

400 Sedan Bridge

Owner's Manual Supplement

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 book contains 41.)

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.

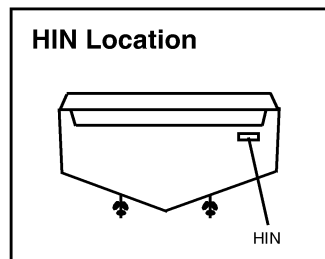
CONSTRUCTION STANDARDS

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 dealer in your area call:

1-800-SRBOATS.
Fax: 1-314-827-8488

If a problem is not handled to your satisfaction:

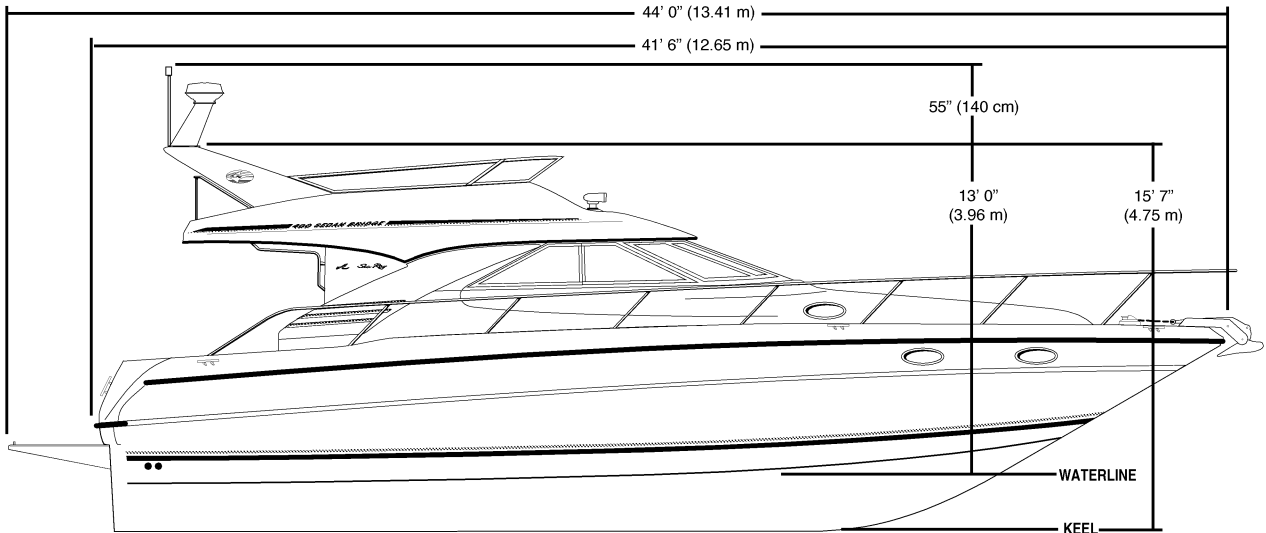
1. Discuss any warranty-related problems directly with the service manager of the dealership or your sales person. Give the dealer an opportunity to help the service department resolve the matter for you.
2. If a problem arises that has not been resolved to your satisfaction by your dealer, contact Sea Ray Boats at 1-800-SRBOATS and the appropriate customer service department information will be provided to you.



Specifications & Dimensions

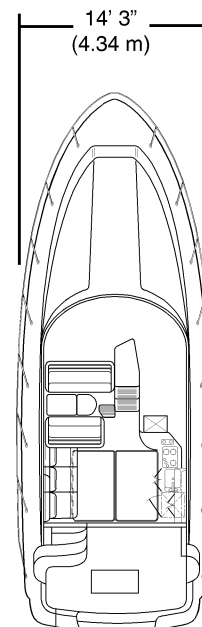
Profile

(fig. 12.3.1)



SPECIFICATIONS & HEIGHT DIMENSIONS

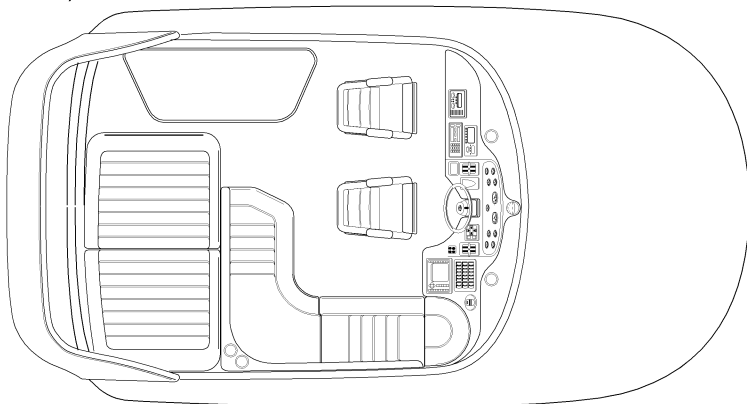
Overall Length	41' 6" (12.65 m)
w/Standard Platform	44' 0" (13.41 m)
Beam	14' 3" (4.34 m)
Draft	40" (102 cm)
Dry Weight	22,000 lbs. (9,979 kg)
Fuel Capacity	350 gal. (1,325 liters)
Usable Fuel	333 gal. (1,260 liters)
Water Capacity	120 gal. (454 liters)
Holding Tank	28 gal. (106 liters)
Dead Rise	18.5°
Waterline To Top Of Spoiler	13' 0" (3.96 m)
Keel To Top Of Spoiler	15' 7" (4.75 m)
Spoiler To Top Of Mastlight	55" (140 cm)



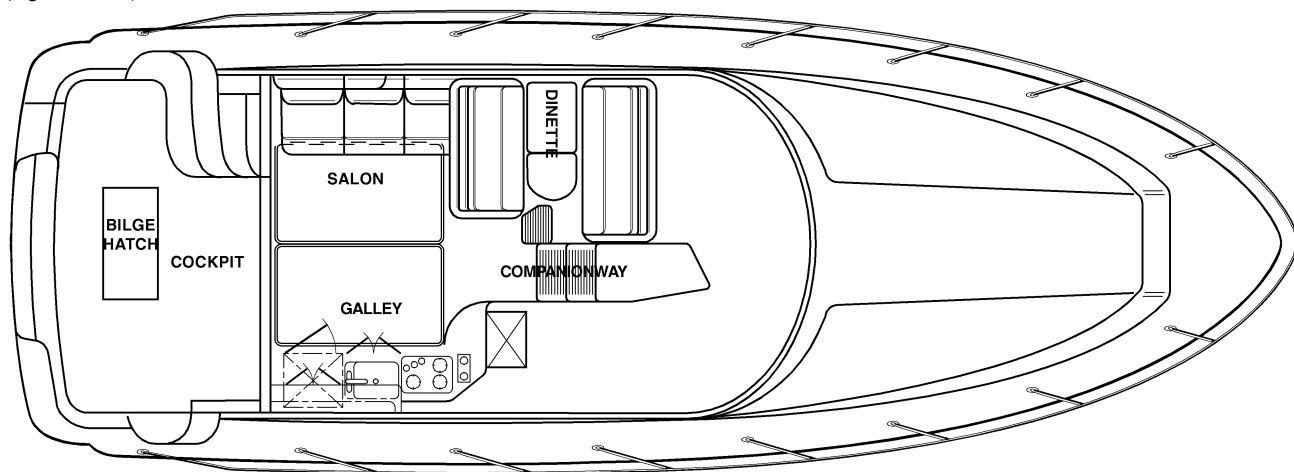
(fig. 12.3.2)

