

380 Sundancer

Owner's Manual Supplement

MRP #1209592

This owner's manual supplement has been written to provide additional specific information about your boat and should be read carefully. Insert this supplement in your Sport Yacht Owner's Manual as *Section 12 – Supplement*.

The owner's manual packet has been compiled to help you to operate your craft with safety and pleasure. It contains details of the craft, the equipment supplied or fitted, its systems and information on its operation and maintenance. Please read the information in it carefully, and familiarize yourself with the craft before using it.

If this is your first craft, or you are changing to a type of craft you are not familiar with, for your own comfort and safety, please ensure that you obtain handling and operating experience before “assuming command” of the craft. Your dealer or yacht club will be pleased to advise you of local sea schools, or competent instructors.

PLEASE KEEP THIS OWNER'S MANUAL PACKET IN A SECURE PLACE, AND HAND IT OVER TO THE NEW OWNER WHEN YOU SELL THE CRAFT.

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(This booklet contains 58 pages.)

WARRANTY INFORMATION

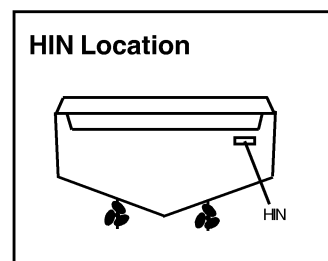
Sea Ray's® warranty is better than ever. Find the warranty information card in your owner's manual packet for complete details. If for some reason the card is missing, contact your Sea Ray dealer for a new one.

CONSTRUCTION STANDARDS

Sea Ray's® commitment - Excellence by Design - has enabled us to create a superior craft providing you with comfort, performance, safety and dependability. All our boats comply with the safety standards set by the United States Coast Guard and are designed, engineered and manufactured in accordance with applicable recommendations and guidelines of the American Boat and Yacht Council (ABYC) certified by the National Marine Manufacturers Association (NMMA).

HULL IDENTIFICATION NUMBER (HIN)

The "Hull Identification Number," located on the starboard side of the transom, is the most important identifying factor and must be included in all correspondence and orders. Failure to include it only creates delays. Also of vital importance are the engine serial numbers and part numbers when writing about or ordering parts for your engine. Refer to the engine owner's manual for locations.



SERVICING YOUR SEA RAY®

When your boat needs service beyond regular maintenance it should be taken to an authorized Sea Ray® dealer.

To find a Sea Ray® dealer in your area call Sea Ray® Customer Service at:

1-800-SRBOATS.
Fax: 1-314-213-7878

If a problem is not handled to your satisfaction:

1. Discuss any warranty-related problems directly with the service manager of the dealership or your sales person. Give the dealer an opportunity to help the service department resolve the matter for you.



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Sea Ray Boats, Inc. 2600 Sea Ray Blvd., Knoxville, TN 37914.

For information call 1-800-SRBOATS, or fax 1-314-213-7878.

Internet address: <http://www.searay.com>

Note: Not all accessories shown in pictures or described herein are standard equipment or even available as options. Options and features are subject to change without notice.

2. If a problem arises that has not been resolved to your satisfaction by your dealer, contact Sea Ray Boats at 1-800-SRBOATS and the appropriate customer service department information will be provided to you.

To find repair and parts facilities for equipment installed on your boat, refer to the original equipment manuals (OEMs) found in the owner's manual packet.

LIFE SAVING EQUIPMENT (Personal Flotation Device (PFD))

STORAGE: The 380 DA offers lifesaving equipment storage in the helm companion seat compartment.

OPERATION: Wear PFD according to manufacturer recommendations. See pamphlet *Federal Requirements And Safety Tips For Recreational Boats* in the owner's packet or get one from your dealer.

MAINTENANCE: Rinse with fresh water and let dry thoroughly. Do not store in a damp compartment. Avoid the possibility of mildew.

BOAT STORAGE

WET STORAGE PROCEDURES: Special care for boats that are moored: If permanently moored in salt water or fresh water, your boat will collect marine growth on its bottom. This will detract from the boat's beauty and greatly affect its performance. There are two methods of preventing this:

- Periodically haul the boat out of the water and scrub the bottom with a bristle brush and a solution of soap and water.

- Paint the hull below the waterline with a good grade of antifouling paint. DO NOT paint the engine drive surfaces.

NOTE: There are EPA regulations regarding bottom paint application. Consult your marine paint dealer for proper application methods.

SECURITY CONSIDERATIONS: Be conscious of the security of your boat. Always remove the keys from the ignition, lock hatches, lock the cabin door. Remove and stow any removable electronic gear (fishfinders, LORAN, etc.) and personal gear (fishing poles, etc.) normally left aboard your boat.

TROUBLESHOOTING

List of Reference Manuals and Drawings

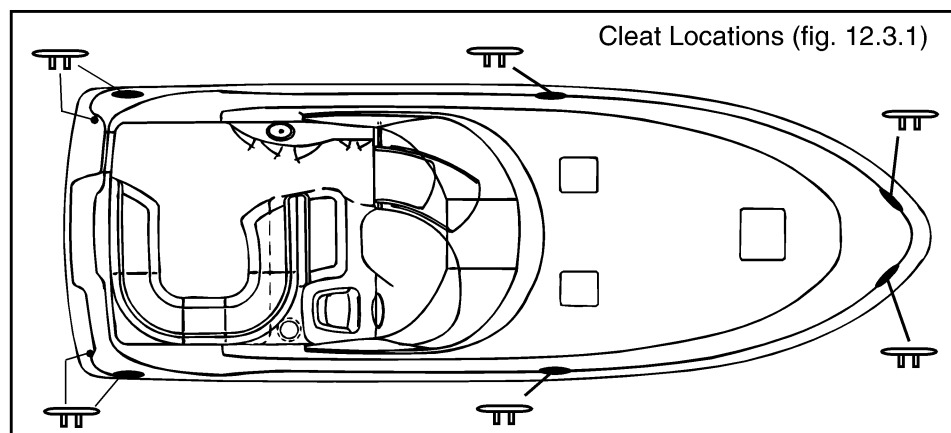
PERFORMANCE: Refer to the owner's manual.

ENGINE: Refer to the owner's manual and/or the engine manual.

ELECTRICAL: Refer to electrical section of the owner's manual and electrical schematics in this owner's manual supplement. Only a qualified marine electrical technician may service the boat's electrical system.

CLEATS

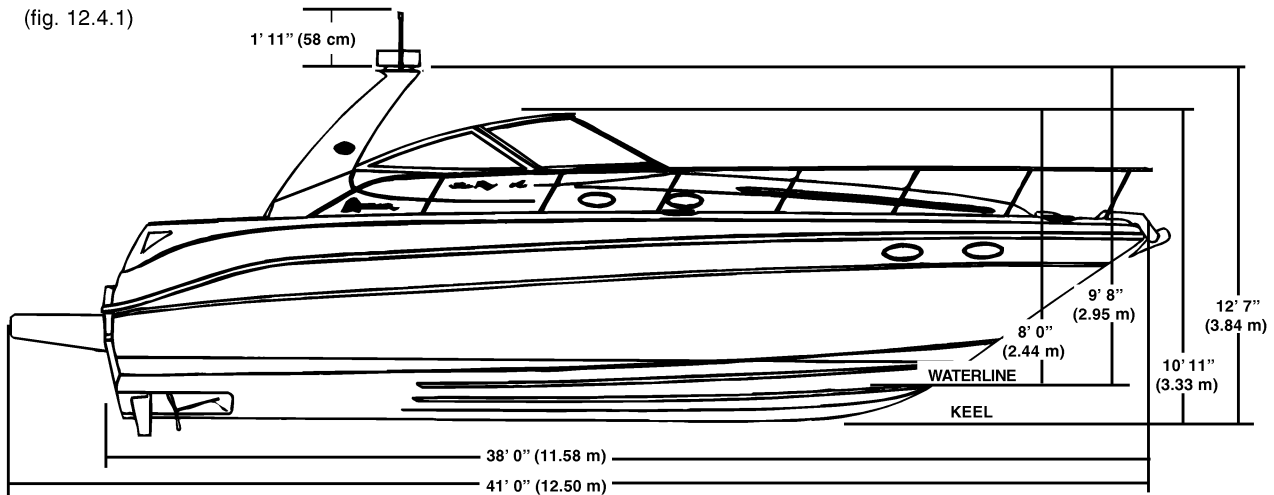
Cleats are intended for mooring use only. Do not use cleats for towing or lifting the boat. Figure 12.3.1 illustrates the location of cleats on your boat.



Specifications & Dimensions

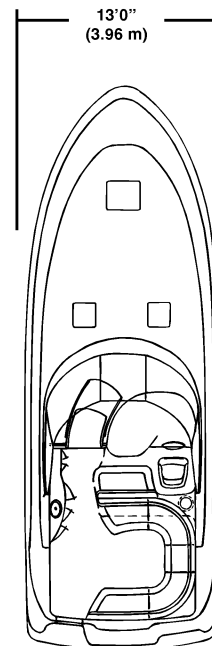
Profile

(fig. 12.4.1)



SPECIFICATIONS & HEIGHT DIMENSIONS

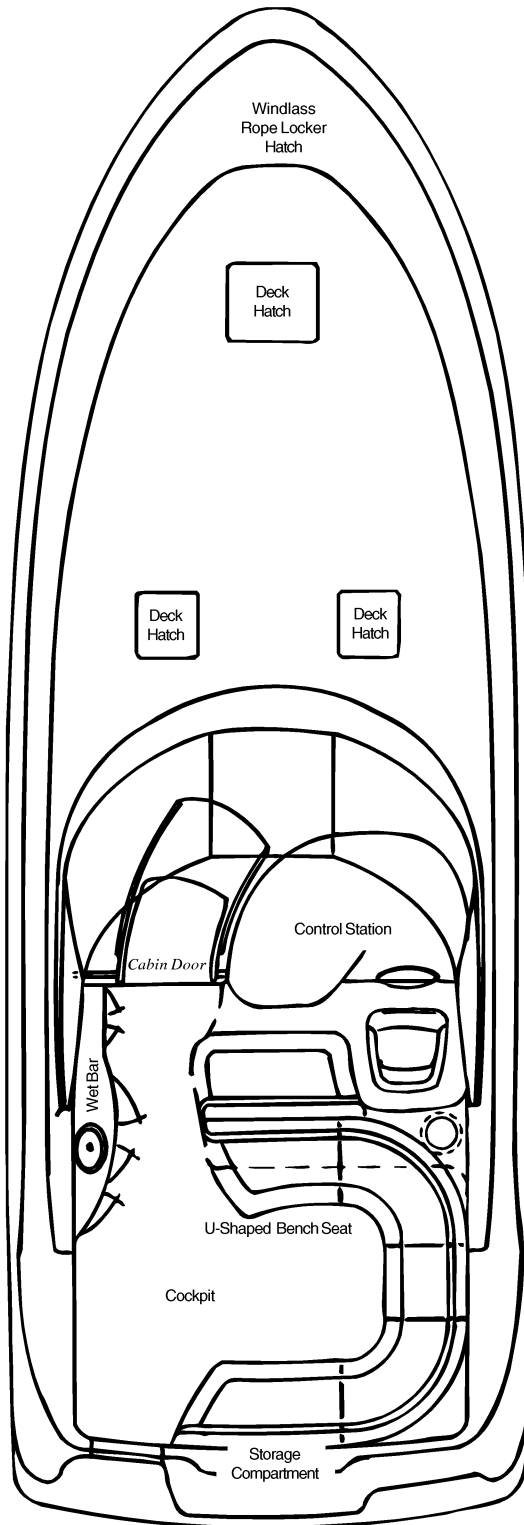
Overall Length	38' 0" (11.58 m)
w/Standard Platform	41' 0" (12.50 m)
Beam	13' 0" (3.96 m)
Draft	32" (81 cm)
Dry Weight – Standard Power ..	18,300 lbs. (8,300 kg)
Fuel Capacity	275 gal. (1,040.9 liters)
Usable Fuel	261 gal. (989 liters)
Water Capacity	70 gal. (265 liters)
Holding Tank	40 gal. (151.4 liters)
Dead Rise	19.5°
Keel To Top Of Windshield	10' 11" (3.33 m)
Keel To Top Of Spoiler	12' 7" (3.84 m)
Waterline To Top Of Windshield	8' 0" (2.44 m)
Waterline To Top Of Spoiler	9' 8" (2.95 m)
Spoiler To Top Of Mastlight	1' 11" (58 cm)



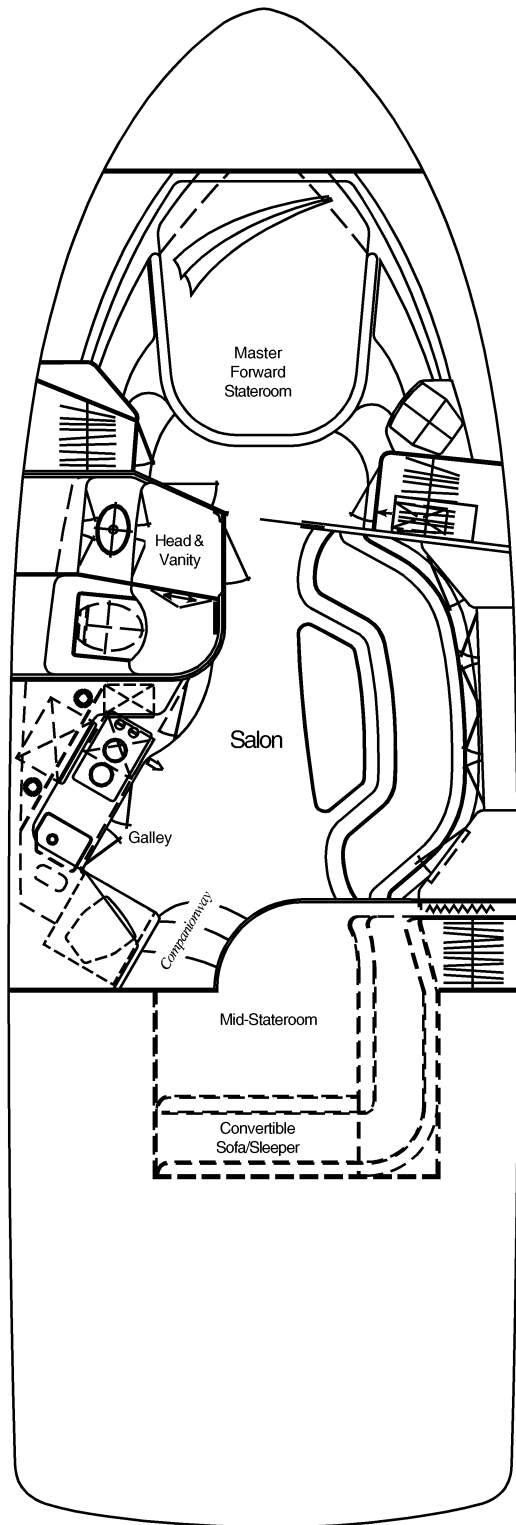
(fig. 12.4.2)

Standard Accommodation Plans

Main Deck (Floor Plan)
(fig. 12.5.1)



Mid Deck (Floor Plan)
(fig. 12.5.2)



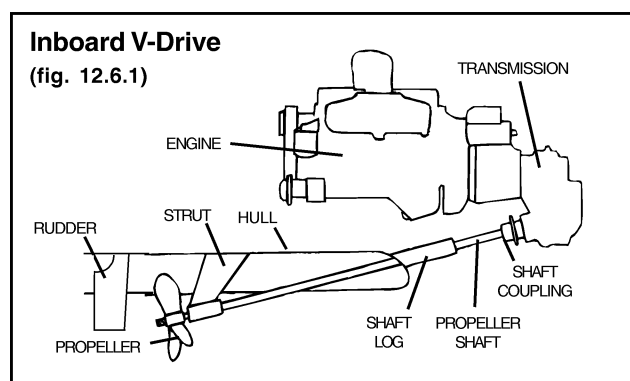
Supplemental General Information

PROPULSION SYSTEM



The standard engine is an inboard V-drive type propulsion system. This system incorporates an inboard engine with an angled transmission that allows the drive shaft to pass through the hull under the engine.

REFER TO THE OWNER'S MANUAL AND ENGINE OWNER'S MANUAL FOR OPERATING INSTRUCTIONS AND WARRANTY INFORMATION.



HEAD SYSTEM



Head System information can be found in *Section 6 Head System* of the owner's manual. On page 12.12 are illustrations of the 380 DA head system layout.

To empty holding tanks:

1. Make sure macerator seacock valve is open. (see fig.12.12.1). Follow Dockside Pump-Out and Macerator instructions in *Section 6 Head System*.
2. Valve can be left in the open position after holding tank is empty.

REFER TO THE HEAD SYSTEM OWNER'S MANUAL IN THE OWNER'S PACKET FOR INSTRUCTIONS AND WARRANTY INFORMATION.

WATER SYSTEM



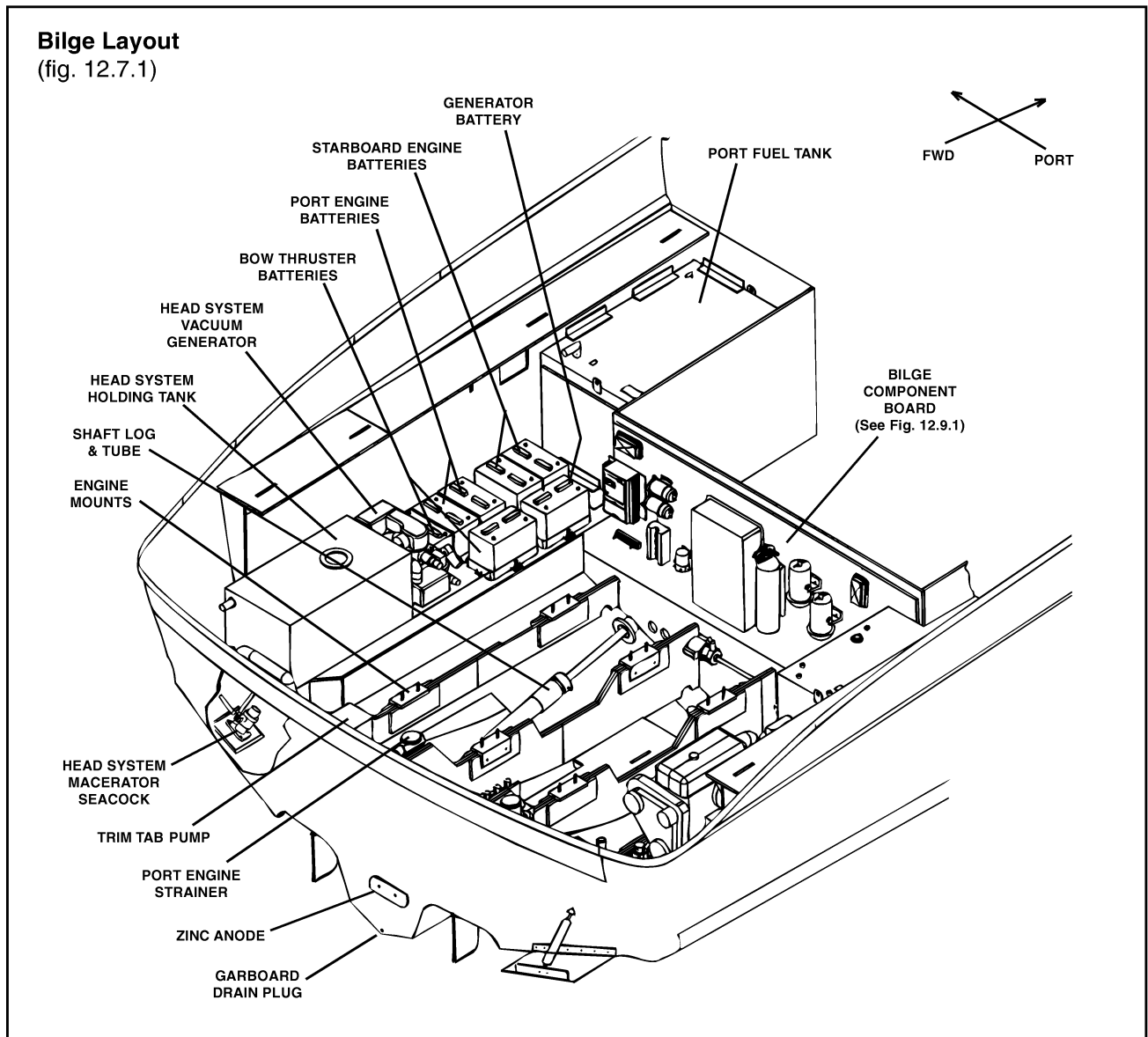
Water System information can be found in *Section 5 Water System* of the owner's manual. On page 12.10 are illustrations of the 380 DA water system layout.

REFER TO THE OWNER'S MANUAL AND OWNER'S PACKET FOR INSTRUCTIONS AND WARRANTY INFORMATION.

Supplemental General Information

380 SUNDANCER BILGE LAYOUT

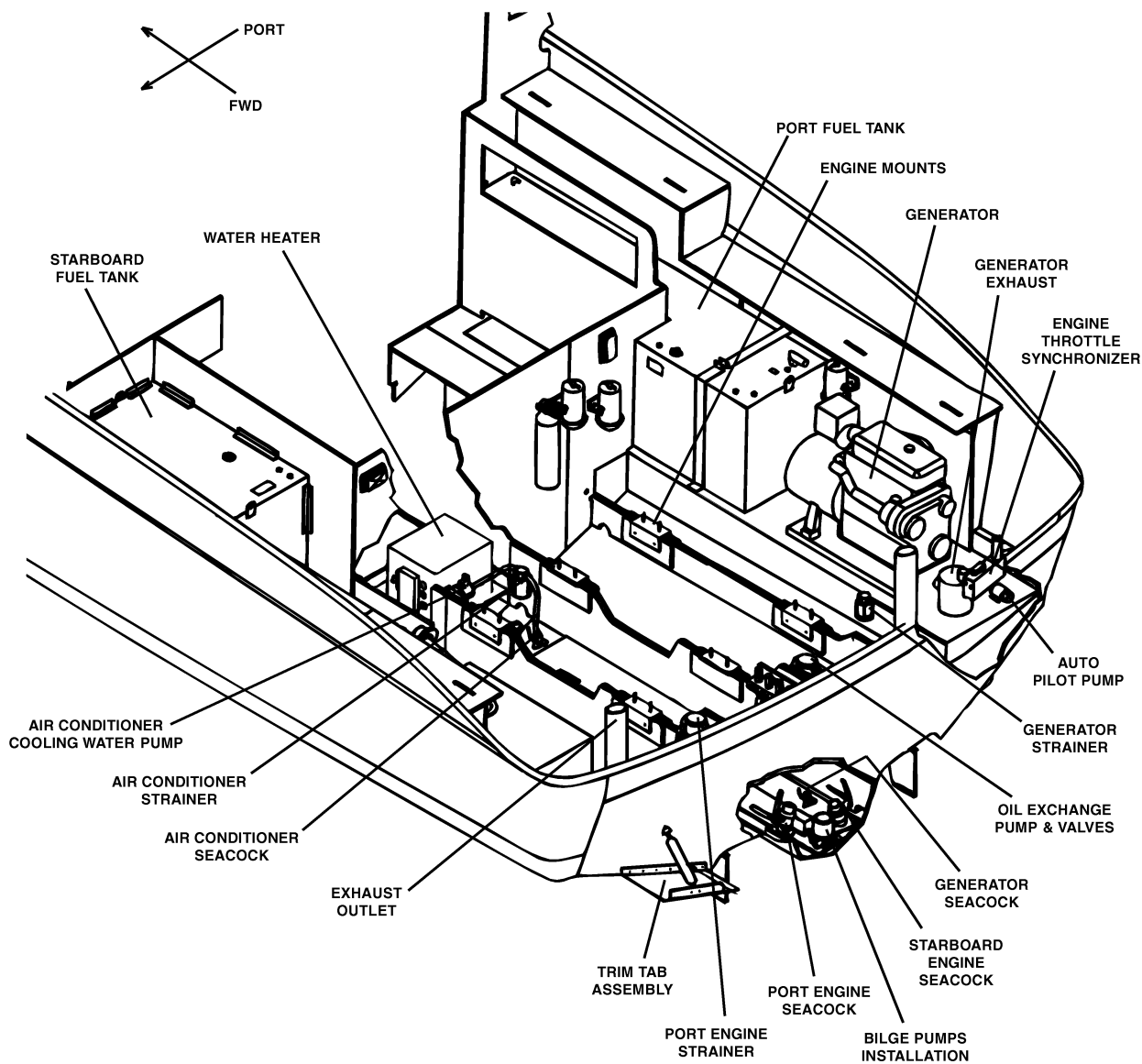
Bilge Layout
(fig. 12.7.1)



Supplemental General Information

380 SUNDANCER BILGE LAYOUT

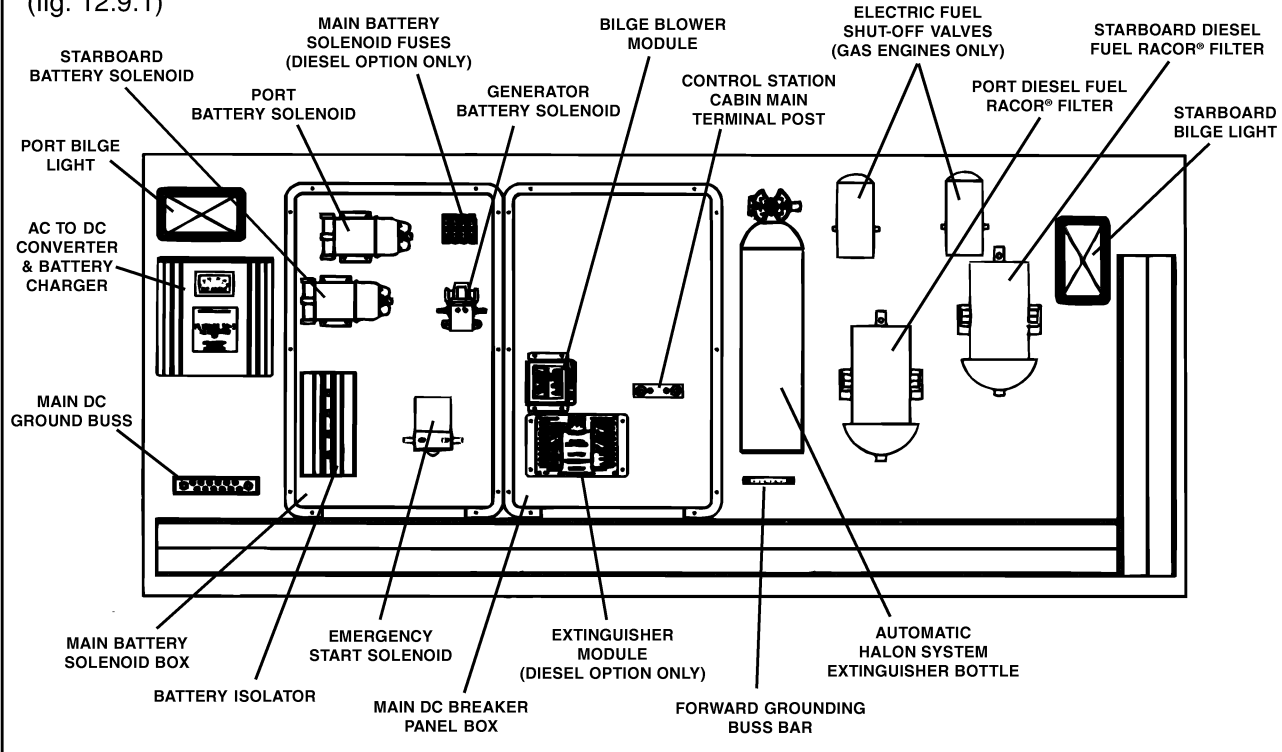
Bilge Layout
(fig. 12.8.1)



