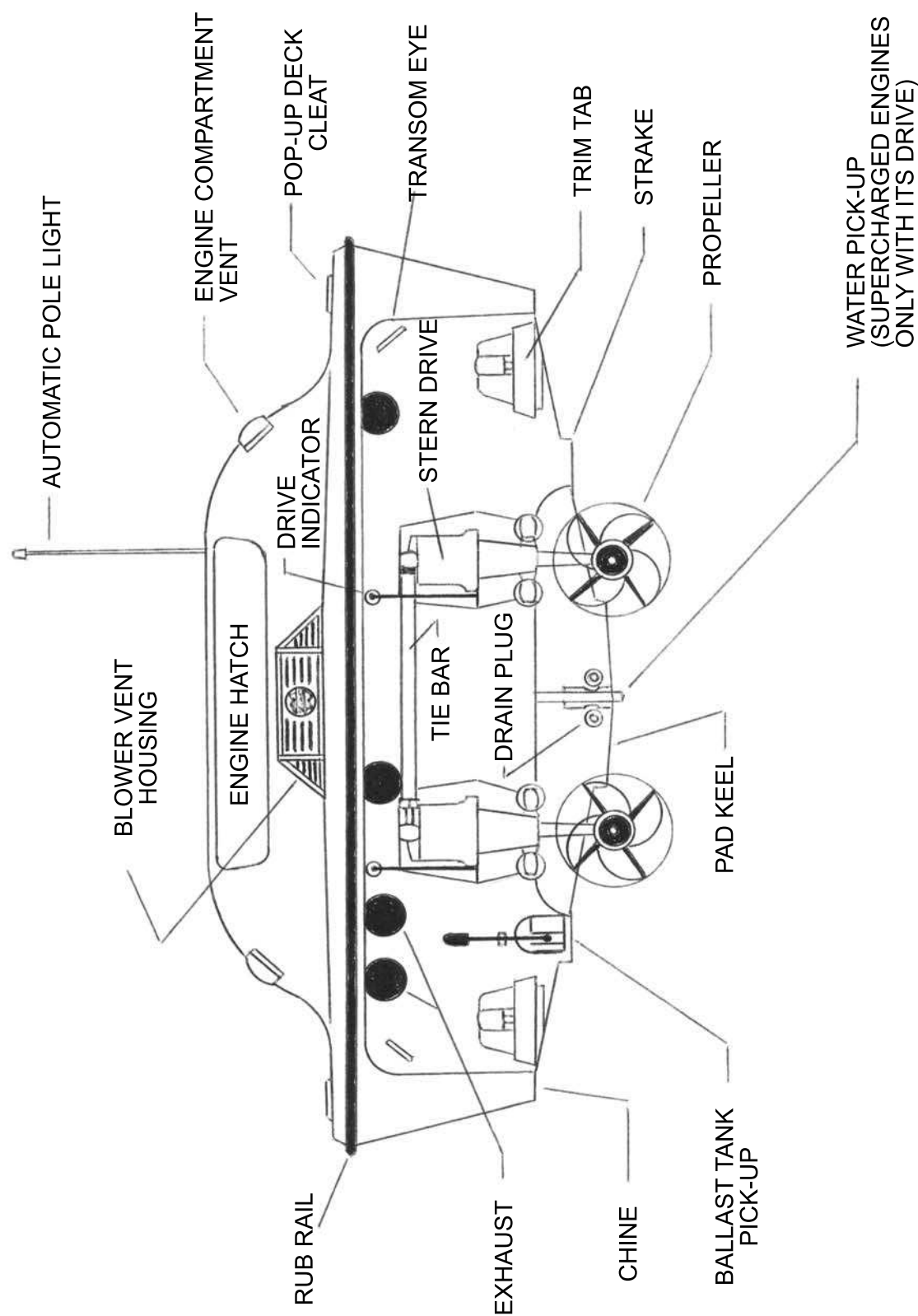


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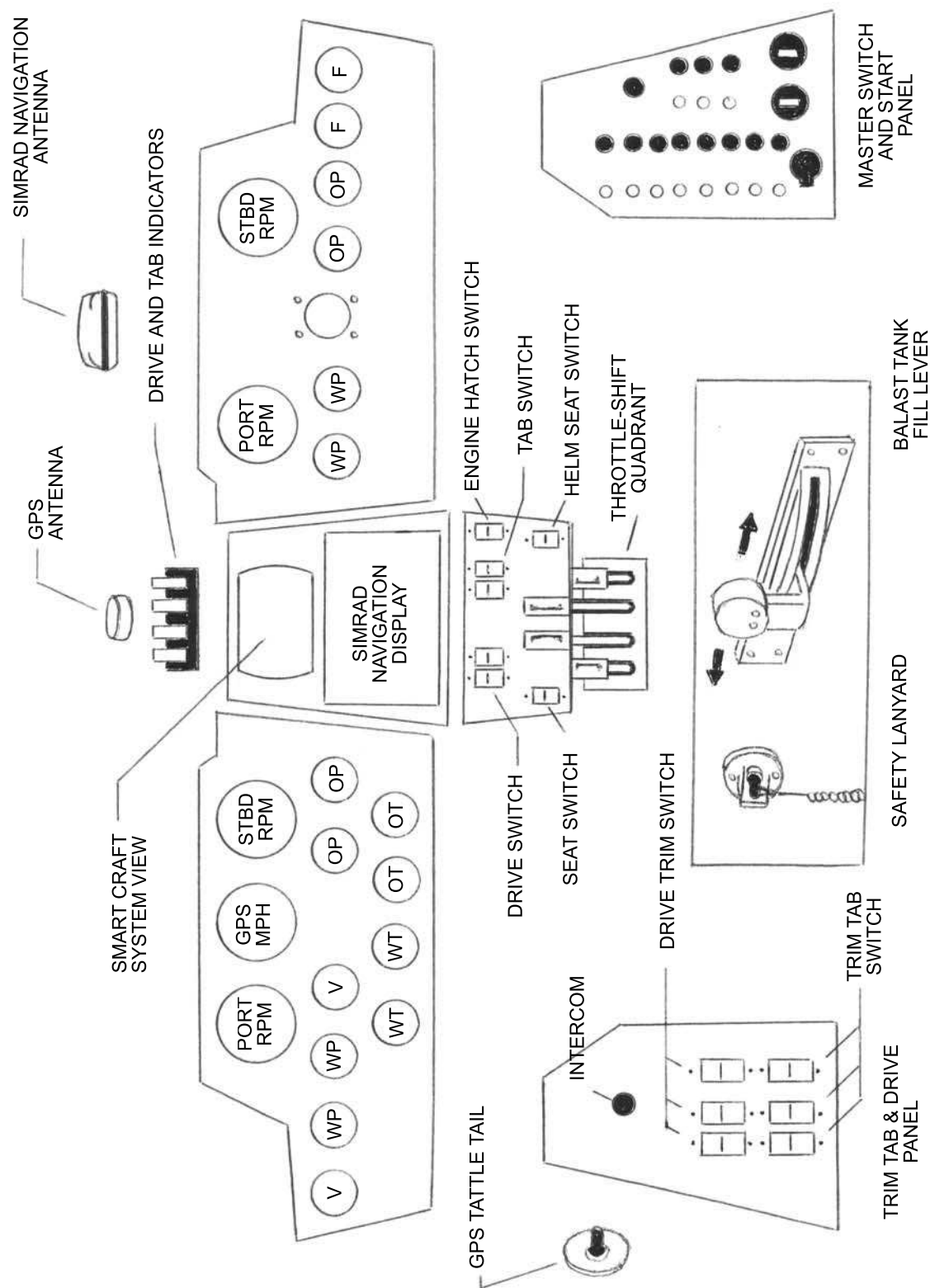




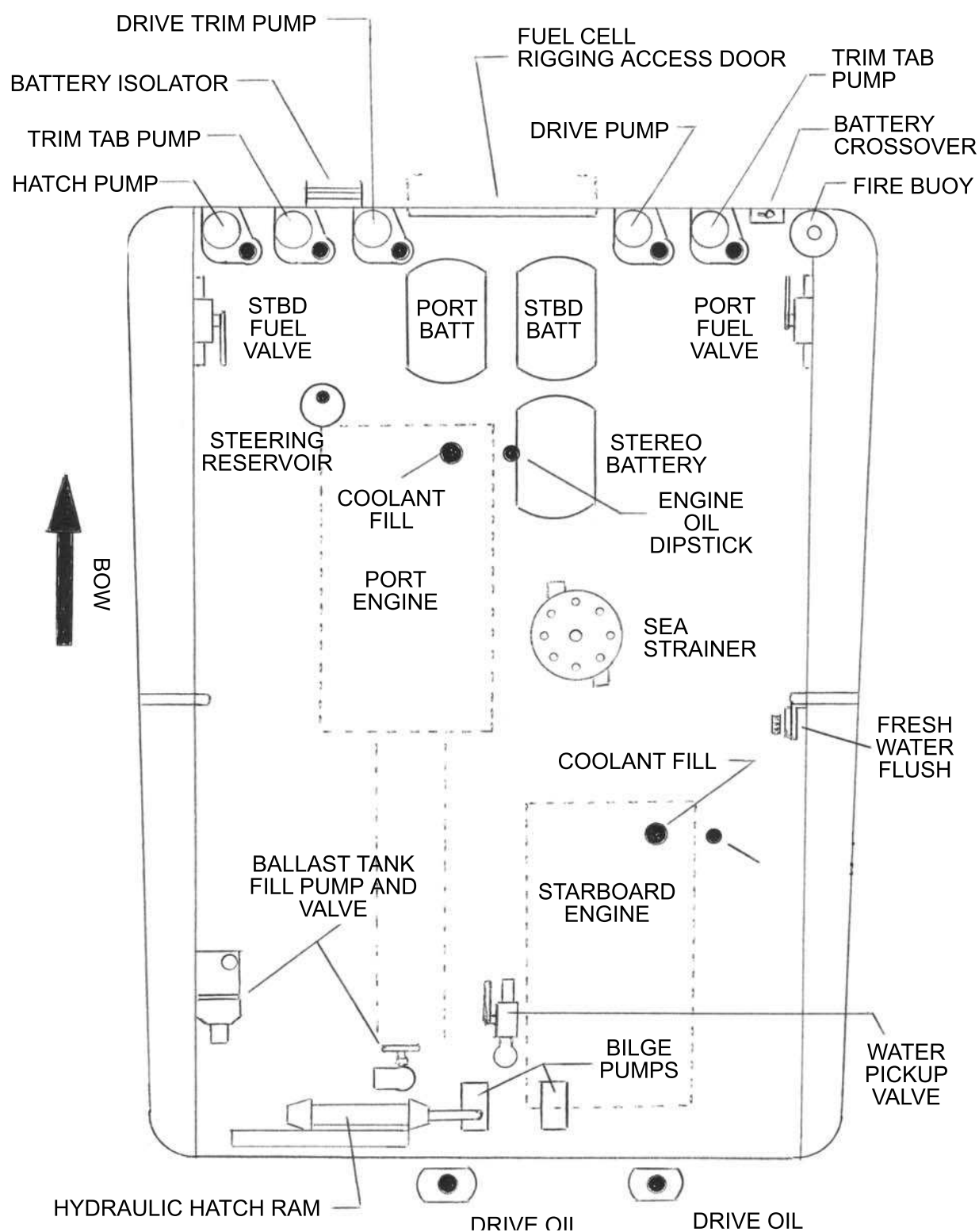
# Quick Reference Drawing



# Quick Reference Drawing

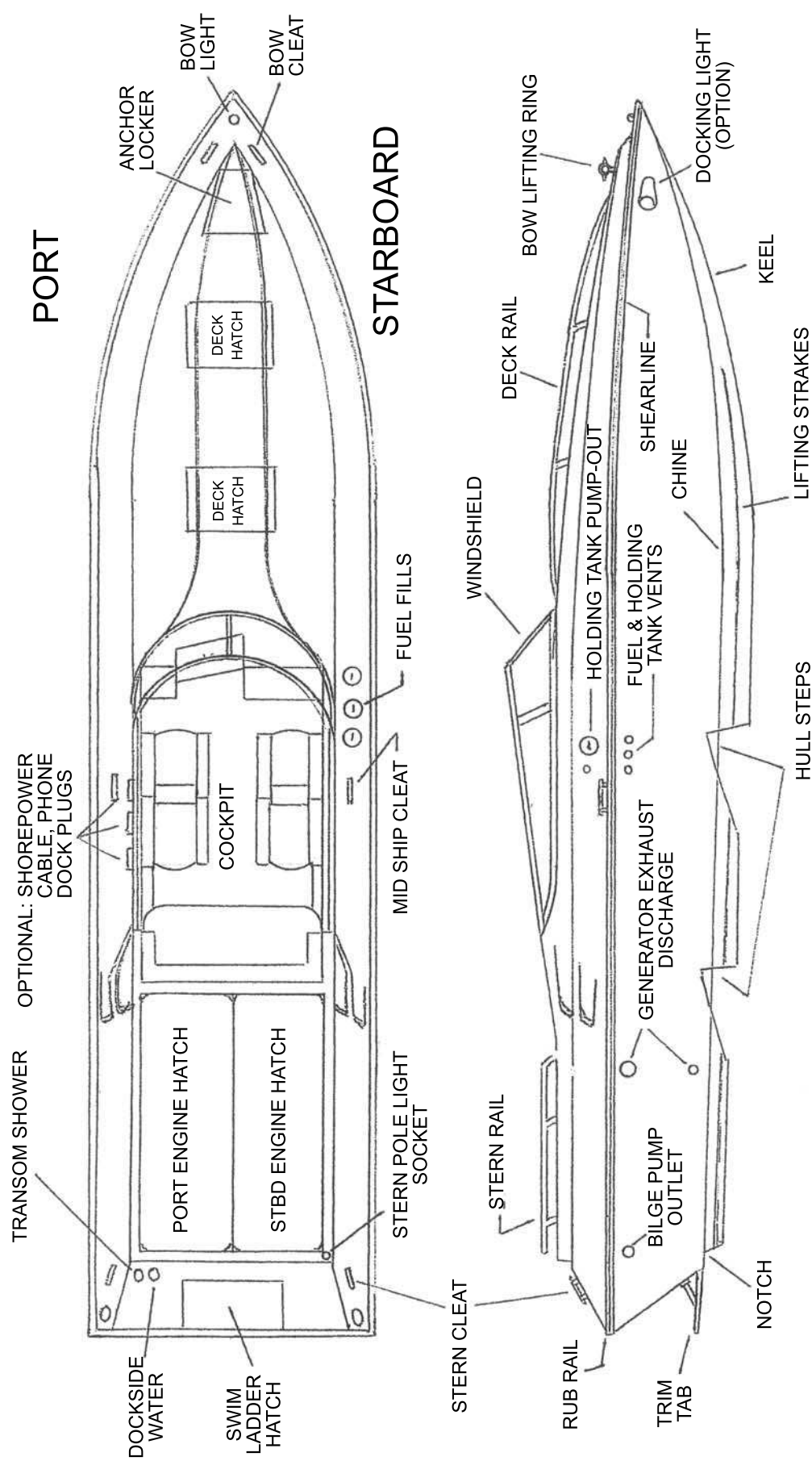


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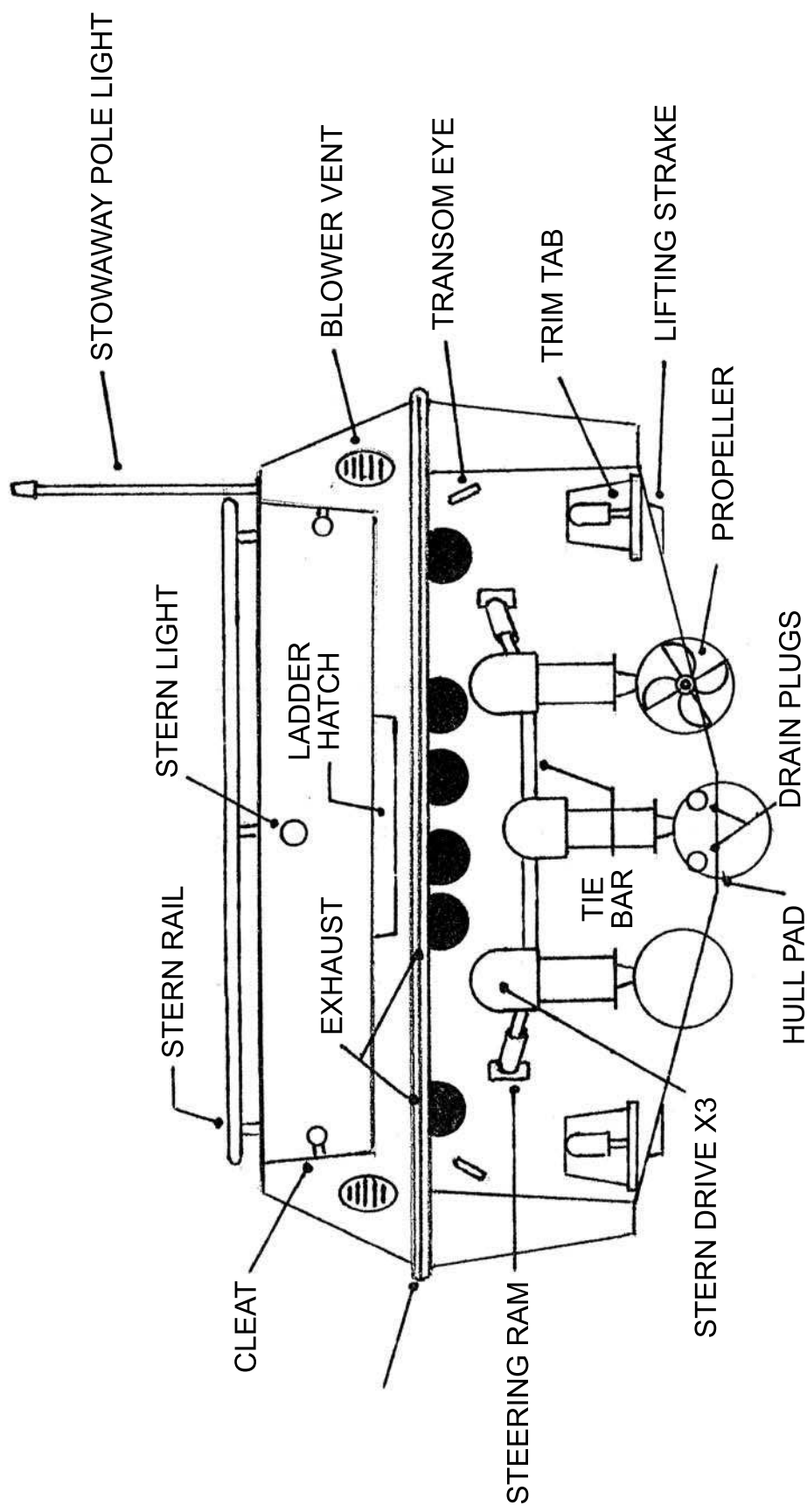