Standard Accommodation Plans

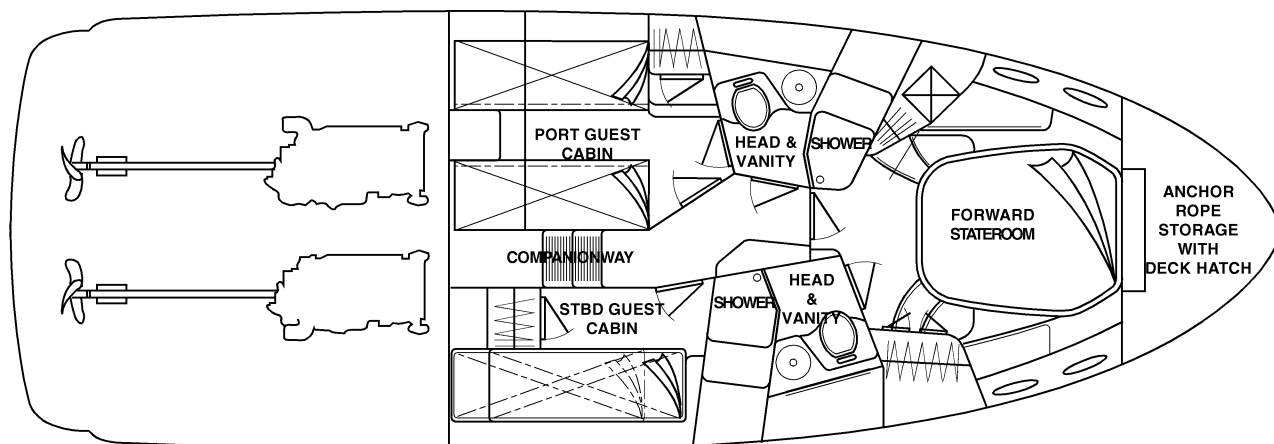
Upper Deck (Bridge Plan A)
(fig. 12.4.1)



Main Deck (Floor Plan A)
(fig. 12.4.2)



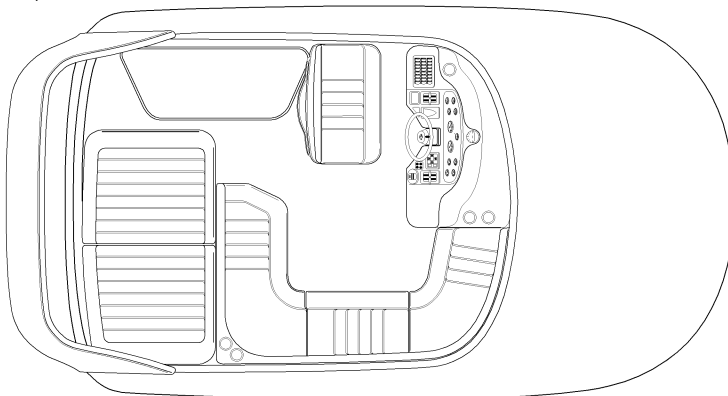
Lower Deck (Floor Plan A)
(fig. 12.4.3)



Optional Accommodation Plans

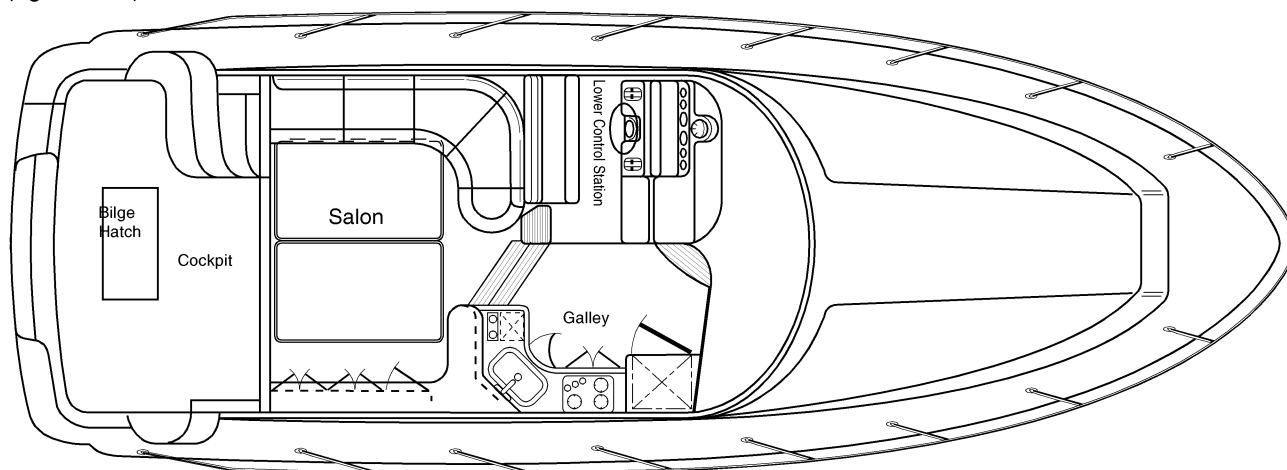
Upper deck (Bridge Plan B)

(fig. 12.5.1)



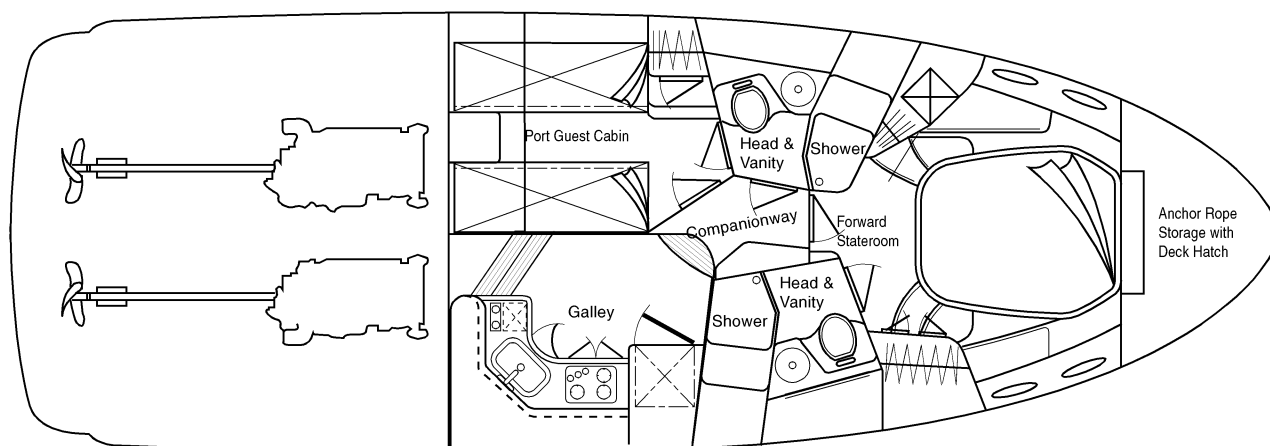
Main Deck (Floor Plan B)

(fig. 12.5.2)



Lower Deck (Floor Plan B)

(fig. 12.5.3)



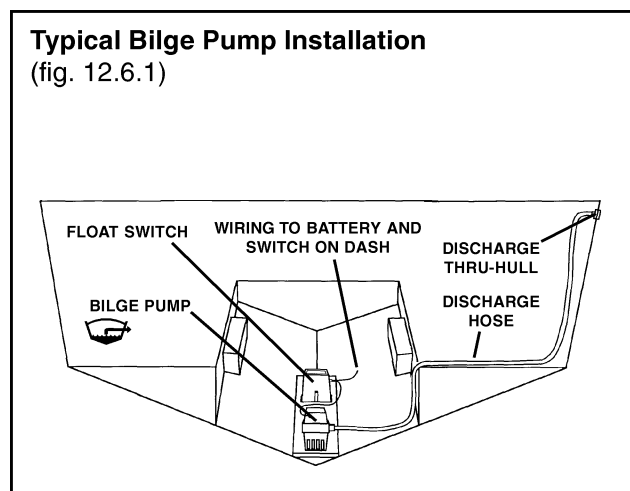
Supplemental General Information

BILGE PUMPING SYSTEM



The 400 DB is equipped with an automatic bilge pump system.

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



Typical Bilge Pump Installation
(fig. 12.6.1)

PROPULSION SYSTEM

The 400 DB is equipped with an inboard drive type propulsion system also known as an inboard engine.

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

FUEL SYSTEM

The 400 DB 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 the *Owner's Manual*.

EXHAUST SYSTEM

The 400 DB's exhaust system is an integral part of the propulsion system.

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

ENGINE COOLING SYSTEM

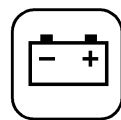
The engine cooling system is an integral part of the propulsion system.

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

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.

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.

Supplemental General Information

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.

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.

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 in the bilge. See fig. 12.7.1.

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.