Supplemental General Information

Bilge Accessory Board

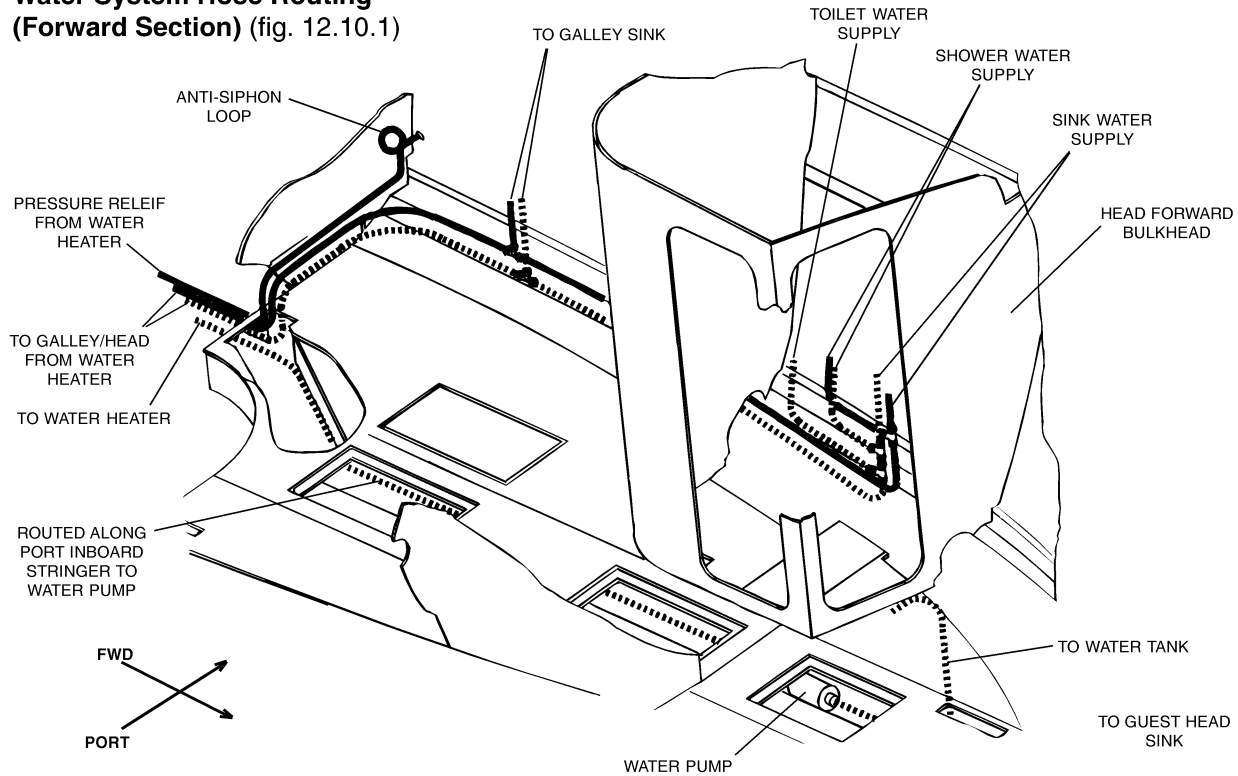
(fig. 12.9.1)



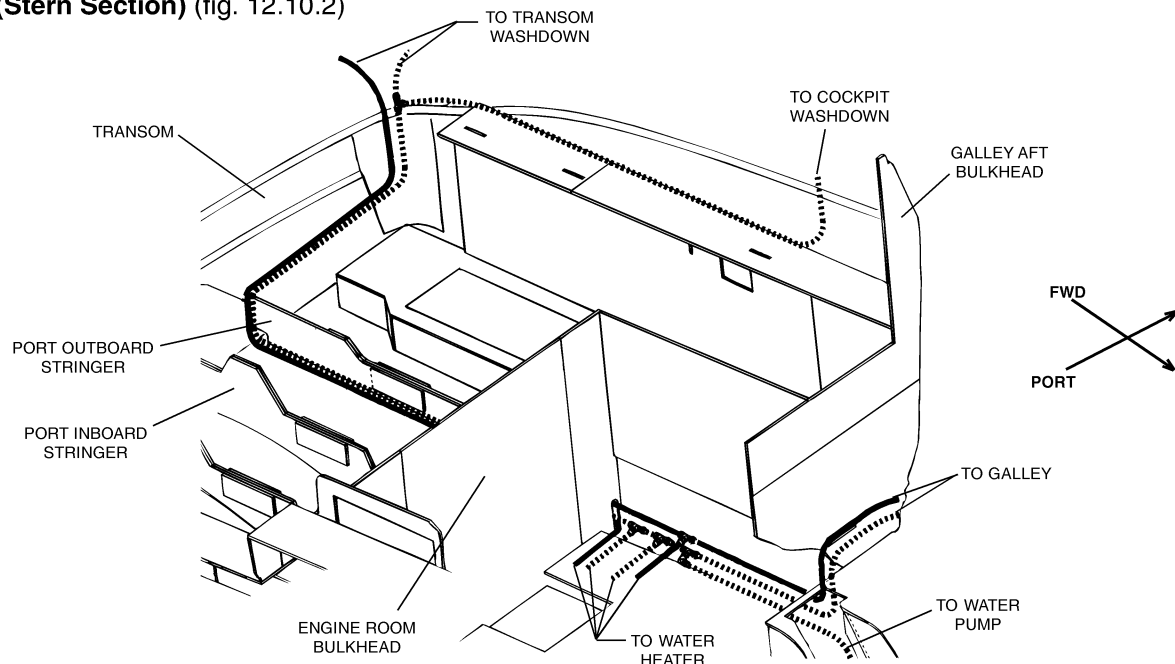
Supplemental General Information

380 SUNDANCER WATER SYSTEM LAYOUT

**Water System Hose Routing
(Forward Section) (fig. 12.10.1)**



**Water System Hose Routing
(Stern Section) (fig. 12.10.2)**

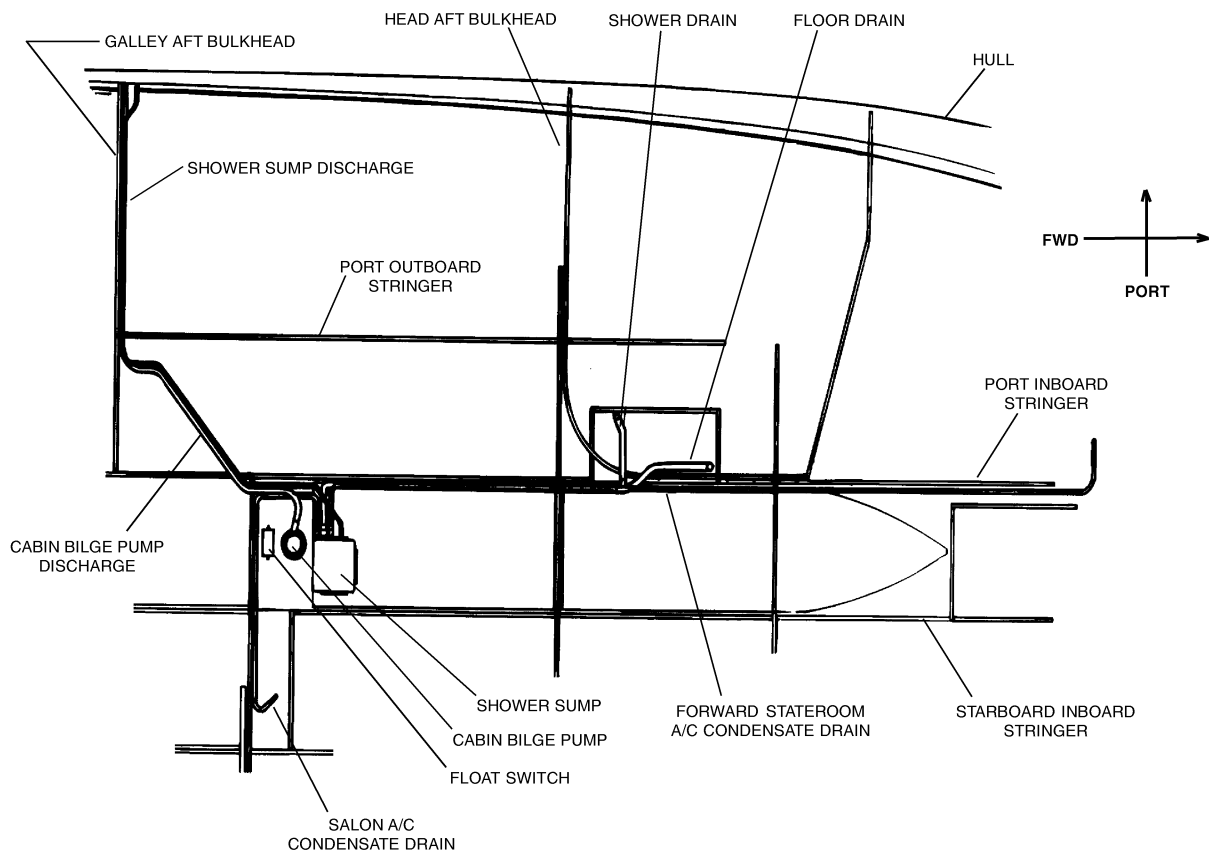


Supplemental General Information

380 SUNDANCER GREY WATER SYSTEM LAYOUT

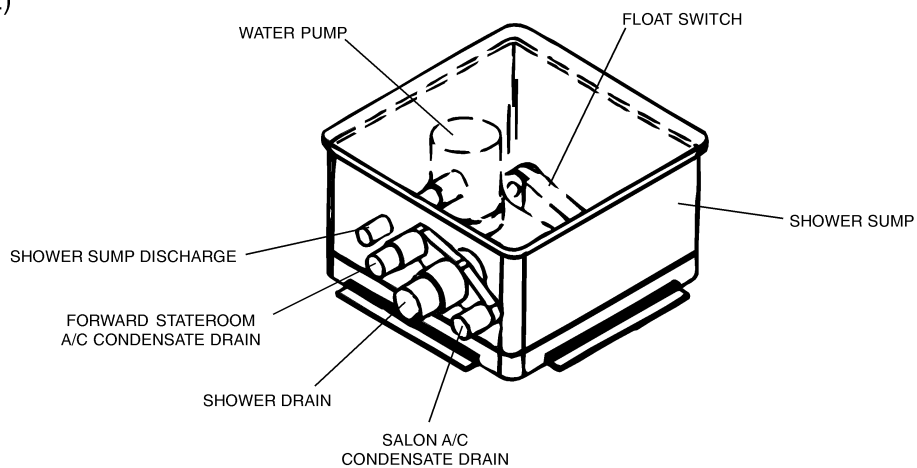
Grey Water System Layout (Drainage)

(fig. 12.11.1)



Shower Sump Detail

(fig. 12.11.2)

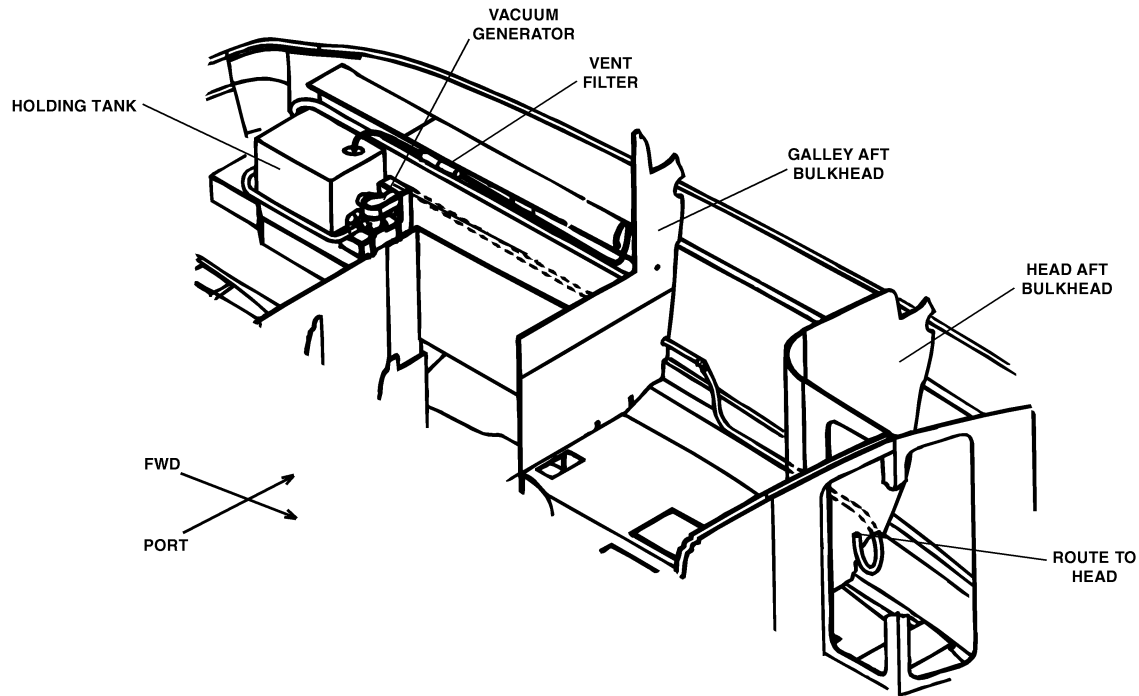


Supplemental General Information

380 SUNDANCER HEAD SYSTEM LAYOUT

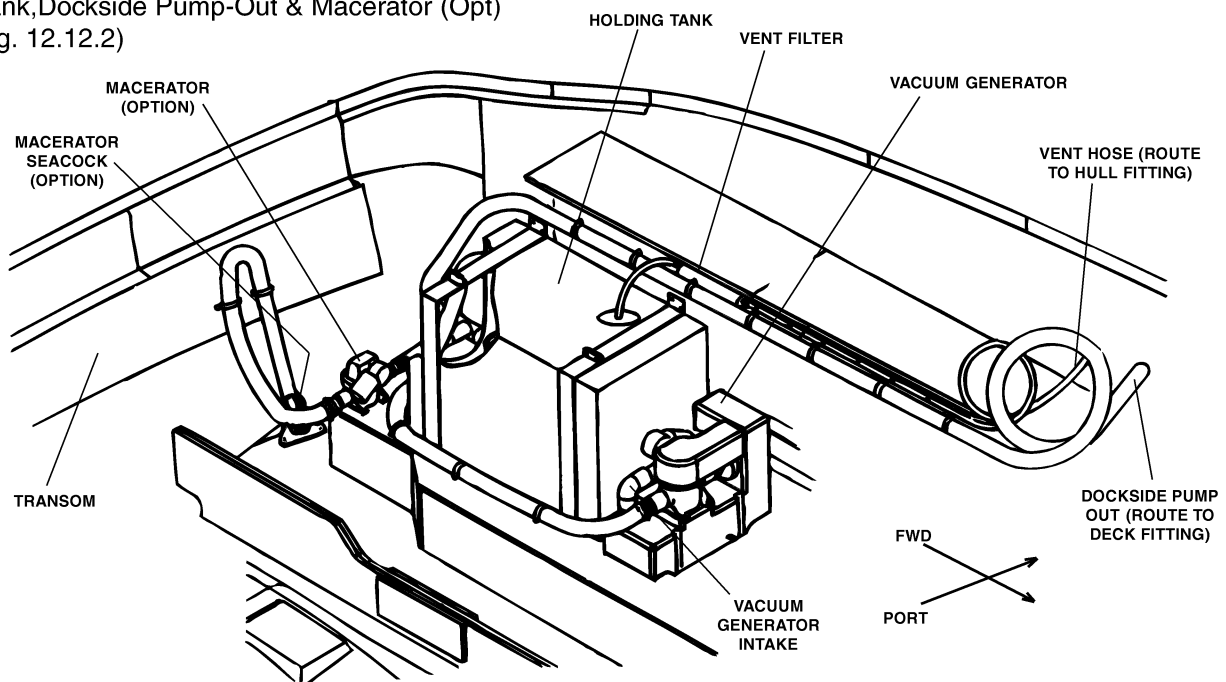
Head System Hose Routing

(fig. 12.12.1)



Head System, Vacuum Flush With Holding Tank, Dockside Pump-Out & Macerator (Opt)

(fig. 12.12.2)

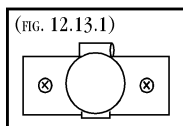


Supplemental General Information

ELECTRICAL INSTALLATIONS

This owner's manual supplement contains electrical schematics for your boat. These electrical schematics were generated by technicians at the engineering division for technical reference and service technicians. Sea Ray® does not recommend that you attempt to work on the boat's electrical system yourself, instead we recommend that you take your boat to your authorized Sea Ray® dealer for service. Sea Ray® reserves the right to change or update the electrical system on any model at any time without notice to the consumer and is NOT obligated to make any updates to units built prior to changes.

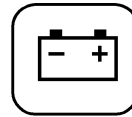
12 VOLT ACCESSORY RECEPTACLE



Your Sea Ray® Sport Yacht has a 12 volt accessory receptacle at the control station. It is a cigarette lighter style receptacle to be used with any 12 volt accessories using this type of plug.

BATTERY

Refer to the owner's manual for battery disconnect and maintenance.



Battery Specifications:

Group: 27

Cold Cranking Amps: 575

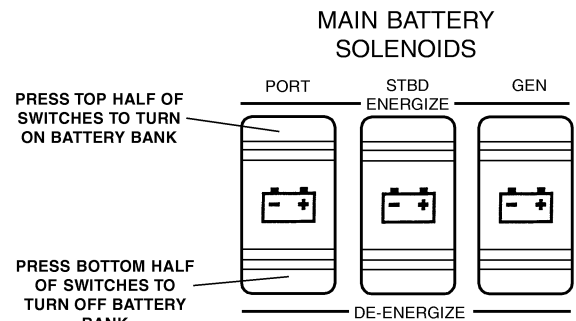
Reserve Capacity: 165 Minutes

Sea Ray® recommended batteries are available through your Sea Ray® dealer.

ALWAYS DISCONNECT BATTERY CABLES BEFORE DOING ANY WORK ON THE ENGINE'S ELECTRICAL SYSTEM OR ALTERNATOR WIRING TO PREVENT ARCING OR DAMAGE TO THE ALTERNATOR.

Battery Switch

(Located on DC Distribution Panel in the Cabin and on the Main DC Distribution Panel in the Bilge)
(fig. 12.13.2)

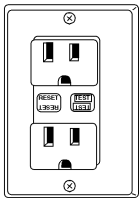


Supplemental General Information

GROUND FAULT INTERRUPTER (GFI) OUTLET LOCATIONS & ASSOCIATED LOADS

(fig. 12.14.2)

Ground Fault Interrupter
Outlet (GFI) (fig.12.14.1)



Refer to the electrical system section of the owner's manual for operation and function information of the GFI's.

If any of the accessories on your boat fail to turn on, check the associated GFI outlet breaker first.

GFI Location

A: Forward head, underside upper vanity cabinet.

B: Galley cabinet, under microwave.

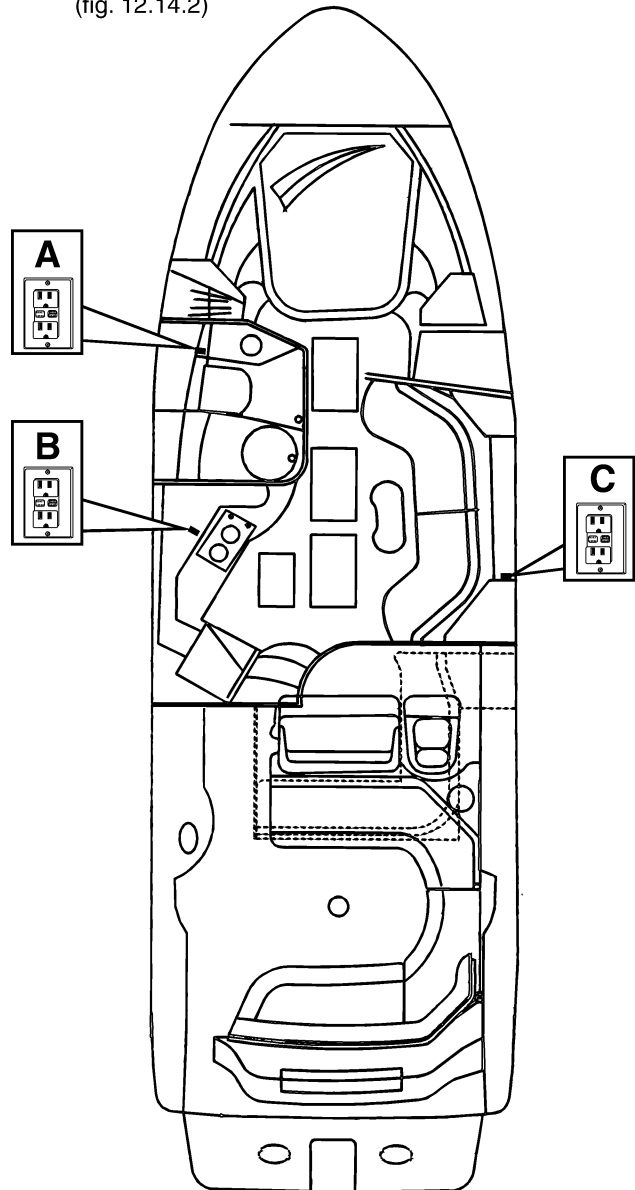
C: Inside salon gunnel cabinet (aft).

Associated Loads

- Salon TV
- Cockpit Icemaker
- Cockpit Receptacle

- Coffee Maker
- Galley Receptacle

- Salon Receptacle
- Aft Berth Receptacle
- Central Vacuum System
- V-Berth Receptacle
- V-Berth TV



Supplemental General Information

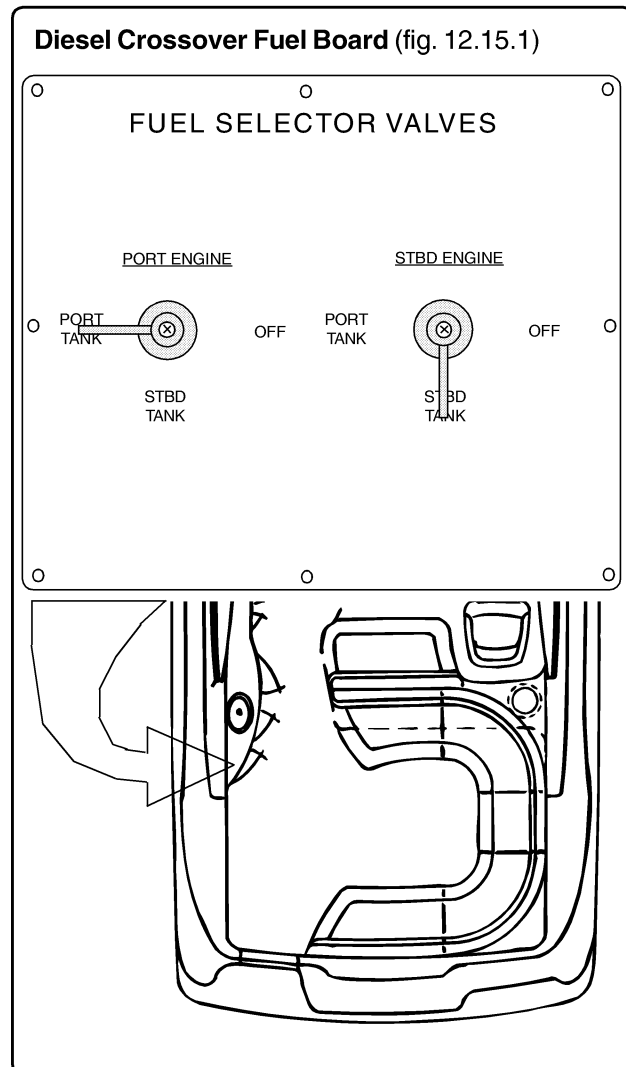
FUEL SYSTEM

The 380 DA is equipped with either a gasoline or diesel fuel system. A detailed drawing of the fuel system can be found in the *Parts Manual*. Fueling instructions and precautions can be found in *Section 4, Fueling & Starting* of the *Owner's Manual*.

Crossover Fuel System

The crossover fuel system allows the engines to draw fuel from either tank. This allows switching to an alternate tank in case of fuel contamination or for even fuel weight distribution. Each engine and the generator are equipped with valves on the crossover fuel board. The generator only draws fuel from the starboard fuel tank. The crossover fuel board is located on the port side of the cockpit at the aft end of the entertainment center.

Diesel Crossover Fuel Board (fig. 12.15.1)



Fuel Filters (Diesel)

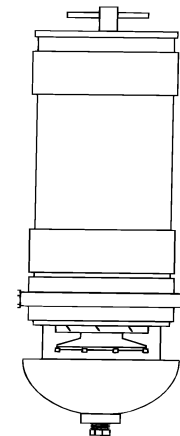
Primary and secondary fuel filters are installed on your Sea Ray® to keep the fuel as clean as possible. Primary fuel filters are the Racor® water separating fuel filters installed on the forward bilge bulkhead accessory board. The generator filter is located on the starboard side of the bilge adjacent to the generator. The secondary fuel filters are located on the engines and should be replaced in accordance with the Engine Owner's Manual.

Use of any methanol, gasohol or alcohol based fuel additive will damage the fuel filter.

NOTE: IN ROUGH SEAS, ALLOW APPROXIMATELY 15% RESERVE WHEN PLANNING FUEL CONSUMPTION.