42 Poker Run Edition

# Quick Reference Drawing

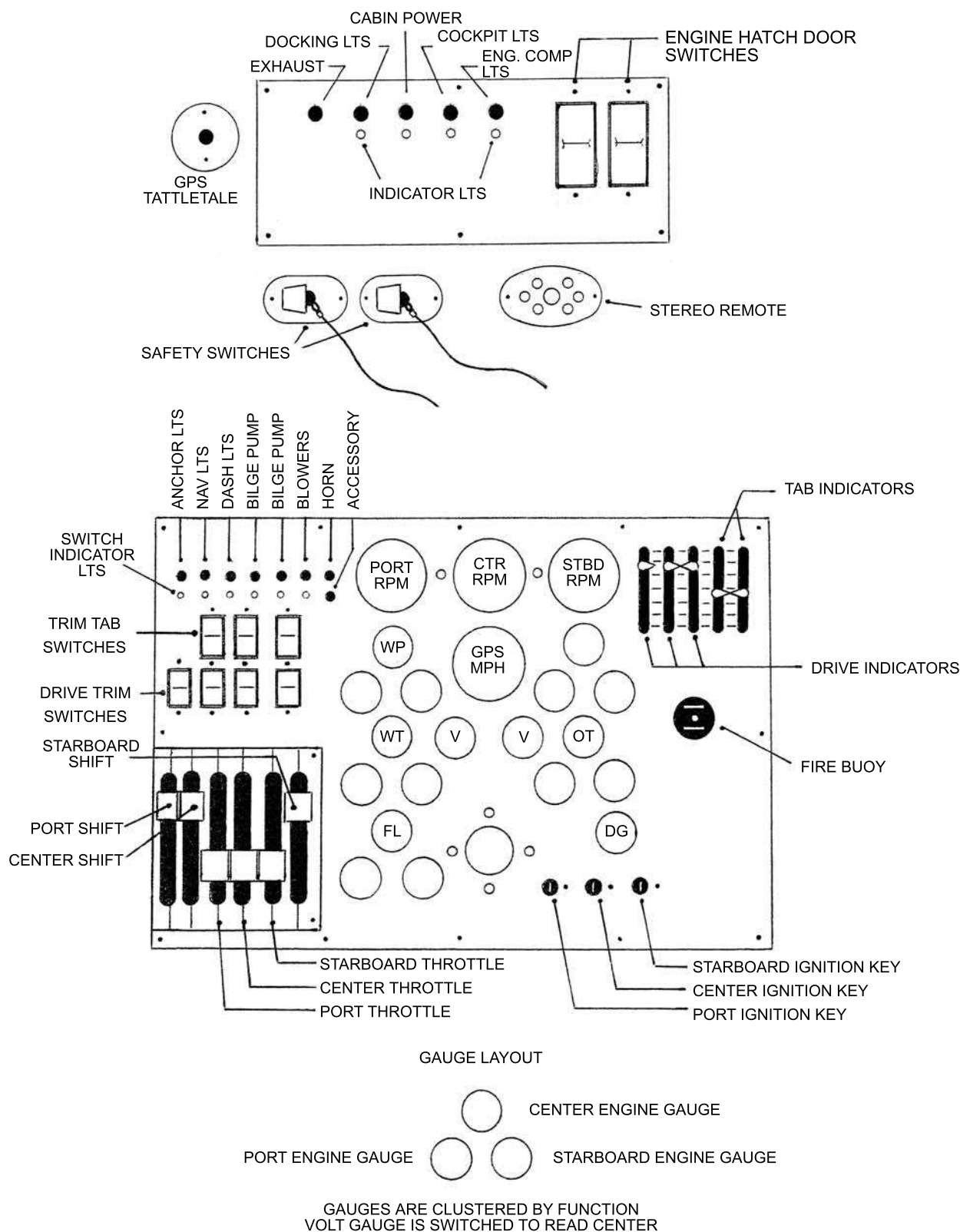


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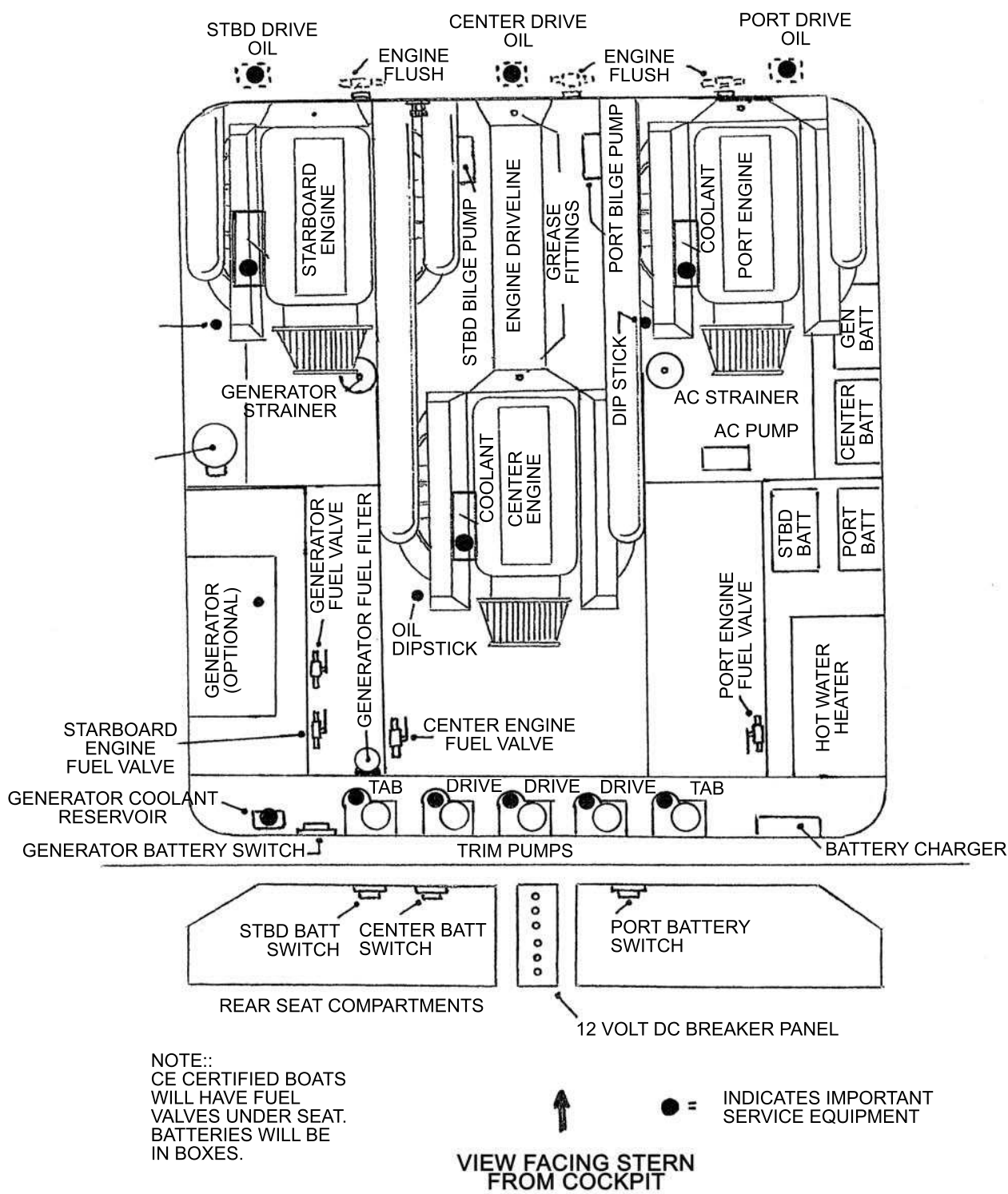


# Quick Reference Drawing





# Quick Reference Drawing



## **Equipment, Tools, Safety Equipment and Spare Items**

These items are recommended to carry on your vessel for maintenance or minor trouble. Safety equipment for some items is required by law.

### **Tool Chest**

- Screwdriver (Phillips & Flat blade)
- Pliers (Regular, Channel Loc, Vice Grip)
- Wrench Set (Open End, Box, Allen, Adjustable, Propeller Wrench)
- Socket Set (Metric & Standard)
- Hammer
- Jumper Cables (Standard Jumper plug cables provided with vessel)
- Electrical Tape
- Assorted Fasteners (Cable Ties, Electrical Connectors, Crimping tool, Screws, Nuts, Etc.)
- Grease Gun and Oils

### **Safety Equipment**

- Fire Extinguishers (Type ABC)
- Personal Flotation Devices (Life jackets, 1 per person)
- Throwable Flotation Device
- Signaling Device (Ships Bell or Horn)
- VHF Radio
- First Aid Kit
- Flashlight and Batteries
- Anchor and Line
- Dock Lines
- Appropriate Charts for your Cruising Area

### **Miscellaneous Items**

- Spare Propellers (Thrust washers, Prop nuts and Lock washers)
- Extra Engine Belts
- Engine Oil (Recommended mfg weights)
- Fuel and Oil Filters
- Replacement Light Bulbs
- Extra Spark Plugs
- Assorted Fuses

**We recommend that you strongly consider membership in a national towing service. This can dramatically reduce your costs of any towing service if it is ever needed on your vessel.**

# Pre-Boating Checks

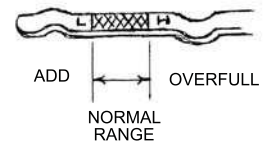
See Quick Reference Drawings for locating equipment and accessories

Before launching vessel, perform a visual inspection. Walk around, check hull and deck for any damage from trailer or docking, from the road or from your last trip. Check for damaged propellers and oil leaks from lower units, steering hoses, steering rams and trim tabs. Do not launch or run the vessel until questionable damage is repaired.

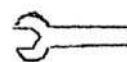
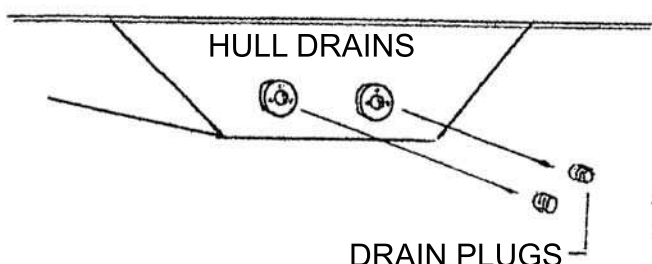
If boating at night, check navigation lights for proper operation.

On Sterndrive powered boats:

- ✓ Open engine hatch and visually check bilge floor for leaking fluids, oil, and coolant or steering fluid. Find the source of any leak and repair as necessary.
- ✓ Check drive and tab pump fluid levels, fill as necessary.
- ✓ Check engine fluid levels (crankcase oil level, coolant if the engine is closed-water cooled, power steering fluid), and fill as necessary.
- ✓ Check for bad hoses or belts and replace as necessary.
- ✓ Check blower and bilge pump operation.
- ✓ Check below water line. Check hoses at pickups and thru hulls for looseness or damage. Replace, repair or tighten as needed.
- ✓ Check water tanks (fill for trip). Empty holding tank for trip.



Make sure hull drain plug(s) are installed and tight, (located at the bottom of boat hull under the notch at the keel). **FAILURE TO PROPERLY INSTALL THE DRAIN PLUG(S) MAY RESULT IN THE BOAT SINKING.**



ADJUSTABLE OR  
9/16" WRENCH

# Pre-Boating Checks

Now, you can safely launch your vessel and tie it to the dock. Perform the following in-water checks prior to departure:

Engine hatch open, check for any water leaks. Locate source of leak, repair or have repaired as necessary. (Note: bilge pumps will handle some water automatically or manually.)



## Fuel System

Everyone who owns or operates a boat must practice fire safety. Each year, boat fires and explosions injure hundreds of individuals and cause millions of dollars in property damage. Many of these accidents can be prevented.

Be alert to your boat's fuel system. Over time, fuel fittings and hoses wear out. Inspect these fittings and hoses regularly, especially near the engine where heat and vibration can accelerate deterioration.

- ☐ Schedule regular engine and exhaust system maintenance inspections by experienced and trained technicians.
- ☐ Inspect fuel systems annually, particularly hoses, connections and tank surfaces. Use only USCG-approved fuel hoses.
- ☐ Before fueling, shut down engines and auxiliary equipment and all electrical equipment. Also, close hatches and doors on board.
- ☐ Do not allow equipment or gear to contact fuel system components. Monitor side storage areas where fill and vent hoses are located.
- ☐ Do not store portable fuel tanks in enclosed areas, including engine room compartment (even though it may be "ventilated").
- ☐ Ensure that all blowers and hoses are operational and intact. Verify good airflow at the vent on the boat.
- ☐ Take a boating safety course and learn the correct type and use of a fire extinguisher aboard the boat. Have the appropriate fire extinguisher on board at all times.
- ☐ Make sure your passengers know the location of all fire extinguishers on board.

# Fueling

## Fueling Procedure as Follows:

Refer to the owner's manual for your engines to determine the appropriate fuel grade for use in your boat.

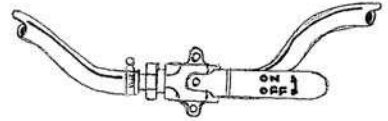
Close all fuel valves and shut off battery switches before fueling.

Do not smoke.

Fill fuel tanks desired through proper fills. Tanks are as full as possible if fuel comes out of the vents. (Note, hose off boat of spilled fuel, and let the boat air out as necessary to eliminate any fuel vapors.)

Open desired valve(s) for tank(s) you wish to run. Check bilge by smell for leaks or fumes. Turn off valve(s) if any leaks are present, repair or have repaired immediately. See engine compartment reference drawing for location.

Operate the bilge blowers for at least 4 minutes before starting your inboard or sterndrive engine.



FUEL VALVE

## 42 Lightning Fuel Tank Switches:

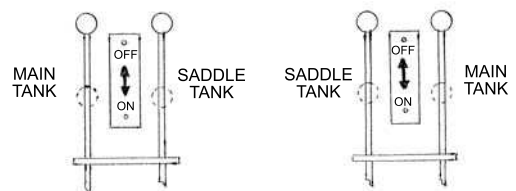
Most 42 Lightnings are equipped with supplemental saddle tanks located under the gunwale on each side of the boat in the engine compartment. These tanks have their own fuel fills and vents. There are 2 methods of fuel valves used on this model of boat, one is manual (most typical), and the other is electric (special order option).

Manual valves are located on the bulkhead behind the rear bench seats. They are operated by levers,

which are attached to the valves. They are isolated in pairs, port and starboard.

If you are going to run on the main tanks (located under the cockpit floor), you will

need to place the main tank lever in the ON position, and the saddle tank lever in the OFF position for both port and starboard tanks. To switch to the saddle tanks, reverse both levers. Note: Do not run both main and saddle tanks in the on position at the same time.





# Fueling



**Warning: Fuel is a dangerous explosion and fire hazard. No smoking or sparks during fueling operations.**



**Warning: Do not start engine(s); turn on batteries, or electrical devices if fuel leaks or fumes are present.**

# Hull Technology

## **HULL STEP TECHNOLOGY HAS CHANGED THE WAY WE NEED TO DRIVE!**

WHILE SMOOTH OPERATION HAS ALWAYS BEEN THE KEY TO SAFE HIGH SPEED OPERATION, BEING SMOOTH AND USING COMMON SENSE IS EVEN MORE CRITICAL WITH TODAY'S FASTER, MORE TECHNOLOGICALLY ADVANCED HULL DESIGNS.

THE NEW TECHNOLOGY HAS ALLOWED LARGER, LONGER, HEAVIER BOATS TO TRAVEL AT MUCH FASTER SPEEDS, WITH STANDARD HORSEPOWER. THE SIMPLE FACT IS THAT THINGS HAPPEN MUCH FASTER AT HIGHER RATES OF SPEED, AND LARGER BOATS SIMPLY CARRY MORE ENERGY ONCE IN MOTION.

INCORRECT TRIM SETTINGS OR IRRATIC TURNING MANEUVERS, WHILE STILL DANGEROUS AT SLOW SPEEDS, CAN BE DISASTROUS AT HIGH SPEEDS.

AT HIGHER RATES OF SPEED, THERE IS LITTLE OR NO WARNING BEFORE THE BOAT REACTS TO RAPID TURNS OR INCORRECT AND/OR ABRUPT TRIM CHANGES.

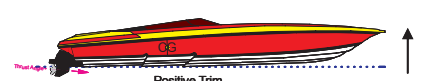
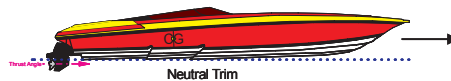
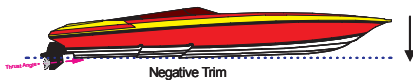
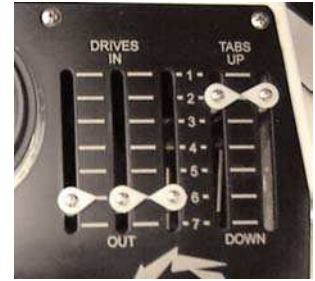
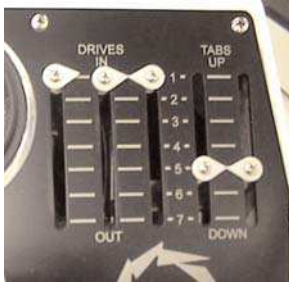
## **COMMON SENSE IS YOUR BEST DEFENSE!**

NONE OF US WOULD TAKE A NEW CORVETTE OUT, RUN IT UP TO 60MPH, GRAB THE WHEEL AND MAKE AN ABRUPT 180 DEGREE TURN ON THE WHEEL. THE SAME CONCEPT APPLIES TO BOATS.

KNOW YOUR LIMITATIONS, AS WELL AS THE LIMITATIONS OF THE EQUIPMENT, AND DRIVE WITHIN THEM.

# Hull Technology

## IMPORTANT TERMINOLOGY



### NEGATIVE TRIM

TABS OR DRIVES  
TRAILING EDGE  
BELOW THEORETICAL  
RUNNING SURFACE

**TRANSOM LIFT –  
BOW DOWN**

### NEUTRAL TRIM

TABS OR DRIVES IN-  
LINE WITH THE  
THEORETICAL RUN-  
NING SURFACE

**NO LIFT**

### POSITIVE TRIM

TABS OR DRIVES  
TRAILING EDGE  
ABOVE THEORETICAL  
RUNNING SURFACE

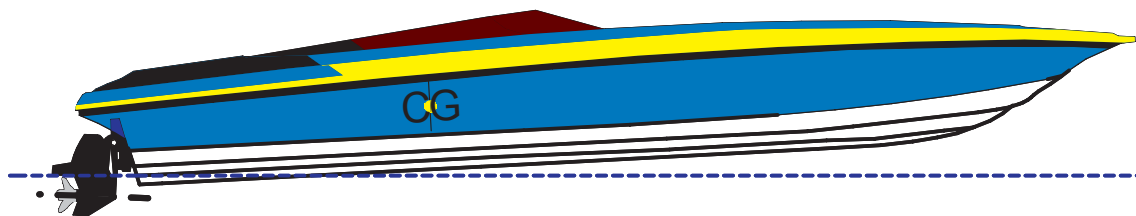
**BOW LIFT –  
TRANSOM DOWN**

## KEY TECHNOLOGY POINTS

- ✓ STEPS CHANGE THE ANGLE OF ATTACK, CHANGING PERCEIVED NEUTRAL TRIM SETTINGS.
- ✓ STEPS CONTROL PRESSURE.
- ✓ STEPS ALLOW LOWER DRIVE ANGLES WHICH FOCUS 100% OF THE THRUST AT PUSHING THE BOAT, RATHER THAN USING THRUST TO CHANGE THE ANGLE OF ATTACK.
- ✓ WATER PRESSURE MOVES FORWARD ALONG THE HULL, NOT BACKWARD. THINK OF STEPS AS A HORIZONTAL STRAKE.
- ✓ A NEGATIVE TRIM SETTING UPSETS THE PRESSURE ON THE HULL CREATING A POTENTIALLY UNSTABLE SITUATION AT HIGHER SPEEDS.
- ✓ THE PAD CREATES A STABLE PLATFORM FOR THE BOAT TO RIDE ON AT SPEED, AND ACTS AS A WIDE STRAKE.
- ✓ A NOTCH ALLOWS FOR HIGHER DRIVE PLACEMENT AND IMPROVED PROPELLER EFFICIENCY FOR EXCEPTIONAL HIGH AND LOW SPEED PERFORMANCE.

# Hull Technology

## TRADITIONAL V-BOTTOM TECHNOLOGY



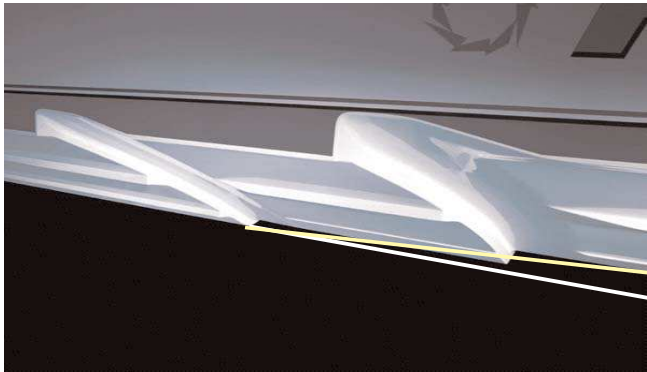
**A V-BOTTOM BOAT RUNS MAXIMUM SPEEDS WITH MINIMAL HULL CONTACT. HULL CONTACT WITH WATER CREATES ADHESION.**

**A TRADITIONAL V-BOTTOM BOAT REQUIRES A GREAT DEAL OF POSITIVE TRIM TO AFFECT A MODERATE RELEASE OF HULL CONTACT WITH THE WATER.**

**POSITIVE TRIM USES HORSEPOWER TO CARRY THE BOW OF THE BOAT AT THE PROPER ANGLE OF ATTACK, AS WELL AS PROPEL IT THROUGH THE WATER.**

**A TRADITIONAL V-BOTTOM RUNNING AT MAXIMUM SPEEDS HAS VERY LITTLE HULL CONTACT FORWARD OF THE BALANCE POINT, THEREFORE IN ORDER TO TURN THE BOAT, IT MUST BE SET BACK INTO THE WATER, USUALLY BY MOVING THE TRIM INTO A NEGATIVE POSITION.**

## STEP-BOTTOM TECHNOLOGY

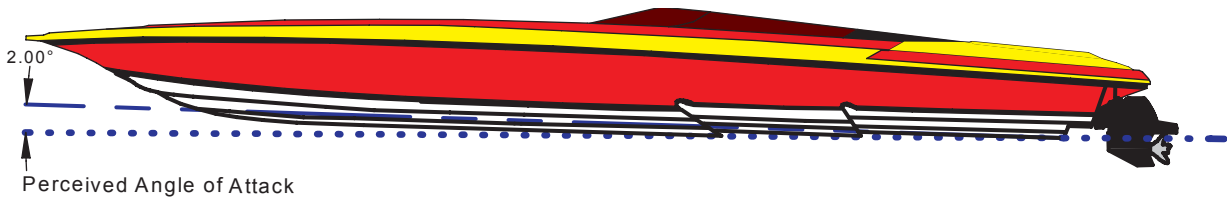


- **TRADITIONAL BOTTOM KEEL LINE**
- **STEP BOTTOM KEEL LINE**

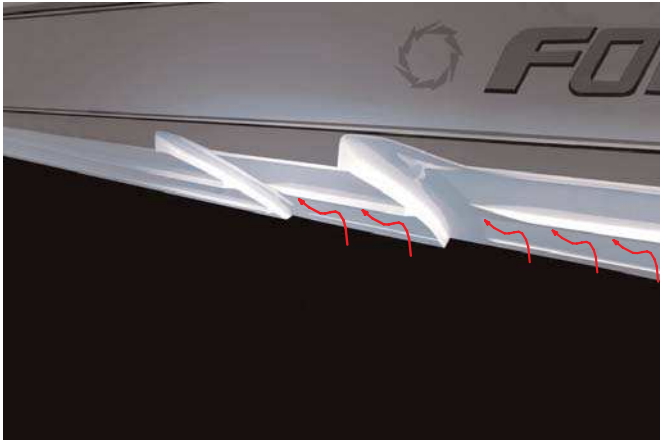
**THE “TRUE” BOTTOM OF A STEP BOTTOM BOAT IS THE IMAGINARY SURFACE CREATED BY RUNNING A LINE FROM THE FORWARD STEP TO THE TRANSOM AT THE KEEL.**