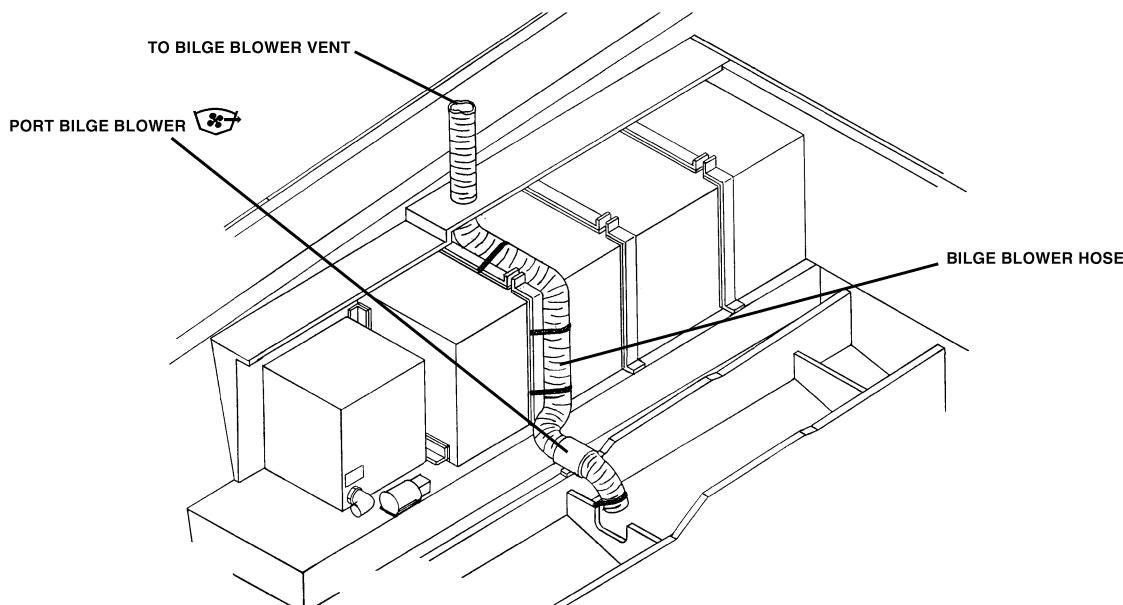
The Sea Ray® 400 Sedan Bridge blower switches have a two-way switching capability. The blower module allows the blowers to be turned ON and OFF at either the control station or the main distribution panel. Also, they can be turned ON at one station and turned OFF at the other.

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.

Typical Bilge Blower Installation (fig. 12.7.1)



Supplemental General Information

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.

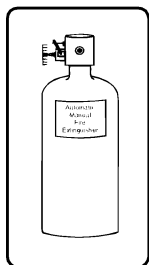
REFER TO "SECTION 2, BILGE & UNDERWATER GEAR" AND OWNER'S PACKET FOR OPERATING INSTRUCTIONS AND SAFETY PRECAUTIONS.

STEERING SYSTEM

The 400 DB is equipped with a hydraulic steering system.

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

FIRE EXTINGUISHING SYSTEM



This boat is equipped with the automatic fire extinguishing system. Refer to *Fire Extinguishers* in the index of the Sea Ray Owner's Manual to find detailed information.

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

WARNING

- In case of fire DO NOT open bilge hatch.
- Shut down engines, generator and blowers.

ANCHORING

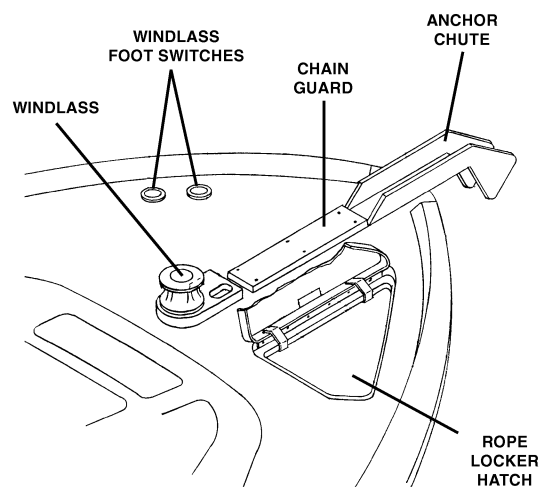


To anchor, bring the bow into the wind or current and put the engine in neutral. When the vessel comes to a stop, lower, do not throw, the anchor over the bow. The anchor line should be 5 to 7 times the depth of water.

ANCHORING ARRANGEMENT

The 400 DB 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.

Lofrans™ Progress I Windlass
(fig. 12.8.1)



Supplemental General Information

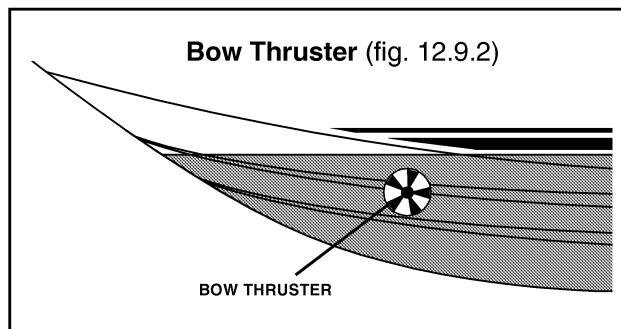
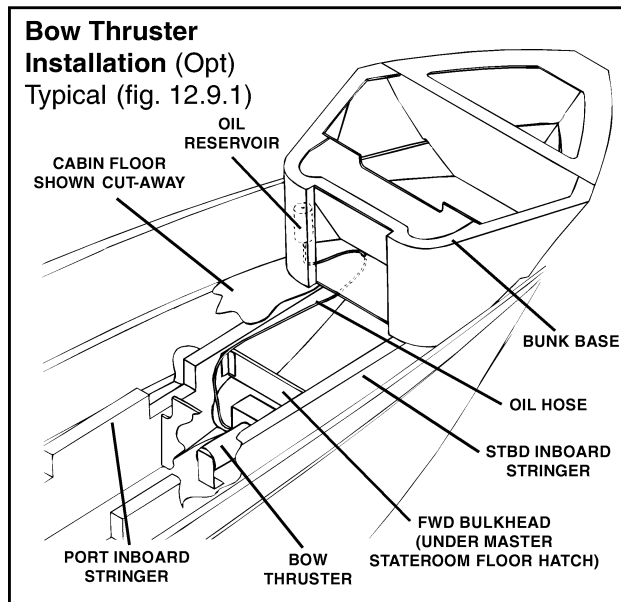
BOW THRUSTER

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 companionway floor and under the threshold in the master state room. Remove the forward or aft panel with a screwdriver to obtain access to the bow thruster.
- Batteries – Two (2) Group 27 12 volt batteries connected in series to provide 24 volts DC, located in front of the engines.
- Battery Switch – Located on the control station is a rocker with indicator light switch.
- Battery Switch Solenoid – Located on the port bilge component board. 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.
- Main Switch – Located in the helm. It controls the battery solenoid on the fwd bilge bulkhead.
- Converter – 24 volt/12 amp, located forward engine room bulkhead.
- Fuse Protection – Two (2) 175 amp in-line fuses located on the Bow Thruster unit and one (1) mounted on the forward engine room bulkhead.

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



Supplemental General Information

LIFE SAVING EQUIPMENT (Personal Floatation Device (PFD))

STORAGE: The 400 DB offers lifesaving equipment storage in the transom wall, companion helm seat and cockpit.

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.

TROUBLE SHOOTING

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.