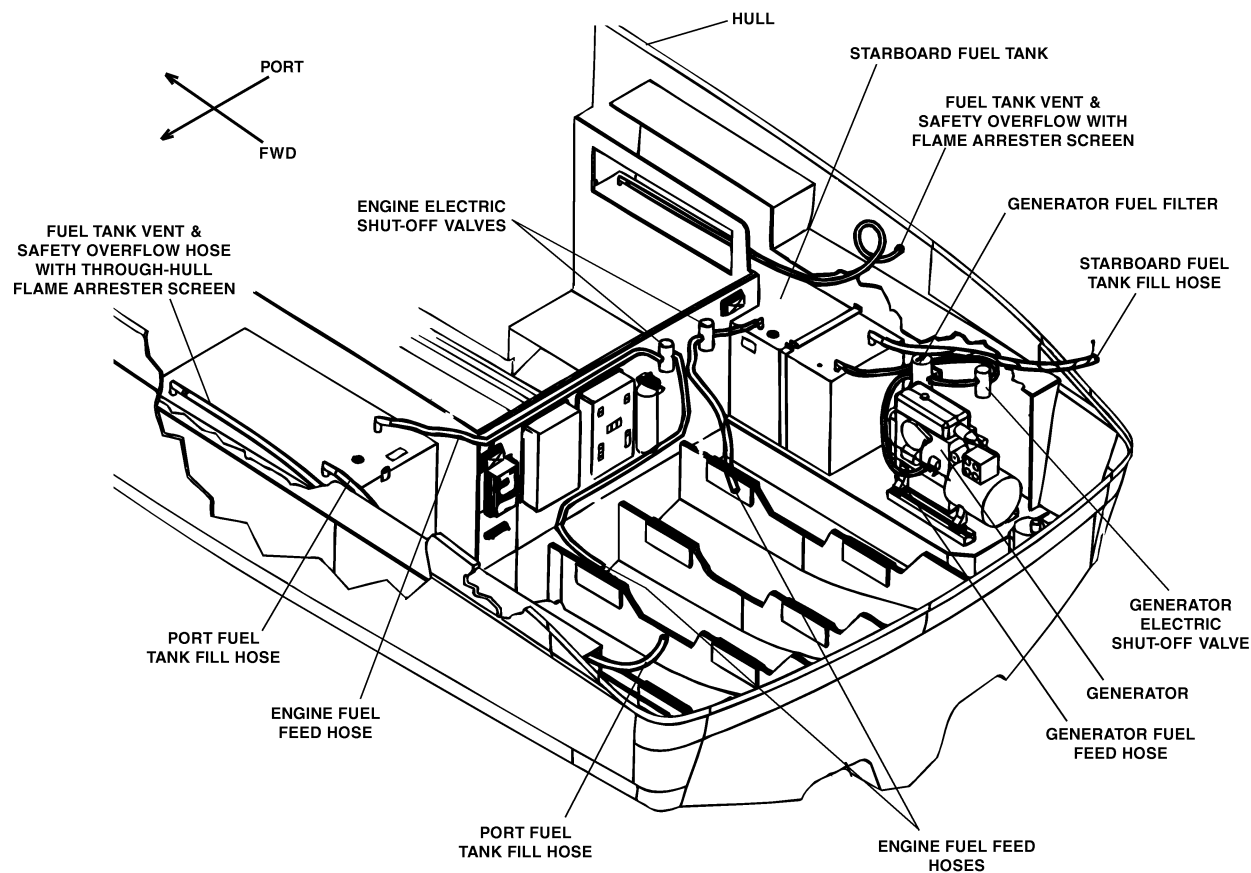
REFER TO THE ENGINE OPERATOR'S MANUAL FOR MORE DETAILED INFORMATION.

Racor® Water Separating Fuel Filters (fig. 12.15.2)



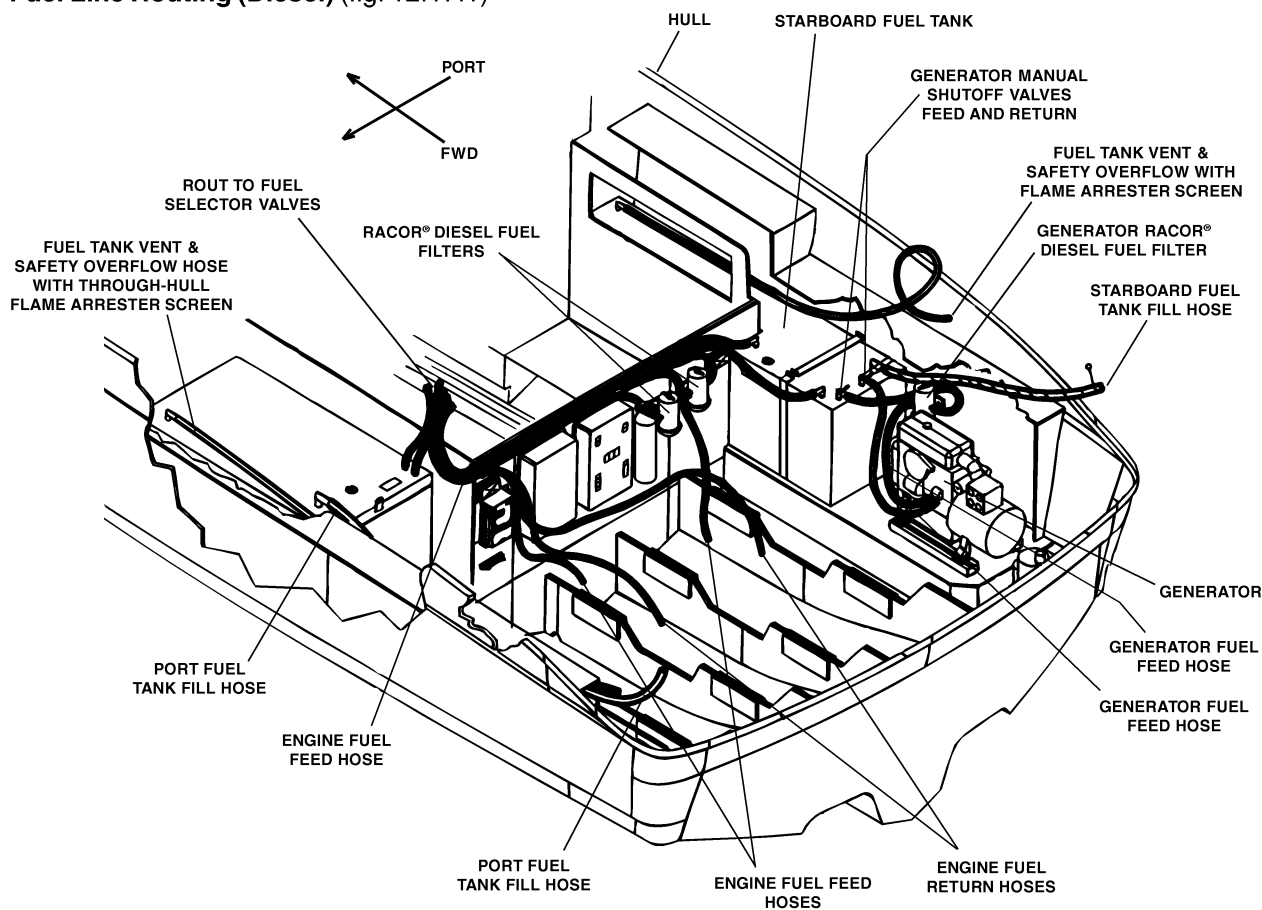
Supplemental General Information

Fuel Line Routing (Gasoline) (fig. 12.16.1)



Supplemental General Information

Fuel Line Routing (Diesel) (fig. 12.17.1)

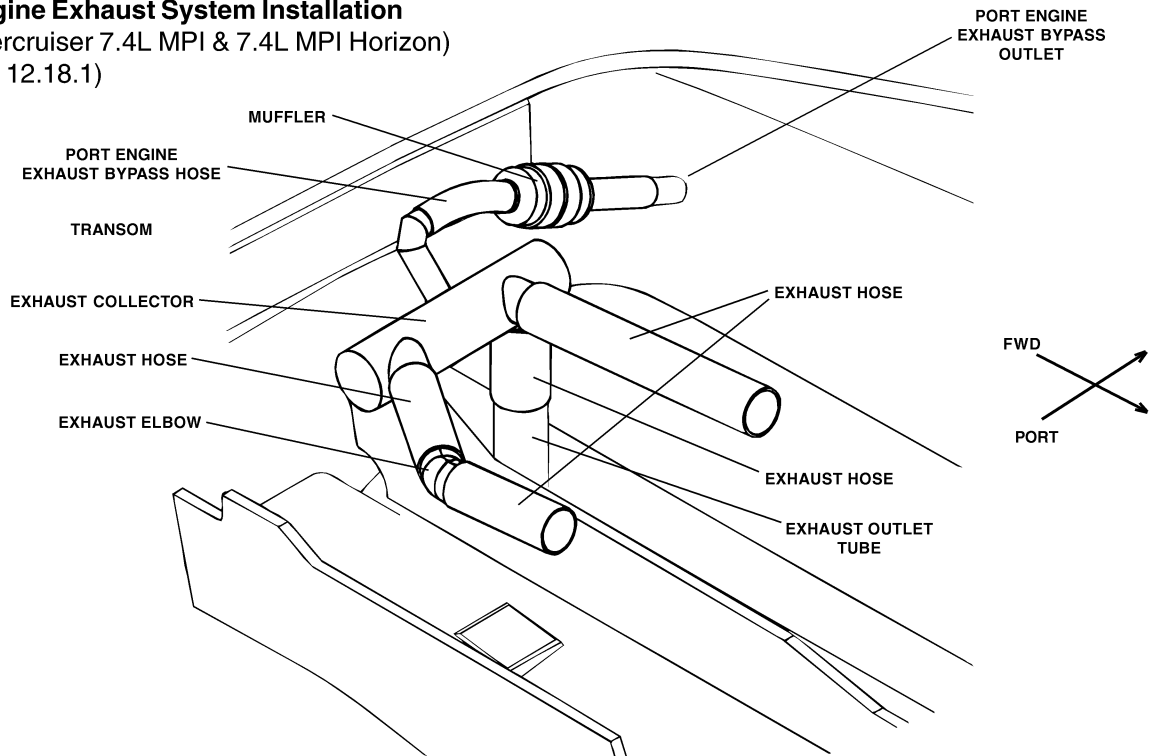


EXHAUST SYSTEM

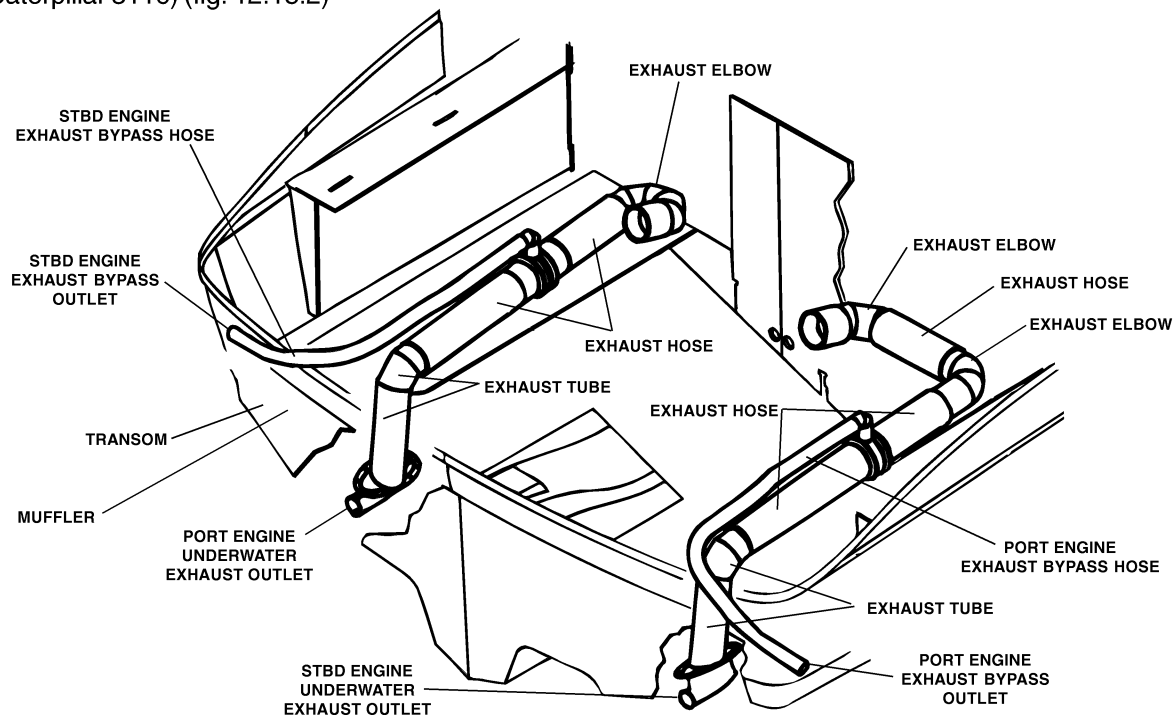
General exhaust system information can be found in *Section 2 Bilge & Underwater Gear* of the owner's manual. Below is an illustration of the 460 DA exhaust system as installed with the standard engine. REFER TO THE ENGINE OWNER'S MANUAL FOR INSTRUCTIONS AND WARRANTY INFORMATION.

Supplemental General Information

Engine Exhaust System Installation (Mercruiser 7.4L MPI & 7.4L MPI Horizon) (fig. 12.18.1)

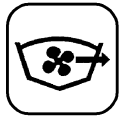


Engine Exhaust System Installation (Caterpillar 3116) (fig. 12.18.2)



Supplemental General Information

VENTILATION SYSTEM / BILGE BLOWER



Sea Ray® Sport Yachts are equipped with electric bilge blowers to remove fumes from the engine compartment and provide ventilation through the deck vents before starting the engine and when operating below cruising speeds. The bilge blowers are located inside the port and starboard sides of the transom.

Bilge blower switches are located on the helm switch panel and the DC main distribution panel. Bilge blower breakers are located on the main DC breaker and battery switch panel located behind the port cockpit service door.

The Sea Ray® 380 Sundancer blower switches have a two way switching capability. The blower module allows the blowers to be turned ON and OFF at either the control station or the main distribution panel. Also, they can be turned ON at one station and turned OFF at the other.

Blower Switch Lights:

Lights On: When the blowers are turned ON, the lights in the switches will come on and stay on, indicating that the blowers are functioning correctly.

Lights Blinking: If the lights are blinking, it is an indication that one of the blower breakers has tripped. Reset the tripped breaker.

Lights Not On or Blinking: If you try to turn ON the blowers and no lights come on then both breakers are tripped and the switch is not receiving power. Reset the tripped breakers.

REFER TO "SECTION 2, BILGE & UNDERWATER GEAR" AND OWNER'S PACKET FOR OPERATING INSTRUCTIONS AND SAFETY PRECAUTIONS.



CAUTION

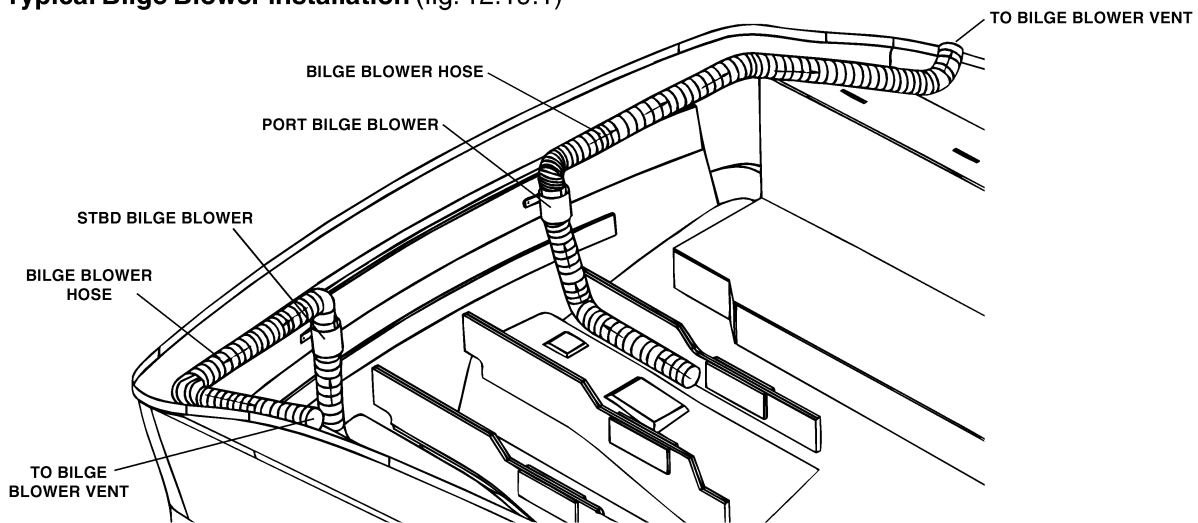
While the engine is running, the battery terminal clamps must not be loosened or detached nor should the battery switch(es) be turned off, otherwise the alternator and other electronic units will be damaged.



DANGER

- Never use an open flame in the battery storage area.
- Avoid striking sparks near the battery.
- A battery will explode if a flame or spark ignites the free hydrogen given off during charging.

Typical Bilge Blower Installation (fig. 12.19.1)



Supplemental General Information

BILGE PUMPING SYSTEM



The 380 DA is equipped with an automatic bilge pump system. A manual bilge pump system is available as an international option to comply with CE standards.

Manual Bilge Pump (With International CE Option)

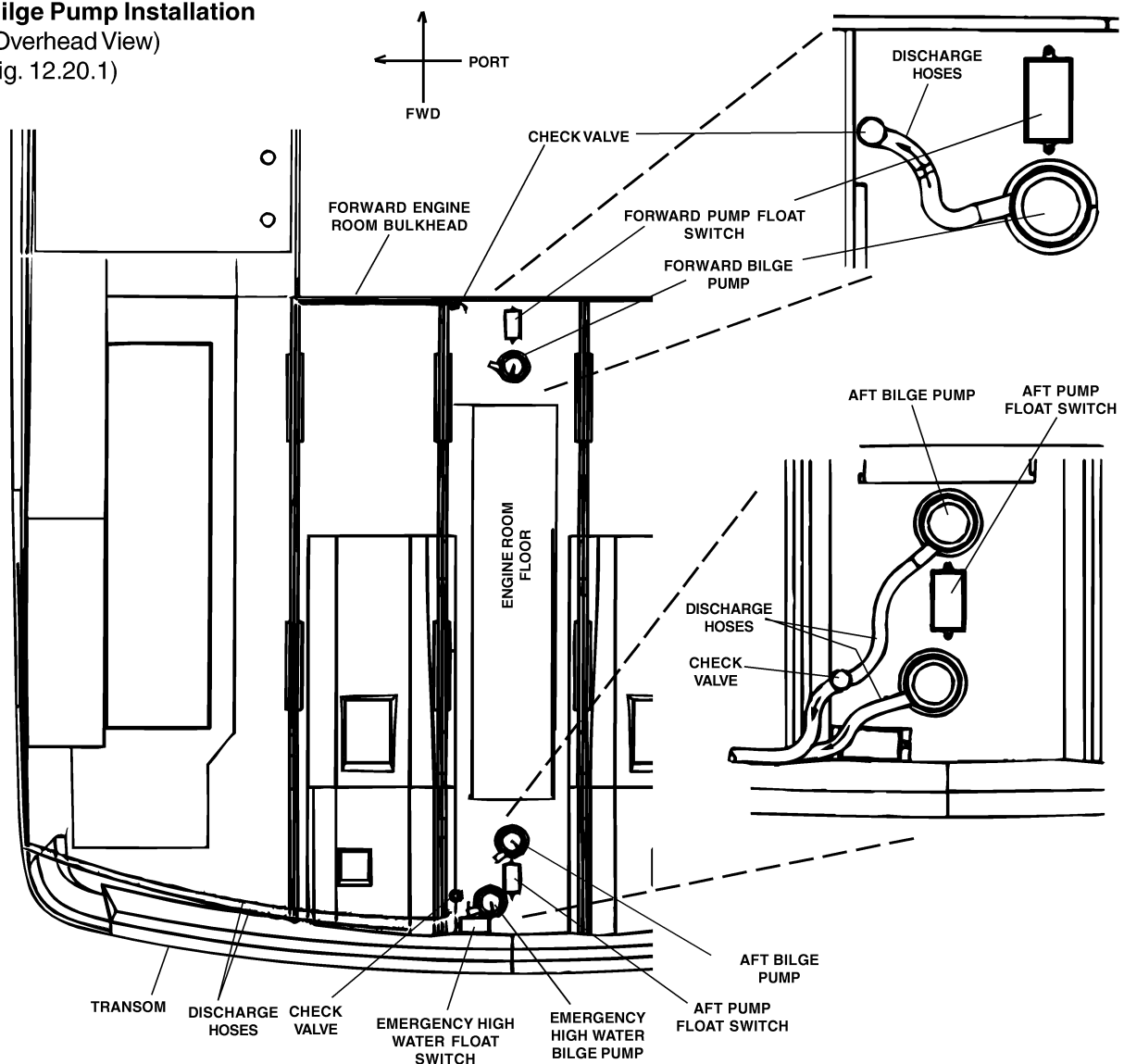
The manual bilge pump system is located on the forward port side of the cockpit under the wet bar.

To Operate:

1. Rotate valve to select forward or aft pump.
2. Place handle into pump.
3. Move handle up and down to actuate pump.

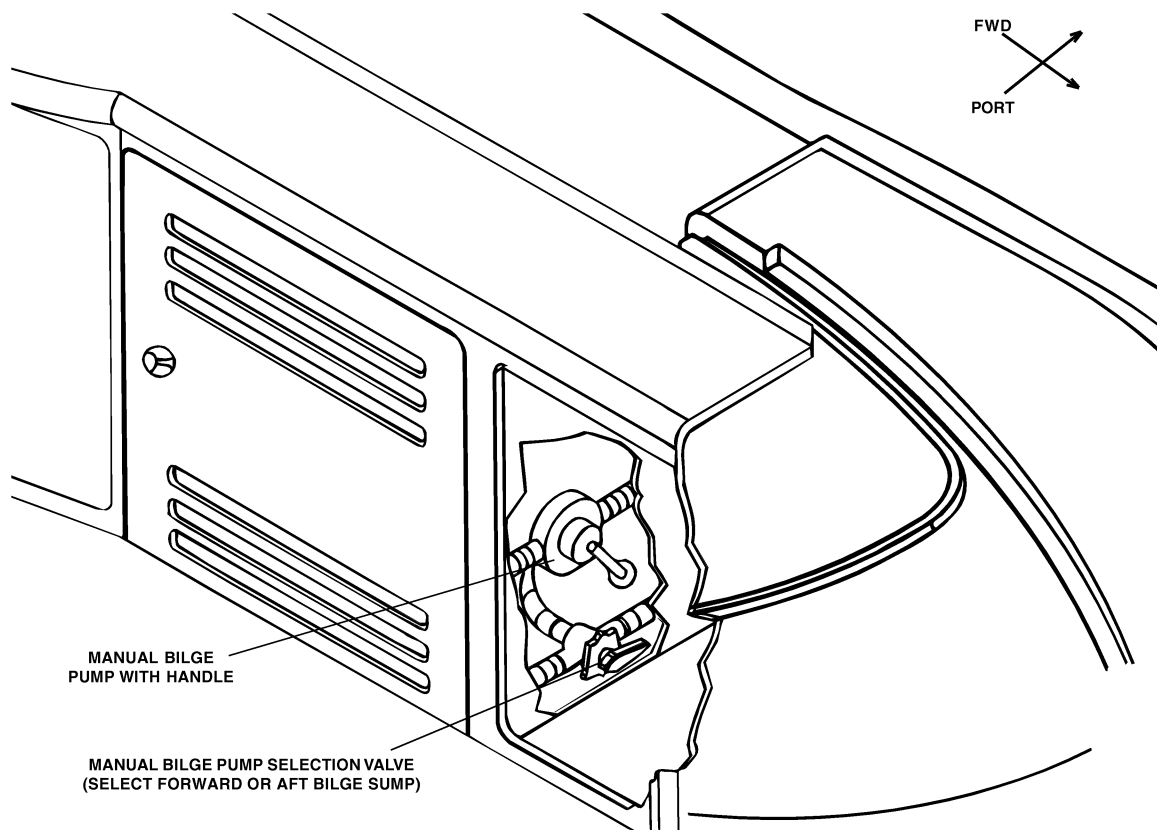
REFER TO THE OWNER'S MANUAL AND OWNER'S PACKET FOR INSTRUCTIONS AND WARRANTY INFORMATION.

Bilge Pump Installation
(Overhead View)
(fig. 12.20.1)

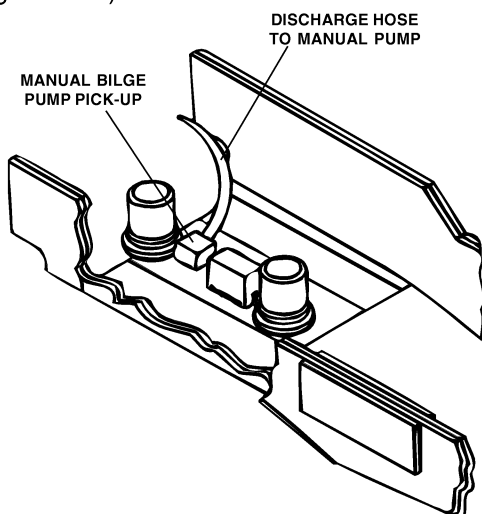


Supplemental General Information

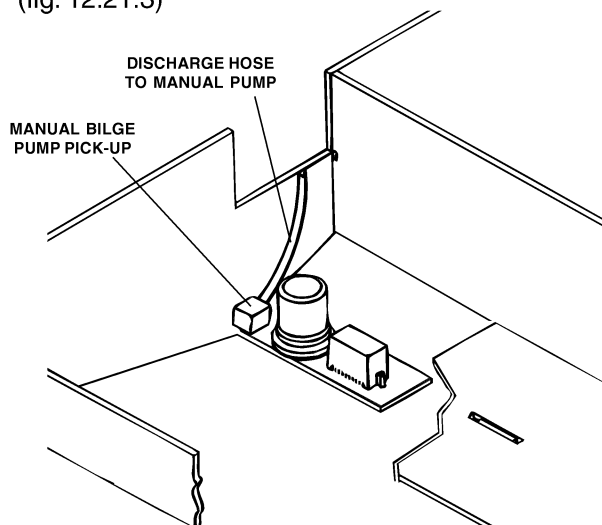
Manual Bilge Pump Installation Under Forward End Of Cockpit Entertainment Center (With International EC Option Only)
(fig. 12.21.1)



Manual Bilge Pump Pick-Up Location In Aft Bilge Sump (With International EC Option Only)
(fig. 12.21.2)

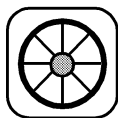


Manual Bilge Pump Pick-Up Location In Forward Bilge Sump (With International EC Option Only)
(fig. 12.21.3)



Supplemental General Information

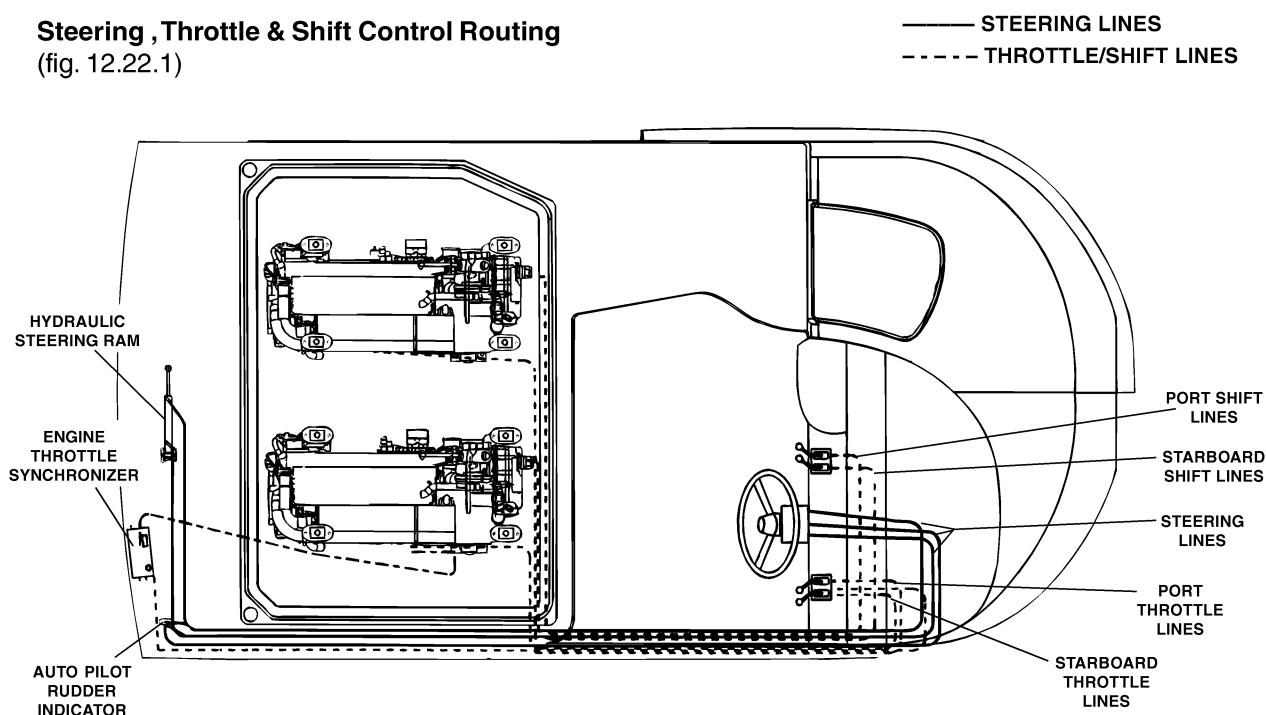
STEERING SYSTEM



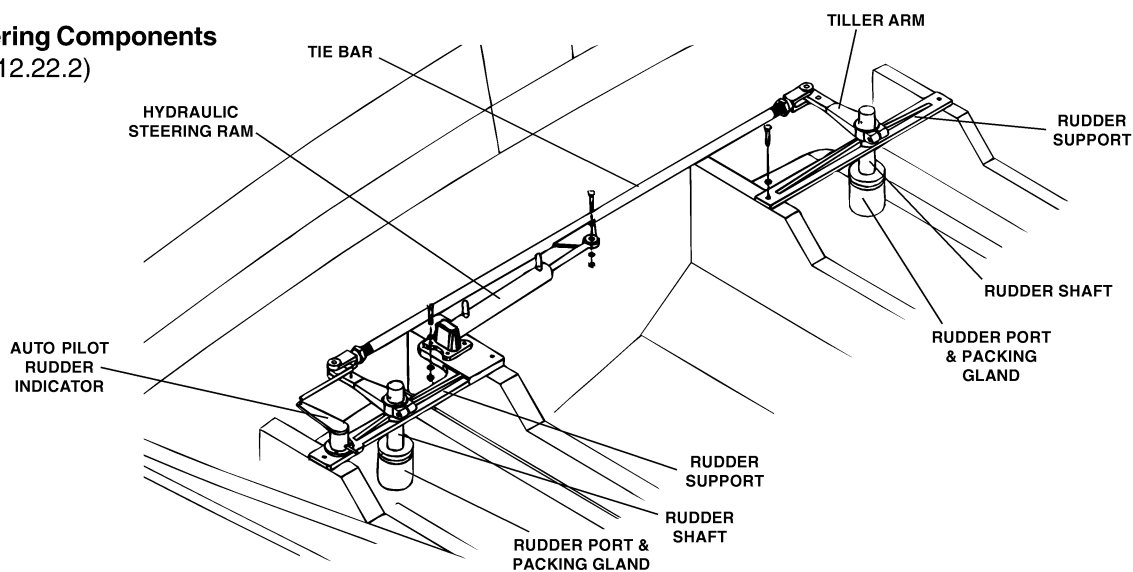
The 380 DA is equipped with a hydraulic power steering system.