**STEPS EFFECTIVELY “LOWER” THE TRANSOM THEREBY CHANGING THE NATURAL ANGLE OF ATTACK.**

**STEP BOTTOM BOATS RUN BEST IN A NEUTRAL TRIM POSITION DUE TO THE NATURAL ANGLE OF ATTACK AND THE REDUCED SURFACE ADHESION CREATED BY THE STEPS.**



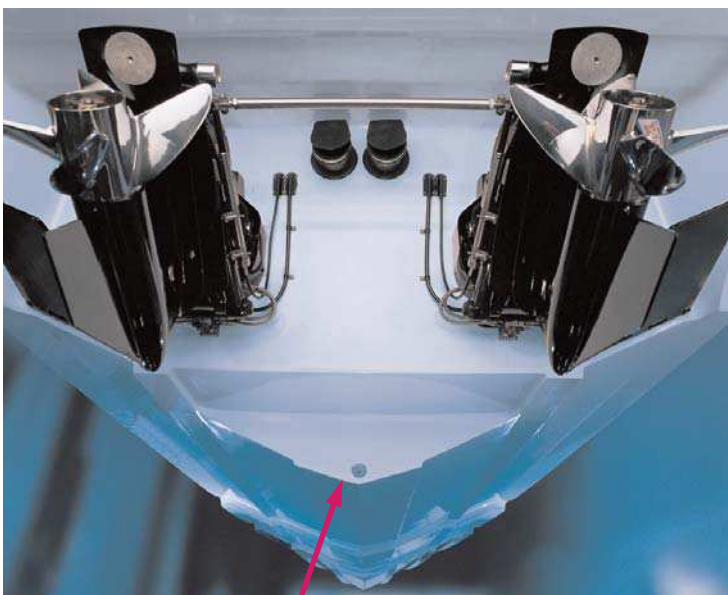
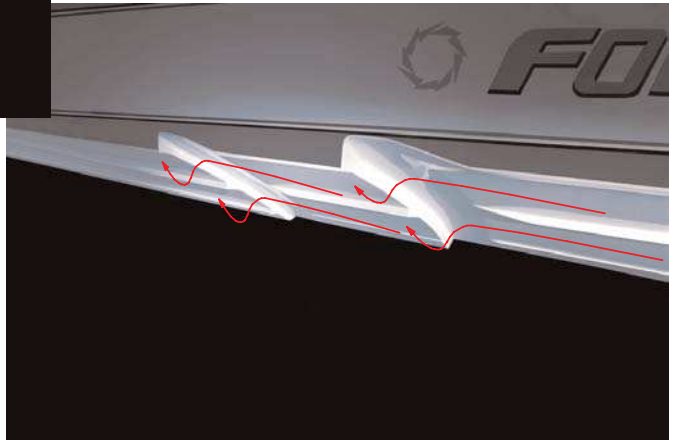
# Hull Technology



**A STRAKE IS A STEP THAT RUNS PARALELL TO THE KEEL, WHICH BREAKS THE SURFACE TENSION OF THE WATER FLOWING OVER IT. AT SUFFICIENT SPEED, THIS BREAK CHANGES THE RUNNING SURFACE ALLOWING THE HULL TO RELEASE AND RIDE UP TO THE LEVEL OF THE STRAKE.**

**A STEP ACTS AS A HORIZONTALLY POSITIONED STRAKE, WHICH BREAKS THE SURFACE TENSION OF THE WATER FLOWING OVER IT.**

**THIS BREAK ALLOWS THE BOAT TO MAINTAIN MINIMUM SURFACE ADHESION WHILE MAINTAINING THE PROPER ANGLE OF ATTACK AND DRIVE THRUST ANGLE.**



**PAD KEEL**

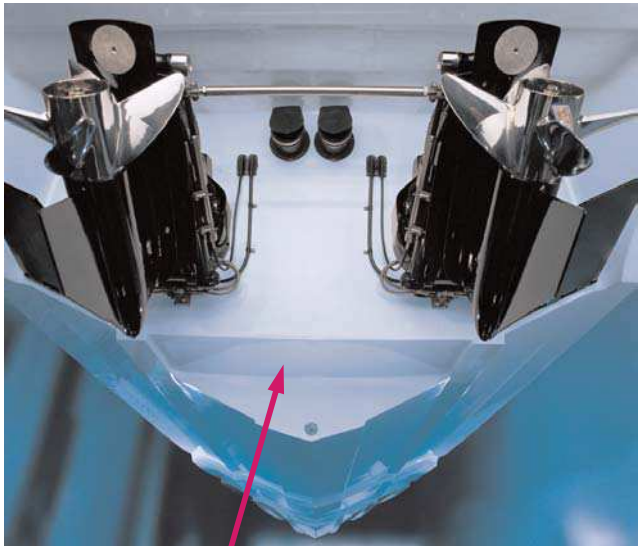
**A PAD KEEL IS A WIDE STRAKE, THAT PROVIDES THE SAME BREAK IN PRESSURE AND ADHESION AS TRADITIONAL STRAKES.**

**THE TRADITIONAL V-BOTTOM MAINTAINS THE SAME "HIGH" DEAD RISE ANGLE FROM THE STRAKE TO THE KEEL. THE PAD KEEL IS A 12"-15" "PLATFORM" AT A LOWER DEAD RISE ANGLE THAN THE HULL.**

**THE PAD KEEL PROVIDES THE ULTIMATE RUNNING SURFACE FOR THE KEEL AT EXTREME SPEEDS, PROVIDING INCREASED STABILITY AND A REDUCED TENDANCY TO "CHINE WALK".**



# Hull Technology

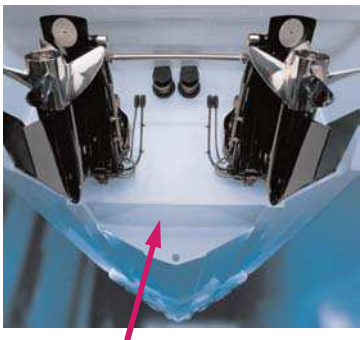


**NOTCHED TRANSOM**

GENERALLY SPEAKING, A HIGHER X-DIMENSION, UP TO A REASONABLE LIMIT, REPRESENTS INCREASED TOP END PERFORMANCE BY REDUCING HYDRODYNAMIC DRAG CREATED BY THE SUBMERGED GEAR CASE.

THE TRADE-OFF IS THAT WITH A HIGHER X-DIMENSION COMES POOR LOW SPEED PERFORMANCE CREATED BY AIRIATION OF THE PROPELLER.

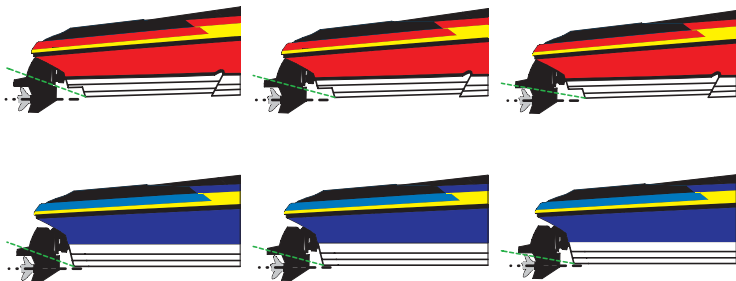
A NOTCHED TRANSOM HAS THE SAME EFFECT AS A “STAND-OFF BOX” WHICH ALLOWS A HIGHER X-DIMENSION WHILE MAINTAINING NON-AIRIATED WATER FLOW TO THE STERNDRIVES AT LOWER OPERATIONAL SPEEDS.



**NOTCHED TRANSOM**

**NOTCHED TRANSOM**

**TRADITIONAL TRANSOM**



● REPRESENTS FLOW OF WATER OVER PROPELLER

AS THE BOAT MOVES FORWARD, THE DISPLACEMENT OF THE HULL CAUSES WATER TO FLOW BACK AND UP FROM THE TRANSOM OVER THE STERNDRIVES. AS THE BOAT SPEED INCREASES, THE UPWARD ANGLE OF THIS WATER FLOW DECREASES AS THE BOAT PLANES OFF, APPROACHING ZERO DEFLECTION (NO UPWARD TRAVEL).

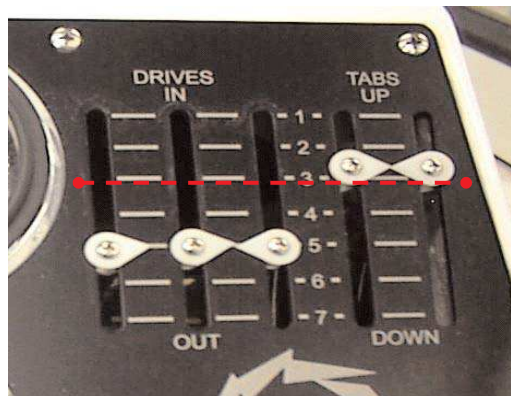
THE NOTCHED TRANSOM HAS INCREASED WATER FLOW OVER THE STERNDRIVES AT LOWER SPEEDS THAN THE TRADITIONAL TRANSOM, THEREBY INCREASING PROPELLER EFFICIENCY, ESPECIALLY IN HIGH X-DIMENSION APPLICATIONS.

THE INCREASED EFFICIENCY RESULTS IN FASTER TIME ON PLANE, LITTLE OR NO PROPELLER CAVITATION AT LOW SPEEDS, AND INCREASED THROTTLE RESPONSE.

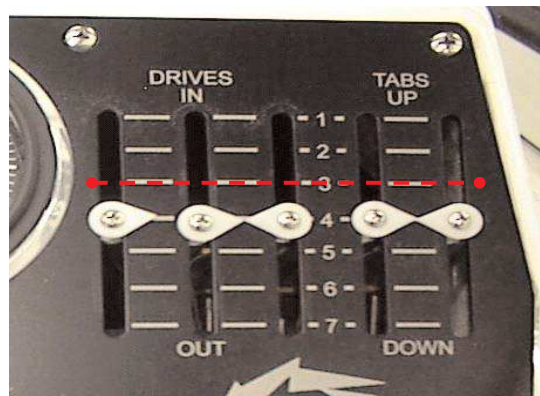
# Hull Technology

## **HIGH-SPEED OPERATION**

**(Refer to the Performance Report)**



**Smooth Water**



**Rough Water**

**DRIVES @ 4 ½ - 5 ½ TO WOT**

**TABS @ 2 ½ - 2 ¾ FOR SMOOTH CONDITIONS**

**MORE TAB FOR ROUGHER CONDITIONS UP TO 4 ½ TYPICAL MAXIMUM**

**TYPICAL ROUGH WATER SET UP: TABS @ 4 & DRIVES @ 4**



### **TURNING SET-UP:**

- ✓ **AVOID HIGH SPEED TURNS EXCEPT IN EMERGENCIES**
- ✓ **REDUCE THROTTLES TO ALLOW FOR ACCELERATION IF NEEDED**
- ✓ **REDUCE DRIVES TO NO LESS THAN NEUTRAL (TYPICALLY 3)**
- ✓ **LOWER TABS TO 4 – 4 ½ DEPENDING ON WATER CONDITIONS**
- ✓ **MAINTAIN MAXIMUM RADIUS TURN FOR THE SITUATION. DO NOT TURN MORE SHARPLY THAN NECESSARY**
- ✓ **MAINTAIN SMOOTH, GRADUAL TURN – NO SHARP OR ABRUPT MOVEMENTS OF THE WHEEL**
- ✓ **FEEL CLOSELY FOR ANY INDICATION OF LOSS OF “TRACTION” IN TURN. IMMEDIATELY REDUCE RATE OF TURN AND OR THROTTLE ACCORDINGLY.**

# Hull Technology

## TURNING A STEP BOTTOM BOAT

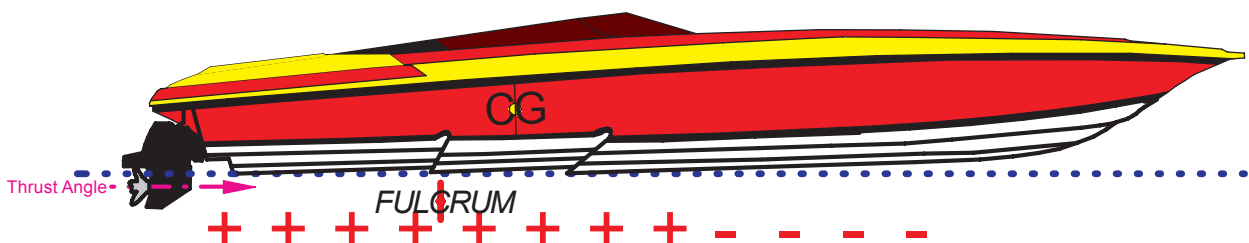


**“TRADITIONAL” TURNING TECHNIQUES ARE THE BASIS FOR MOST INCIDENTS INVOLVING STEP BOTTOM BOATS.**

**TRADITIONAL V-BOTTOMS REQUIRE GREATER POSITIVE TRIM TO ATTAIN TOP SPEEDS, AND TRADITIONALLY OPERATORS APPLY NEGATIVE TRIM TO BRING THE BOAT BACK INTO CONTACT WITH THE WATER PRIOR TO TURNING.**

**NEGATIVE TRIM WHILE TURNING A STEP BOTTOM BOAT CAN CAUSE SEVERE AND VIOLENT SPIN-OUTS.**

## NEUTRAL TRIM



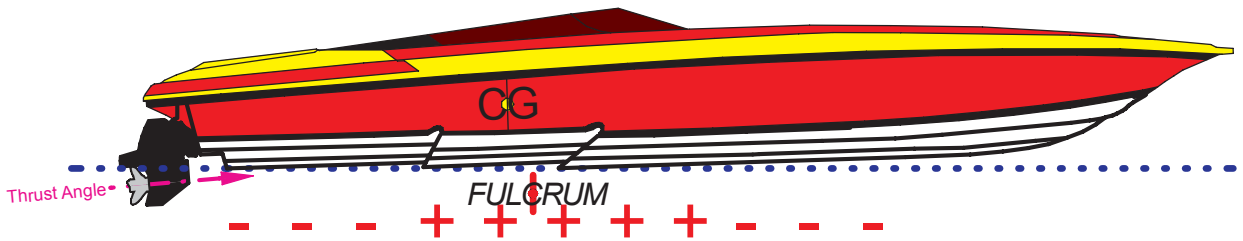
**WHEN THE BOAT IS TRIMMED IN THE NEUTRAL POSITION, PRESSURE, AND THEREFORE CONTACT, IS FOCUSED AROUND THE CENTER OF GRAVITY AND TOWARD THE TRANSOM.**

**CONSISTANT HULL CONTACT IS MAINTAINED FROM THE FORWARD STEP TO THE TRANSOM PROVIDING A STABLE RUNNING PLATFORM.**

**THE TURNING FULCRUM WILL TYPICALLY BE LOCATED AROUND THE HIGHEST AREA OF HULL CONTACT PRESSURE.**

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## NEGATIVE TRIM TRANSITION

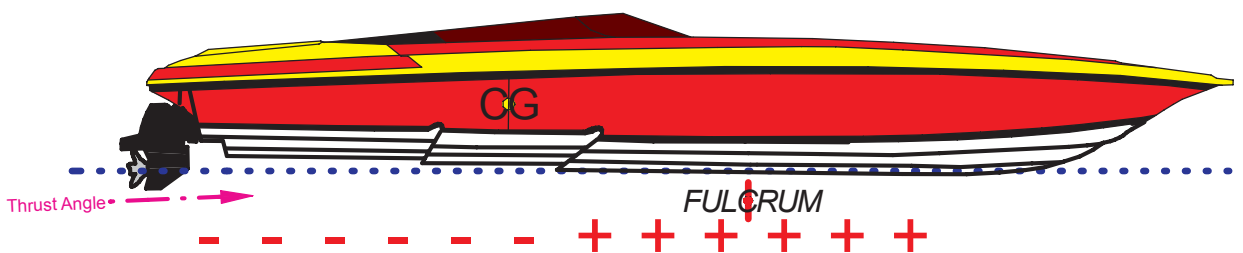


**AS THE TRIM ANGLE MOVES TO THE NEGATIVE POSITION CREATING AN UPWARD THRUST ANGLE ON THE TRANSOM, HULL PRESSURE IS MOVED FROM THE TRANSOM OF THE BOAT TOWARD THE BOW.**

**HULL CONTACT PRESSURE BEGINS TO MOVE FORWARD OF THE CENTER OF GRAVITY (CG).**

**AS THE PRESSURE MOVES FORWARD WITH CONTINUED NEGATIVE TRIM, THE TURNING FULCRUM MOVES FORWARD OF THE CG.**

## NEGATIVE TRIM EFFECT



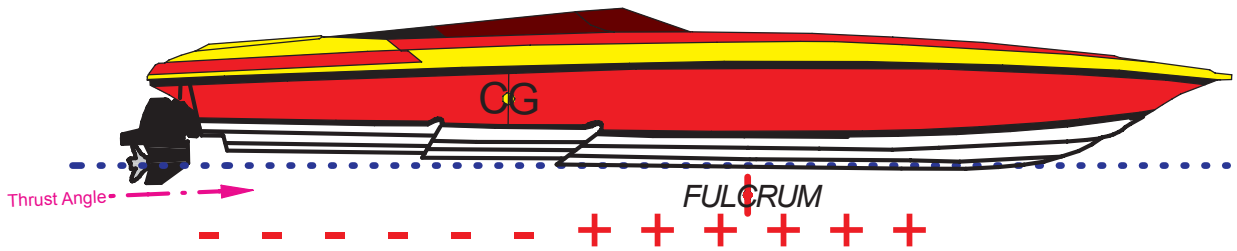
**CONTINUED NEGATIVE TRIM WILL ULTIMATELY MOVE THE MAJORITY OF THE HULL CONTACT PRESSURE COMPLETELY FORWARD OF STEPS.**

**HULL CONTACT PRESSURE IS NOW SIGNIFICANTLY FORWARD OF THE CENTER OF GRAVITY (CG).**

**IN THE CASE OF A STEP BOTTOM BOAT, THE HULL OF THE BOAT AFT OF THE CG NOW HAS LITTLE OR NO CONTACT PRESSURE AND THE TURNING FULCRUM IS NOW SIGNIFICANTLY FORWARD OF THE CG.**

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## NEGATIVE TRIM EFFECT



**WITH THE FULCRUM, OR PIVOT POINT FORWARD OF THE CG, A VERY UNSTABLE SITUATION IS CREATED. THIS SITUATION CAN BECOME DISASTEROUS IN A TURN AS THE LEVERAGE CREATED BETWEEN THE TRANSOM OF THE BOAT AND THE FULCRUM IS GREATEST.**

**THIS IS COMBINED WITH THE DECREASED HULL PRESSURE AFT OF THE CG.**

**THE RESULT IS AN IMMEDIATE AND VIOLENT TENDANCY TO SPIN-OUT.**



## URNS AT VARIOUS SPEEDS



**❖ ASIDE FROM LOW SPEED OPERATION, AND PARTICULARLY IN BOATS WITH LARGER STEPS, THERE IS NO REASON TO LOWER THE DRIVES TO LESS THAN NEUTRAL WHEN TURNING.**

**❖ REMEMBER, ON A STEP BOTTOM BOAT AT SPEED, LOWERING THE DRIVES BELOW NEUTRAL CHANGES THE THRUST ANGLE IN SUCH A WAY AS TO CHANGE THE PRESSURE ON THE STERN SECTION OF THE BOAT, CAUSING A LOSS OF ADHESION, AND CREATING AN UNSTABLE CONDITION THAT IS EXAGGERATED DRAMATICALLY WHEN TURNING.**



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## **SUMMARY**

**TRIM TO MAINTAIN DIRECT LINE OF THRUST (NEUTRAL AS MINIMUM SETTING).**

**MAINTAIN CONTINUOUS HORIZON POSITIONING. IF YOU LOOSE THE HORIZON, YOU ARE LIKELY TRIMMED TOO HIGH.**

**USE COMMON SENSE & DISCRETION.**

**NEVER MAKE ABRUPT MANEUVERS OR TRIM CHANGES.**

**FEEL CLOSELY FOR ANY INDICATION OF LOSS OF “TRACTION” IN A TURN. IMMEDIATELY REDUCE RATE OF TURN AND/OR THROTTLE ACCORDINGLY.**

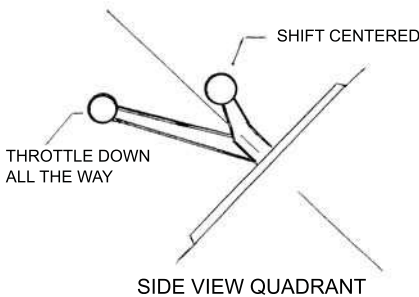
**DRIVE WITHIN YOUR ABILITIES, AND WITHIN SAFETY PARAMETERS.**

# Starting, Driving Gauges, Controls

Leave engine hatch doors open before you begin starting procedures. Familiarize yourself with the dashboard, side panel, gauges, switches and controls.