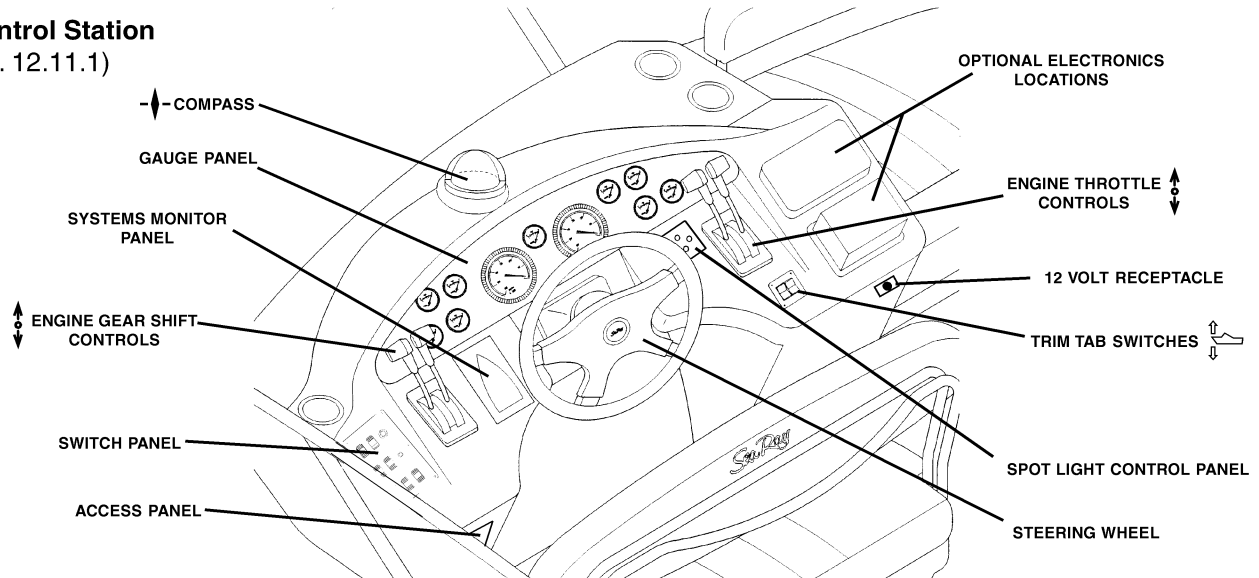
Repair and Parts Facilities

To find a Sea Ray® dealer in your area, call: Sea Ray® Customer Service: 1-800-SRBOATS
FAX: 1-314-827-8488

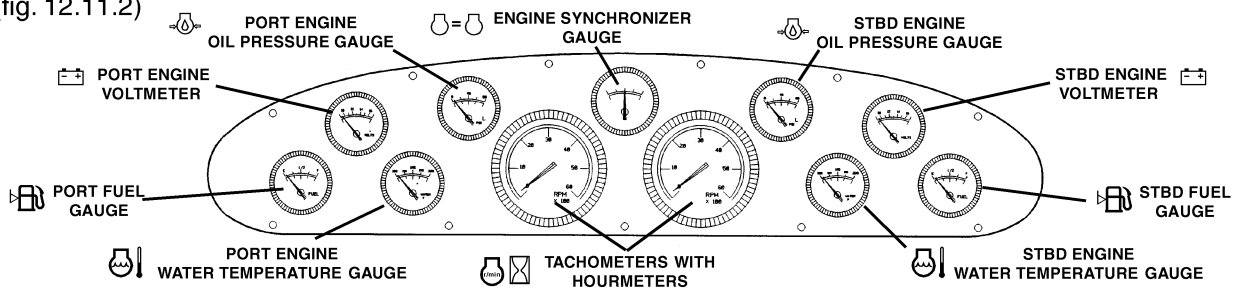
To find repair and parts facilities for equipment installed on your boat, refer to the original equipment manuals (OEMs) found in the owner's manual packet.

Bridge Control Station Layout

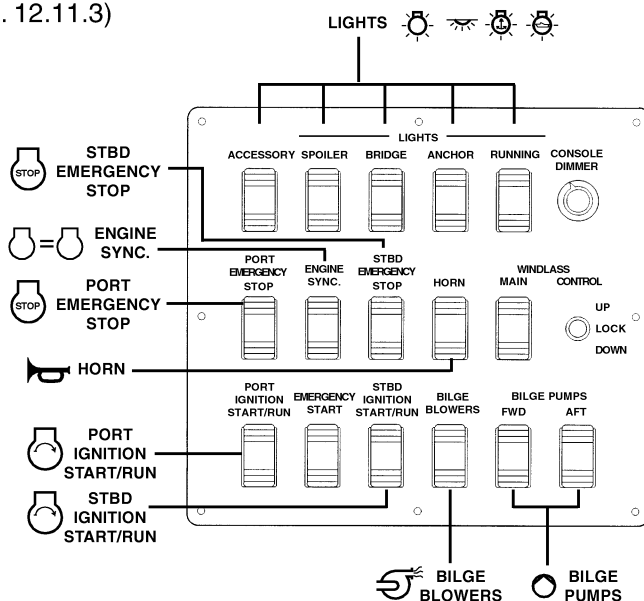
Control Station
(fig. 12.11.1)



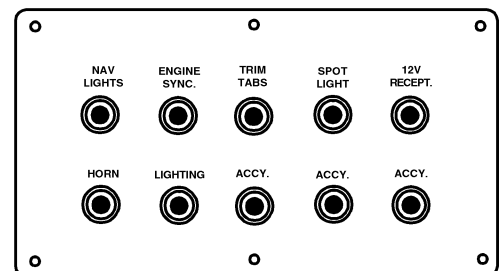
Gauge Panel
(fig. 12.11.2)



Switch Panel
(fig. 12.11.3)



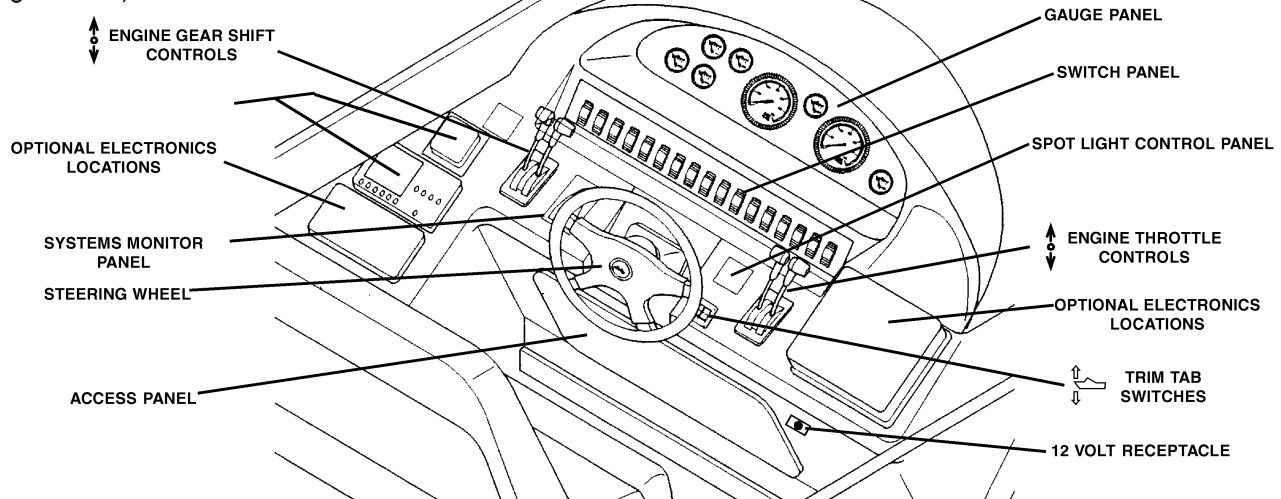
BREAKER PANEL
(Behind Access Panel)
(fig. 12.11.4)



Lower Control Station Layout

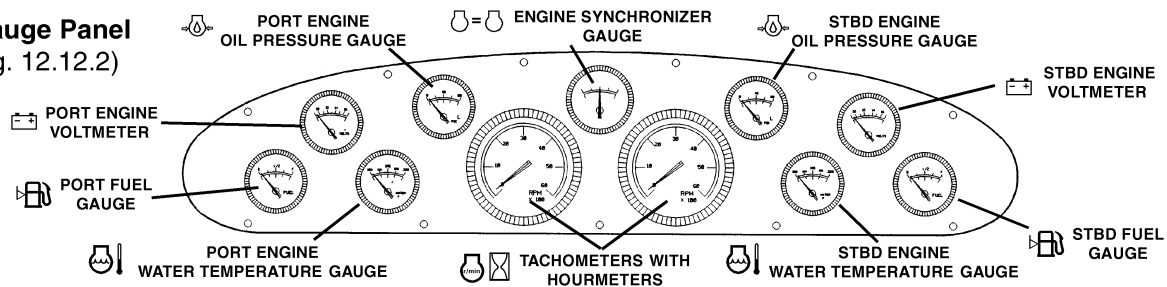
Lower Control Station

(fig.12.12.1)