REFER TO THE ENGINE OWNER'S MANUAL IN THE OWNER'S PACKET FOR INSTRUCTIONS AND WARRANTY INFORMATION.

Steering, Throttle & Shift Control Routing
(fig. 12.22.1)

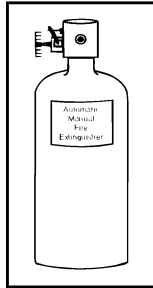


Steering Components
(fig. 12.22.2)



Supplemental General Information

FIRE EXTINGUISHING SYSTEM



The 380 DA is offered with the standard automatic fire extinguishing system in the engine compartment. Your boat should also be equipped with approved fire extinguishers.

Following are United States Coast Guard (USCG) requirements and American Boat & Yacht Council (ABYC) recommendations for boats not equipped with the automatic fire extinguishing system option for open boats over 26 feet (7.9 meters) but less than 40 feet (12 meters).

<u>Standard</u>	<u>Boat</u>	<u>Qty.</u>	<u>*Qty.</u>	<u>Type</u>
USCG	380 DA	2	1	B1 / ABC
ABYC	380 DA	3		B1 / ABC

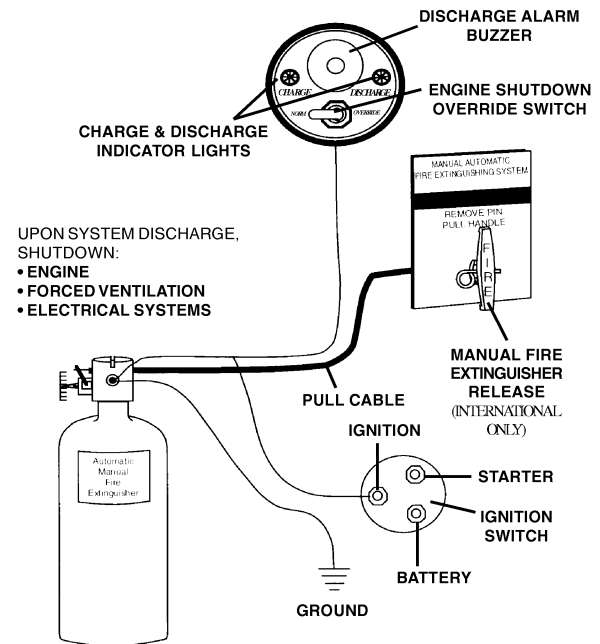
*Boats with approved fixed extinguishing system, (automatic fire extinguisher system).

Location: Outside engine compartment, steering position and galley.

Note: To be ABYC compliant Sea Ray Boats, Inc. follows ABYC construction standards and recommendations.

REFER TO THE OWNER'S MANUAL AND OWNER'S PACKET FOR INSTRUCTIONS AND WARRANTY INFORMATION.

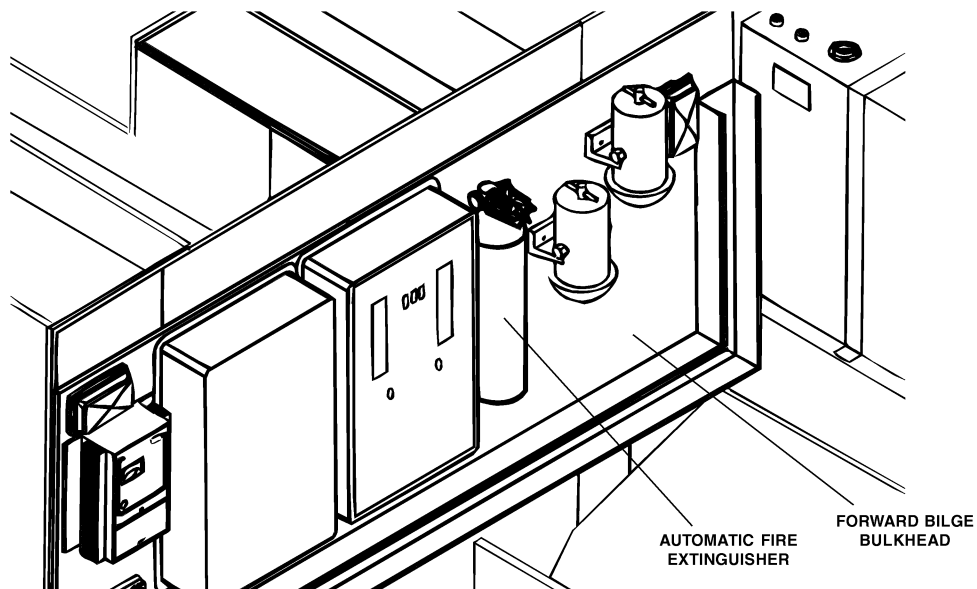
Automatic Fire Extinguisher System Configuration (fig. 12.23.2)



! WARNING

- In case of fire **DO NOT** open engine compartment.
- Shut down engines, generator and blowers.

Automatic Fire Extinguisher Installation (fig. 12.23.1)



Supplemental General Information

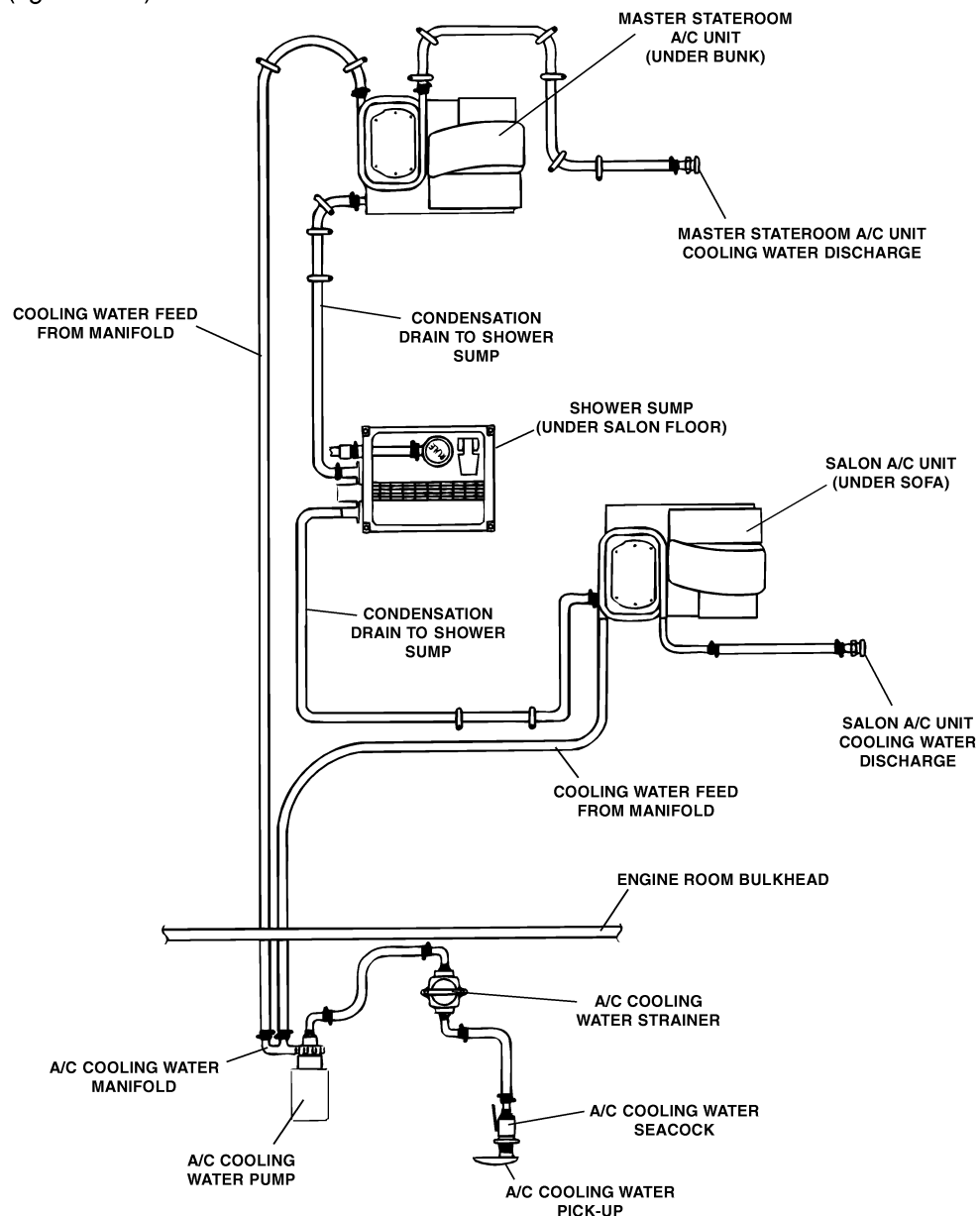
AIR CONDITIONING / HEATING SYSTEM



AirConditioning and Heating System information can be found in *Section 8 Accessories* of the owner's manual.

REFER TO THE OWNER'S MANUAL AND OWNER'S PACKET FOR INSTRUCTIONS AND WARRANTY INFORMATION.

Air Conditioning Water Cooling Hose Routing (fig. 12.24.1)



Supplemental General Information

BOW THRUSTER

The optional Bow Thruster is electrically driven and gives the operator more maneuverability of the bow. A control panel mounted at the control station is operated by hand to control port or starboard direction. Go out away from other boats and obstructions to get the feel of Bow Thruster operation.

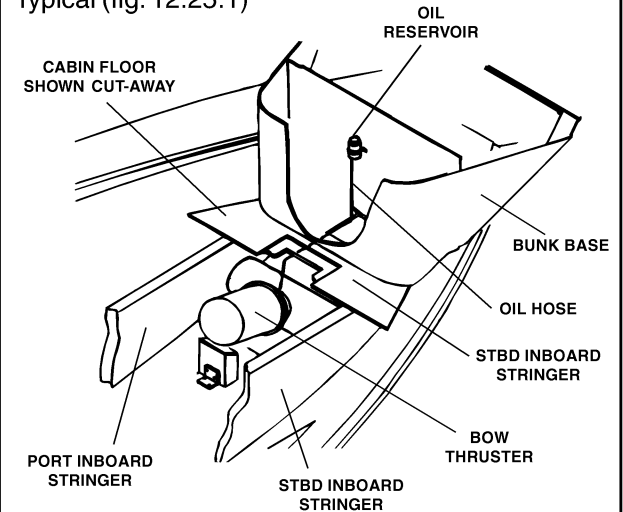
The Bow Thruster will add the following equipment to your yacht:

- Bow Thruster – located under the access hatch in the master stateroom.
- Batteries – Two (2) Group 27 12 volt batteries connected in series to provide 24 volts DC, located on the forward port side of the bilge.
- Battery Switch (24 V Bow Thruster) – Located on the control station is a rocker switch with indicator light.
- Battery Switch Solenoid – Located forward of the batteries. The solenoid is equipped with two (2) automotive style fuses, one on the line side to power the rocker switch which energizes the solenoid and one on the load side to power the rocker switch indicator light.
- Converter – 24 volt/12 amp, located forward of the batteries.
- Fuse Protection – One (1) mounted below the bow thruster solenoid.
- Main Switch – Located on the helm. When control is pushed to the left the bow thruster will push the bow of the boat to port. When control is pushed to the right the bow thruster will push the bow of the boat to the starboard.

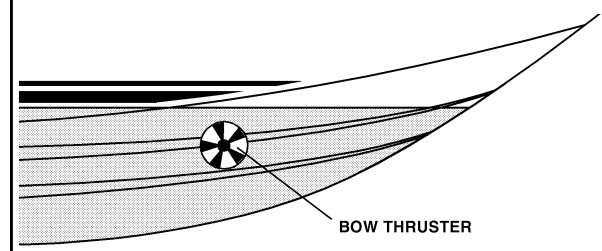
Remember – if breakers or fuses fail, always replace with the same amperage device. Never alter overcurrent protection.

REFER TO BOW THRUSTER INFORMATION IN THE OWNER'S PACKET FOR INSTRUCTIONS AND WARRANTY INFORMATION.

**Bow Thruster
Installation (Opt)**
Typical (fig. 12.25.1)



Bow Thruster (fig. 12.25.2)



Supplemental General Information

ENGINE COOLING SYSTEM

The engine cooling system is an integral part of the propulsion system.

REFER TO THE ENGINE OWNER'S MANUAL FOR INSTRUCTIONS AND WARRANTY INFORMATION.

ANCHORING



To anchor, bring the bow into the wind or current and put the engine in neutral. When the vessel comes to a stop, lower, do not throw, the anchor over the bow. The anchor line should be 5 to 7 times the depth of water.

ANCHORING ARRANGEMENT

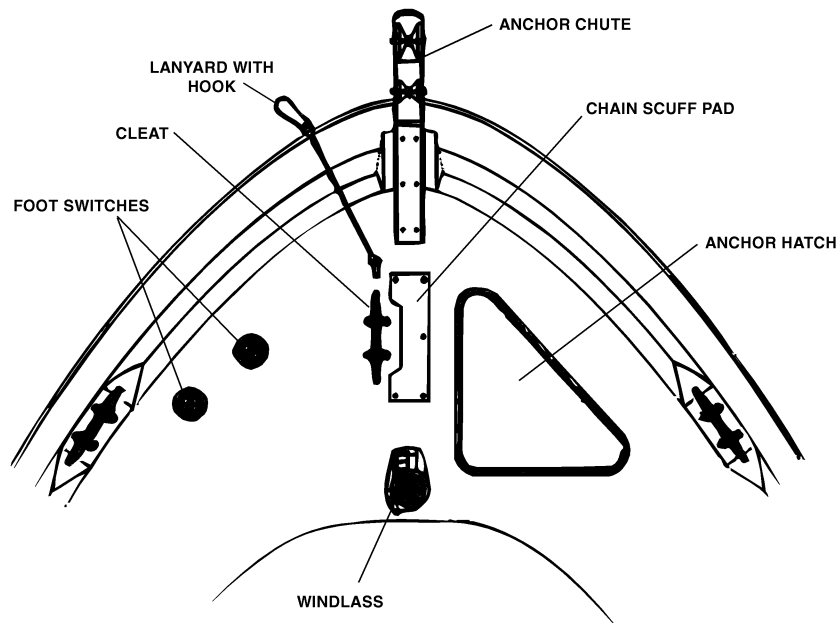
The 380 DA is equipped with a windlass and an anchor chute. Stow the anchor in the chute when not in use. Note: Before using the anchor, be sure the anchor safety line is removed from the anchor and the anchor is secured to the windlass chain.

The boat is equipped with an anchor storage hatch. Inside the hatch is a drain, drainline, fresh water rinse connection and manual winch handle.

REFER TO THE WINDLASS OWNER'S MANUAL IN THE OWNER'S PACKET FOR INSTRUCTIONS AND WARRANTY INFORMATION.

Windlass Installation With Hardware

(fig. 12.26.1)



Generator Supplement

GENERATOR STARTING ADDENDUM

Sea Ray® strongly urges you to fully comply with the manual provided by the generator manufacturer. The generator is warranted separately by the



CAUTION

Refer to “Section 7, Electrical System” for detailed generator starting procedures. Follow preliminary starting procedures 1 through 4.

generator manufacturer, not Sea Ray®. Follow the recommended maintenance and warranty schedule in your Generator Operator’s Manual included in the Owner’s Manual Packet. Generator abuse or improper maintenance may adversely affect claims made under generator manufacturer separate warranty.

STARTING THE GENERATOR

NOTE: PRE-START GENERATOR PRIOR TO GETTING UNDERWAY AS THERE IS A POSSIBILITY THAT IT WILL NOT PICK UP WATER IF STARTED UNDERWAY. MAKE SURE THE “MAIN GENERATOR” BREAKERS ARE “OFF” AND THERE IS NO LOAD ON THE GENERATOR BEFORE STARTING IT.

To start the generator: (Switches located on the 12 volt distribution panel or on the generator set.)

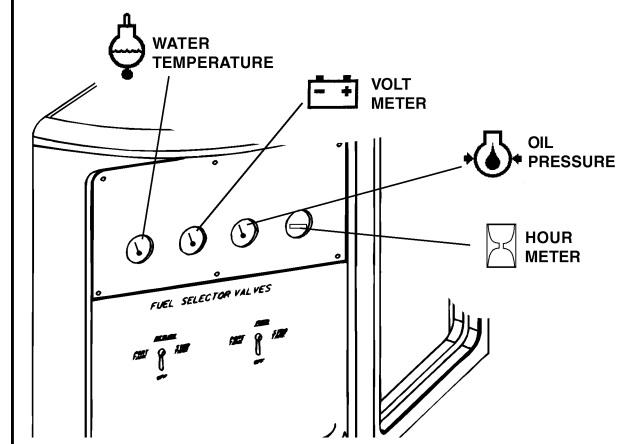
1. Check the fuel tank levels. The generator draws from the starboard fuel tank.
2. Check the oil and coolant levels. See your Generator Operator’s Manual for proper readings.
3. Check generator for coolant drain plug installations.
4. Open the generator seacock.
5. **Diesel Generators Only:** Press and release the “GENERATOR” switch on the main distribution panel. This puts the generator into the preheat mode and the light in the switch will begin to flash for approximately 30 seconds. The generator can be started at any time during this period.
At the end of the 30 second period the preheat cycle is complete and the light begins to flash rapidly, indicating that the generator must be started in the next few seconds or the cycle must be repeated.
6. Push and hold the “GENERATOR” switch until the unit starts, then release the switch.
7. Once the generator is started, the light will stay on continuously.

Bypass Switch

To start the Westerbeke® generator from the generator mounted controls, a bypass switch, located on the side of the generator mounted control box, must be turned ON. The bypass switch must be OFF to start and stop the generator from the DC main distribution panel.

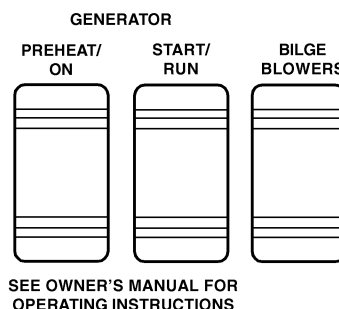
Generator Gauges

(Above Crossover Fuel Board)
(fig. 12.27.1)



Generator Switches

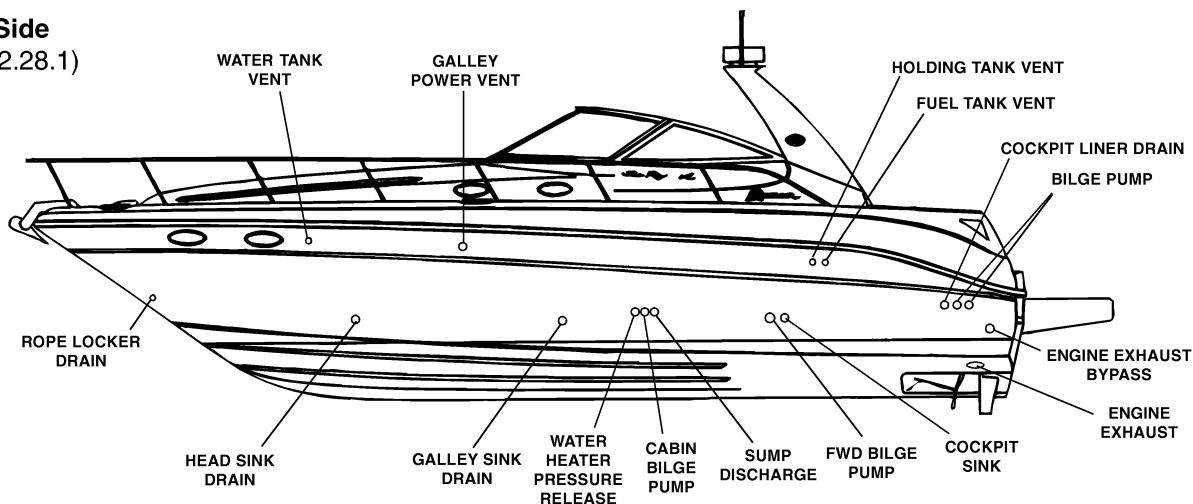
(Located on DC Distribution Panel in the Cabin and on the Generator in the Bilge) (fig. 12.27.2)



Location of Through-Hull Fittings

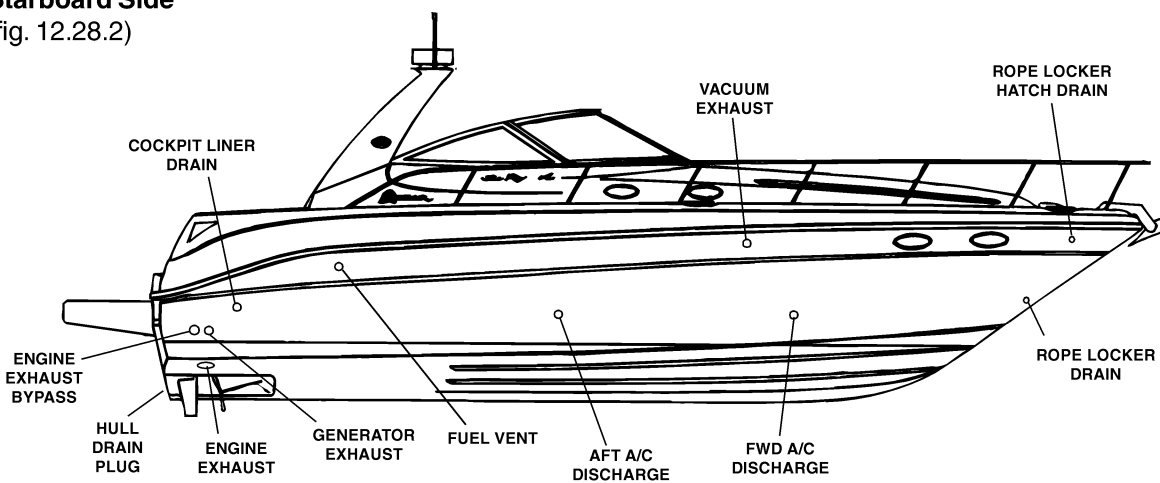
Port Side

(fig. 12.28.1)



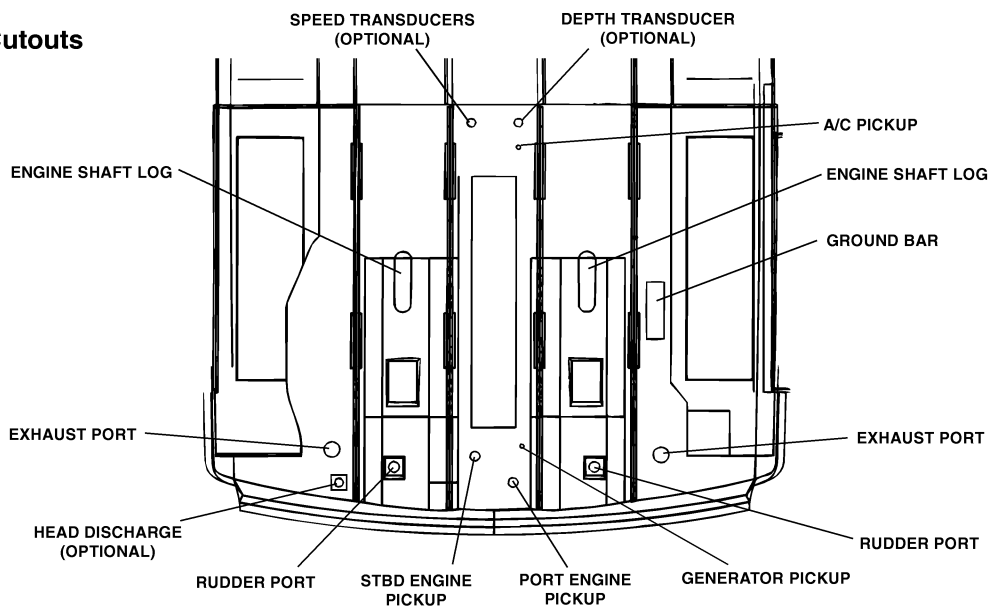
Starboard Side

(fig. 12.28.2)