Turn on your battery switches to the desired positions. (Port, Starboard, 1-2 or All) See cockpit and engine compartment layout drawing for battery switch location.

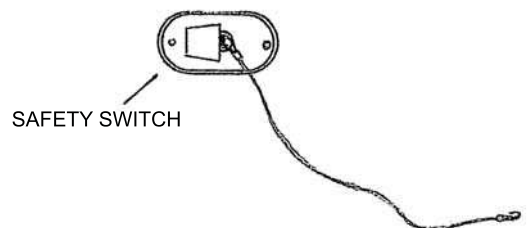
Locate blower toggle switch on left hand side of dashboard, above the throttle/shifter quadrant. Flip on blower switch, red indicator light will illuminate. (Blowers are running) Run blowers for at least five (5) minutes before starting engines. Note: Blowers should be run until vessel is under way.



Make sure shift handles on quadrant (shifters are the shorter handles) are centered in the slot, as felt by a detente click. Note: Engines will not start if the shifters are not completely in the neutral position.

Make sure the throttle on quadrant (throttles are the taller handles) are all the way down in the slot. Note: most modern marine engines are fuel injected, and therefore do not need to be pumped up and down to start and idle the motors. Carbureted motors would be an exception. (See engine manufacture's manual as to what kind of system that you have.)

Make sure safety switch is armed. This switch should have the lanyard on the toggle and be attached to the driver for safety. Note: The engines will not run unless this switch is in the run position. (Switch is located on the right side of the dash under the side panel.) Trim drive(s) to the in position before starting the engine(s).



# Starting, Driving Gauges, Controls

Locate the ignition key switches at the right side lower dashboard. Insert keys into switches. Turn each to the on position only (one click to the right-clockwise). Indicator lights and audible alarms will sound for a moment to indicate that systems are operational. Note: Fire system light will stay on until key switch is turned off. With the keys in this position (engines cold) the only gauges that should indicate are the fuel and volt gauges.

Turn key(s) to the full right start position until the engine starts, and then release the key. It will spring back to the on-run position. Note: Do not turn key to the start position with the engine running or starter and/or engine damage may occur.

Confirm water flow through the engine by way of the water pressure gauges, and flow of water from the exhaust tips located under the swim platform.

Let the engine(s) warm up sufficiently before getting under way. Check your bilge and engine compartment once more for any leaks or unusual noise. Engine hatch may now be closed.

While at the dock, raise throttle slightly for throttle response. Bring throttle back to idle and check shifters for forward and reverse operation.

Check operation of equipment for trip (VHF, GPS, Depth Gauge, Horns, etc.) Inform passengers of location of all safety equipment, seating and grab rails.

Untie dock lines and stow them away. Push vessel away from dock and shift into desired gear.

Pilot (helm) bolster and passenger bolster have rocker switch activated drop out seat bottoms for stand-up or sit-down operation. Adjust these as necessary for a comfortable position.

# Starting, Driving Gauges, Controls

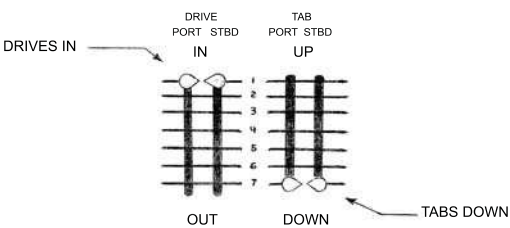


Warning: With the vessel in motion, pay close attention to heading and water depth. Use caution in shallow water operation.

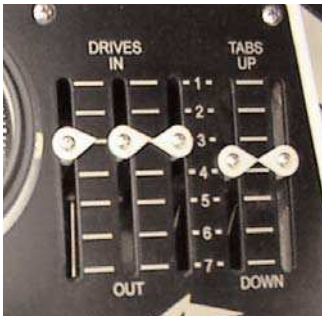
With the shifter(s) forward, set up the drives and tabs as follows:

Using either the rocker switches located on the dash above the quadrant, or the small rocker switch located on the end of the throttle lever, position the drives to the full in position as indicated on the drive indicators.

Using the rocker switches on the dash-board above the quadrant, lower the trim tabs to the full down position, as indicated on the trim tab indicators.

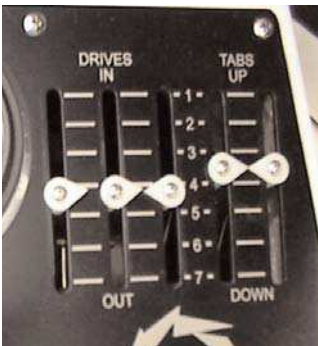


With left hand on the throttles and right hand on the steering wheel, move the throttles forward evenly and smoothly until the vessel comes on plane. (Plane is typically used to describe the vessels transition from static depth in the water to riding on the water's surface.



As the boat planes off, use the rocker switches to bring the drives out to the neutral position (defined as the propeller shaft parallel to the running surface), indicated by the number 3 on the drive indicator.

Using the rocker switches for the tabs, run them up until the desired ride attitude is achieved.

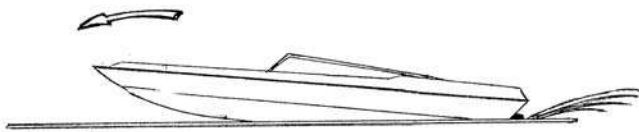


# Starting, Driving Gauges, Controls

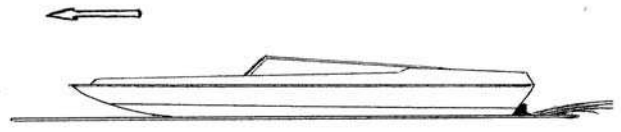


Warning: Never run the vessel at higher speeds with the tabs or drives at the extreme in/out - up/down positions. Never trim the drives to less than 3 on the drive trim indicator while the boat is on plane.

You will learn to adjust your vessel for a comfortable ride attitude depending upon loading and balance to achieve desired performance. Take note of your indicator positions to aid in your running set-up.



VESSEL COMING ON PLANE  
(BOW RISES UP, AND THEN LOWERS)



VESSEL ON PLANE  
(ADJUST TABS AND DRIVES FOR  
PROPER RUNNING ATTITUDE)

Always monitor your gauges, warning lights and audible warning alarms. Back off of the throttles, bring the boat to a complete stop, put the shifters in the neutral position, and shut down the engine(s) at the sign of any problem. Check the engine compartment for possible repair. Note: vessel can be run back to port on one engine if necessary (in a multi-engine configuration boat), as long as you do not overwork the running engine. Call for help or tow-in if necessary.

Keep a log on engine hours for timely service and maintenance to keep your Fountain running strong, and to prevent possible premature equipment failure. Refer to engine and accessory manufacturers manuals for service intervals. Your engine hour meter is located in the engine compartment on the starboard gunwale lip at the hatch ram.



# Electrical System & Optional Equipment

Your Fountain Powerboat is equipped with standard 12VDC power. All vessel power is operated by battery switch(s). Lights and accessories are protected by fuses or breakers. These are located under the rear seat or under the dashboard wall. Note: See trouble-shooting section for fuse replacement or breaker reset procedures.

Stereo, VHF and GPS, whether standard or optional upgrades should include manuals provided by the original equipment manufacturer. Please refer to these manuals for proper usage and maintenance of these electronics.

VHF and GPS options are very useful and are recommended for easy navigation and trip plotting. VHF radio is the communication used by marine and aircraft, and is very useful for emergency, ship to ship, or ship to shore communications.

Optional shore power will provide 110-volt AC power to outlets and optional appliances. This option is for use at dockside only, and requires the provided shore power plug. All AC power is controlled by a master AC panel in the cabin, with breakers and volt meters.

Larger sport models, and all cruisers are typically equipped with an AC generator. This will provide 110-volt AC power to outlets and optional appliances while away from the dock, or in locations that do not have dock-side power available. Power is controlled by a master AC panel in the cabin, with breakers and volt meters. It is important to understand the operation of this system when switching from shore power to generator power. Before use, always make certain that water control valves to the generator are open or severe damage may occur to your generator. Always confirm water flow from the generator by visually checking for water flow from the generator exhaust vent. If water is not flowing from the exhaust, shut off the generator immediately.

A safety cover is provided over the switches that direct power to the panel to prevent both shore power and generator power from being used simultaneously. For shore power operation, plug the outlet into the boat receptacle then plug into the dockside shore power outlet.

# Electrical System & Optional Equipment

On the boat AC panel, slide the cover down exposing the shore power breaker, and turn on the breaker to utilize shore power. For generator operation, start the generator per the manufacturers instructions (see generator owners manual provided by the specific generator manufacturer). On the AC panel, slide the cover up exposing the generator breaker, and turn on the breaker to utilize generator power.

Most AC panels will have a "transfer" breaker which will allow both sides of the breaker panel to be energized from either a single shore power connection or the generator. If two shore power receptacles are provided and utilized, both panels will be powered without the use of the transfer switch.

Air conditioning and heat is another option operated by shore power or optional generator. This unit is operated by its own control panel, controlling on/off and temperature settings. See the manufacturers owner manual for specific operating instructions of your air conditioning unit. Before use, make sure that all valves controlling water flow to the unit are in the open position.

## Toilet and Sanitation

Porta-potti (standard) has a self-contained holding tank. This is removed as a unit and emptied out and sanitized. It is recommended to be emptied out every trip if used. Refer to unit's manual for use and care. Remote dock side pump out is an available option on these units.

Some boats are equipped with a macerator pump and holding tank and may also be equipped with an overboard discharge. Consult your local laws regarding the overboard discharge of waste. Some areas prohibit the dumping of any sewage, and may require that the overboard discharge valve be locked in the closed position to prevent discharge. It is recommended that holding tanks be emptied out after every trip if used. It is also recommended that the overboard dump be locked in the closed position unless used in accordance with local

# Electrical System & Optional Equipment

laws regarding the dumping of sewage.

## Fresh Water Supply

Water for cabin galley and sink is supplied by an electrical pump and water tank. Tank level is monitored by sight and is located in the engine compartment on the port or starboard side. Tank may also be located in the port side compartment in the cockpit. Tank is filled by a customer-supplied hose in the engine compartment above the water tank on the motor well lip. Note: Use an approved hose for filling a potable water tank in any vessel.

Warning: Water system must be purged of winterization fluid used during shipping of the boat during the winter months. Pink fluid should be run out of the water tap and flushed out.

## Engine Optional Equipment

Silent Choice Exhaust: This option allows vessel pilot to choose straight out exhaust or quieter operation at the flip of a switch. This is located at the pilot's right side helm switch panel, labeled "Exhaust Open or Closed". Note: This system may not be legal for operation in certain areas. It is the responsibility of the vessel owner to know and understand the local noise laws, and outfit the vessel accordingly. It is strongly recommended that the vessel operator use common sense and courtesy when operating the boat in marinas, around homes, and in areas that excessive noise would be inconsiderate and/or inappropriate.



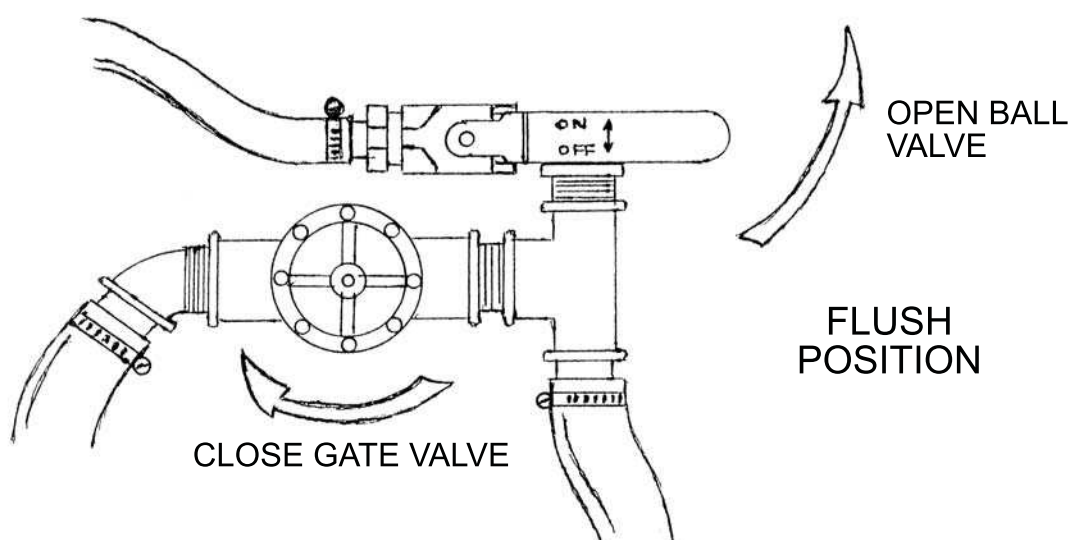
Warning: Some waterway areas have noise level laws that are very strictly enforced. Check with the local laws in your area prior to operating your boat.

It is also recommended by the engine manufacturers to not use a switchable exhaust system at higher speeds due to potential engine damage that may occur.

# Electrical System & Optional Equipment

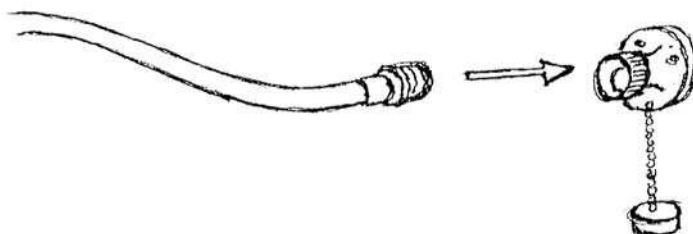
Engine fresh water flush: This option allows you to flush out your engine of saltwater and silt after a trip. This system can be used at dockside, trailer or on a hoist. It is also used to run the engine(s) while the boat is out of the water for diagnostic and troubleshooting service. Use this step-by-step procedure as follows:

Engine flush valves are located inside the engine compartment on the inner transom above each of the engine drive gimbals. The garden hose fitting for the flush system is located above the flush valves on the center of the engine compartment lip.



Make sure that the boat attitude is NOT bow down. Raise the bow of the boat to get the engine exhaust tips to angle downward so as to insure that flush water does not flow back into the exhaust pipes, and thus into the engine. Severe engine damage will occur if water is ingested by the engine(s) through the exhaust pipes.

Remove the spin-off cap on the garden hose fitting, and let it hang on the chain. Attach garden hose to the fitting.



Make sure that the garden hose is not kinked or turned off during the flushing procedure. Failure to do so will result in engine overheating and possible damage.

# Electrical System & Optional Equipment

Run only one engine at a time using it's corresponding flush valve. Do not run the engine until water is observed running out of the exhaust pipes. Failure to do so will damage the water pumps and overheat the engine(s).



Failure to return the flush valve back to the run position after flushing will cause engine overheat, and will result in serious engine damage.

On one valve only, throw the yellow handle ball valve up (in-line with the valve body) to open the line from the garden hose inlet to the engine. Close the gate valve to shut off water flow back through the drive.

Turn on the garden hose all the way, and wait for water to come out of the exhaust pipes.

Start the engine corresponding to the valve you just set up to flush, and run the engine (at idle) the desired time to flush out the engine. Continually monitor the engine gauges while flushing to verify engine temperature.

When finished flushing, shut down the engine first, and then turn off the garden hose. Return the engine flush valve to the run position (turn the ball valve to the off position, perpendicular to the valve body, open the gate valve by turning counterclockwise).

Repeat the procedure for each engine.

Make sure that you return the flush valve to the run position as described above. Failure to do so will result in damage to the water pump, and may cause severe engine damage.

Remove the garden hose from the fitting, and re-cap the fitting.



# Appearance and Care

## Exterior:

- ☐ Hull, Deck Fittings and Windshield. Hull and deck surfaces are gel coat and polyurethane painted graphics.



Warning: Do not use any harsh detergents or solvents on gel coat or painted surfaces.

- ☐ Wash hull and deck with boat soap. Rinse well with water, and towel dry. (Soft terry cloth or chamois).
- ☐ Protect hull and deck with top grade fiberglass wax. Use fiberglass polish for faded or scratched surfaces, the re-wax.
- ☐ Use a gel coat repair kit for any chips or gouges. Finish, polish and re-wax.
- ☐ Stainless fittings can be wiped clean. Hand rub metal polish and wax.



- ☐ Powder coated fittings: Use mild hand rub polish and wax.

- ☐ Windshield: Wash with mild soap and water. Do not use Windex, chemicals, or any abrasives.
- ☐ Cabin and Fixtures: Cabins are not unlike household cleaning
- ☐ Vacuum carpet and shampoo when needed. Spot removers and freshener will keep the carpet clean and fresh.

# Appearance and Care

- ❑ Upholstery: Use a good quality vinyl cleaner and conditioner.
- ❑ Counter tops, sinks, glass, etc.: Use household cleaning products to keep these items clean.
- ❑ Do not run garden hose in cabin.
- ❑ Do not use harsh chemicals, solvents or abrasives.
- ❑ Do not spray water or cleaners in master electrical panel.
- ❑ Cockpit, Upholstery, Dashboard:
  - ❑ Cockpit has removable carpet. This can be vacuumed and shampooed as needed.
  - ❑ Upholstery: Use a good vinyl cleaner and conditioner.
  - ❑ Under the cockpit removable carpet is a non-skid gel coat fiberglass floor. This can be cleaned with a scrub brush using soap and water, then rinse well.
  - ❑ Dashboard: Wipe well with a damp cloth and dry with a terry towel.
  - ❑ Do not flood dash with hose water. (Light spray is ok.)
- " Do not use chemicals or abrasives on the dashboard. Gauge lenses could become scratched or clouded.

## Engine Compartment:

- ❑ With drain plugs removed, tilt boat with the bow as high as possible. Hose out bilge with soap and water. For greasy areas, use a marine bilge degreaser. Rinse with fresh water. Note: If stringer sections fill up with water, clear drain plug fittings and

# Appearance and Care

drain holes with a stick or rod.

- ❑ Lightly rinse engine components, generator housing and accessories, pat dry and coat with a protectant such as CRC or WD-40. Do not flood engines, or other components in the engine compartment with water.
- ❑ Be aware of local laws regarding discharge of oily or greasy water from the bilge while cleaning. It is unlawful to discharge oil into the water per federal law.
- ❑ Polish stainless pipes and metals with stainless steel polish and rags.

# Storage

We do not recommend storing the boat in the water on a mooring buoy, or tied to a dock. It is impossible to project situations that could result in the boat becoming swamped, resulting in significant damage, or total loss.

Store the boat with the cockpit cover on, and any provided poles installed to prevent pooling of water on the cover.

When possible, cover the entire boat to protect from UV rays and the elements.

Always store the boat in a "bow up" position. This way, any water that may be in the boat, or find its way into the boat will move toward the back and exit through the drain plugs.

Remove drain plugs when stored on the trailer.

We recommend the use of a dehumidifier in the cabin to prevent moisture damage while storing the boat in moist climates.



Always winterize your boat for storage in freezing climates. Be sure to winterize all water systems, engines and drives, and generator systems. Refer to a qualified marine technician for this service. Freezing can cause severe damage to marine engine components, water systems and drive units.



It is recommended that you have your boat "bottom painted" with an approved "anti-fouling" finish if you plan to store it in the water for more than 48 hours at a time. Extended submersion of painted surfaces can result in blistering and other paint damage that is not covered under warranty.

# Do it Yourself Maintenance

Many service and maintenance items can and should be performed or checked regularly. Before going on a boat trip, check all of your fluid levels. Safe boating starts with good maintenance.

Check engine oil and generator oil if so equipped:

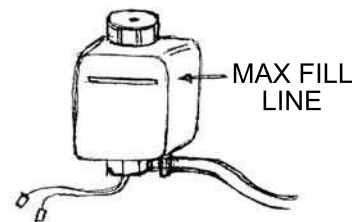
With engine off, pull up the dipstick, (see engine compartment quick reference drawing or engine manufacturers manual for location of dipstick), wipe dipstick clean and push dipstick back into the tube. Pull out and check level with the marks on the dipstick.

Add recommended oil for your particular engine or generator per the manufacturers manuals. Do not overfill. Filling caps are labeled. Change oil and filters as recommended.

## Check stern drive lubrication:

Check level of drive lube marked on the drive lube bottle, located on the inner transom above the drive plates, or attached to the engine.

DRIVE LUBE BOTTLE



Use the lubricant recommended in the manufacturers manual. Change drive lube at recommended intervals.

If drive lube seems to be draining down frequently or is milky looking, the drive needs to be serviced immediately. Slight oil usage is normal.

## Engine and Generator Coolant:

Some engines and all generators are equipped with closed cooling systems. Please refer to your engine manufacturers manual for clarification as to which system is provided on your engine package. Check the level by visually inspecting the reservoirs, and top off as necessary with pre-mix coolant.