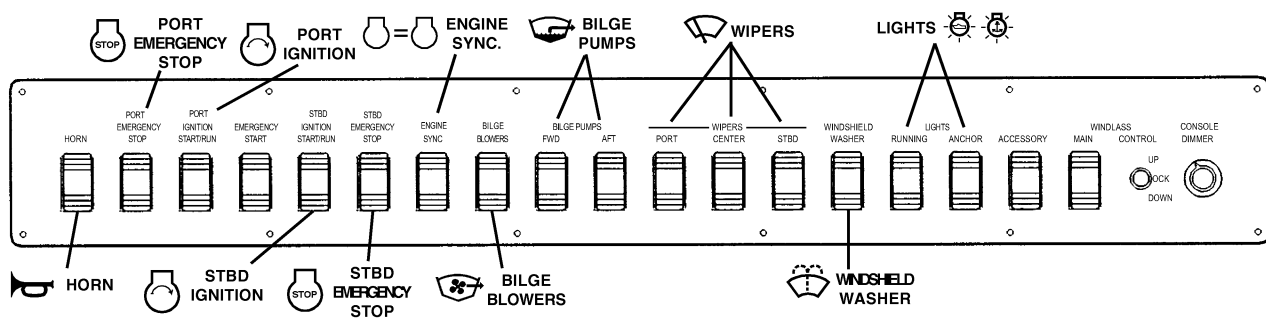
Gauge Panel

(fig. 12.12.2)



Switch Panel

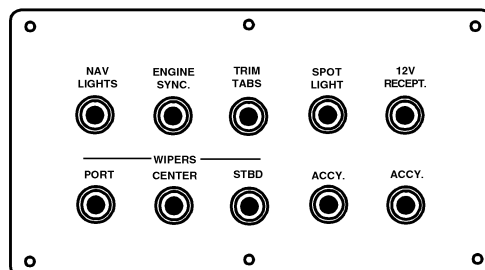
(fig. 12.12.3)



Breaker Panel

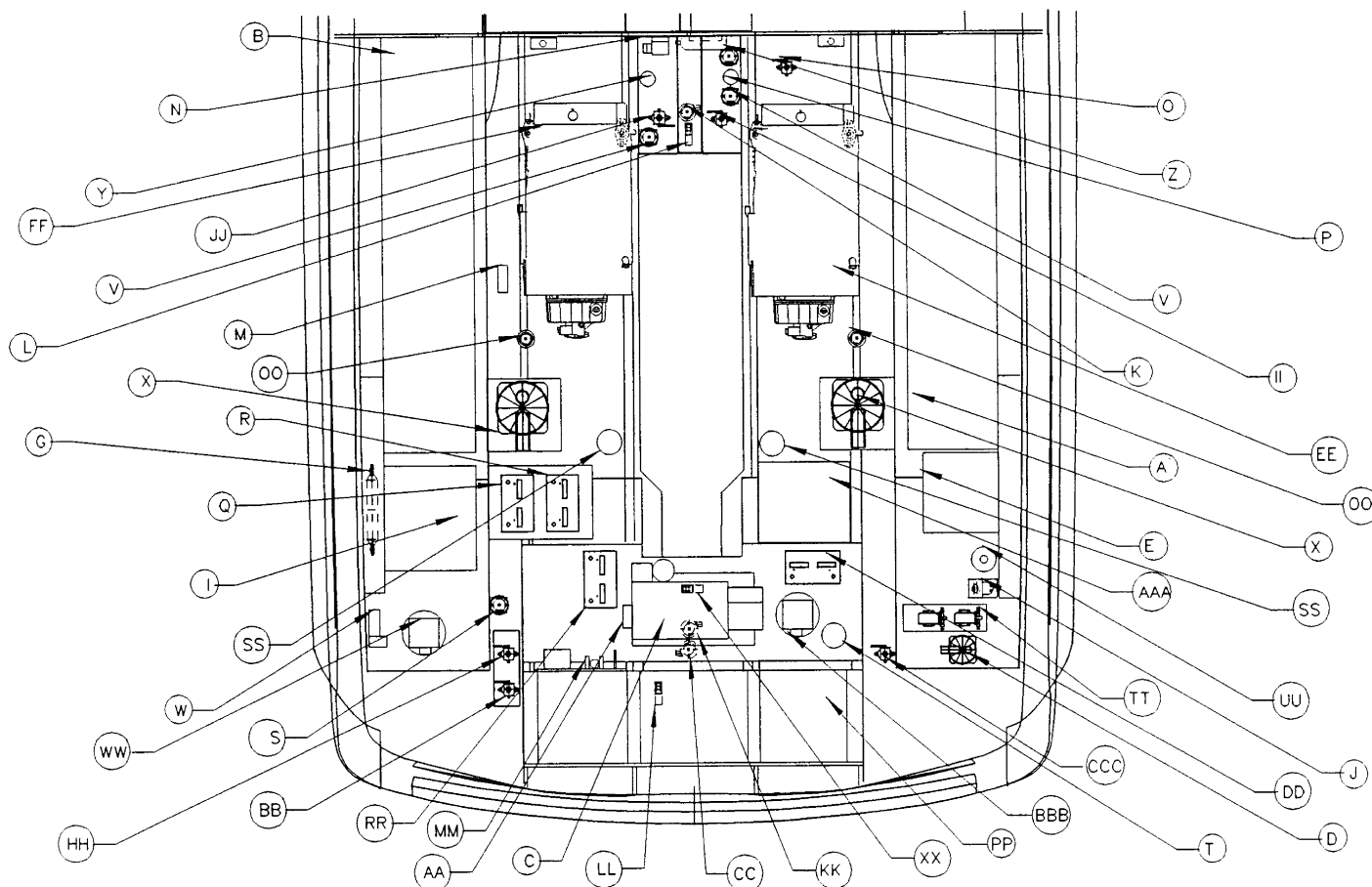
(Behind Access Panel)

(fig. 12.12.4)



Bilge Layout

Bilge Layout



BILGE COMPONENTS:

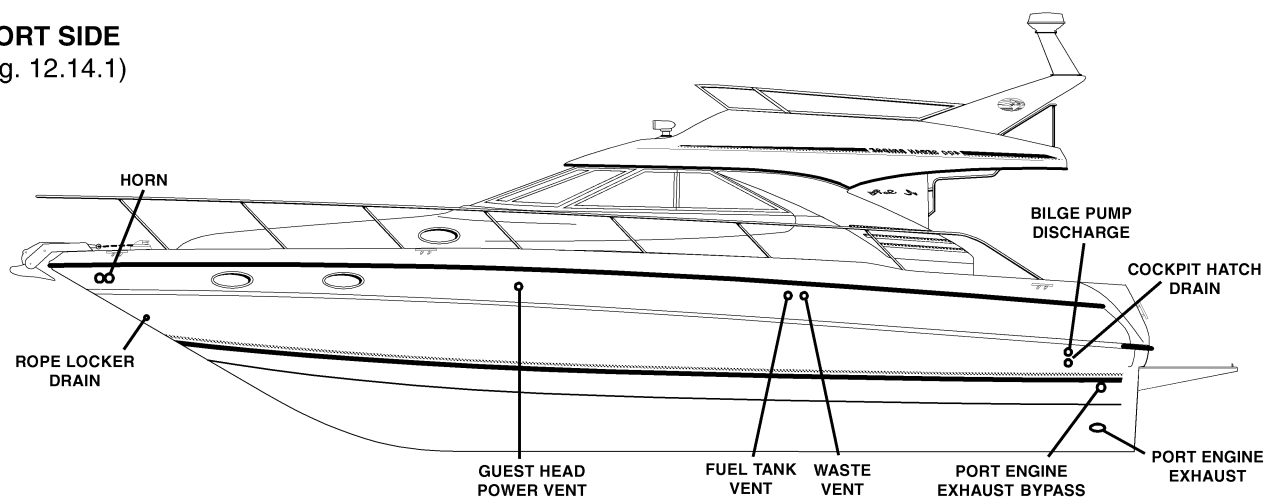
- A. STBD FUEL TANK
- B. PORT FUEL TANK
- C. GENERATOR
- D. GENERATOR MUFFLER
- E. WATER HEATER
- F. GUEST HEAD VACUUM BOTTLE
(NOT SHOWN)
- G. HOLDING TANK FILTER
- H. CABIN BILGE PUMP
(NOT SHOWN)
- I. HOLDING TANK
- J. TRIM TAB PUMP
- K. FWD BILGE PUMP
- L. FWD FLOAT SWITCH
- M. GROUND BAR
- N. ENGINE BULKHEAD
COMPONENTS
- O. A/C SEACOCK
- P. TRANSDUCER
- Q. STBD BATTERY
- R. STBD ENGINE BATTERY