Bilge Hull Cutouts

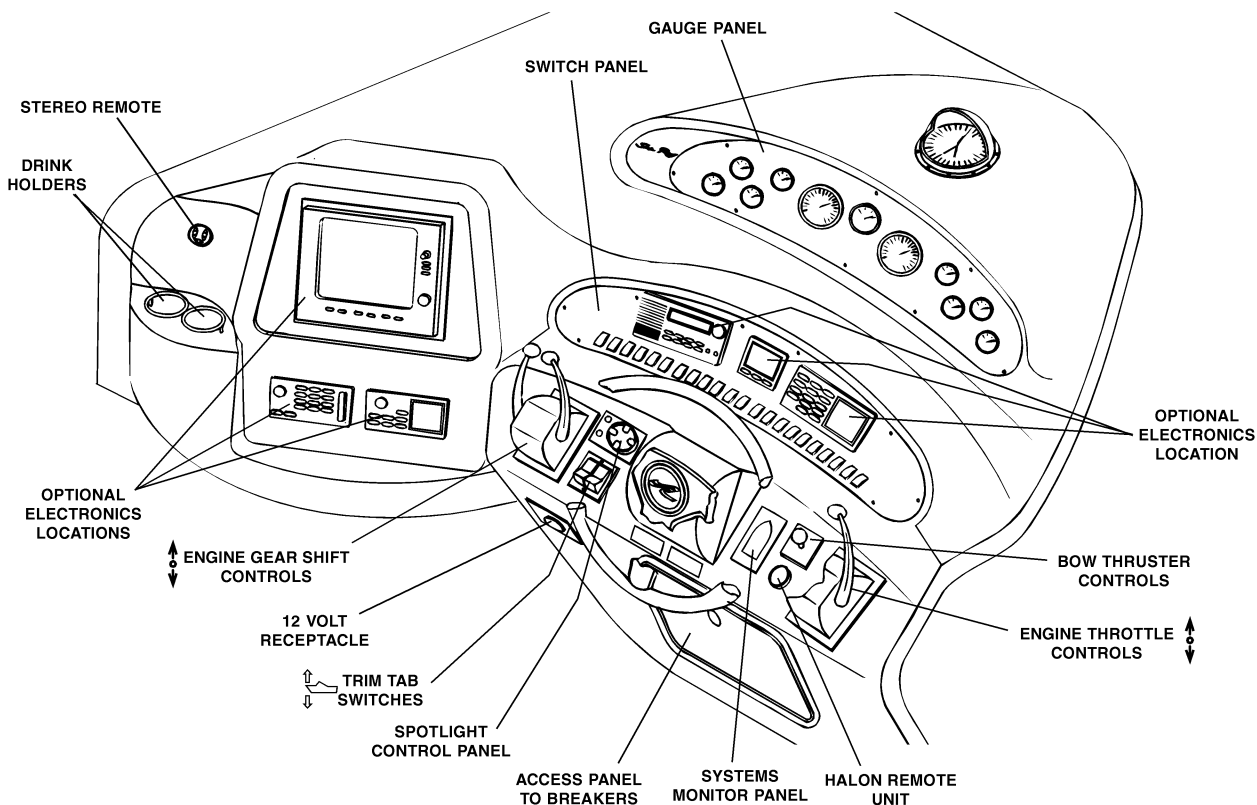
(fig. 12.28.3)



Control Station Layout

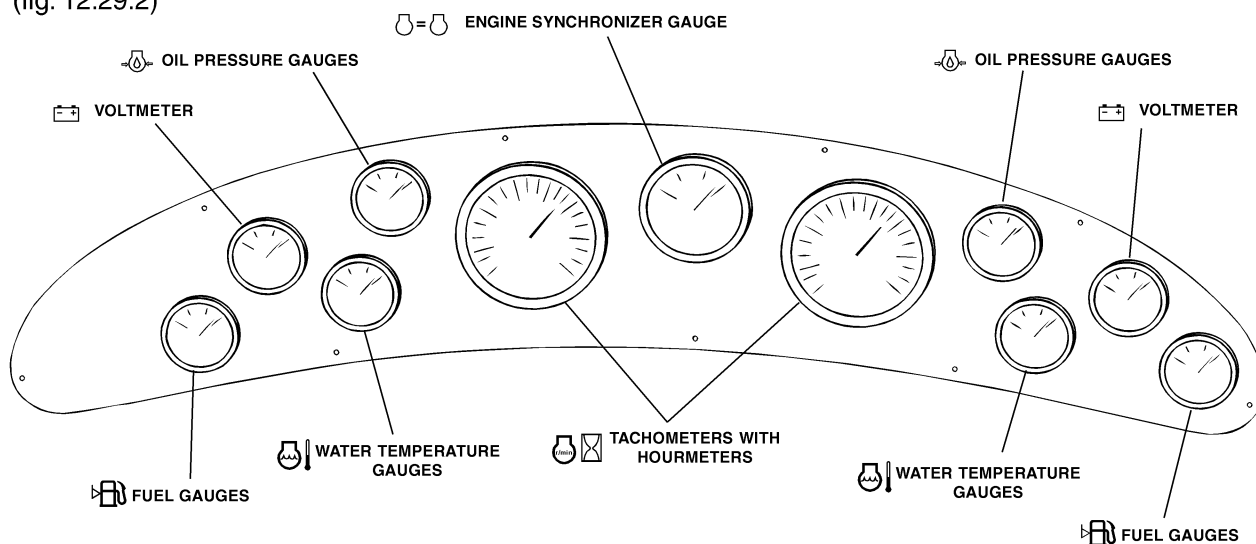
Control Station

(fig. 12.29.1)



Gauge Panel

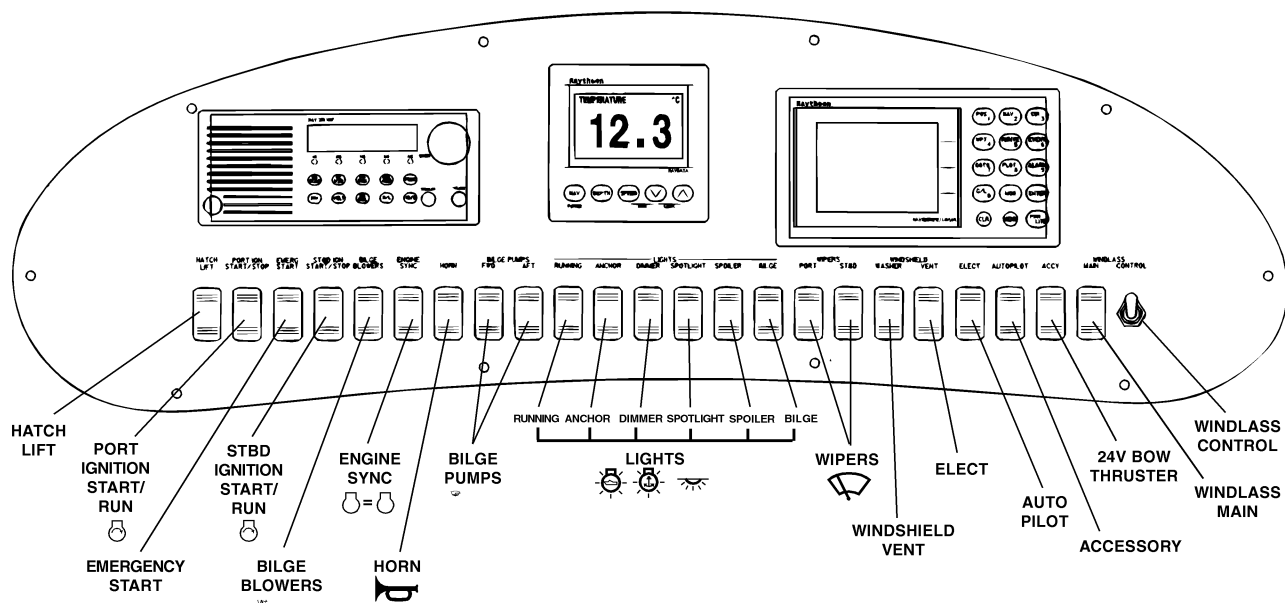
(fig. 12.29.2)



Control Station Layout

Switch Panel

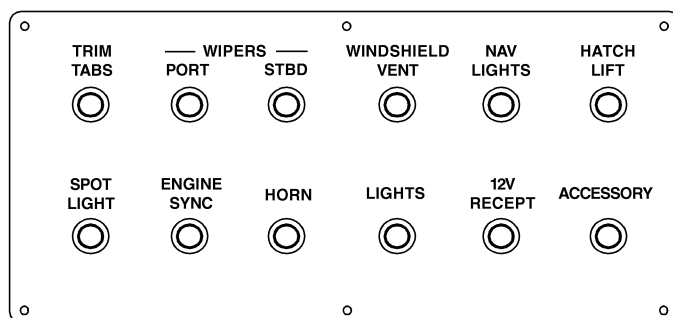
(fig. 12.30.1)



Breaker Panel

(Behind Access Panel)

(fig. 12.30.2)



Instruments & Controls

SYSTEMS MONITOR PANEL

The systems monitor panel, located at the control station, monitors critical engine functions, bilge pumps, high water emergency bilge pump, shower sump pump (if installed) and generator shutdown. It is equipped with a test button to test the indicator lights and the engine alarm buzzer. The panel is protected by a 5 amp fuse installed in the circuit breaker which is on the main DC breaker panel.

Diesel Option Only: Each engine is equipped with three alarm senders – water temperature, oil pressure and transmission temperature – which are connected to the alarm buzzer and appropriate indicator light on the systems monitor panel.

The warning buzzer and corresponding indicator light will be activated if the cooling system water temperature rises too high, the engine oil pressure gets too low, or the transmission temperature rises too high. Refer to the Engine Operator's Manual for proper gauge readings or aid in finding and correcting the problem.

Note: Engines equipped with electronic fuel injection (EFI) or multi port injection (MPI) are equipped with one engine indicator light for each engine. If the alarm sounds and the light activates, pay particular attention to the engine gauges to distinguish the problem.

It is recommended that the system indicator lights and alarm be tested at least once every five hours of operation. To test, push the test switch on the systems monitor panel. All indicator lights and alarm should activate.

In the event the bilge high water alarm and light are activated, immediate attention to the bilge is required.



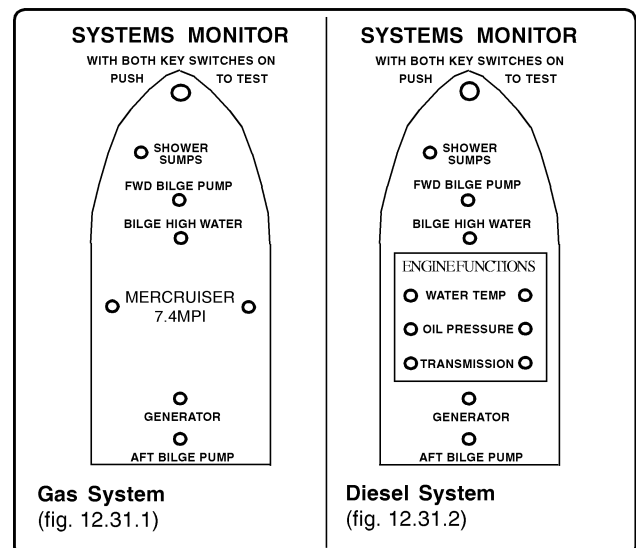
CAUTION

IF THE ENGINE INDICATOR(S) AND ALARM COME ON WHILE RUNNING, QUICKLY CHECK AND NOTE THE OIL PRESSURE AND WATER TEMPERATURE GAUGE READINGS. TURN OFF ENGINE IMMEDIATELY. Check for leaks and see if the cooling water pickup is blocked or clogged. If necessary, clear the water pickup of any foreign matter. DO NOT RESTART THE ENGINE UNTIL CAUSE FOR ALARM SOUNDING HAS BEEN FOUND AND CORRECTED.

NOTICE

If an engine stalls during docking or slow maneuvering, the buzzer will sound until the engine is restarted. The buzzer will also sound while the engines are cranking and will continue until they start.

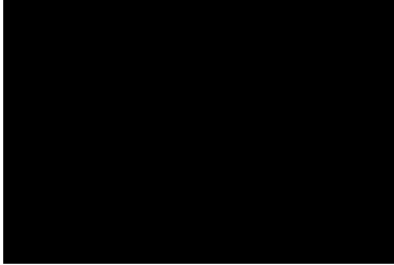
Light	Indicates (When Lit)
SHOWER SUMPS	SHOWER SUMP PUMP IS RUNNING
FWD BILGE PUMP	BILGE PUMP IS RUNNING
BILGE HIGH WATER	EMERGENCY BILGE PUMP IS RUNNING
GENERATOR	GENERATOR OIL PRESSURE IS TOO LOW
AFT BILGE PUMP	BILGE PUMP IS RUNNING
With Diesel System Only	
WATER TEMPERATURE	ENGINE COOLING SYSTEM IS TOO HOT
OIL PRESSURE	ENGINE OIL PRESSURE IS TOO LOW
TRANSMISSION TEMPERATURE	TRANSMISSION TEMPERATURE IS TOO HOT



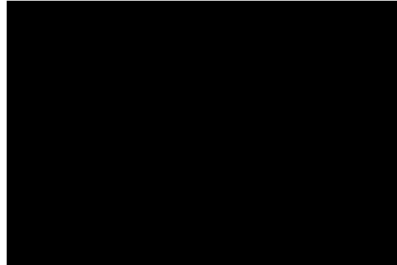
Special Features

SALON SLEEPING ARRANGEMENTS

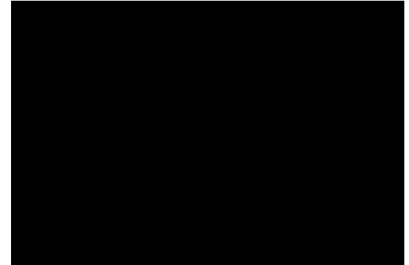
To convert the salon sofa to a sleeper:



1. Remove salon table and store under fwd stateroom bunk. (fig. 12.32.1)

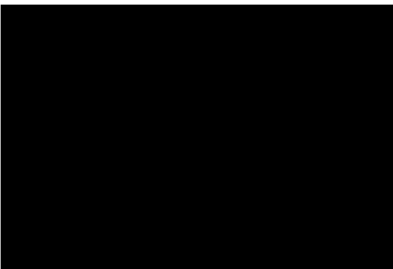


2. Pull out seat base with sleeper board attached. (fig. 12.32.2)



3. Place sleeper cushion on sleeper board. (fig. 12.32.3)

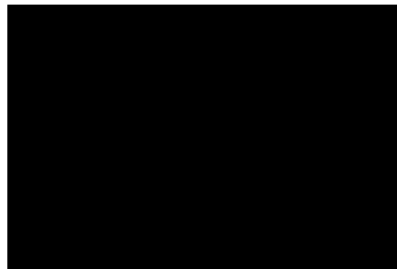
SALON TABLE STORAGE



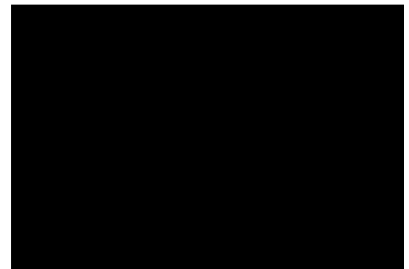
The salon table stores in a rack under the forward stateroom bunk. (fig. 12.32.4)

MID STATEROOM SLEEPING ARRANGEMENTS

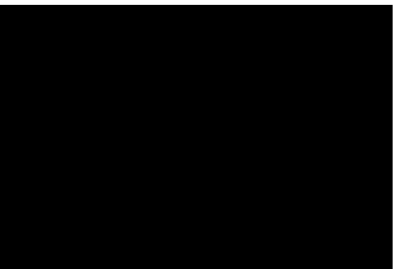
To convert the mid stateroom conversation pit to the double berth:



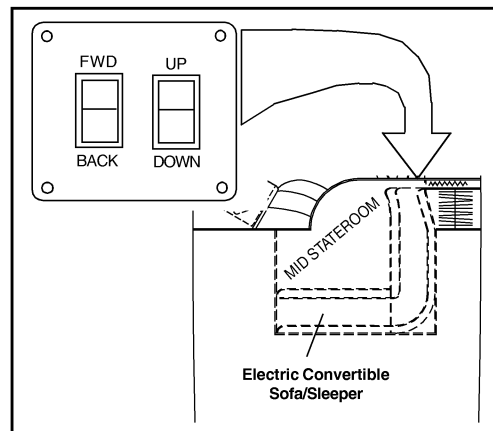
1. Mid Stateroom seat in normal position. (fig. 12.32.5)



2. Press control switch on starboard forward panel to bring seat forward and back down. (fig. 12.32.6)



3. Place sleeper cushion into position against aft bulkhead. (fig. 12.32.7)



4. Mid Stateroom sleeper control switch on starboard forward panel. (fig. 12.32.8)

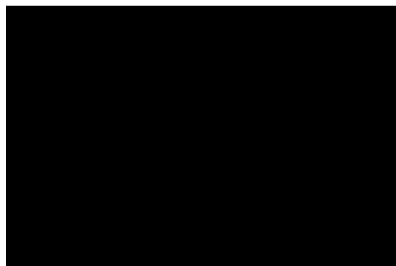
To Operate:

1. Press FWD button first to bring base forward.
2. Press DOWN button second to lower the back.
3. Reverse procedure to put sleeper sofa back into upright position.

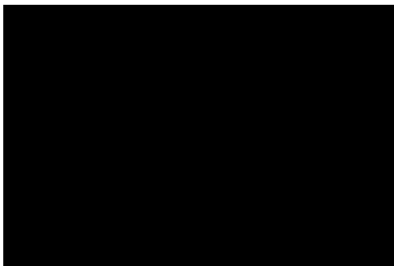
Special Features

COCKPIT SUNPAD ARRANGEMENT

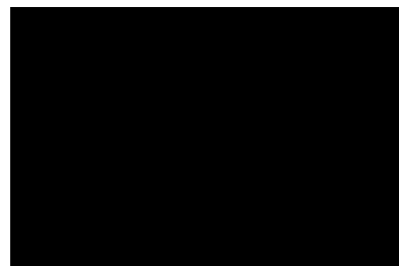
To setup cockpit sun pad:



1. Insert short table post and fold out legs under table. (fig. 12.33.1)

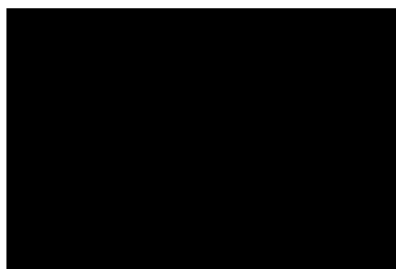


2. Make sure to lock legs in place with securing pins. (fig. 12.33.2)

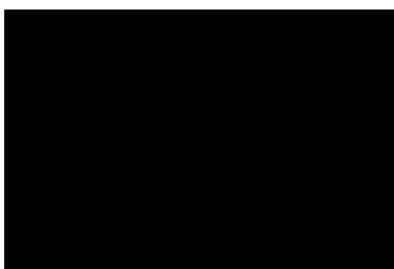


3. Place table on post. (fig. 12.33.3)

COCKPIT TABLE STORAGE

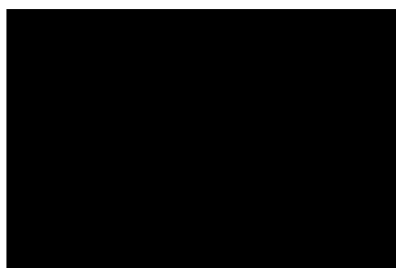


4. Place sunpad on table and snap underneath table. (fig. 12.33.4)

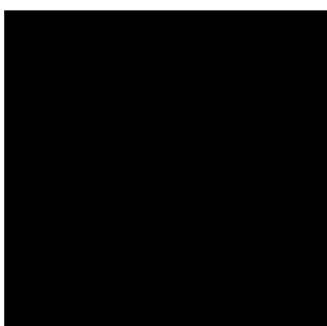


The cockpit table stores in a rack under the bilge hatch. A strap with a snap is provided to secure the table. (fig. 12.33.5)

TRANSOM STORAGE COMPARTMENT

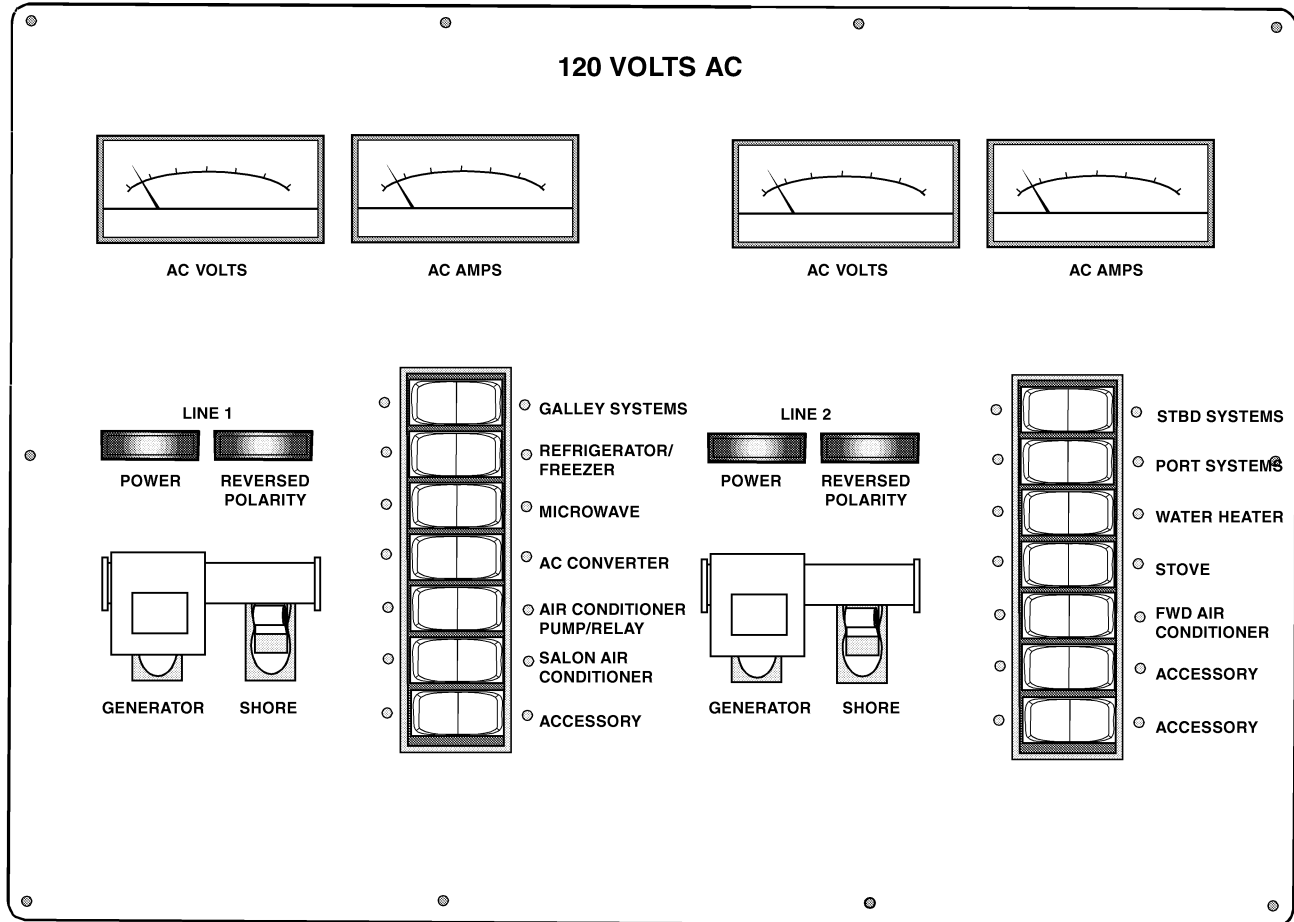


1. Contains room for fenders and docklines. Also, fresh water washdown, dockside water inlet, shore power hookup w/breakers and phone/TV cable inlets. (fig. 12.33.6)



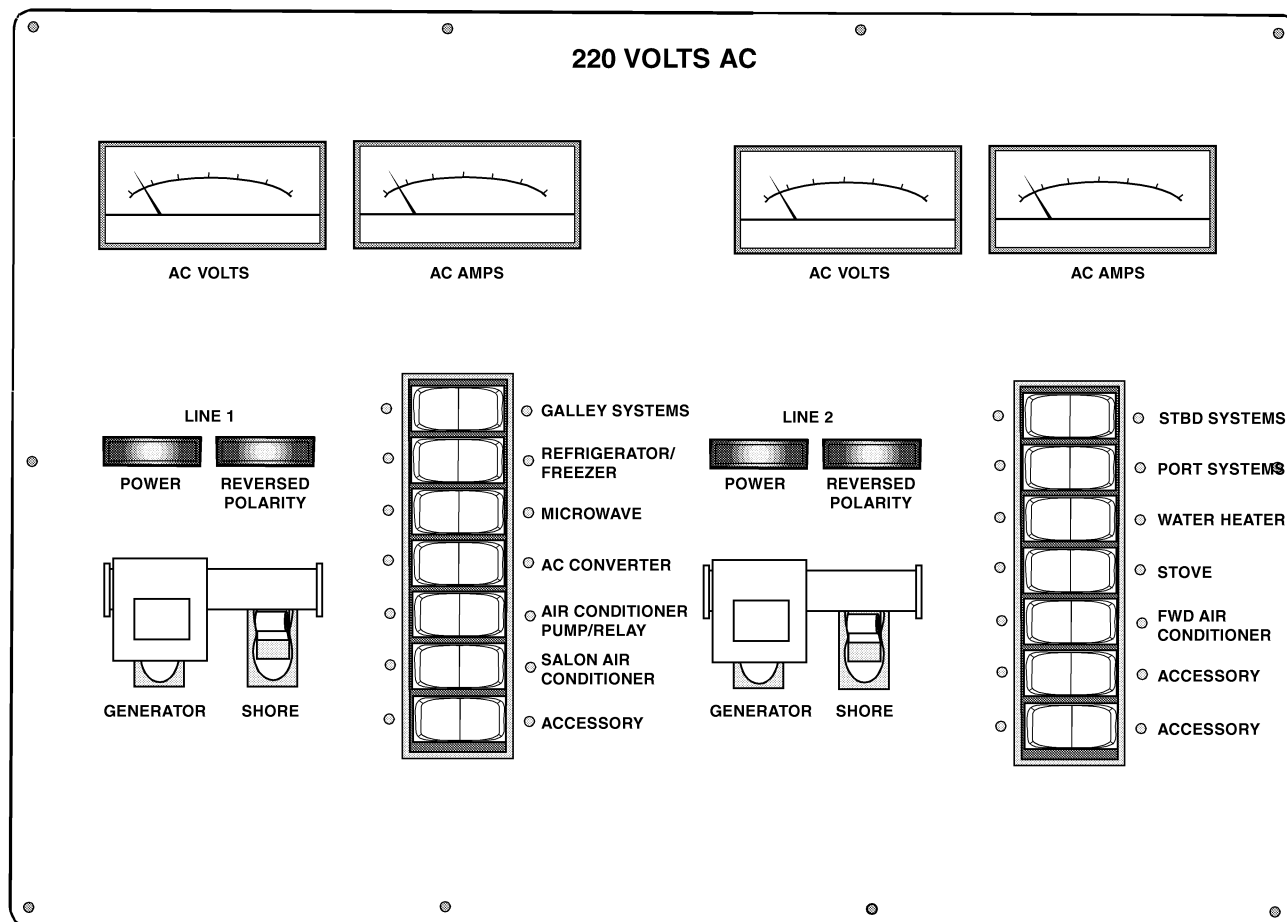
2. Phone/TV cable inlets, shore power hookup with breakers, dockside water inlet and fresh water washdown spigot. (fig. 12.33.7)