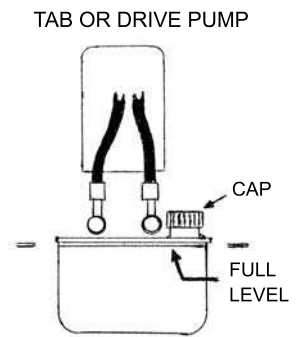


# Do it Yourself Maintenance

Engine coolant reservoirs are mounted on the engines. The generator reservoir is mounted separate from the generator. See the quick reference engine compartment drawing for coolant reservoir locations.

If coolant is draining down frequently, engine or generator may have a leak that needs to be serviced. Inadequate engine coolant can cause severe engine/generator damage.

Note: Generators are not offered on sport boats less than 38 feet in length.



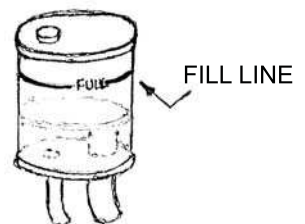
## Drive and Trim Tab Pumps:

Drive pumps are typically the upper pumps on the engine compartment panel on the back seat bulkhead. The drive trim oil level has to be checked with the drive(s) all the way in the IN position. Remove the twist off yellow cap, and top off with 10-30 non-detergent motor oil up to just under the cap neck.

Tab pumps are typically located just below the drive pumps on the same panel. These pumps are checked and filled in the same manner as the drive pumps except that they need to be checked and filled with the tabs in the UP position.

See quick reference engine compartment drawings for pump locations.

STEERING RESERVOIR



## Steering Fluid Reservoir:

Unless leaking or fluid is discolored from the faulty power steering pumps, service is typically minimal. If fluid is leaking, or discolored, have the system serviced and repaired immediately. Reservoir can be topped off to the full line with Dextron III transmission fluid. (Do not use Type F, or automotive power steering

# Do it Yourself Maintenance

fluid.) Reservoir is located on the engine, or may be mounted to the engine compartment lip.



**Fuel System Maintenance:** (To be performed at least annually by a qualified marine technician)

1. Replace fuel system components if any evidence of cracking, corrosion or deterioration is found.
2. Inspect fuel tanks annually. Remove inspection covers in engine compartment and check to see if any standing water is present on the tanks. Check the connections at the forward portion of the tanks by removing the foot wells, or side panes to gain access to the fill, vent lines and fittings. If water is found, consult an authorized Fountain Powerboats repair facility. The fuel tanks in your Fountain are an integral part of the boat. They are installed under the cockpit floor using screws, fiberglass, and foam to isolate the tank from the hull bottom.
3. Be sure the fill pipe is properly grounded. Check electrical connections at fuel fills and fuel level senders for corrosion or loose connections.
4. Check bilge blowers for proper operation.
5. Ensure that heating and cooking appliances on board are secured and operate properly. Refer to appliance owner's manual for guidance on inspecting for leaks in valves and connections. Never use a match to inspect for leaks.
6. Ensure that flammable items are stowed safely and cannot contact cooking, heating appliances or hot engine parts.
7. Ensure fire extinguishers are USCG-approved and are in good working order.
8. Repair all bare wires or loose electrical connections that might cause a short in your boat's electrical system and start a fire.
9. Do not store disposable propane cylinders or charcoal lighting fluid on board the boat.
10. When replacing starters, alternators, generators or other electrical equipment, use only ignition-protected parts. Do not use automotive parts.

# Do it Yourself Maintenance



## Battery Maintenance:

Warning: Battery electrolyte is very corrosive and explosive. Protect your eyes and skin when working with batteries. Keep batteries clear of flames or sparks.

Pull off battery caps (unless battery is a "maintenance free" sealed battery) and check the electrolyte level. Fill each hole to the inner edge of the hole. Use battery electrolyte fluid or distilled water.

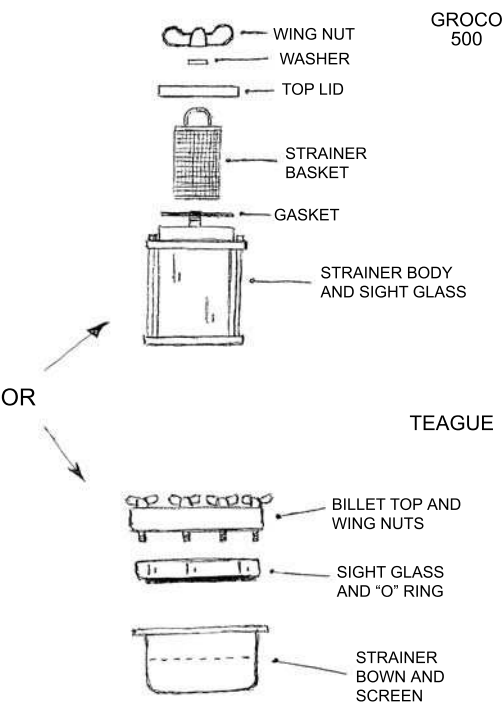
Clean battery terminals with a mixture of baking soda and water. Rinse, clean, and then coat each terminal with a battery grease or Vaseline. Make sure not to get any of the baking soda solution into the battery caps.

## Engine to Drive Coupler:

There is a grease fitting located behind the engine at the gimble to drive coupler. This fitting needs to be greased periodically, but do not over grease. (Two pumps from a grease gun are sufficient.)

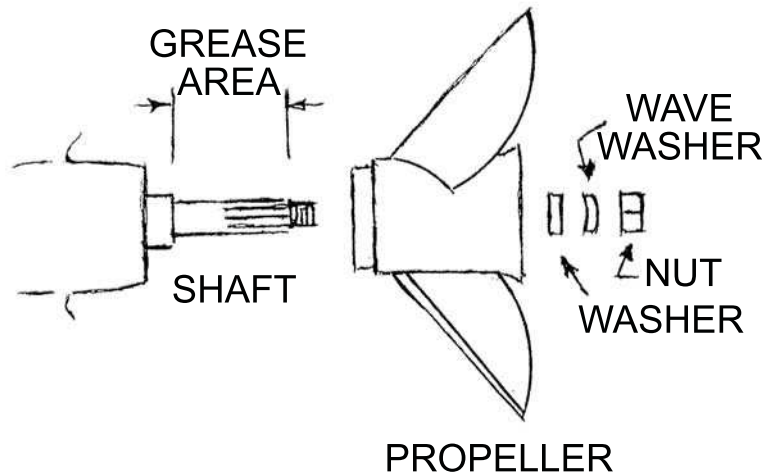
## Sea Strainers:

Sea strainers protect important pumps on the engines, generator, and air conditioning units from sand, trash and marine growth in the water. Check and clean them out as needed.



# Do it Yourself Maintenance

Warning: If the vessel is in the water during sea strainer cleaning, shut off all ball valves feeding the strainer(s). Failure to do so will result in flooding the boat.



## Propellers:

Remove propellers regularly and coat the shafts with the recommended grease. This will keep the propellers from seizing to the shaft allowing for easy removal. After each use, wash the propellers (along with the boat) and spray them with a coat of CRC or WD40 to protect against excessive corrosion.

Have the propellers reconditioned if damaged, bent, chipped, or cracked. Damaged propellers can cause additional damage to the drive units, couplers and/or engine.

Other services are needed at regular intervals. Unless you are trained and/or are mechanically inclined, these services are best left to a trained factory technician.

# Accessories & Apparel

**Fountain Powerboats** offers a complete line of award winning apparel and accessories for your boat. Show off your Fountain pride with everything from custom leather jackets to fashionable casual attire, super sized beach towels to travel gear, and more. Fountain offers custom “poker run” safety vests in both inflatable and traditional styles. Both feature the Fountain logo, and can even be custom ordered in colors to match your boat’s graphics. Fountain also offers complete tool kits by Matco Tools, and cleaning materials from Swipes to keep your boat in top shape. Check us out on the web at [www.fountainpowerboats.com](http://www.fountainpowerboats.com) for more information, or to order Fountain accessories and apparel.





# Refurbishment & Upgrades



 **FOUNTAIN**

 **MERCURY**



Do you want a new look, to add more horsepower, or to completely restore your Fountain Powerboat? The Fountain Powerboats Factory Service Department has expanded to provide complete restoration, interior upgrades, re-powers, factory parts, and custom paint-graphics for your Fountain sportboat, fishboat or cruiser. Nobody knows your boat better than the factory, and we are committed to ensuring that your boat maintains it's ultimate appearance, value and performance. With everything from complete upholstery skin kits, dash systems, and factory parts, to complete cockpit and cabin kits, you can either do it yourself, or have the Fountain factory install genuine Fountain components to enhance your boat.

Let us schedule a consultation with you to design an interior/exterior "make-over" for your boat that



# Refurbishment & Upgrades



suits your personality and budget. An updated look will add resale value, and give you that "new boat" look and feel for a fraction of the cost of a new boat.

In addition to "upgrade" work and parts, we have all of the necessary resources to provide you with maintenance and service on your Mercury engine drive train components as well as Fountain and Mercury warranty service.

So whether you want to spruce up your boat's appearance, or show your friends the transom of your boat in the next poker run or fishing tournament as you pull away with new power, Fountain's Service Department is your one-stop-shop for all of your Fountain Powerboat needs.

## ***Complete Upholstery Skin Kits***

***Complete Cockpit Kits, Including Bolsters & Hardware***

***Complete Custom & Standard Dash Panels***

***Custom and Standard Graphics Packages***

***Windshields, and Plexi-Glass Components***

***Towers & Leaning Posts***

***Custom Powder Coating***

***Bottom Blueprinting Services***

***Complete Fiberglass and Mechanical Repair***

***Specialty Parts, Poker-Run Vests, Racing Vests & Intercoms***

***Rebuilt 5.0kw Westerbeke Generators***

***Factory Re-Power, Including Engines and Drives***



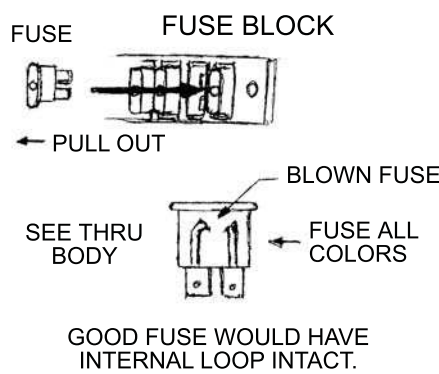
# Troubleshooting

## Electrical:

12Volt DC equipment and accessories:

Many problems can be solved or traced to blown fuses or popped breakers. Also check for loose or corroded wires at battery and ground blocks.

Corrosion found in bulb sockets or wires and terminals can be removed by cleaning with a brush. Reassemble and spray with a corrosion inhibitor.



Replace any blown fuses or bad bulbs. If fuses or breakers keep blowing or popping, a wiring or component problem is likely present and will need to be repaired.

110 Volt AC equipment should only be repaired by a trained electrician. Unless you are trained in household electrical systems and components this is best left to a professional. Make sure that your AC panel breakers and transfer switches are in the correct position for the desired operation.

Note: AC power is not available on some models.

## Fluid Leaks:

Most of these leaks can be repaired with common tools. Hose clamps and wrenches can cure most hose and fitting leaks. Check all hoses and fitting regularly.

Likely locations for fluid leaks would be in the engine compartment

# Troubleshooting

(water, oils, fuel); under the dash (steering fluid); at the transom (steering fluid, drive fluid, hydraulic fluid); cabin (water from fresh water systems, water from faulty hatch seals).

## Engine:

Engine will not crank:

Check for battery switch position. They need to be in the on position.

Check volt gauges for at least 10-12 volts with the key on. If low, it would indicate a bad battery, a draw on the battery causing it to lose power, charging system problem preventing the battery from being charged while under way, or shore power charger problem preventing the battery from being charged while the boat is plugged into shore power.

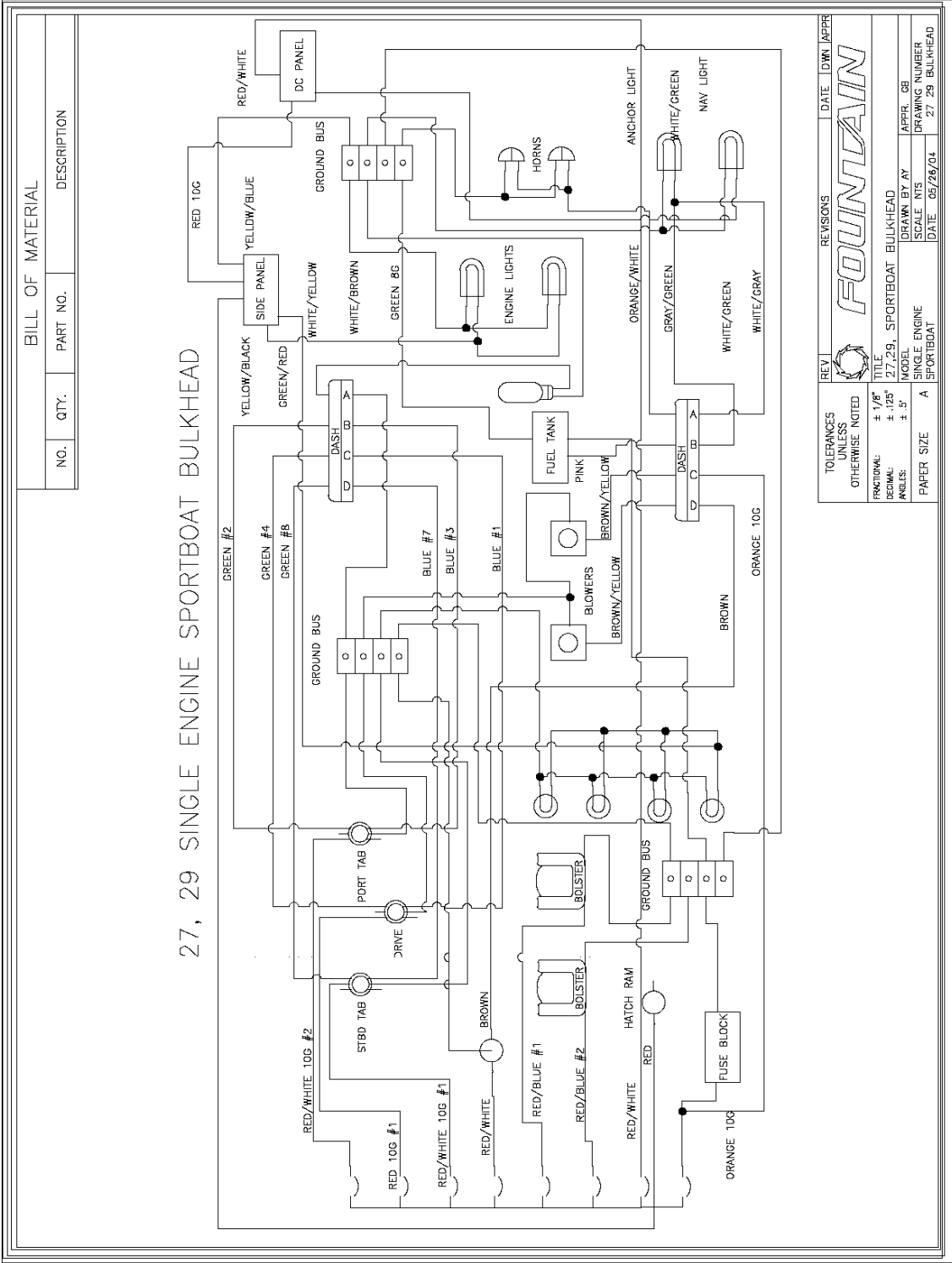
Check that the gearshift levers are in Neutral.

Key switch breakers popped. Reset by pressing the rubber breaker button next to the key switch.

If the engine cranks but does not start, check the position of the safety lanyard switch, and insure that it is in the run position.

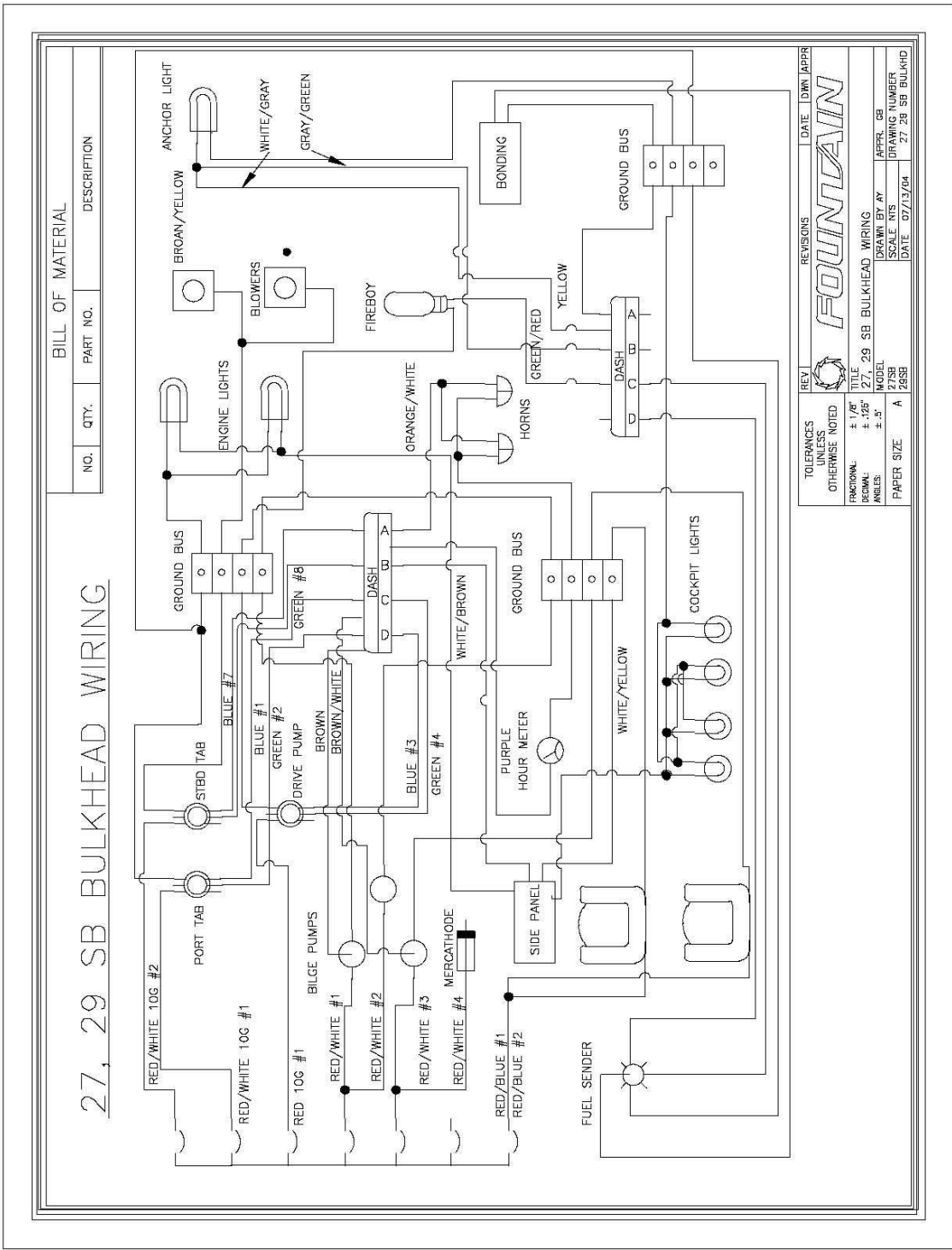
Note: See pre-check section of this manual to avoid most common problems. Trained technicians should service any major problems.