- S. GENERATOR STRAINER
- T. GENERATOR FUEL FILTER
- U. OIL EXCHANGER PUMP & VALVES (OPT.)
(NOT SHOWN) (INSTALLS AT BBB
LOCATION)
- V. ENGINE STRAINERS
- W. AUTO PILOT PUMP (OPT.)
- X. MUFFLERS
- Y. SUM LOG (OPT.)
- Z. A/C STRAINER
- AA. GENERATOR RECOVERY BOTTLE
- BB. DISCHARGE SEACOCK (OPT.)
- CC. HIGH WATER BILGE PUMP
- DD. GENERATOR BATTERY
- EE. STBD ENGINE
- FF. PORT ENGINE
- GG. FWD STATEROOM HEAD VACUUM
BOTTLE (NOT SHOWN)
- HH. GENERATOR SEACOCK
 - II. PORT ENGINE SEACOCK
- JJ. STBD ENGINE SEACOCK
- KK. AFT BILGE PUMP

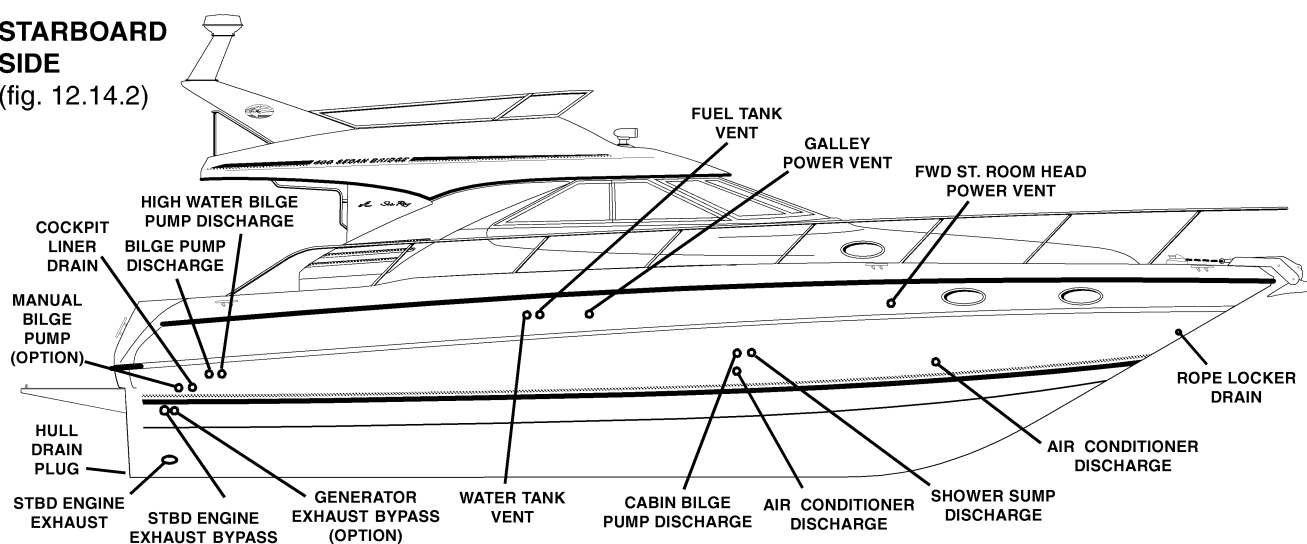
- LL. HIGH WATER FLOAT SWITCH
MM. BILGE COMPONENT BOARD
NN. AUTO PILOT COMPASS (OPT.)
(NOT SHOWN)
OO. BILGE BLOWER
PP. WATER TANK
QQ. DIESEL BATTERY (OPT.)
(NOT SHOWN)
RR. PORT BATTERY (OPT.)
SS. ENGINE FUEL FILTER
TT. WATER PUMPS
UU. ACCUMULATOR BOTTLE
VV. CABIN FLOAT SWITCH
(NOT SHOWN)
WW. DISCHARGE PUMP (OPT.)
XX. AFT FLOAT SWITCH
YY. FWD STATEROOM HEAD
VACUUM
PUMP (NOT SHOWN)
ZZ. GUEST HEAD VACUUM PUMP
(NOT SHOWN)
AAA. GREY WATER TANK (OPT.)
BBB. GREY WATER DISCHARGE
PUMP (OPT.)
CCC. GREY WATER SEACOCK
(OPT.)

Location of Through-Hull Fittings

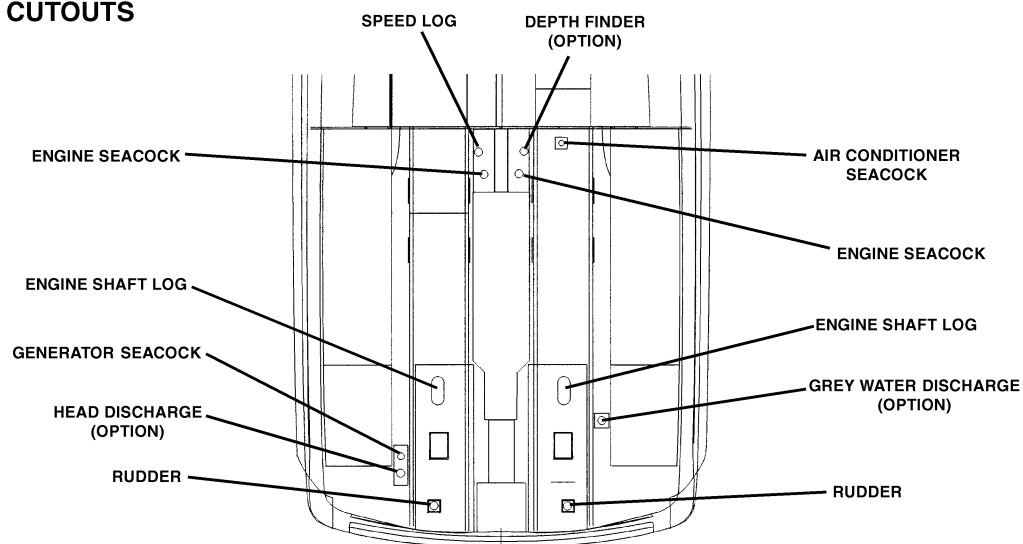
PORT SIDE
(fig. 12.14.1)



STARBOARD SIDE
(fig. 12.14.2)



BILGE HULL CUTOUTS
(fig. 12.14.3)



Special Features

GENERATOR STARTING ADDENDUM

The generator is equipped with a module that simplifies the starting procedure. There are two generator modules, one for Westerbeke generators and one for Kohler generators.



CAUTION

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

Westerbeke® Generator

Starting The Generator:

1. 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.

At the end of the 30 second period the light begins to flash rapidly indicating that the generator must be started in the next few seconds or the cycle must be repeated.

2. When the light on the switch begins to flash the generator is ready to start. Push and hold the "GENERATOR" switch until the unit starts then release the switch.