Standard AC Main Distribution Panel (120V)



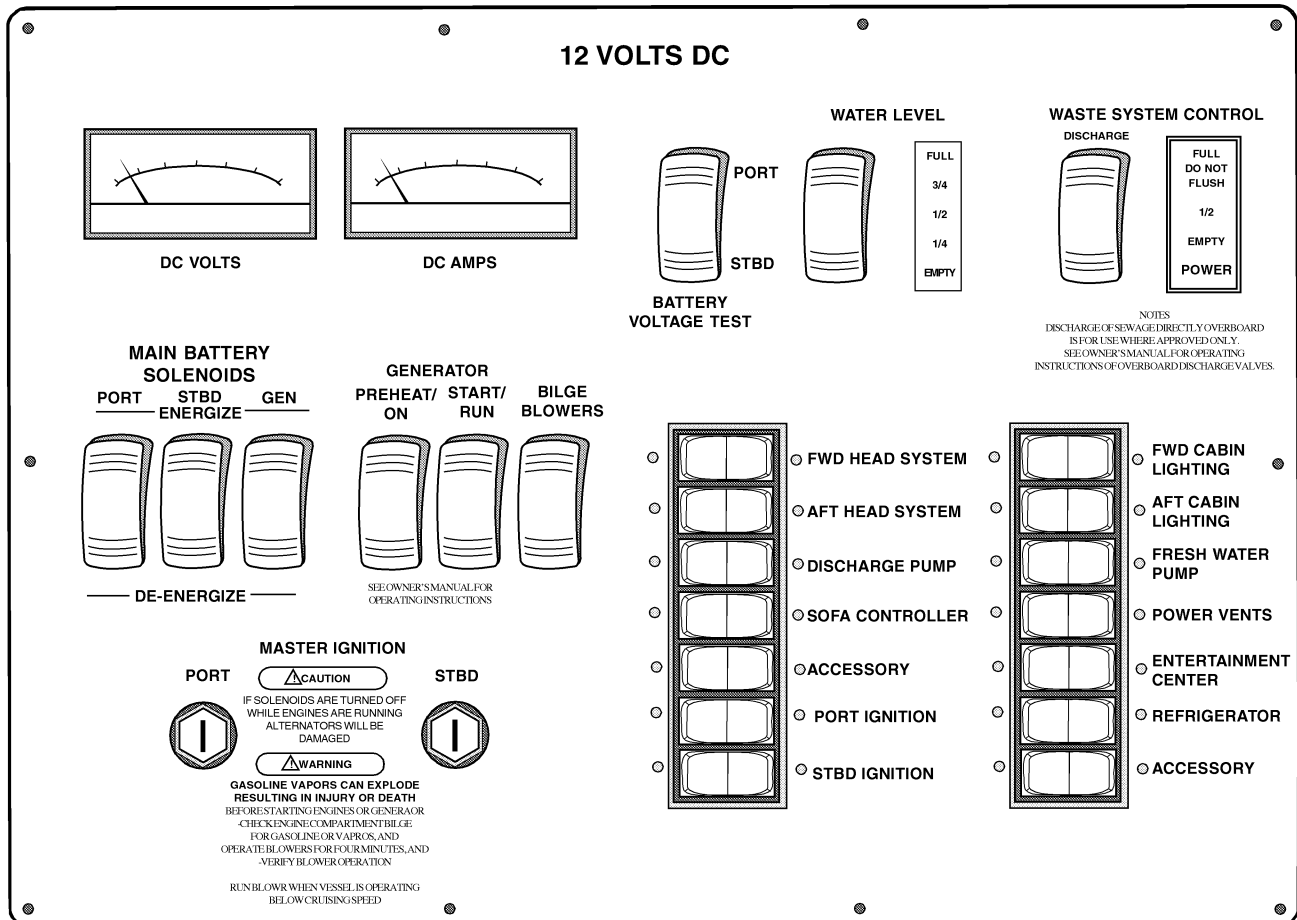
(fig. 12.34.1)

Optional AC Main Distribution Panel (220V)



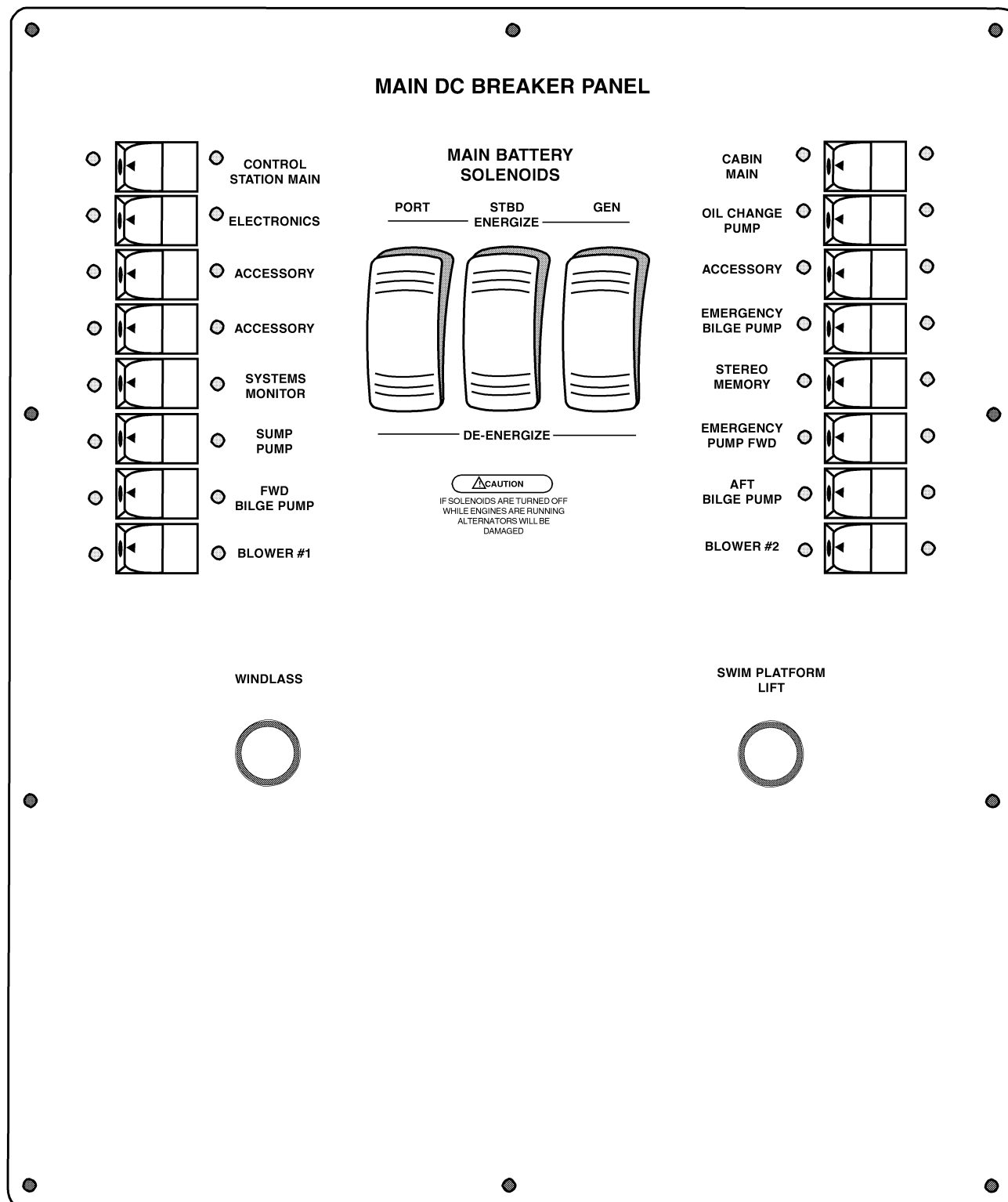
(fig. 12.35.1)

Standard DC Main Distribution Panel (12V)



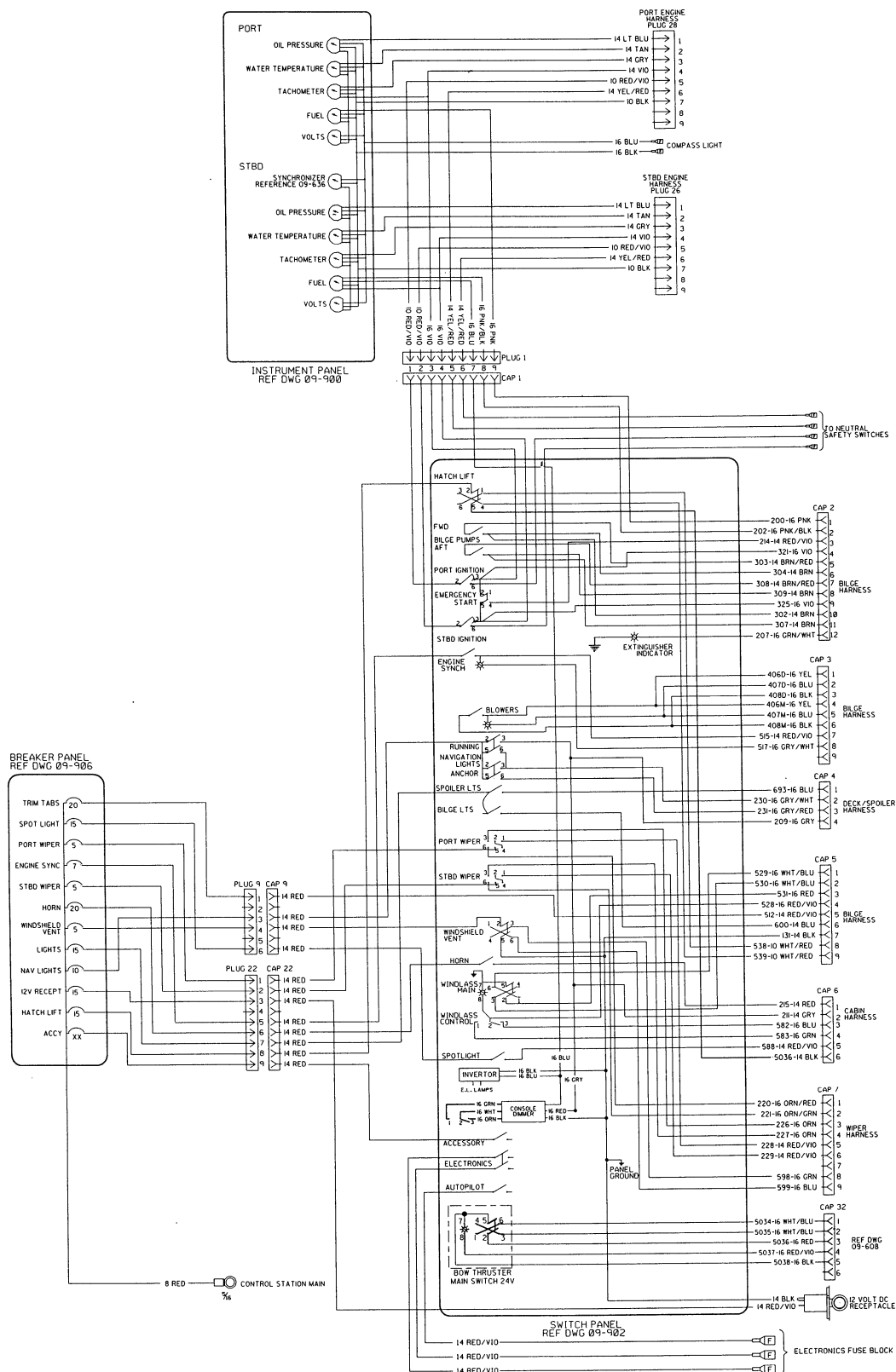
(fig. 12.36.1)

Main DC Breaker & Battery Switch Panel

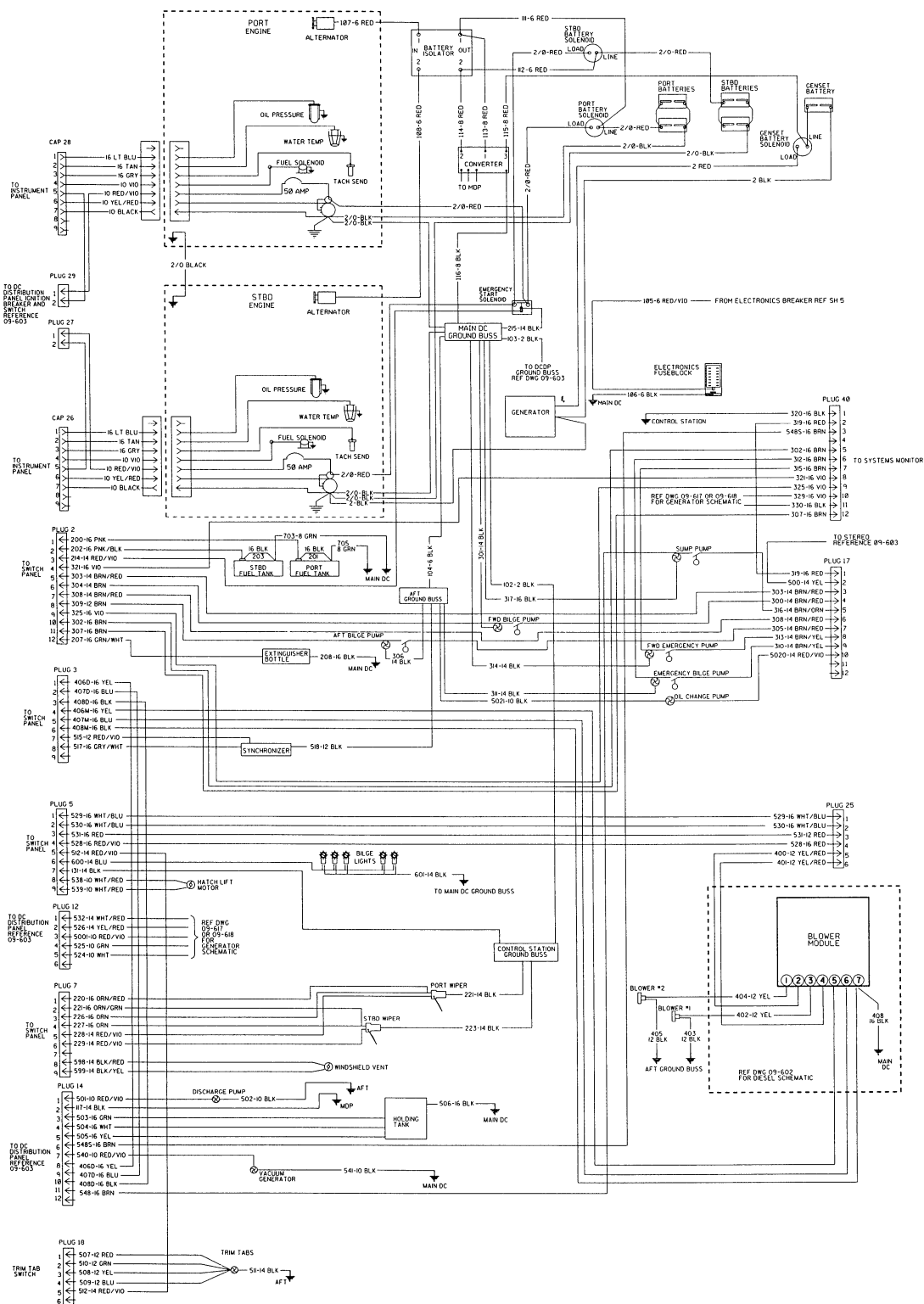


(fig. 12.37.1)

DC Wiring Schematic (1 of 5)

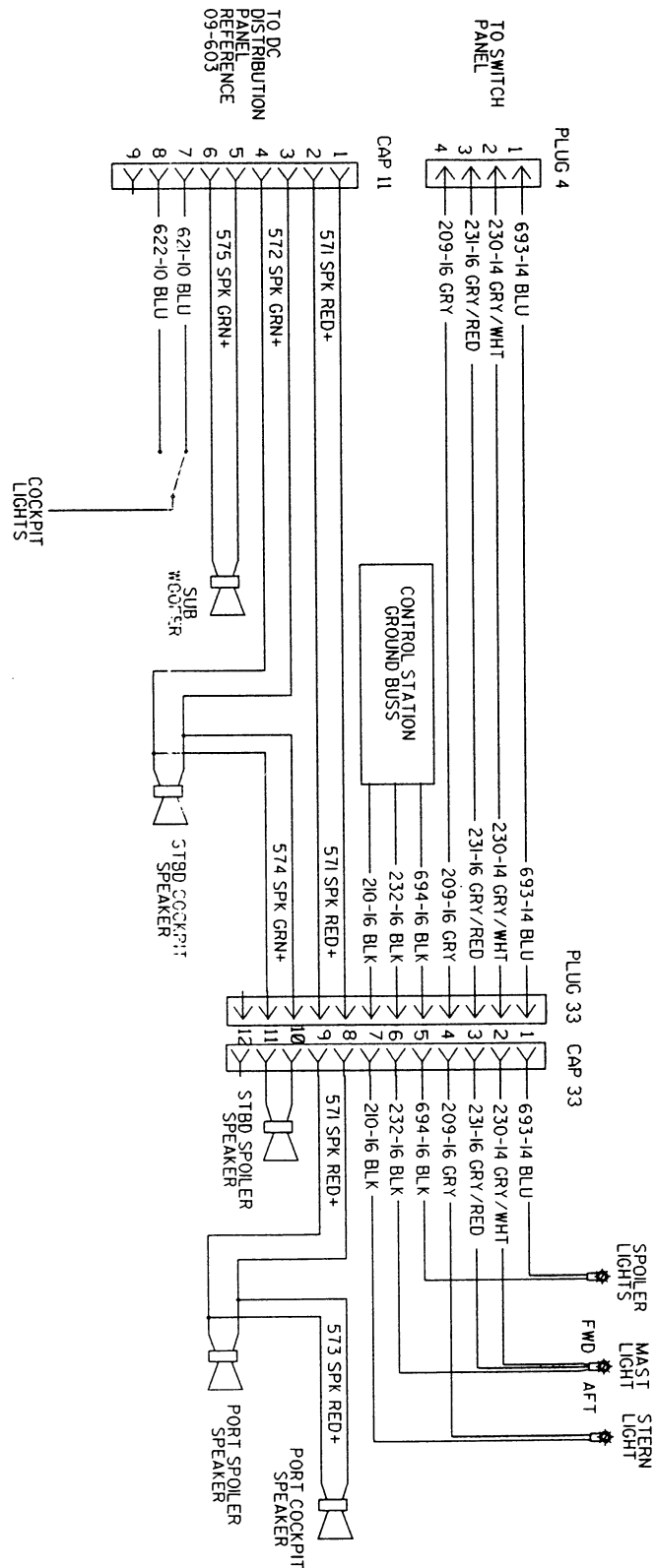


DC Wiring Schematic (2 of 5)

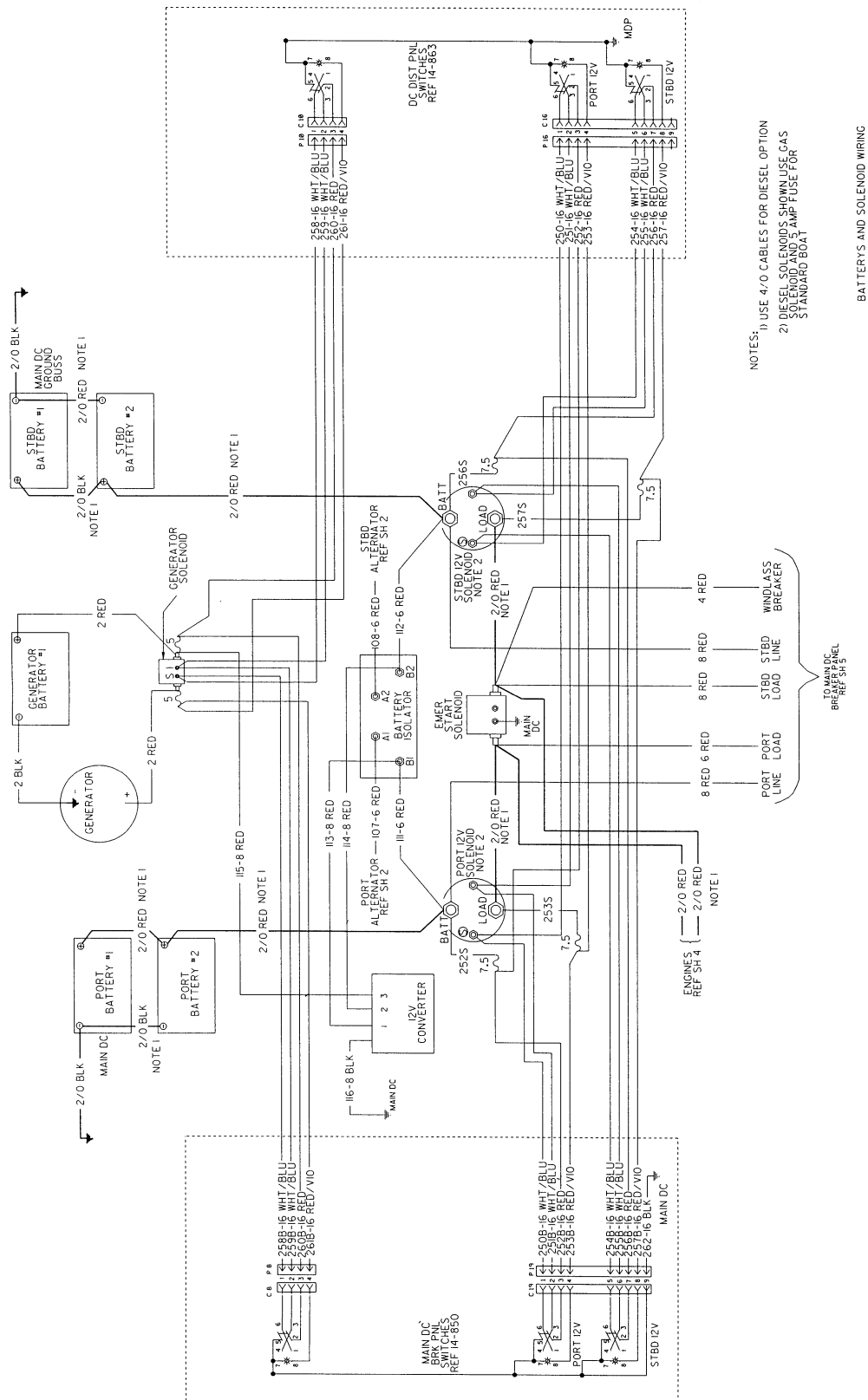


PRINT #09-601, 2 of 5, REVISION #0

DC Wiring Schematic (3 of 5)

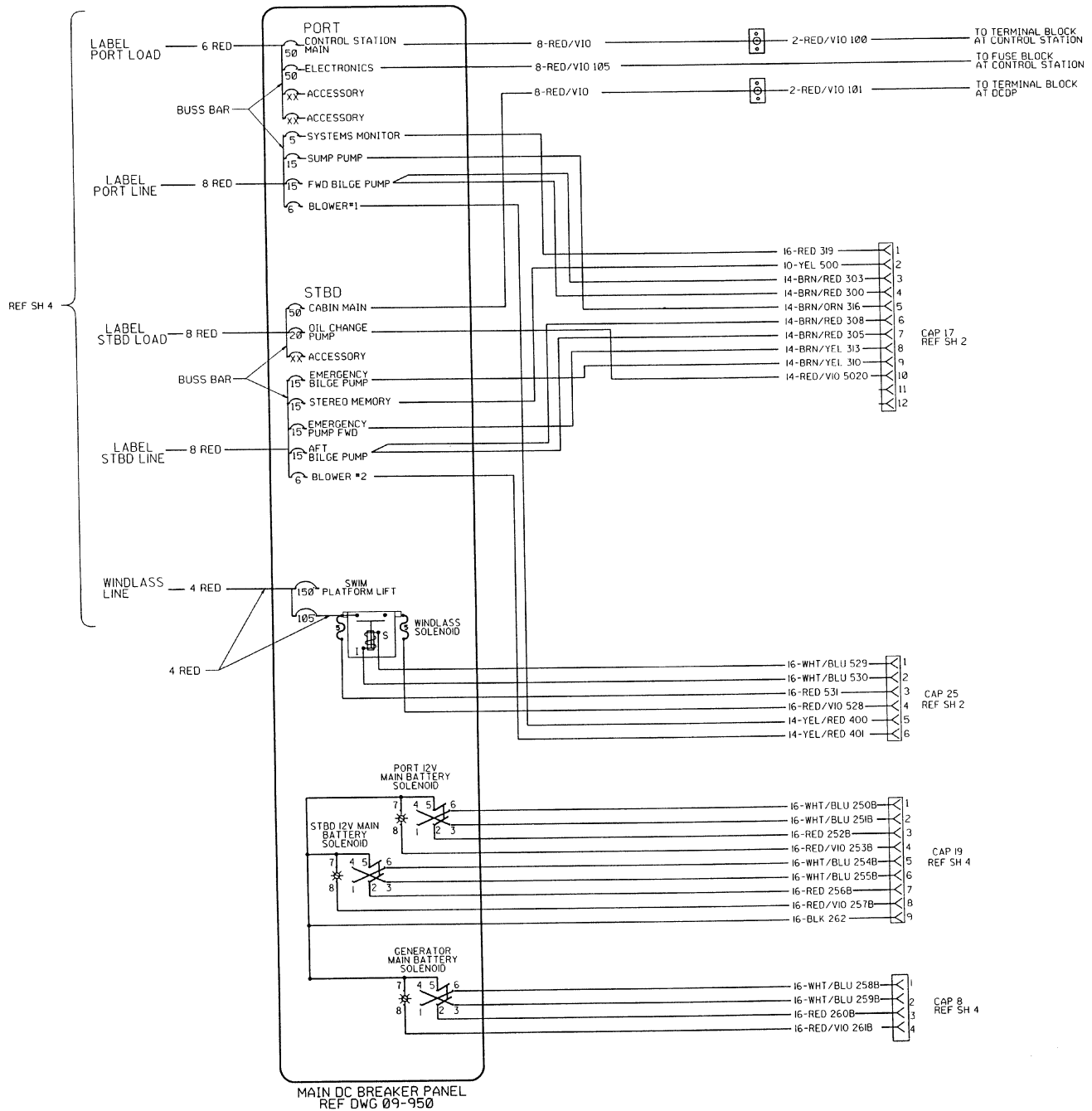


DC Wiring Schematic (4 of 5)