# Electrical Schematic Diagrams

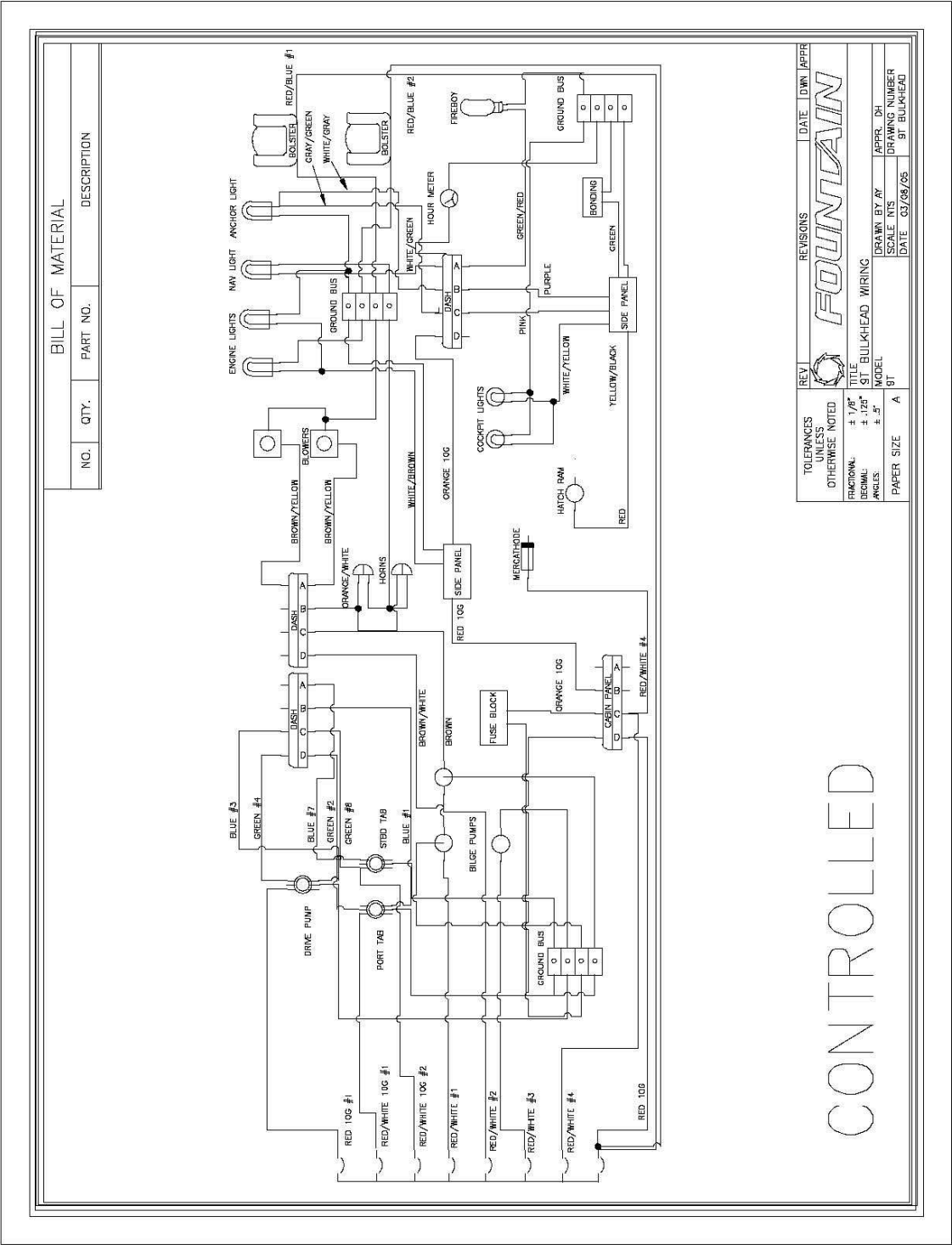




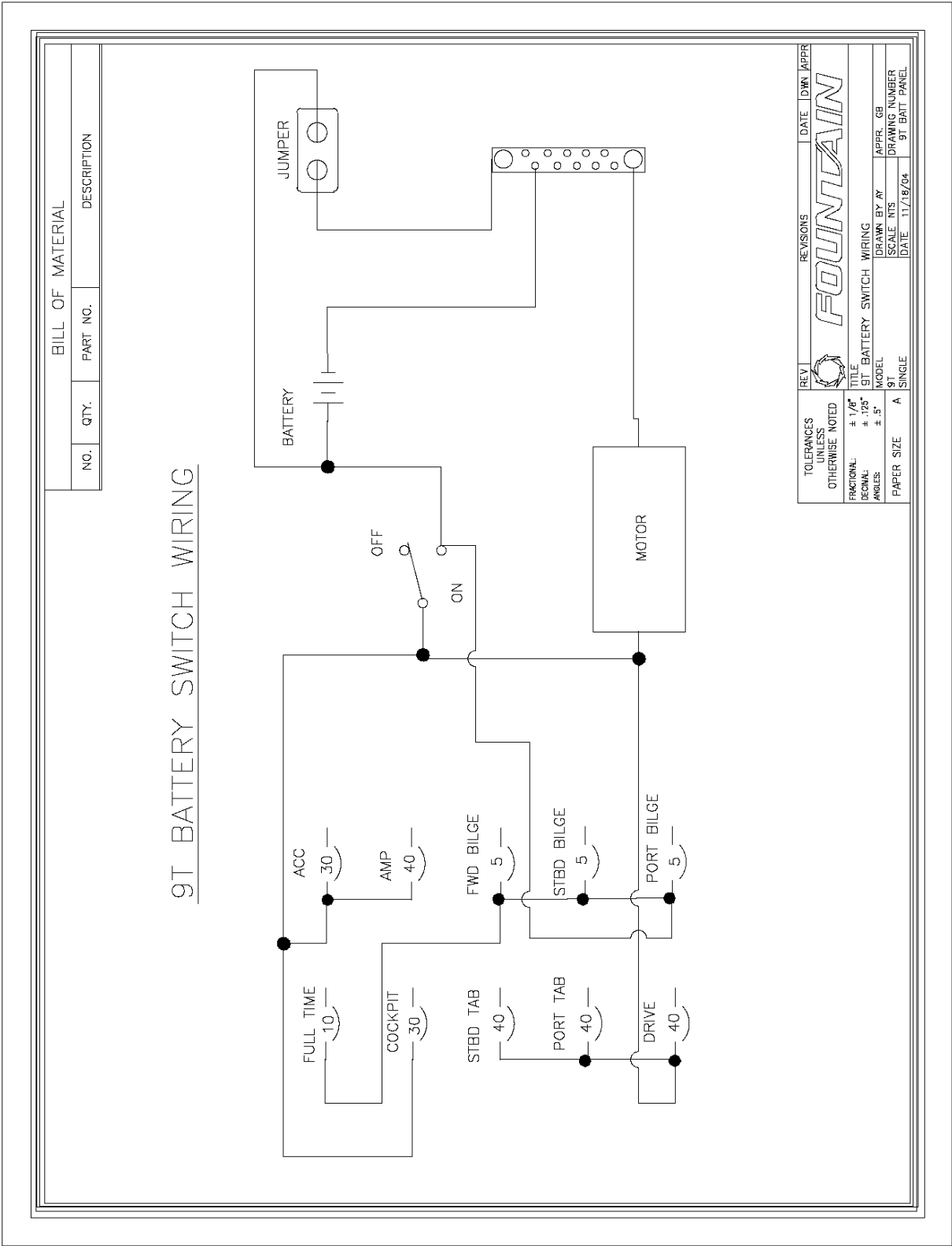
# Electrical Schematic Diagrams



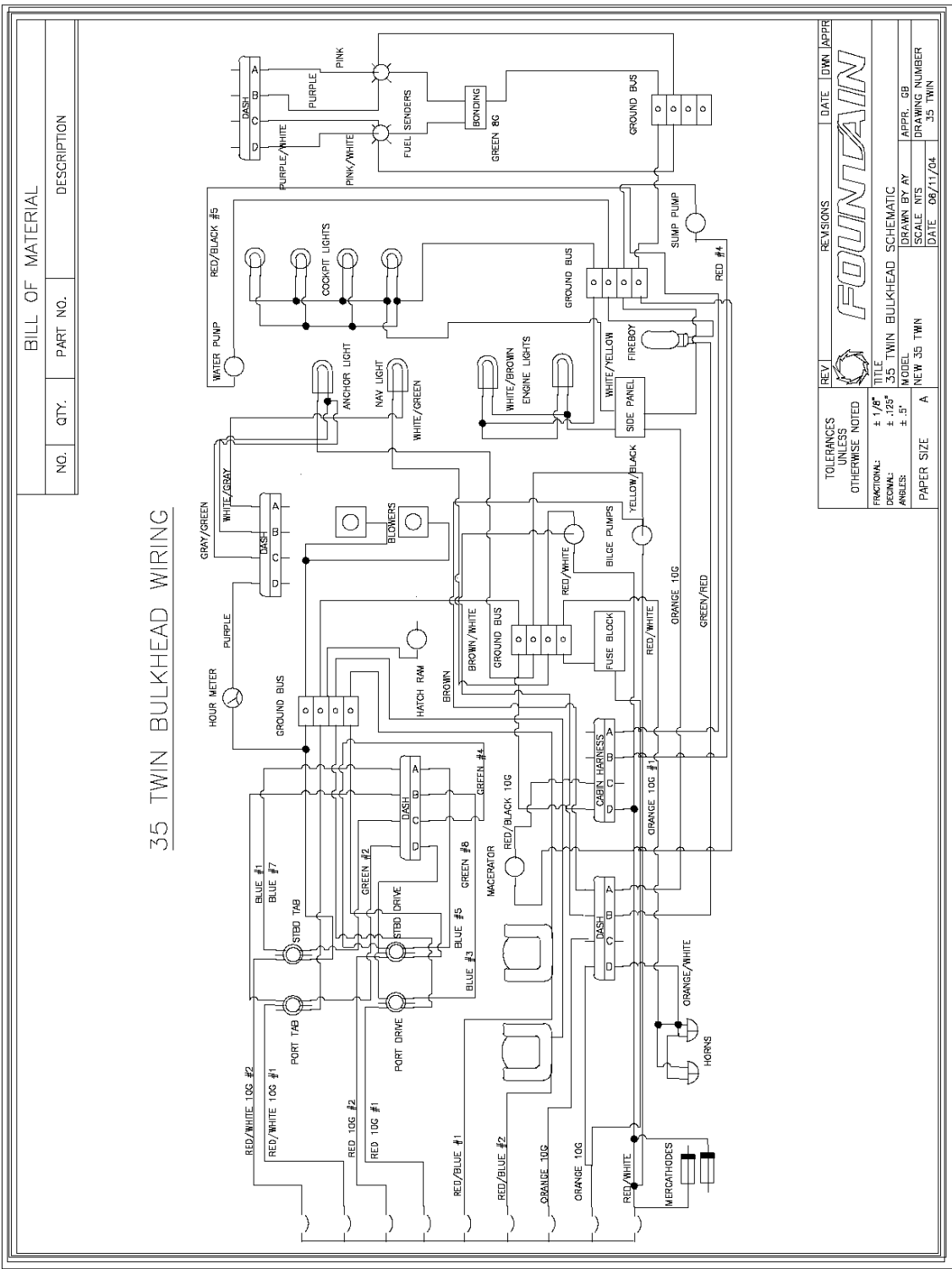
# Electrical Schematic Diagrams



# Electrical Schematic Diagrams



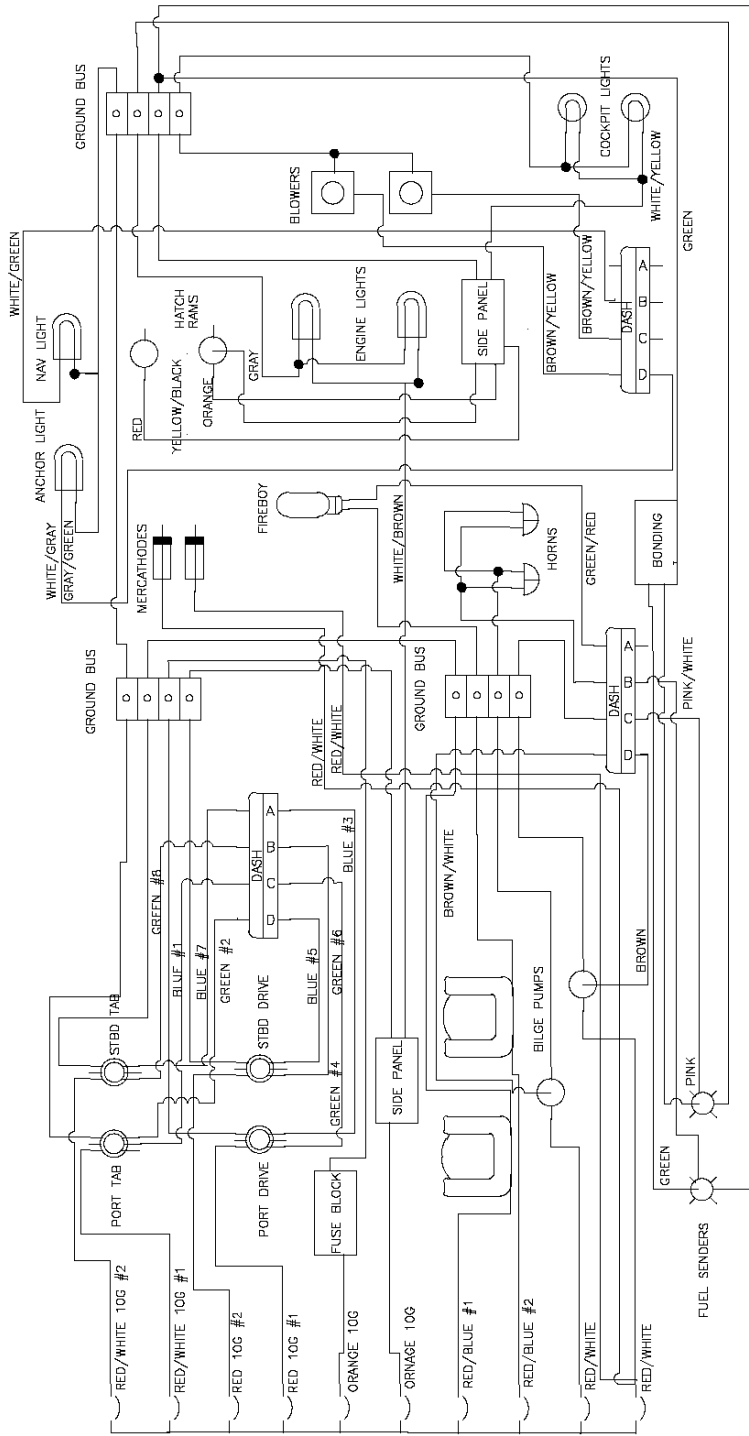
# Electrical Schematic Diagrams



# Electrical Schematic Diagrams

## 35 NEW DECK BULKHEAD

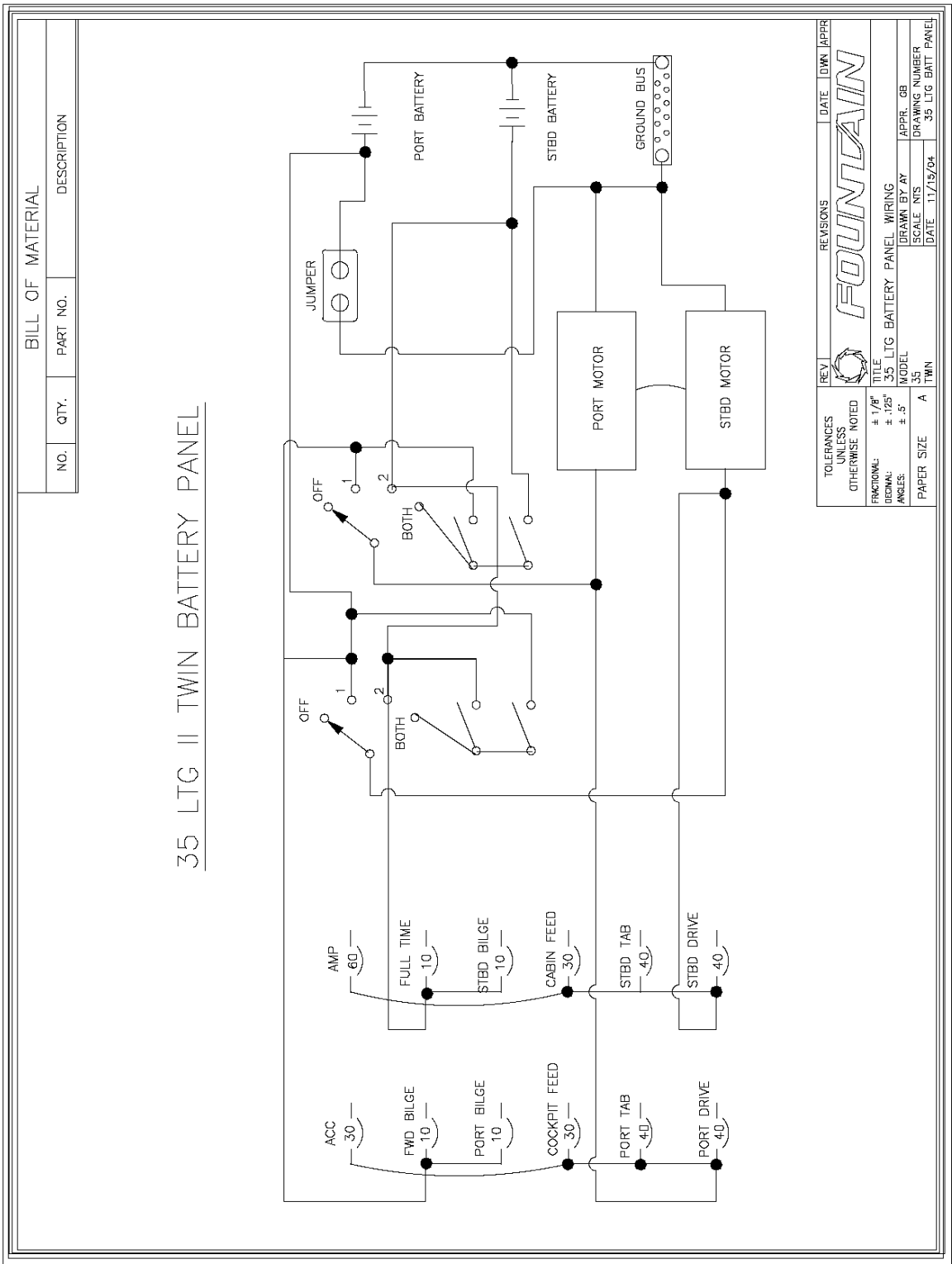
BILL OF MATERIAL		
NO.	QTY.	PART NO.
DESCRIPTION		



TOLERANCES UNLESS OTHERWISE NOTED	REV	REVISIONS	DATE	DWN	APPR
FRACTIONAL: ± 1/64"					
DECIMAL: ± .125"					
ANGLES: ± .5°					
PAPER SIZE A					
<b>FOUNTAIN</b>					
TITLE: 35 NEW DECK BULKHEAD WIRING					
DRAWN BY: AP					
MODEL: 35 LIT					
SCALE: NTS					
DATE: 06/23/04					
DRAWING NUMBER: 35 NEW DECK					