3. Once the generator is started the light will stay on continuously.

Stopping The Generator:

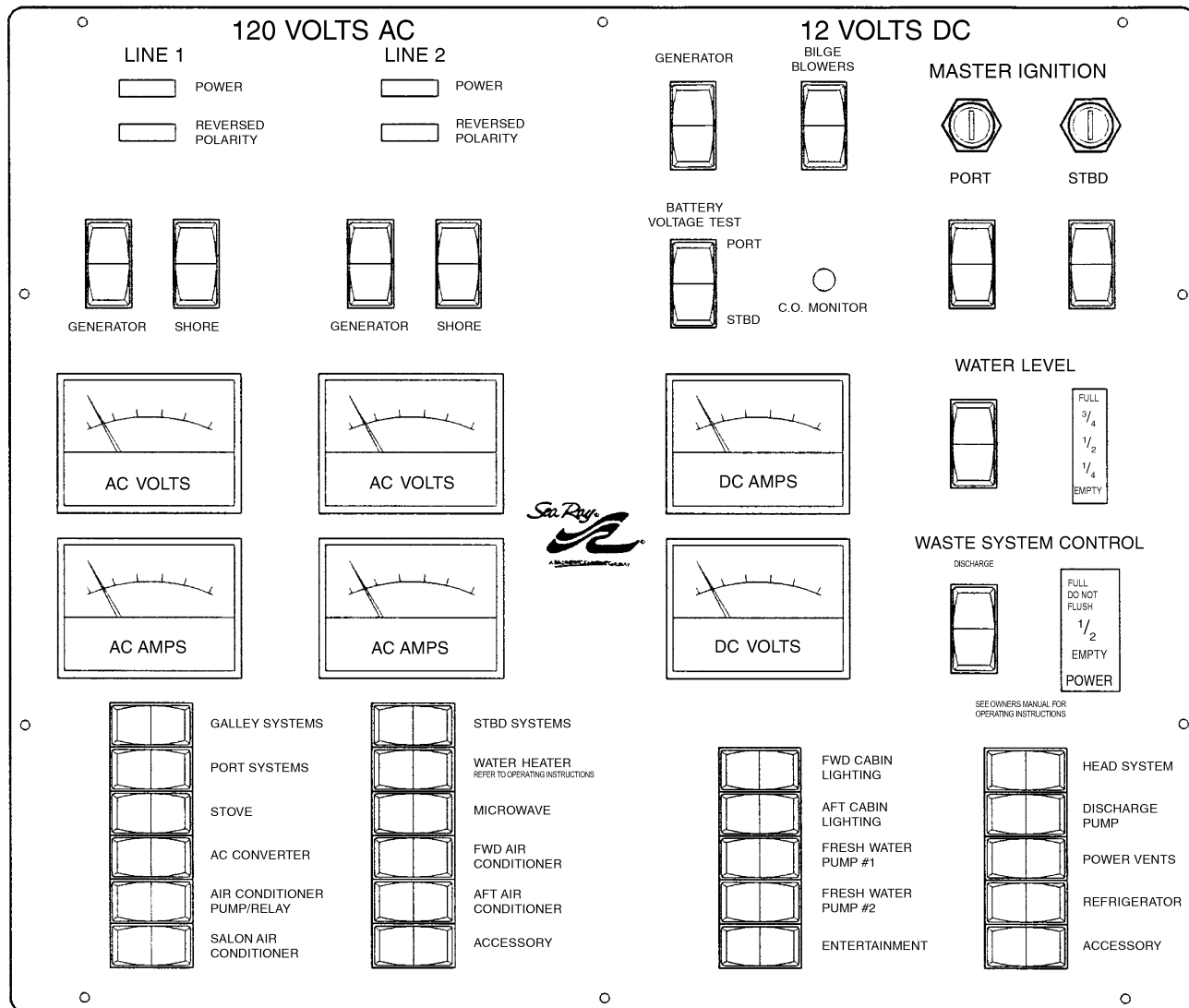
1. Press the "GENERATOR" switch until the unit stops.

After stopping the generator, the module will need a few seconds to reset before restarting is possible.

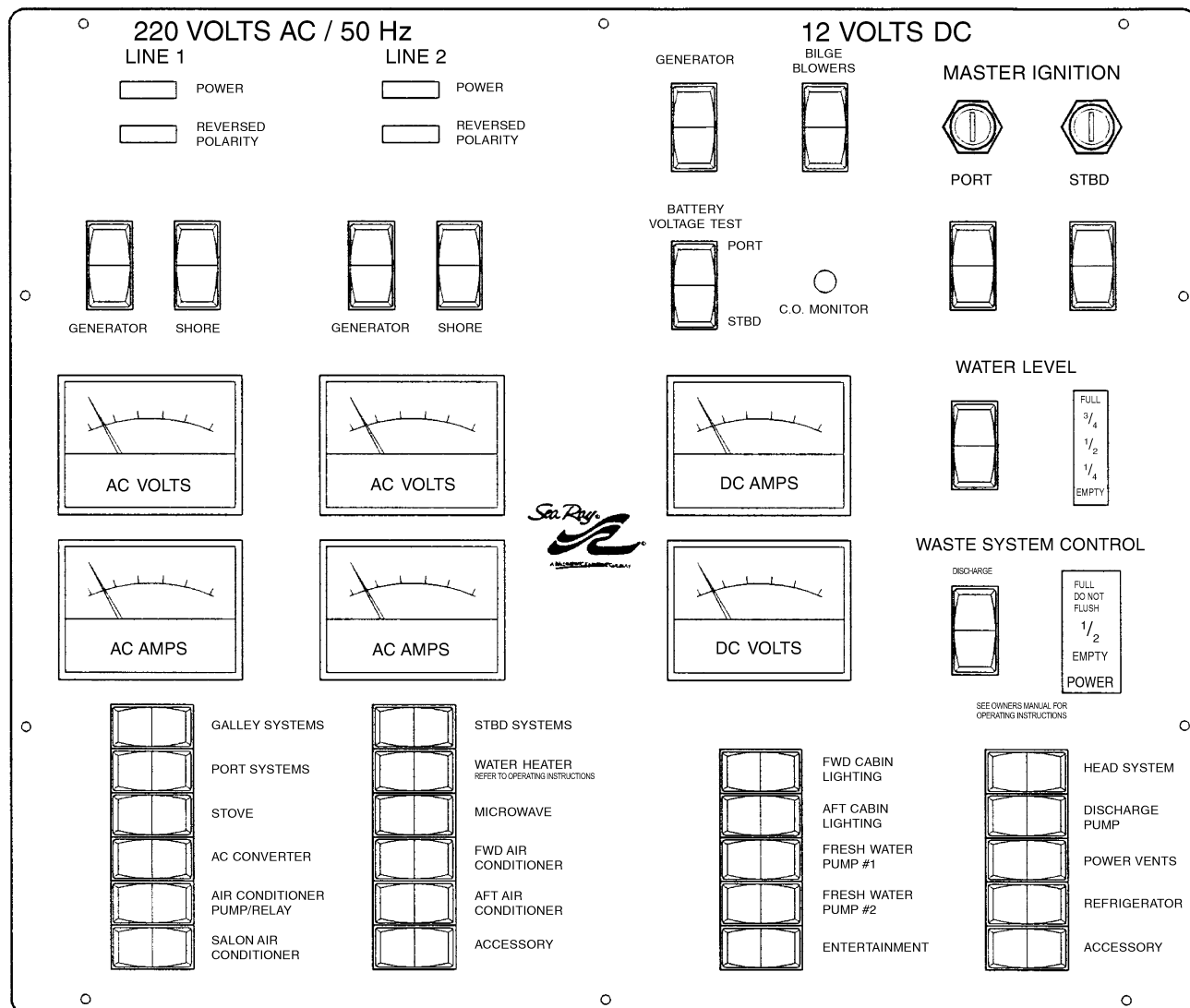
Bypass Switch

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 main distribution panel.