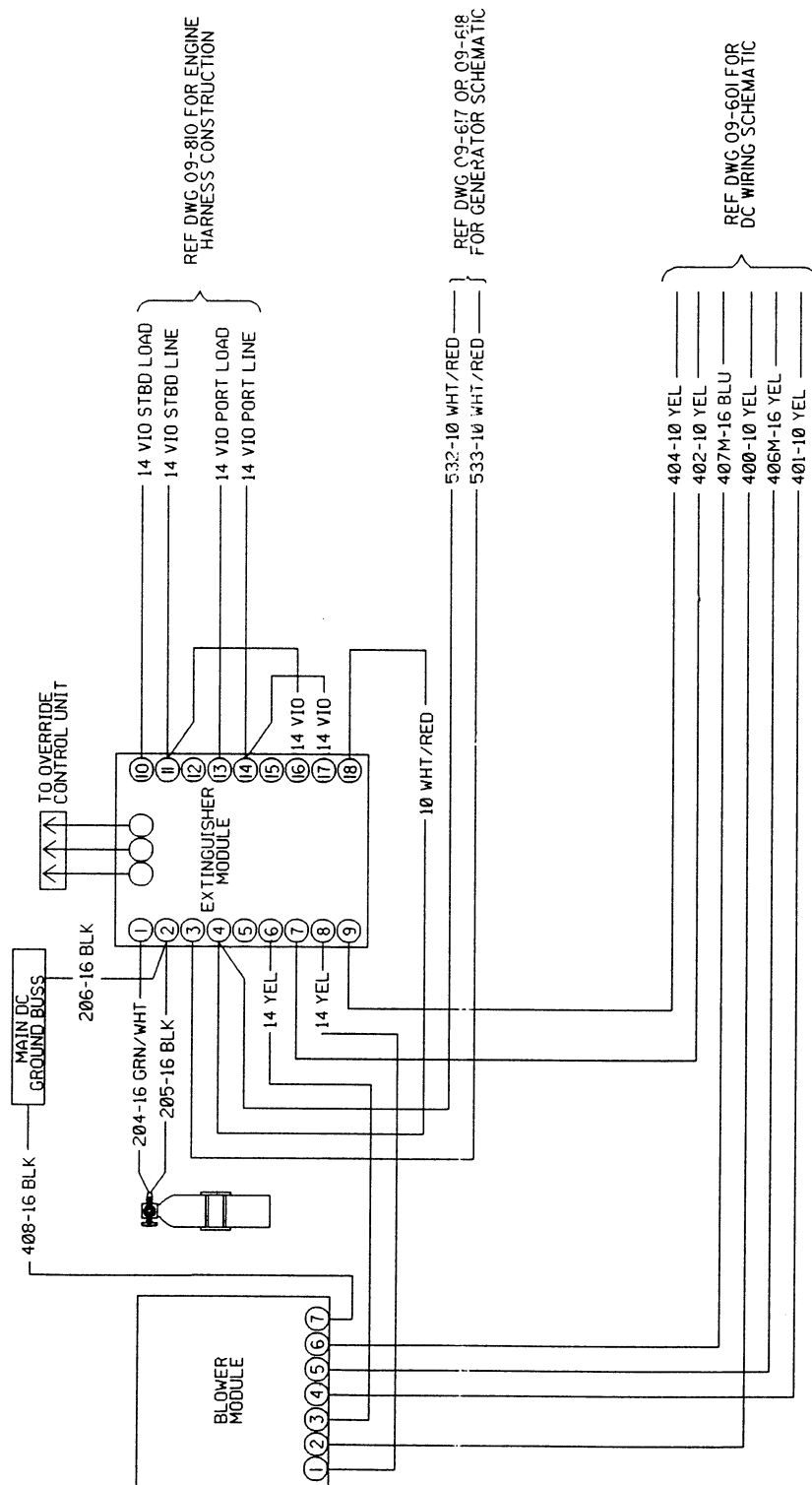


PRINT #09-601, 4 of 5, REVISION #0

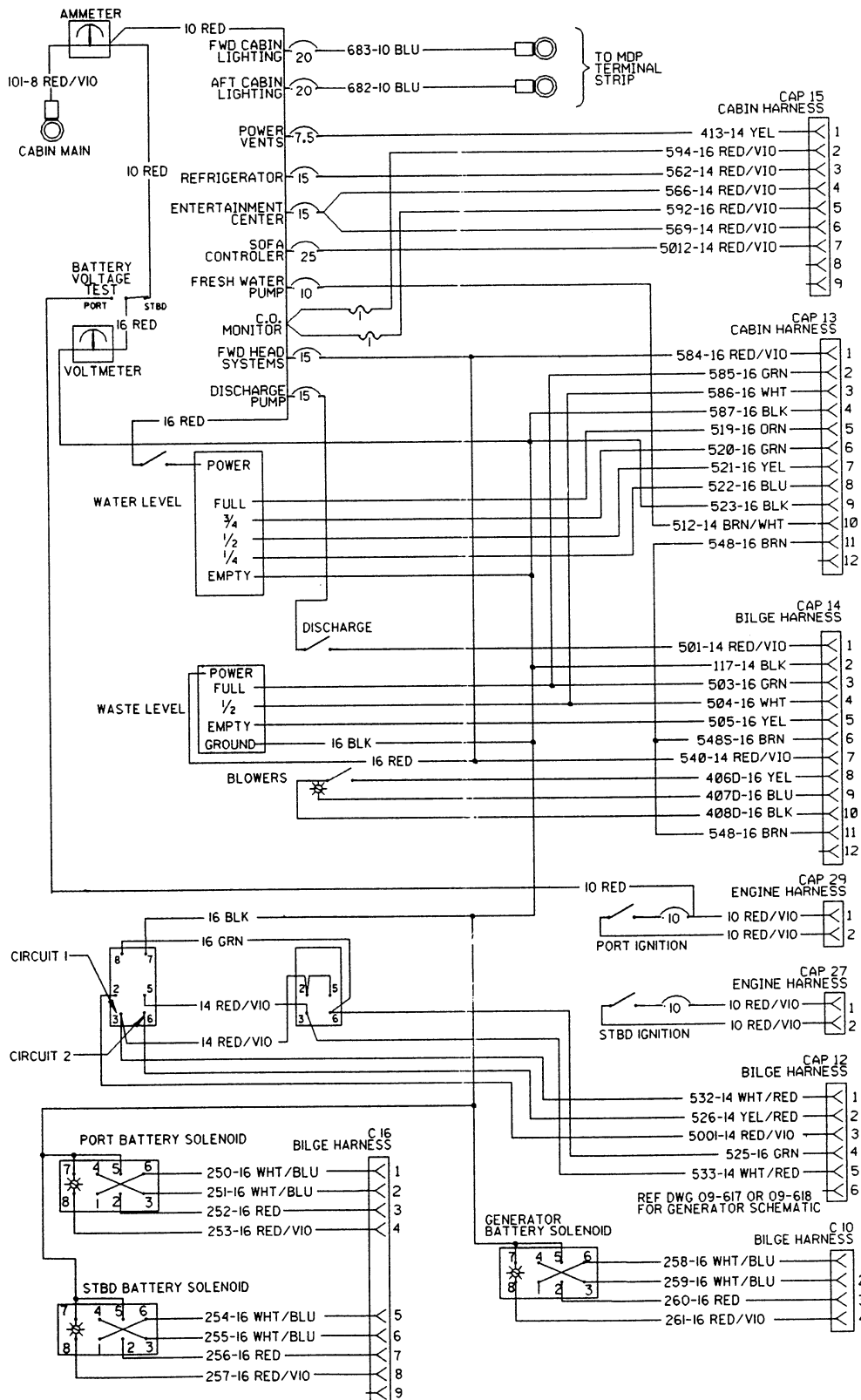
DC Wiring Schematic (5 of 5)

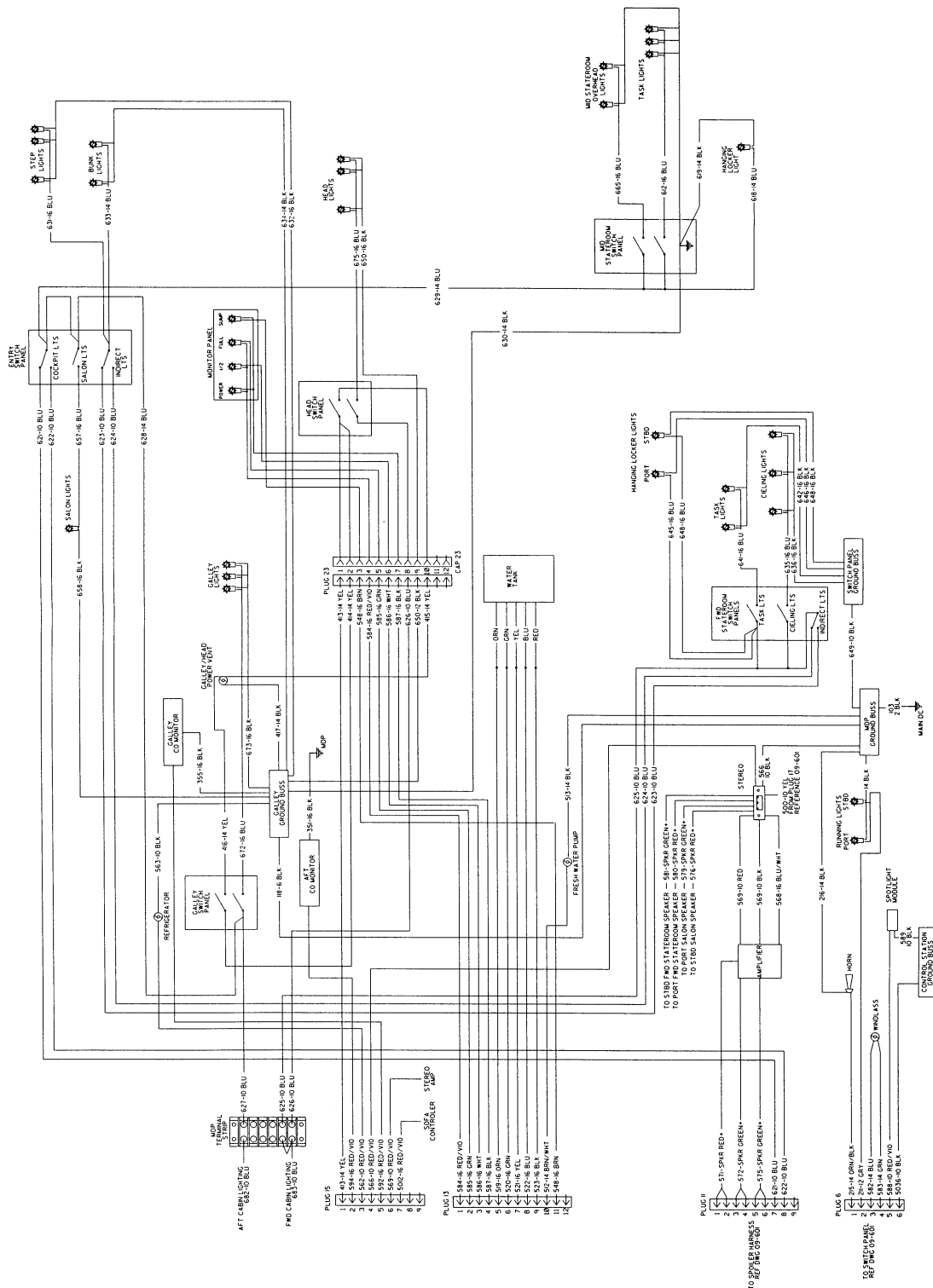


DC Wiring Schematic (Diesel)



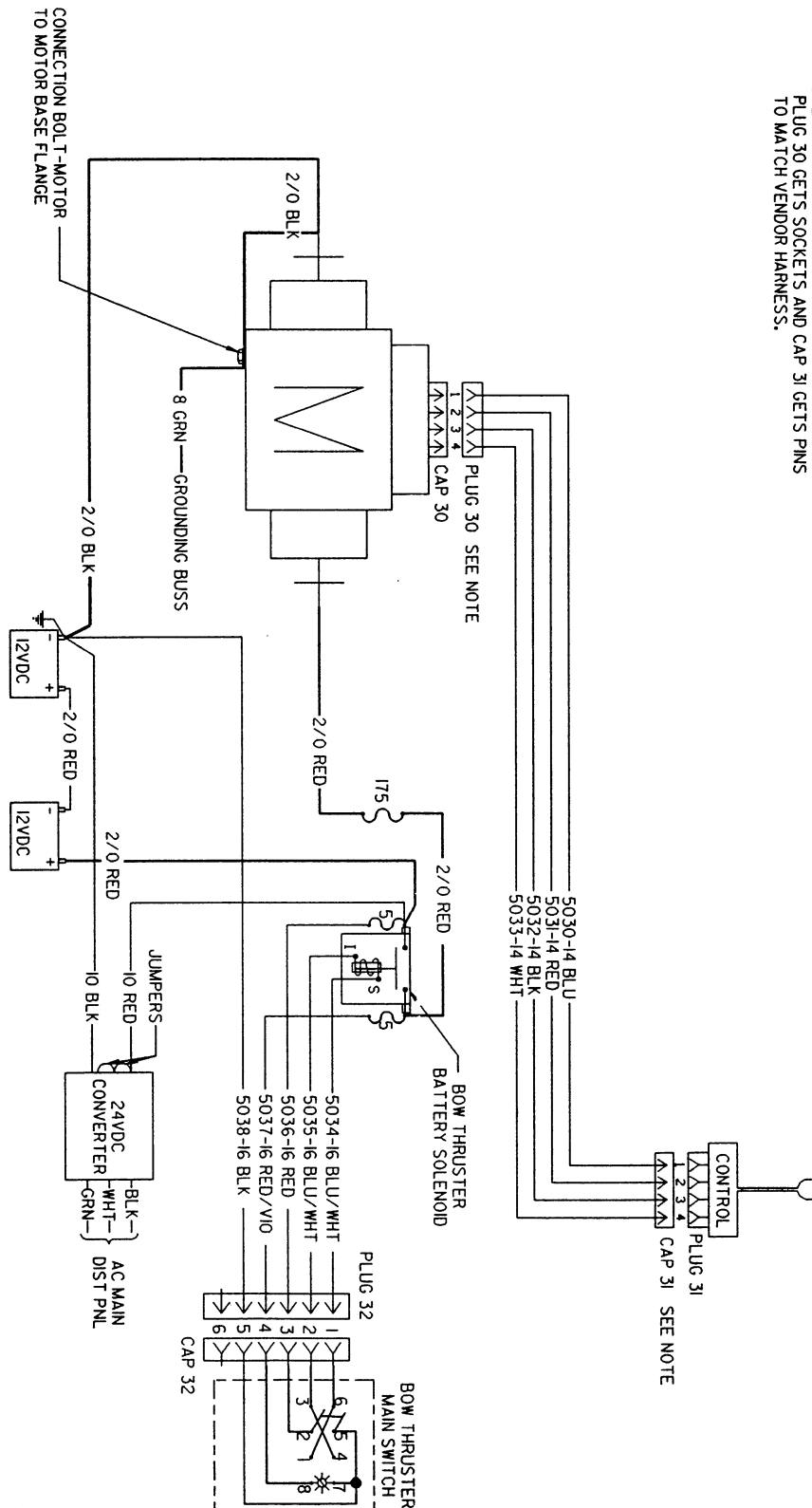
Cabin DC Wiring Schematic (1 of 2)



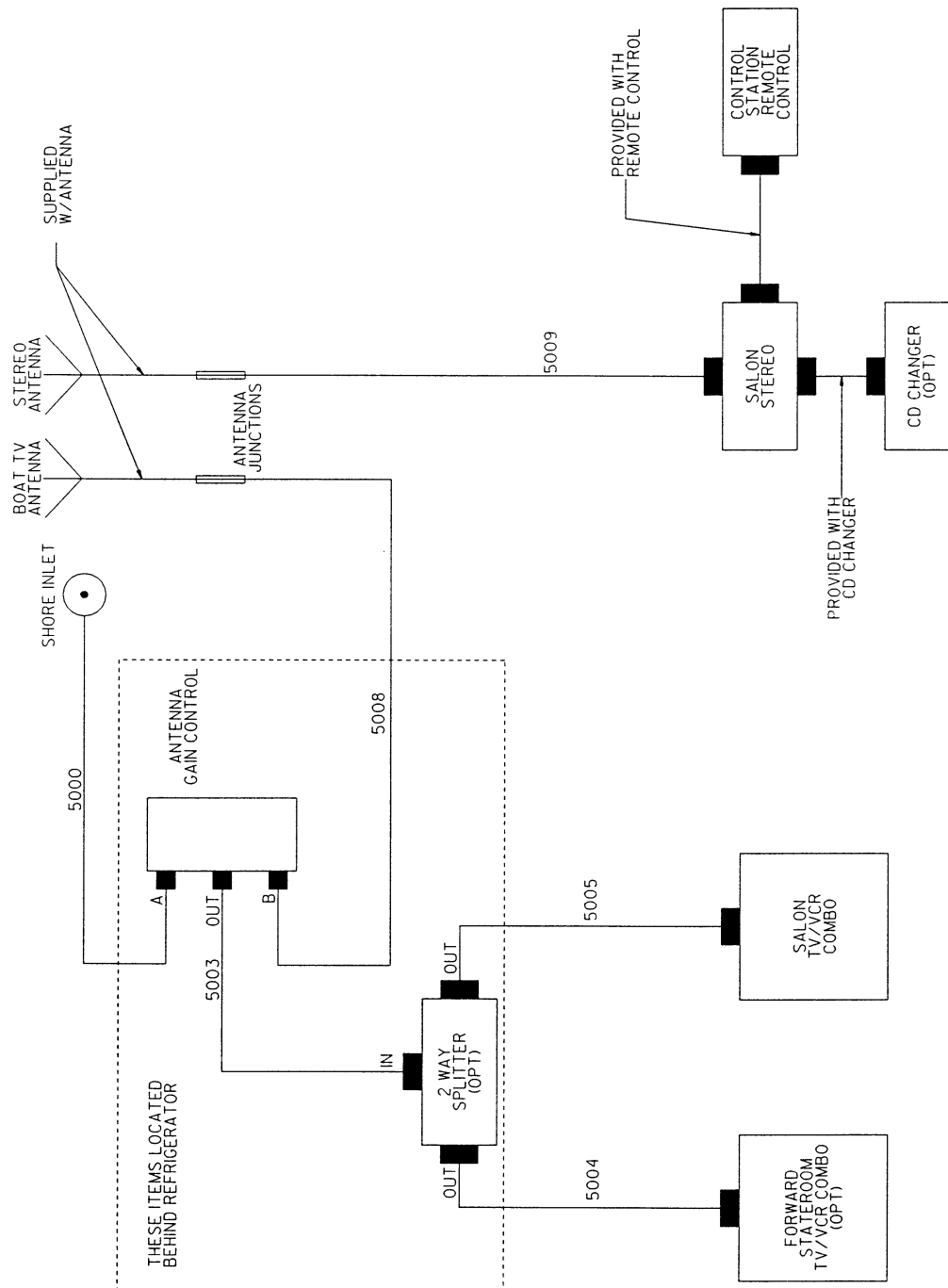


Bow Thruster Schematic (Vetus 80KGF)

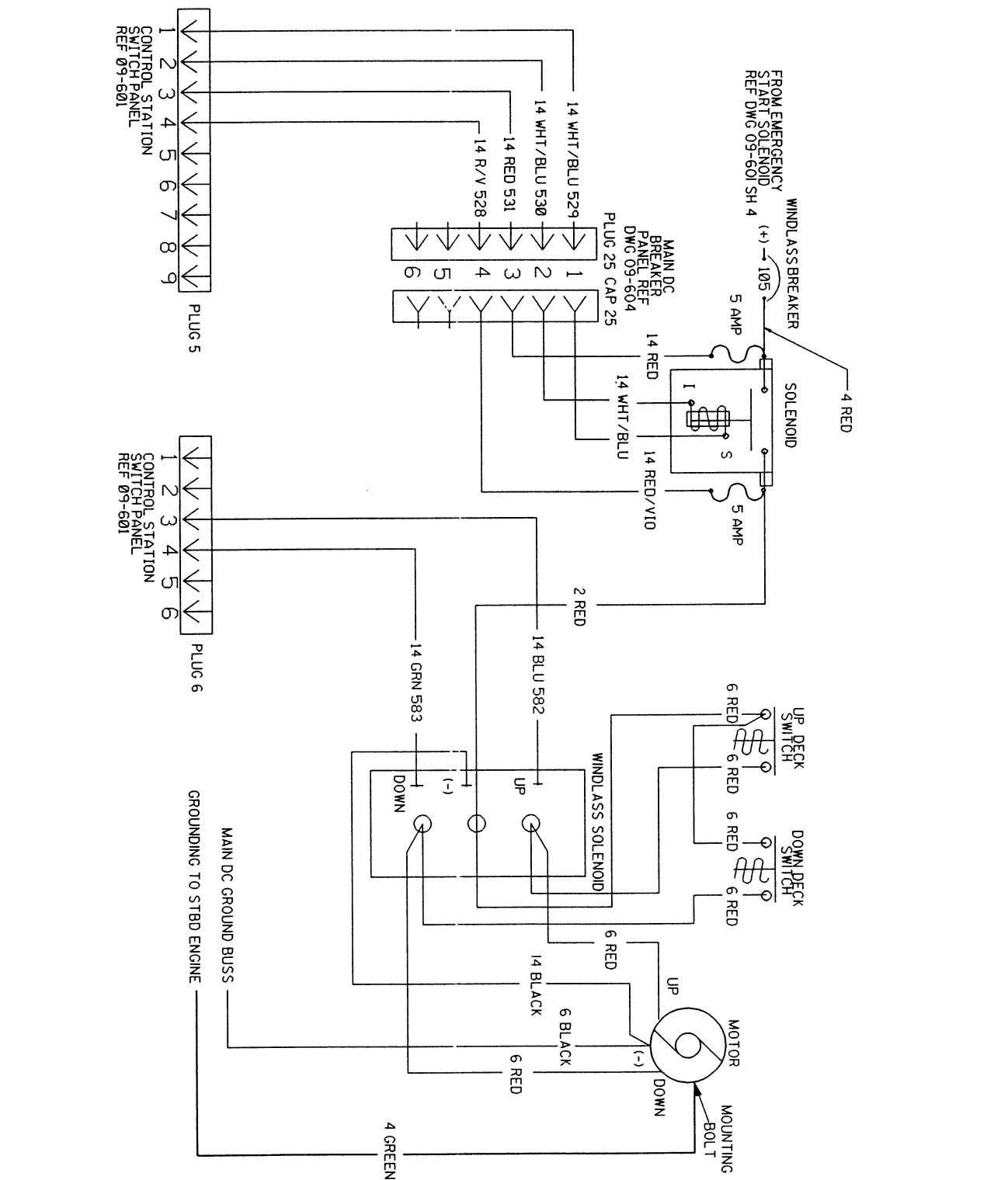
NOTE
PLUG 30 GETS SOCKETS AND CAP 31 GETS PINS
TO MATCH VENDOR HARNESS.



TV Antenna System Schematic

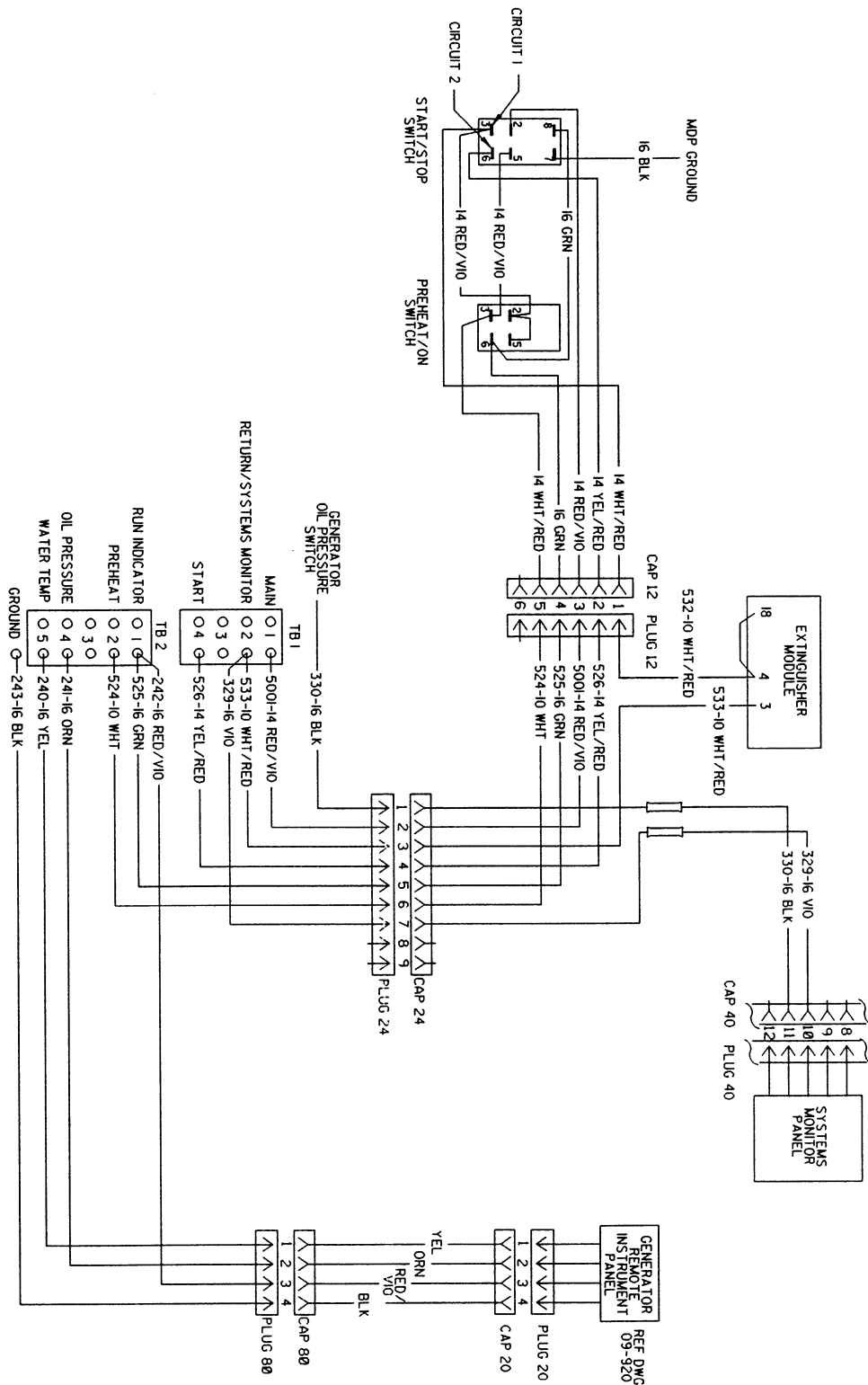


Windlass Wiring Schematic (Lofrans® Progress I)



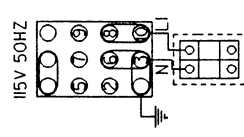
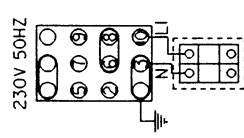
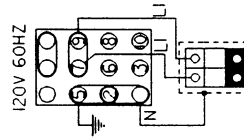
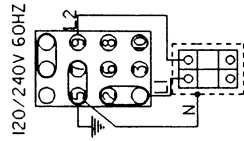
Generator Schematic

(Westerbeke® Diesel [Option])

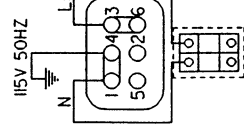
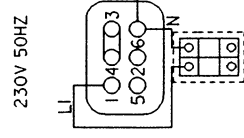
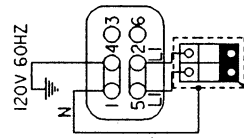
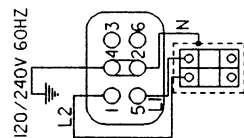


Generator High Voltage Wiring

(Westerbeke®)

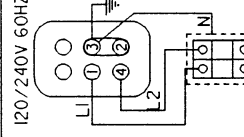
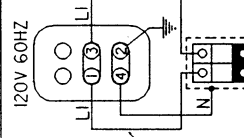
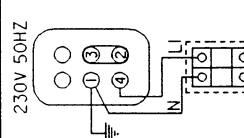
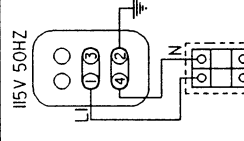