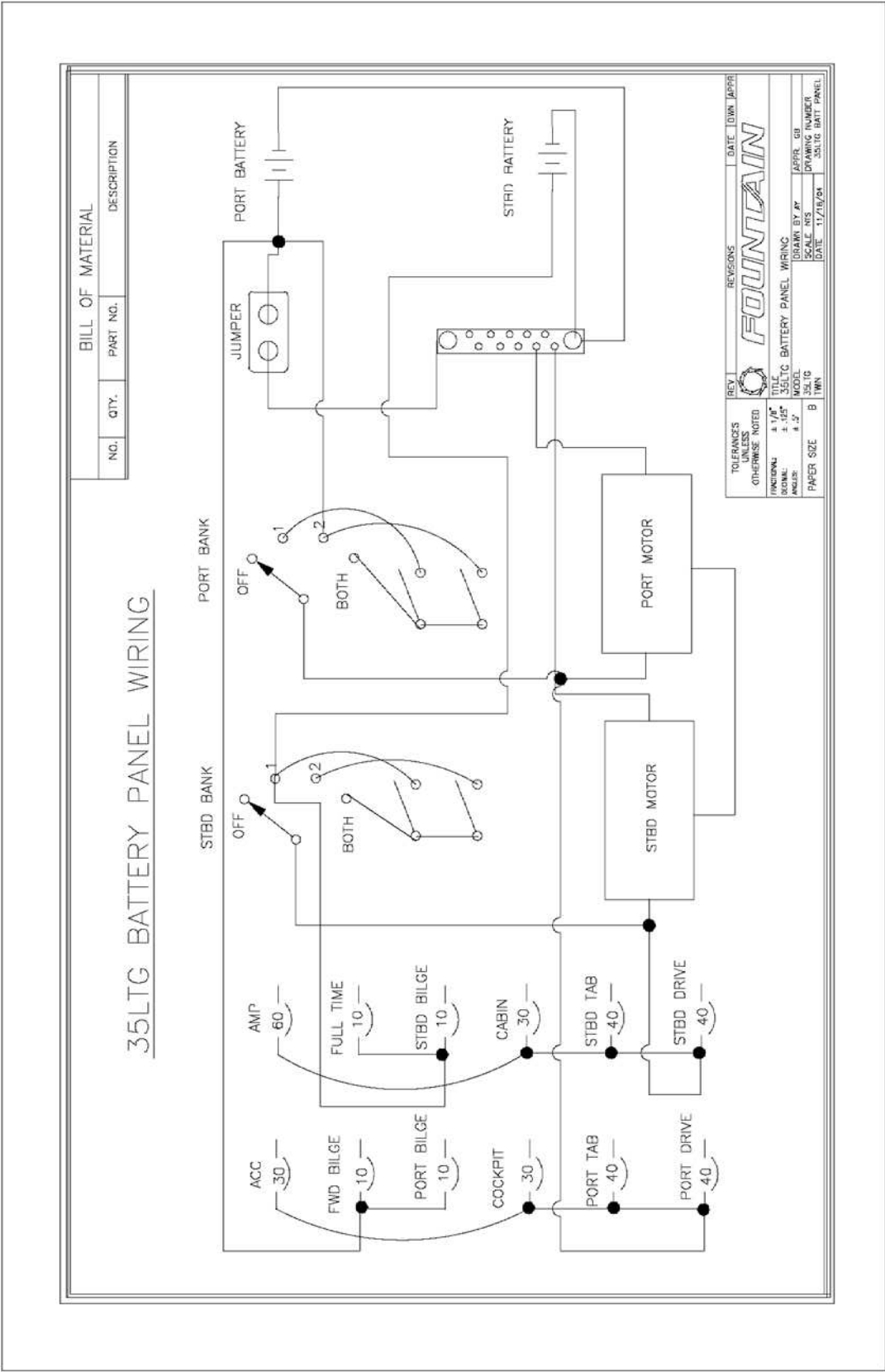


# Electrical Schematic Diagrams

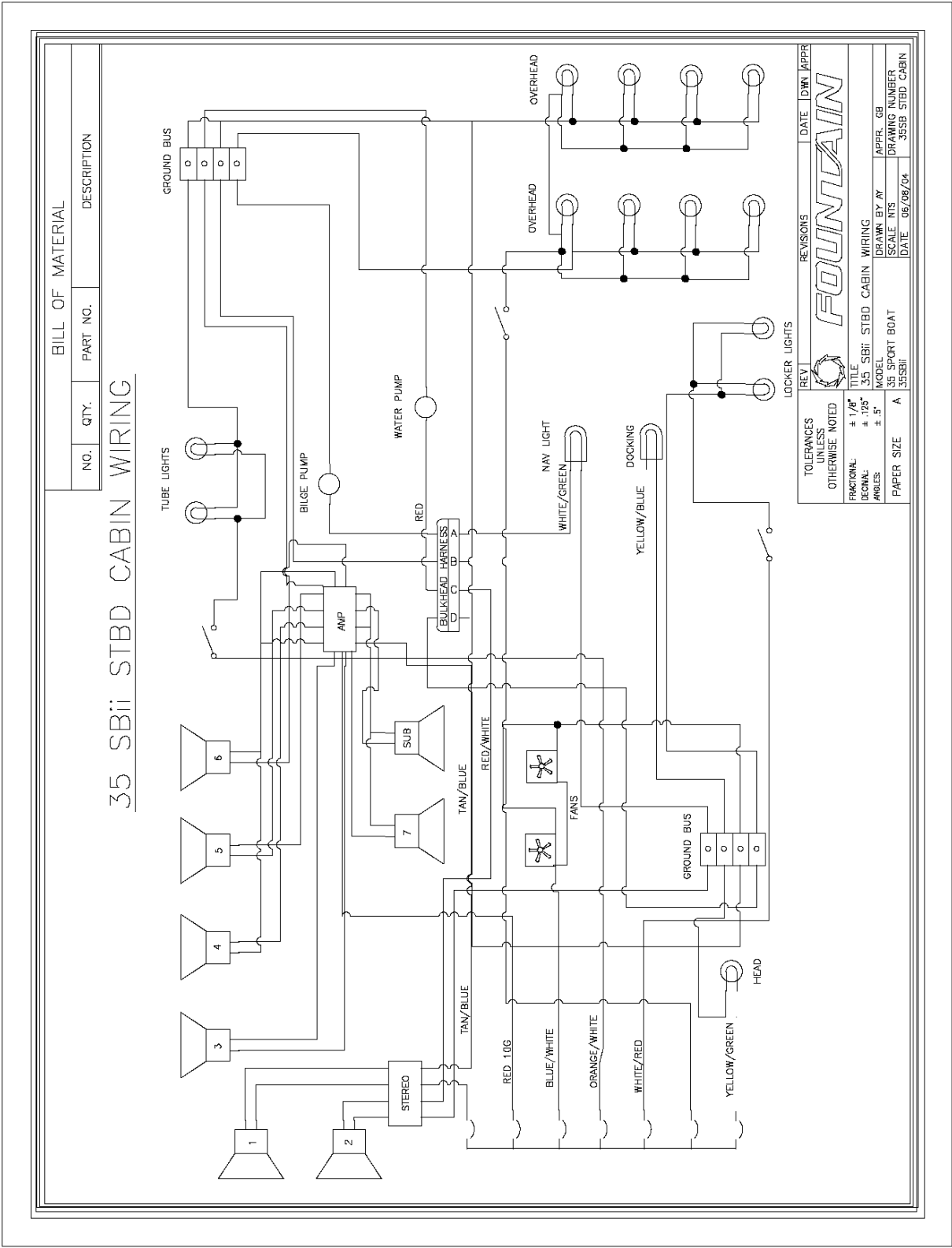




# Electrical Schematic Diagrams

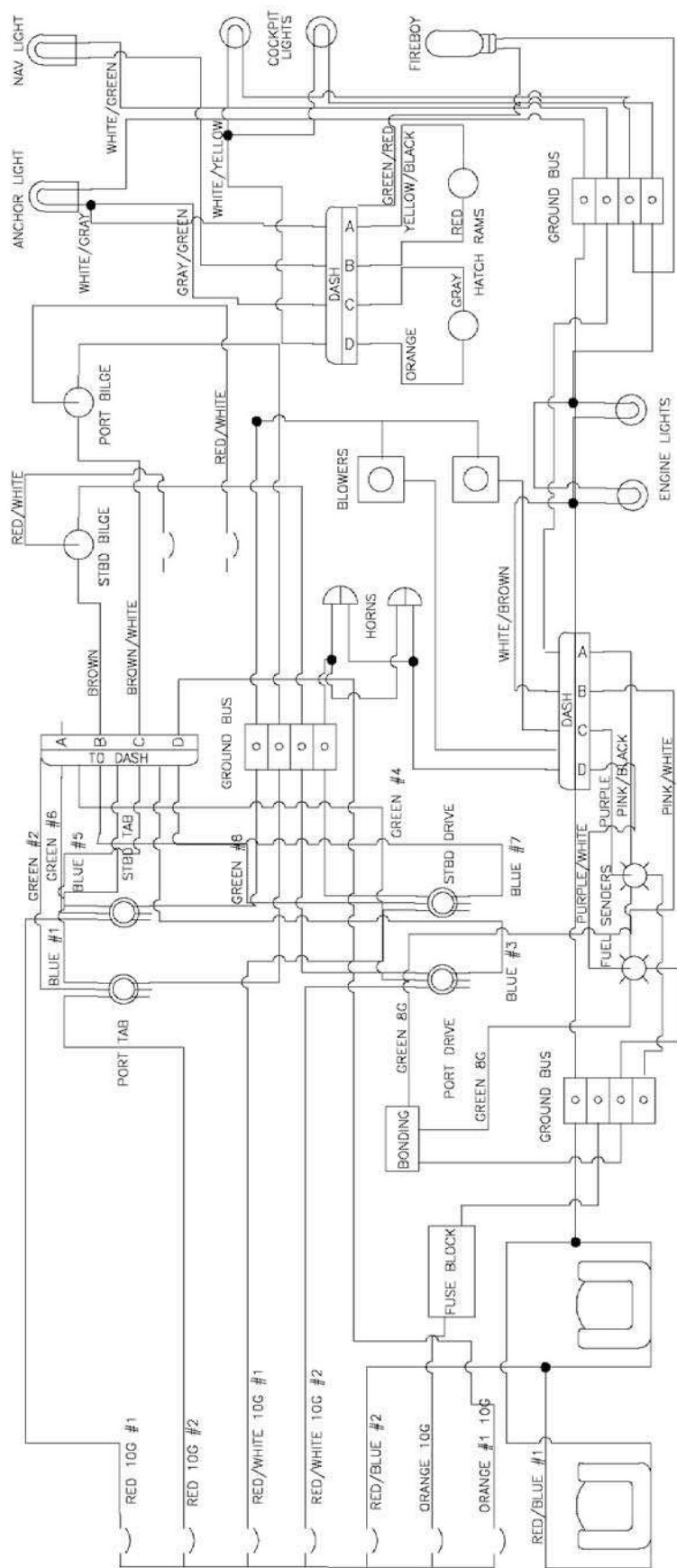


# Electrical Schematic Diagrams

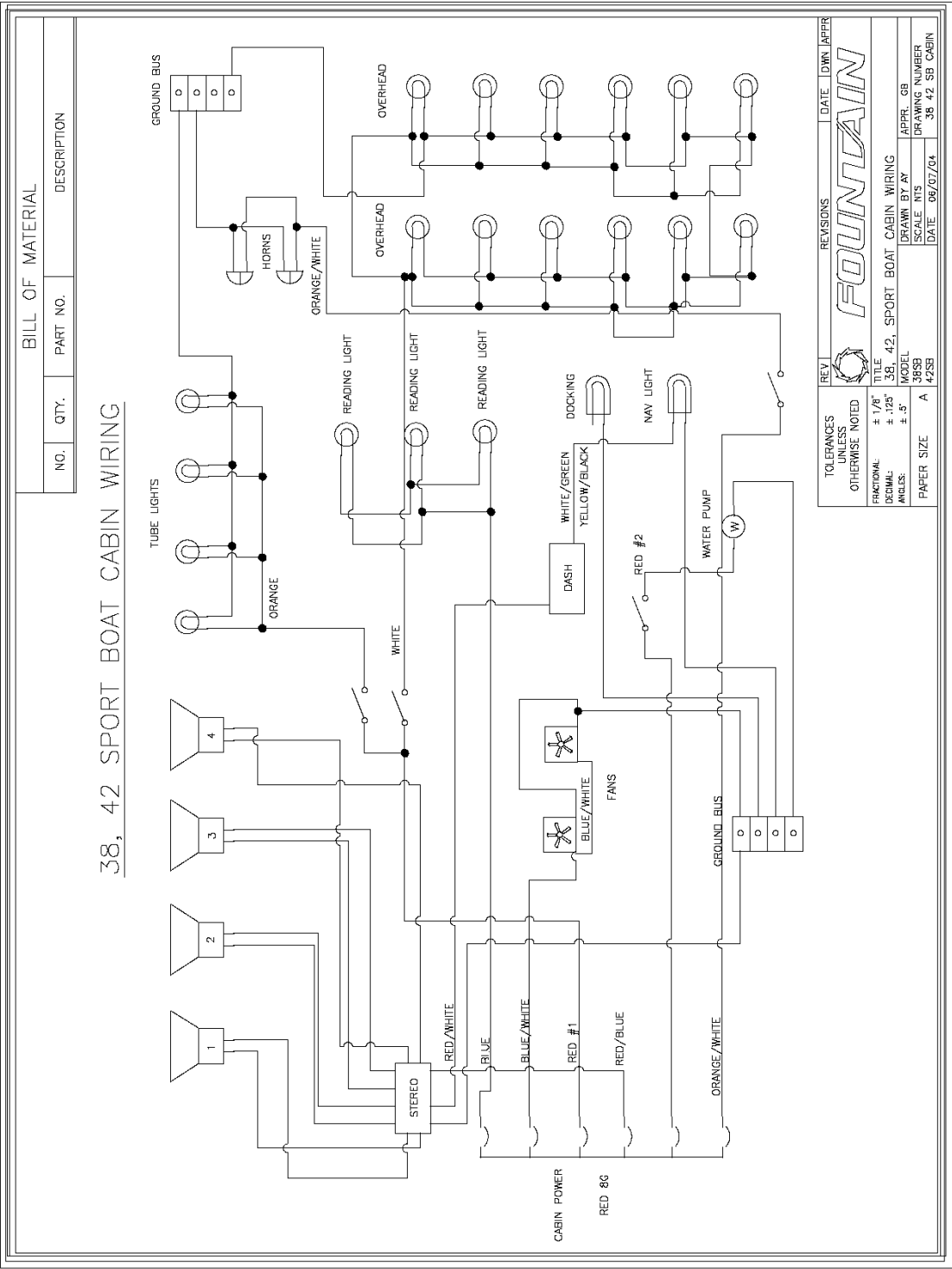


# Electrical Schematic Diagrams

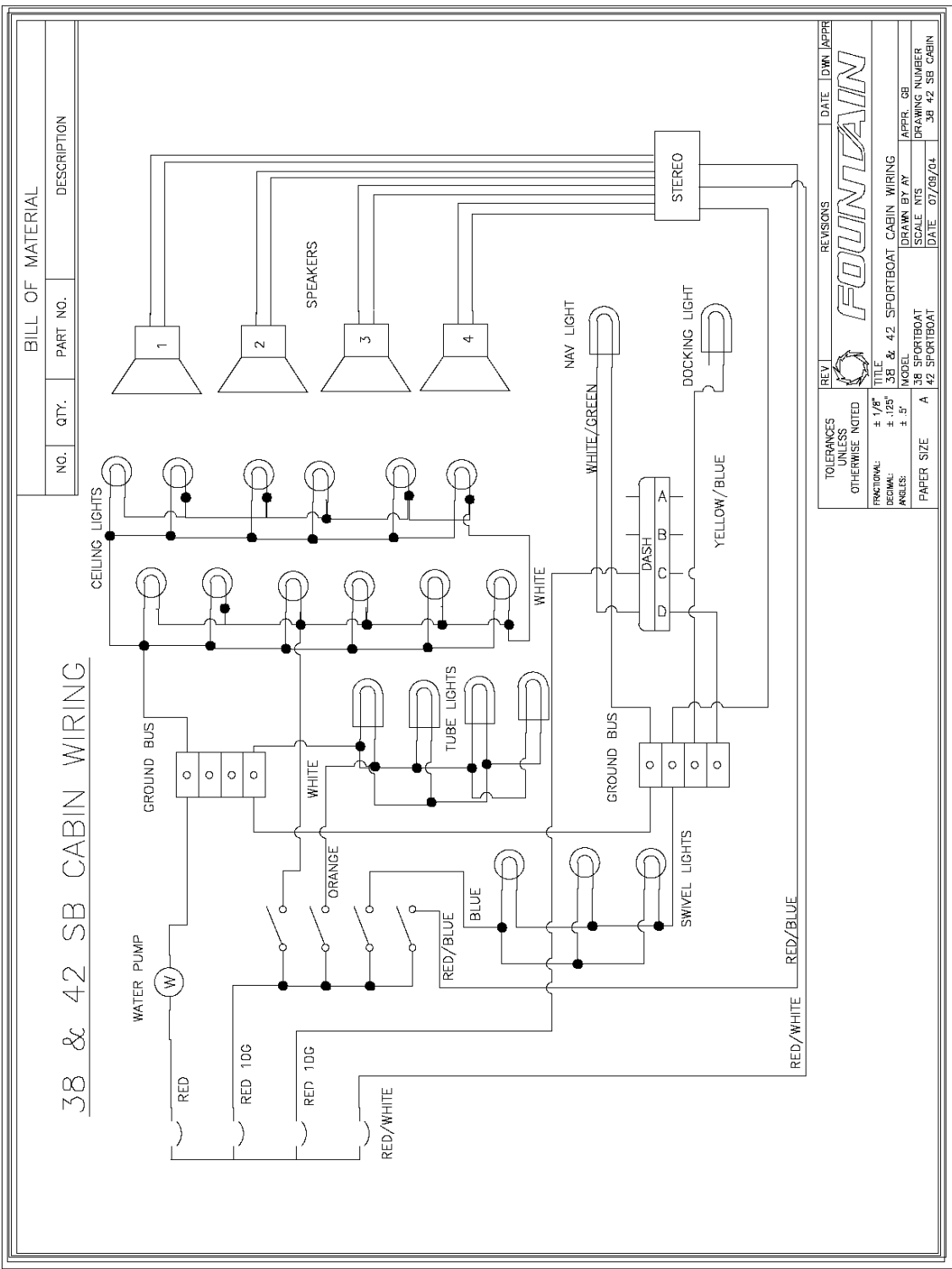
38SB, 42SB BULKHEAD WIRING



# Electrical Schematic Diagrams

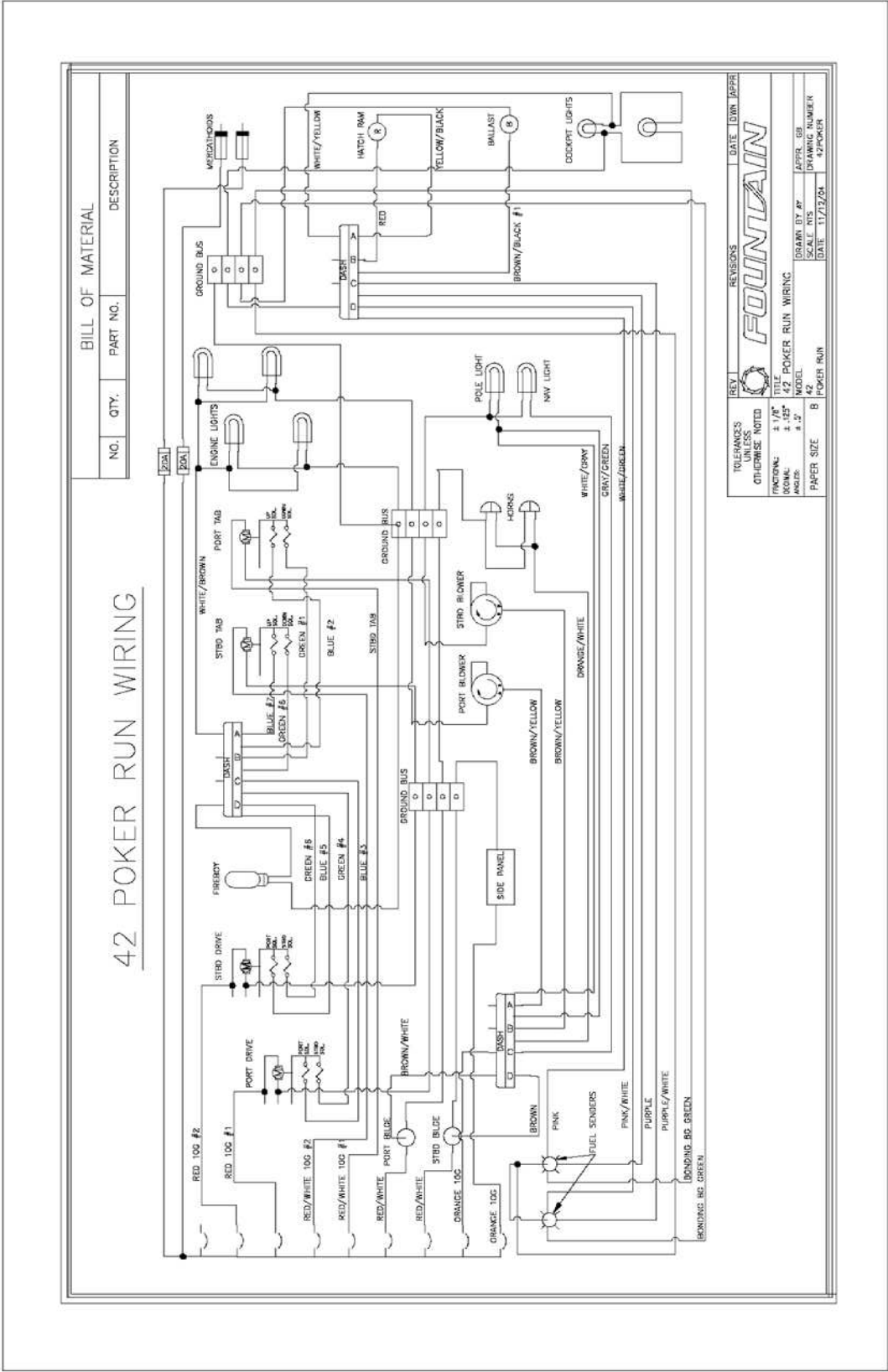


# Electrical Schematic Diagrams

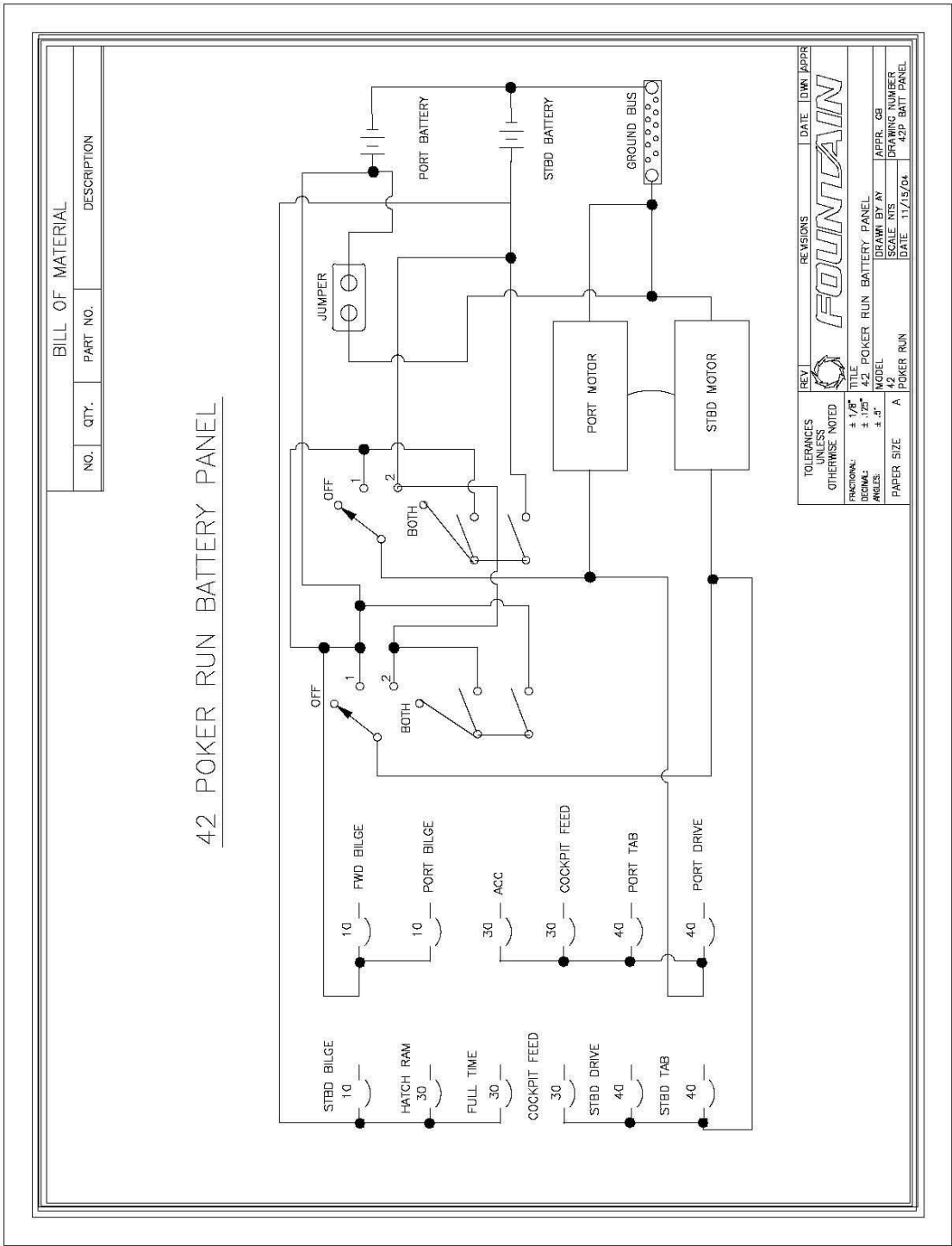




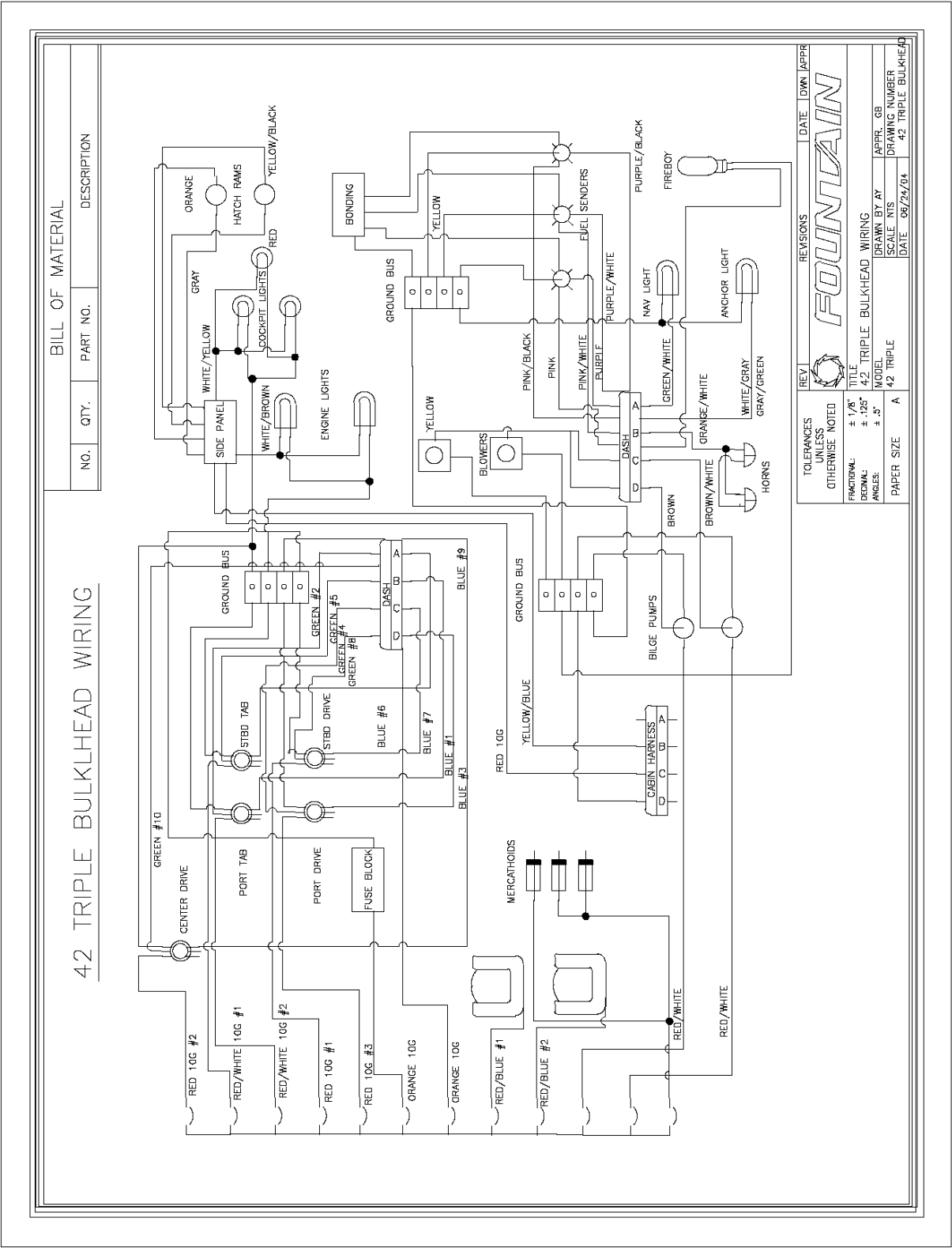
# Electrical Schematic Diagrams



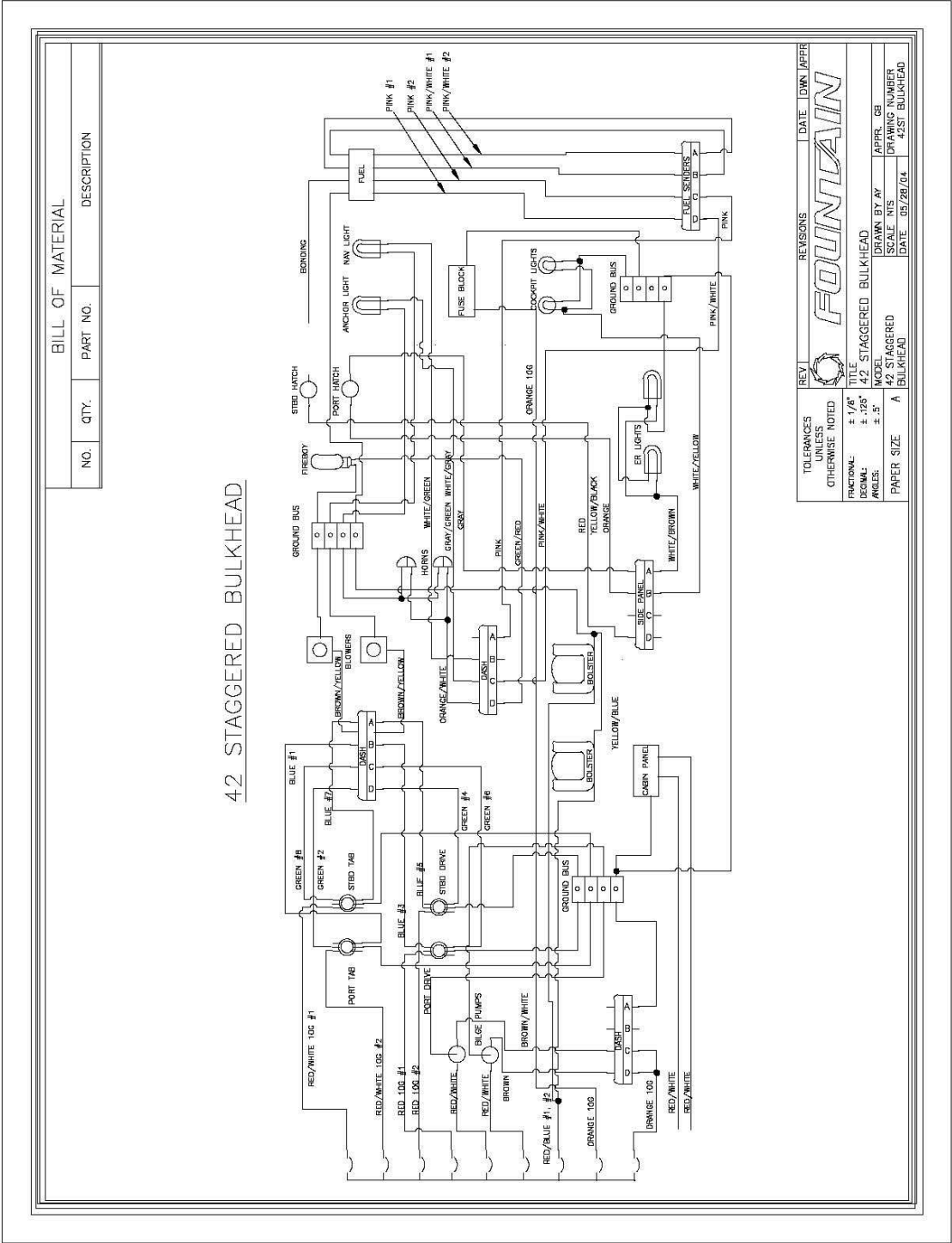
# Electrical Schematic Diagrams



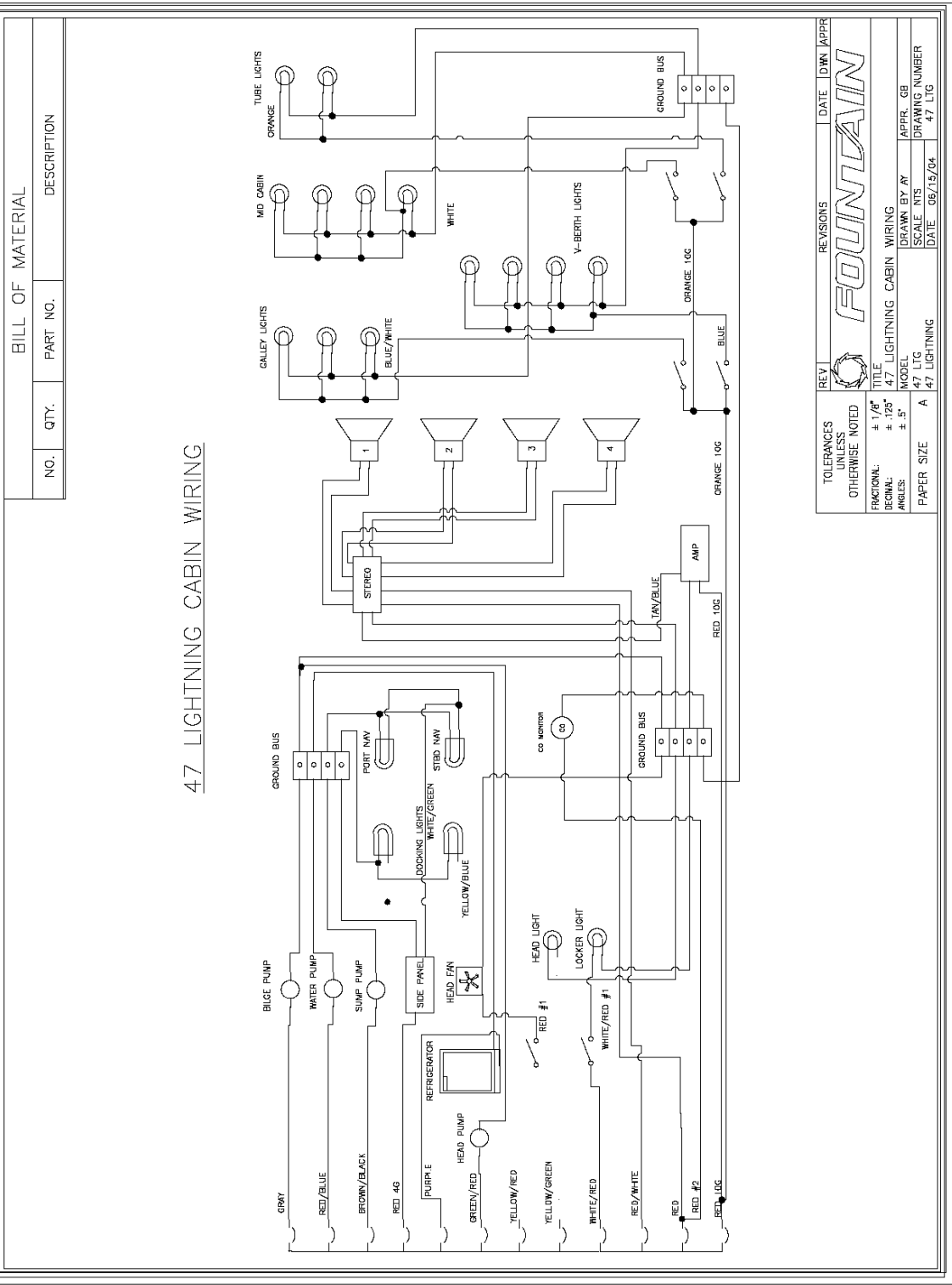
# Electrical Schematic Diagrams



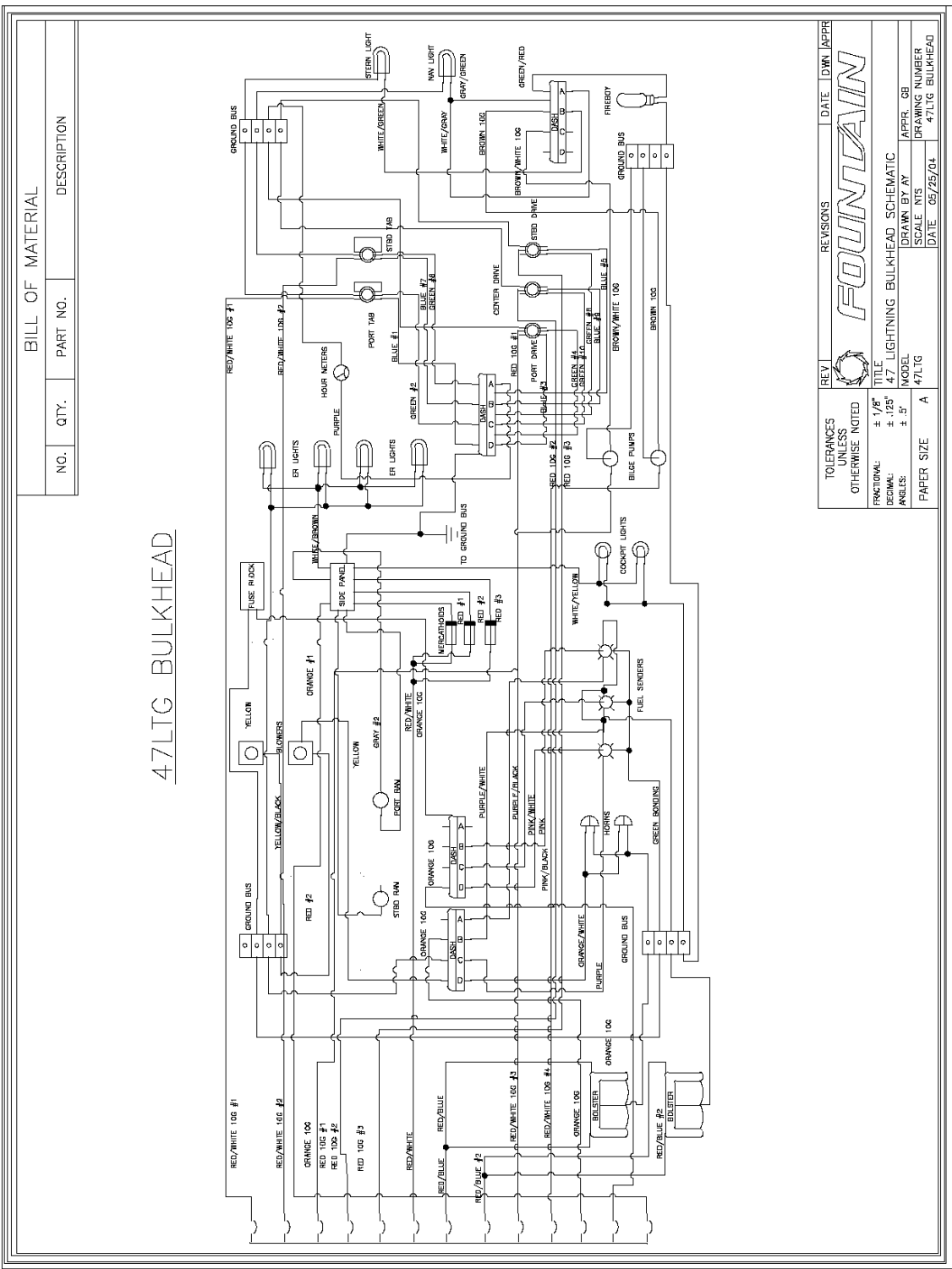
# Electrical Schematic Diagrams



# Electrical Schematic Diagrams

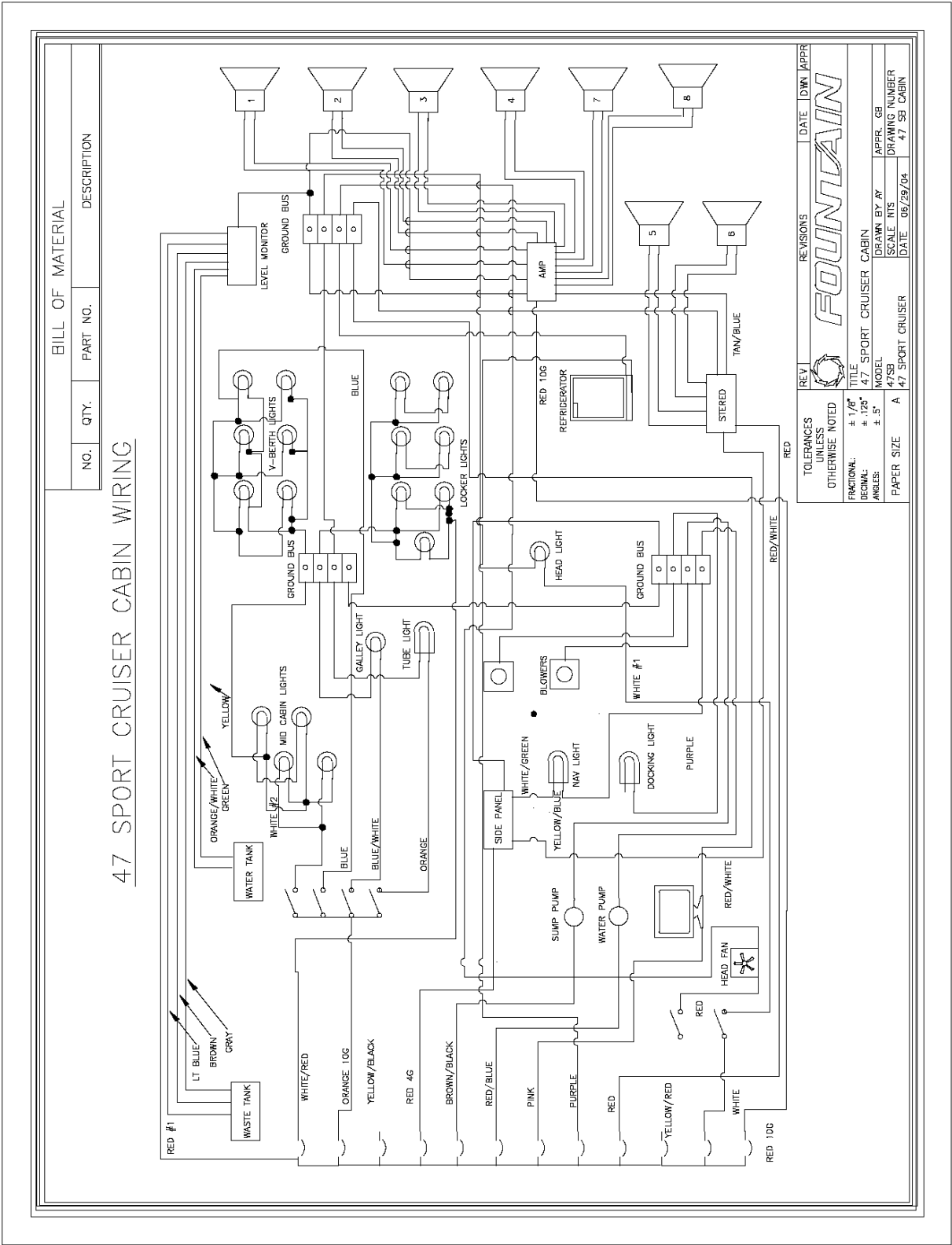


# Electrical Schematic Diagrams





# Electrical Schematic Diagrams



**THIS MANUAL IS NOT INTENDED TO BE ALL INCLUSIVE, AND IS NOT A SUBSTITUTE FOR GENERAL BOATING KNOWLEDGE OR PRACTICE OF COMMON BOATING SAFETY PROCEDURES.**

**FOUNTAIN POWERBOATS RECOMMENDS BOATERS PARTICIPATE IN AN APPROVED UNITED STATES COAST GUARD BOATING COURSE, AND THAT ALL BOATERS OBSERVE SAFE BOATING PRACTICES, INCLUDING BOAT HANDLING, SYSTEMS OPERATION, NAVIGATION, AND MAINTENANCE.**

**PLEASE BE SURE TO REFER TO THE SPECIFIC OWNERS MANUALS FOR THE SYSTEMS INCLUDED ON YOUR BOAT THAT ARE NOT MANUFACTURED BY FOUNTAIN POWERBOATS, INCLUDING BUT NOT LIMITED TO THE POWERTRAIN, GENERATOR SYSTEMS, AIR CONDITIONING SYSTEMS, AC POWER SYSTEMS, NAVIGATION SYSTEMS, ENTERTAINMENT SYSTEMS, ETC.**

**IT IS THE BOAT OWNERS RESPONSIBILITY TO KNOW AND UNDERSTAND ALL OF THE EQUIPMENT ON BOARD YOUR BOAT.**

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