WHEN WIRING 120V/60HZ A JUMPER IS REQUIRED BETWEEN LOAD CONNECTIONS



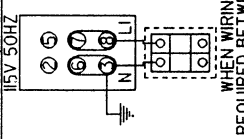
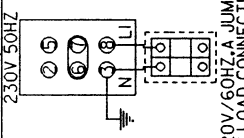
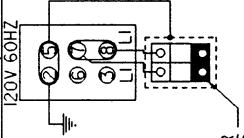
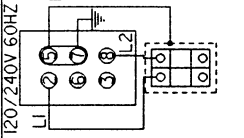
WHEN WIRING 120V/60HZ A JUMPER IS REQUIRED BETWEEN LOAD CONNECTIONS

MODEL	RATING	BREAKER	VOLTS/Hz
5.7kW BTD	25 AMP	42705	230V/50HZ
6.0kW BTD	30 AMP	42706	230V/50HZ
6.8kW BTG-A	30 AMP	42714	230V/50HZ
7.0kW BTG	35 AMP	42715	230V/50HZ
7.6kW BTD	35 AMP	42707	120V/60HZ OR 120/240V/60HZ
8.0kW BTD	35 AMP	42707	120V/60HZ OR 120/240V/60HZ
8.5kW BTG-A	40 AMP	42236	120V/60HZ OR 120/240V/60HZ
9.0kW BTG	40 AMP	42236	120V/60HZ OR 120/240V/60HZ



WHEN WIRING 120V/60HZ A JUMPER IS REQUIRED BETWEEN LOAD CONNECTIONS

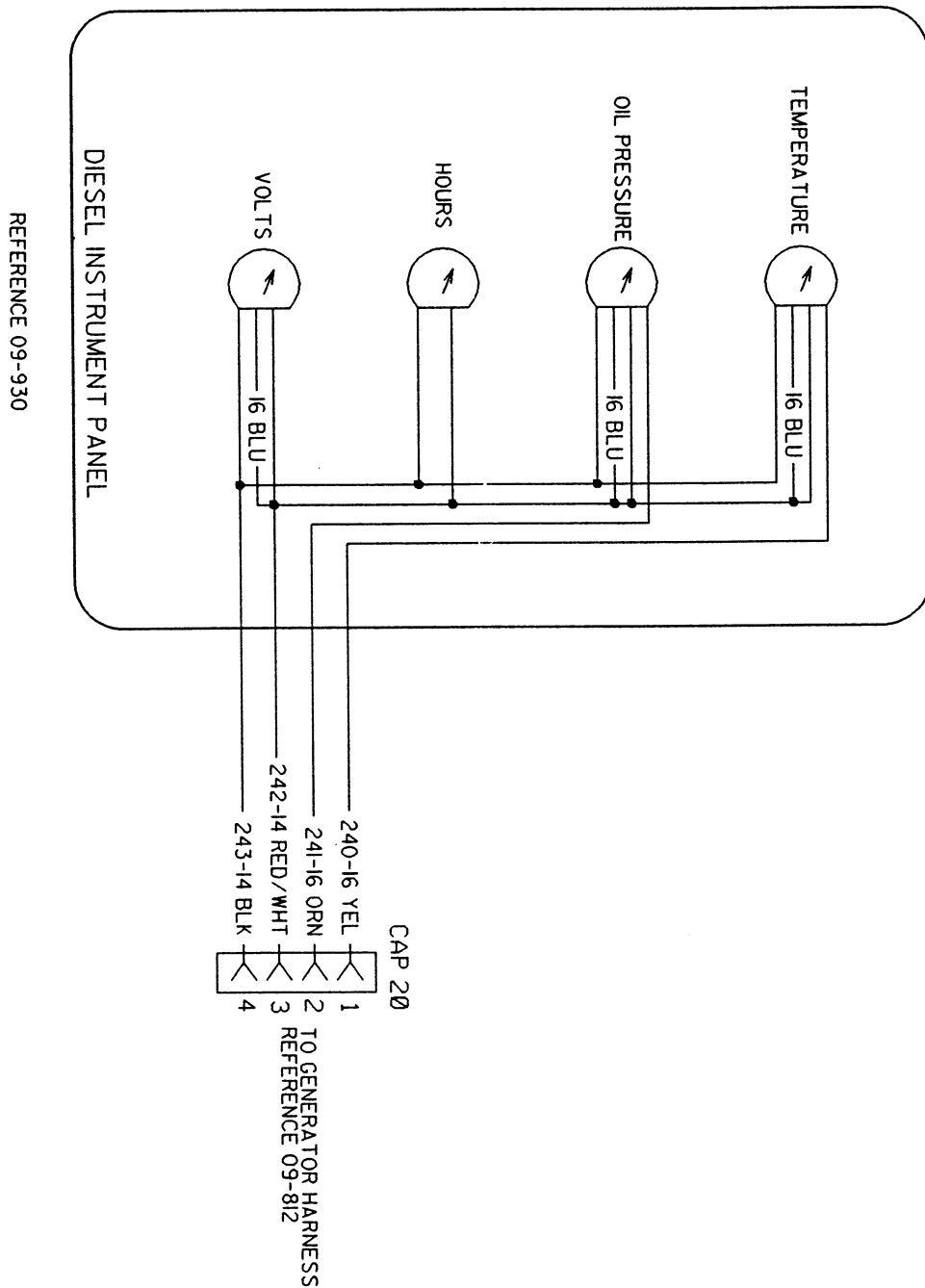
MODEL	RATING	BREAKER	VOLTS/Hz
3.5kW BCG+A+B	15 AMP	42712	230V/50HZ
5.0kW BCG	25 AMP	42713	230V/50HZ
4.0kW BCGA+B	20 AMP	42704	230V/50HZ
7.0kW BCG	30 AMP	42714	120V/60HZ OR 120/240V/60HZ
4.5kW BCG+A+B	20 AMP	42232	120V/60HZ OR 120/240V/60HZ
5.0kW BCGA+B	25 AMP	42705	120V/60HZ OR 120/240V/60HZ



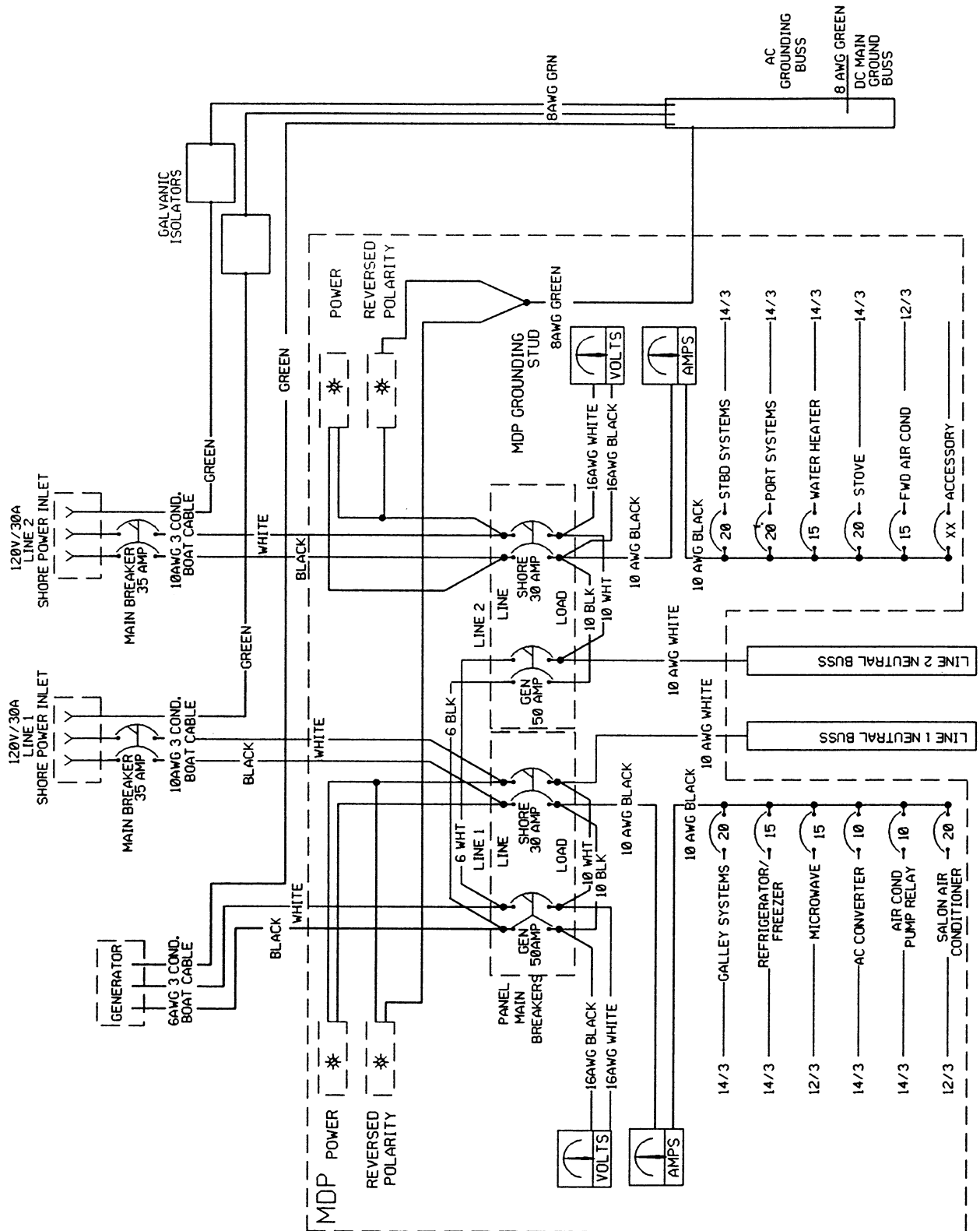
MODEL	RATING	BREAKER	VOLTS/Hz
10.0kW BTG	50 AMP	42716	230V/50HZ
12.0kW BTG	60 AMP	42717	230V/50HZ
7.5kW BTD	35 AMP	42707	230V/50HZ
8.3kW BTD	40 AMP	42708	230V/50HZ
12.0kW BTD	60 AMP	42709	230V/50HZ
10.0kW BTD	50 AMP	42698	120V/60HZ OR 120/240V/60HZ
12.5kW BTD	60 AMP	42709	120V/60HZ OR 120/240V/60HZ
15.0kW BTD	70 AMP	42710	120V/60HZ OR 120/240V/60HZ
12.5kW BTG	60 AMP	42717	120V/60HZ OR 120/240V/60HZ
15.0kW BTG	70 AMP	42718	120V/60HZ OR 120/240V/60HZ

MODEL	RATING	BREAKER	VOLTS/Hz
16.0kW BEDA	70 AMP	42710	230V/50HZ
16.0kW BEC	70 AMP	42718	230V/50HZ
25.0kW BEDA	120 AMP	TBD	230V/50HZ
20.0kW BED	90 AMP	42711	230V/50HZ
32.0kW BEDA	150 AMP	42703	120V/60HZ OR 120/240V/60HZ
20.0kW BEDA	90 AMP	42711	120V/60HZ OR 120/240V/60HZ
25.0kW BED	100 AMP	42702	120V/60HZ OR 120/240V/60HZ
20.0kW BEC	90 AMP	42696	120V/60HZ OR 120/240V/60HZ

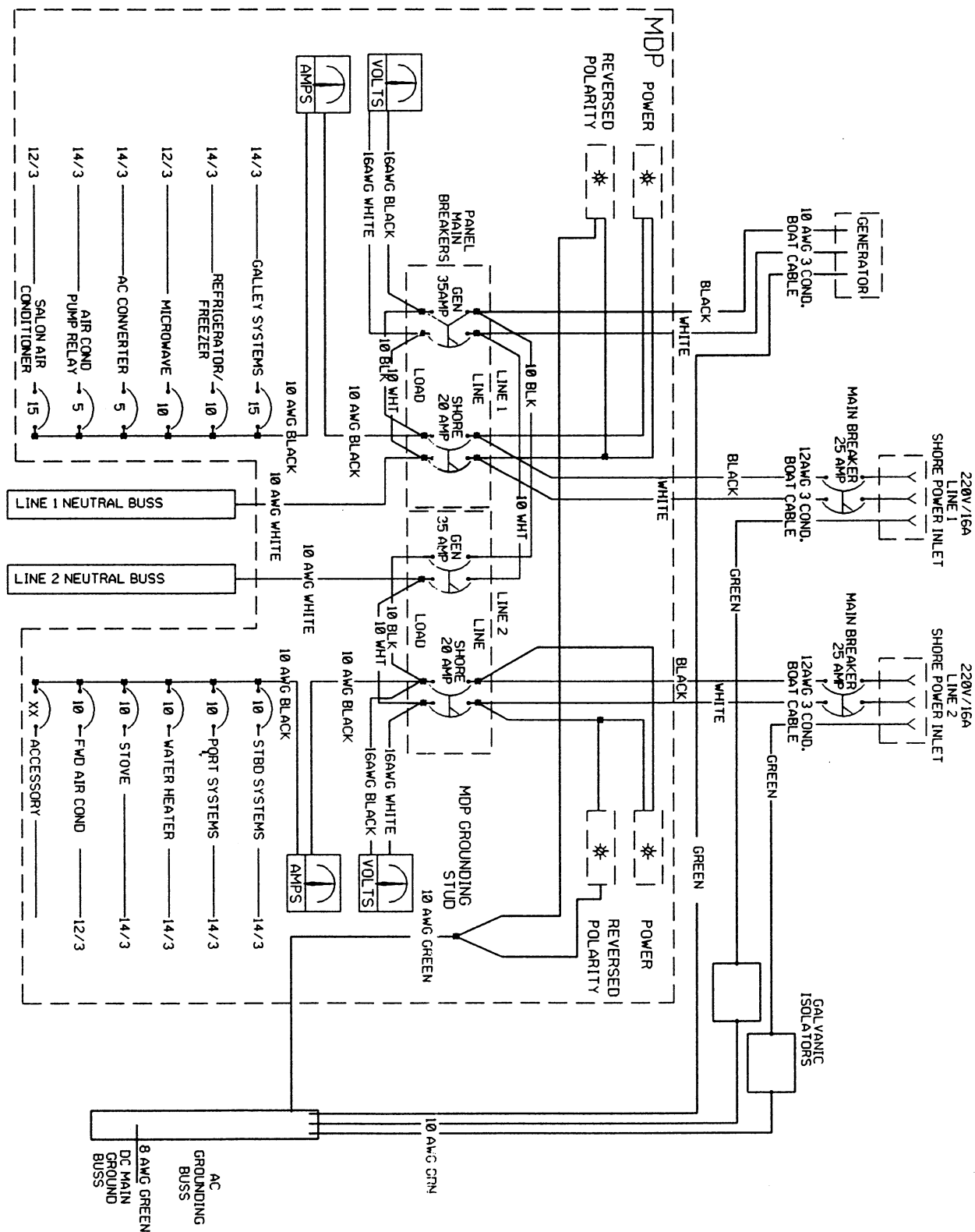
Diesel Generator Instrument Panel Schematic (Option)



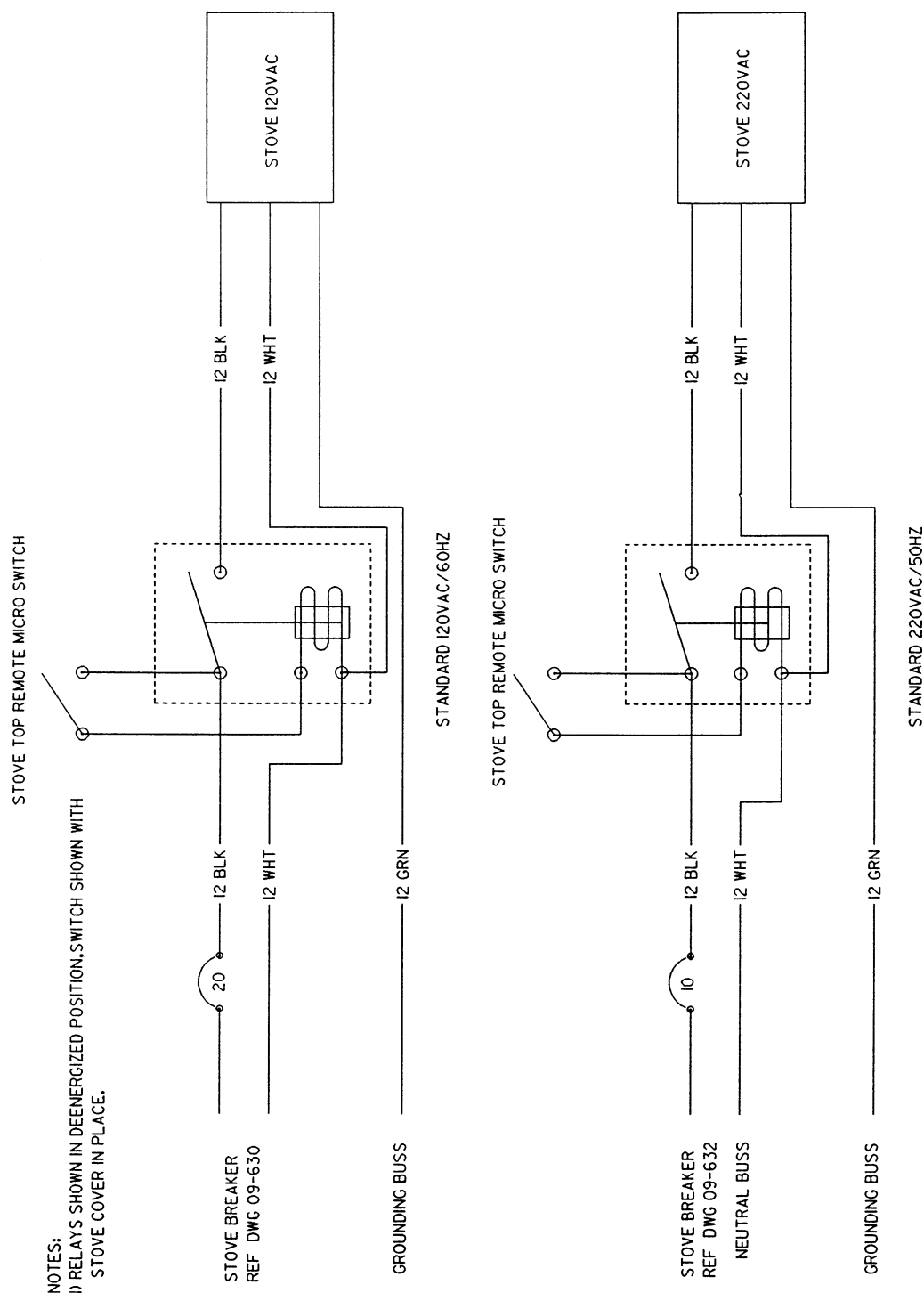
AC Wiring Schematic (120 Volt)



AC Wiring Schematic (220 Volt)

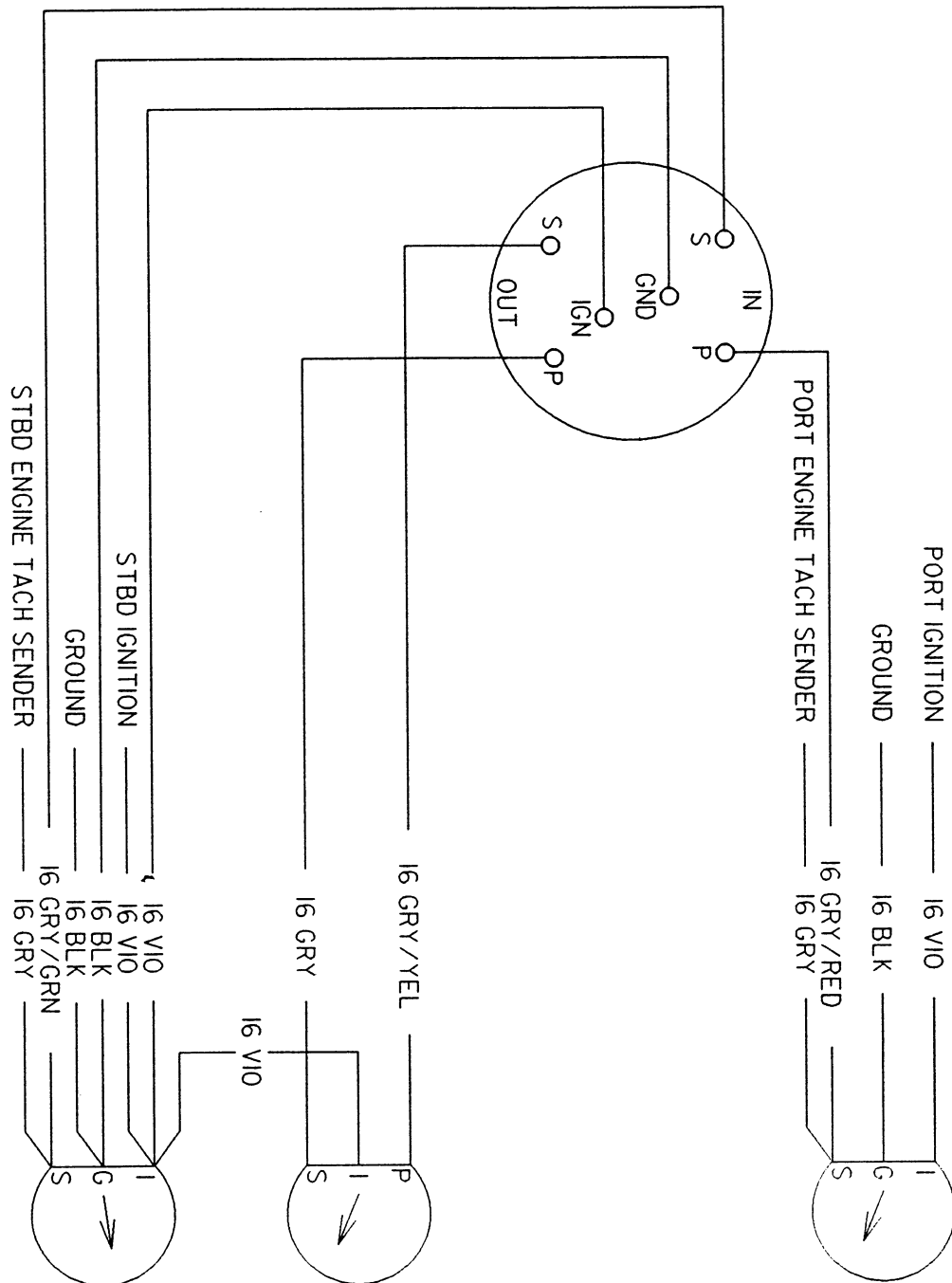


Stove Top Switch Wiring Diagram



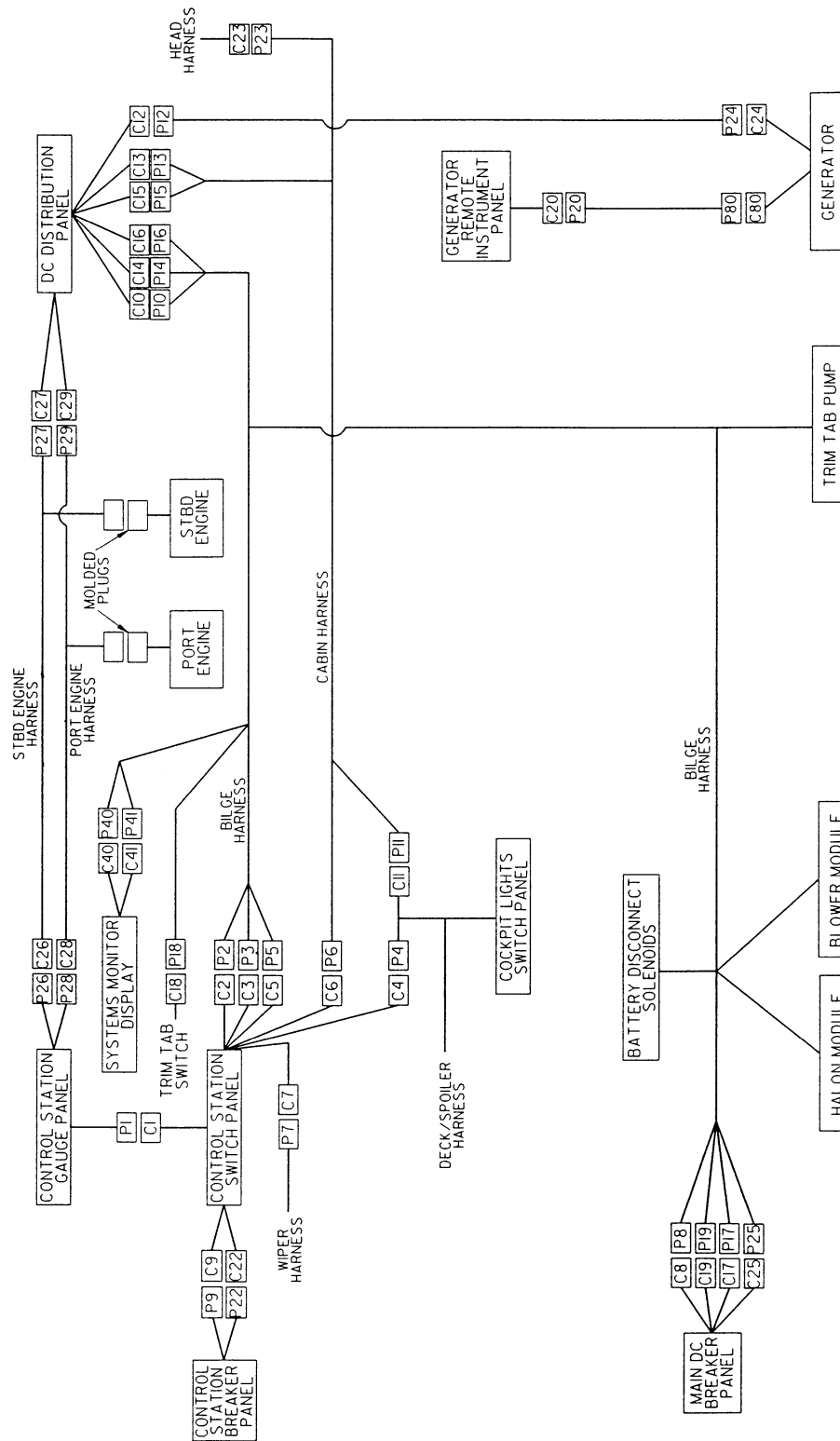
Engine Synchronizer Module Wiring

(Teleflex)



NOTE: WIRED AS SHOWN, GAUGE WILL INDICATE TOWARD SLOWER ENGINE.

Interconnect Diagram



International Homologations

This vessel and its systems have been constructed in accordance with standards and specifications in effect at the time of manufacture as published by the various regulatory authorities listed below.

1. Ministere De La Mer - France
2. Registro Italiano Navale - Italy
3. Det Norske Veritas - Norway
4. Securite des Nauires - Canada
5. J.C.I. (Japan Craft Inspection) - Japan
6. N.K.K. (Nippon Kaiji Kyokai) - Japan
7. B.S.I. (British Standards Institute) - England
8. Ministerio Obras Publicas Y Transporters - Spain
9. EC Directive - European Community

Further information may be obtained from Sea Ray® Customer Service. 1-800-SRBOATS.