Standard AC Main Distribution Panel (120V) & DC Distribution Panel

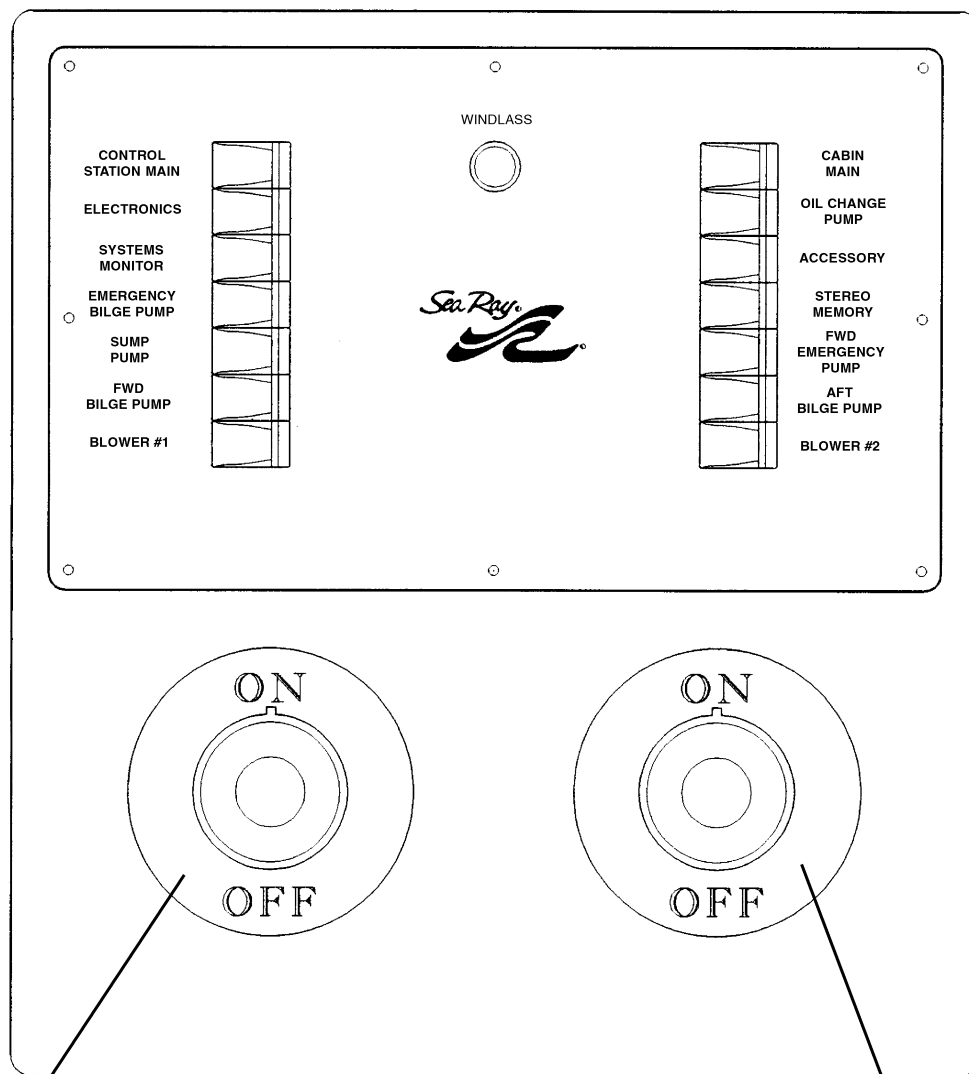


Optional AC Main Distribution Panel (220V) & DC Distribution Panel



Main DC Breaker Panel

Main DC Breaker Panel
Located Behind Port Cockpit Service Door



Port Battery Switch

Starboard Battery Switch

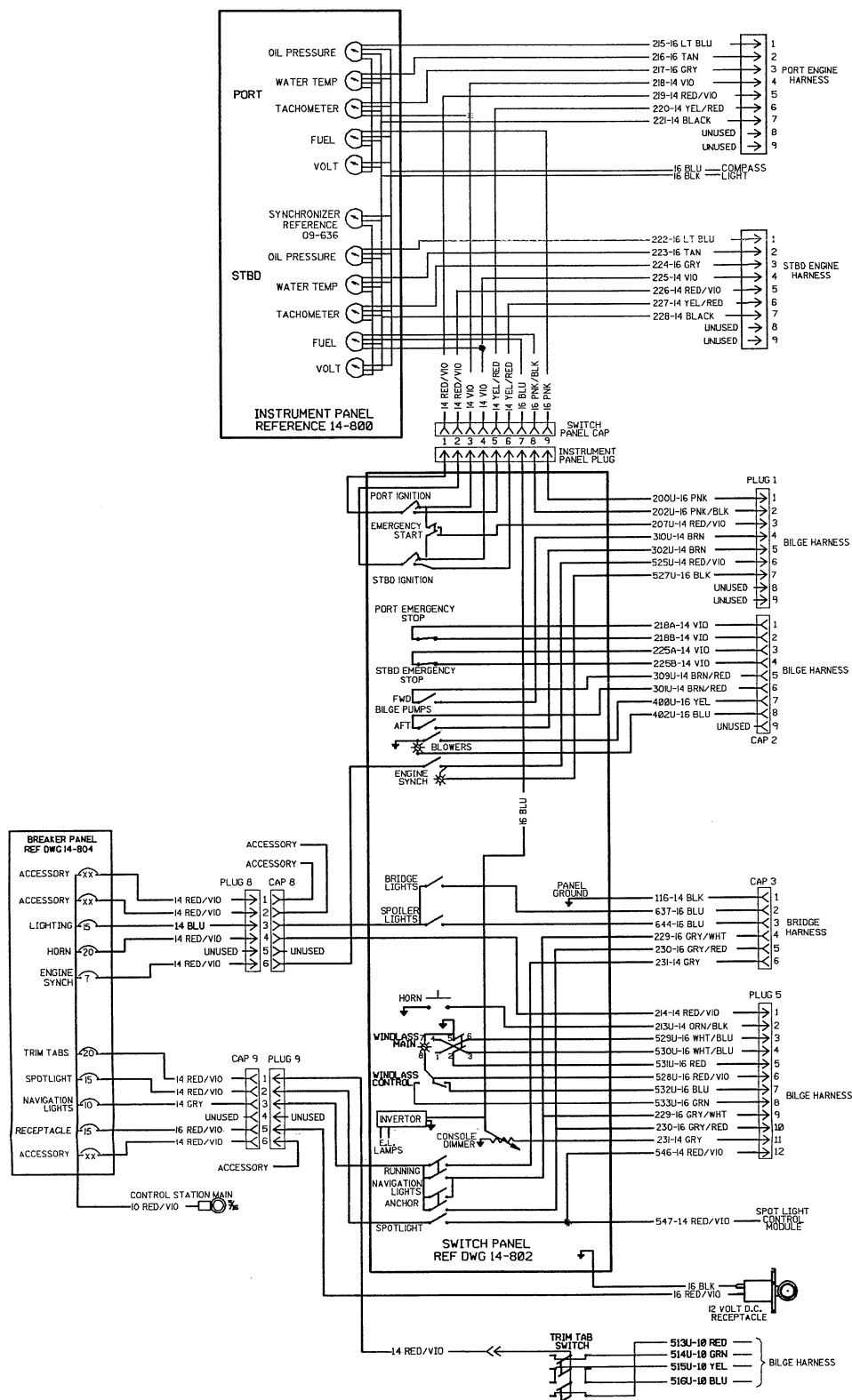
Key To Electrical Symbols On Prints

LIGHT BATTERY SPOTLIGHT STARTER COIL HORN WATER TEMP. SENDER	GAUGE FLOAT SWITCH CIRCUIT BREAKER 2 CIRCUIT IGNITION SWITCH VARIABLE RESISTOR SPST SWITCH SPDT SWITCH	POWER TRIM & TRIM TAB PUMP FUSE MALE PUSH ON CONNECTOR FEMALE PUSH ON CONNECTOR MALE PLUG FEMALE CAP SPEED PICK UP SPEED PICK UP ELECTRONIC	WIRES CROSSING NO SPLICE WIRES CROSSING SPLICED GROUND ANTENNA RADIO DEPTH/SUM LOG 12V RECEPTACLE	SHIFT / THROTTLE CONTROLS TRIM ANGLE SENDER LIQUID LEVEL SENDER TEMP. ALARM ALARM HORN RECTIFIER	PUMP SPEAKER OIL PRESSURE SENDER BLOWER TRIM TAB SWITCH VHF RADIO SOLENOID PUSH BUTTON SWITCH	HALON 3 POSITION BATTERY SWITCH HOUR METER 2 CIRCUIT 5 POLE PROGRESSIVE SWITCH ALTERNATOR BATTERY ISOLATOR
RED -RED BLK -BLACK BLU -BLUE LT BLU -LIGHT BLUE BRN -BROWN GRY -GRAY TAN -TAN PNK -PINK ORN -ORANGE VIO -VIOLET WHT -WHITE YEL -YELLOW GRN -GREEN RED/VIO -RED W/ VIOLET TRACER RED/BLK -RED W/BLACK TRACER WHT/RED-WHITE W/RED TRACER		BRN/ORN -BROWN W/ORANGE TRACER BLU/WHT -BLUE W/ WHITE TRACER TAN/BLU -TAN W/BLUE TRACER BRN/WHT -BROWN W/ WHITE TRACER BRN/RED -BROWN W/ RED TRACER ORN/GRN -ORANGE W/ GREEN TRACER VIO/WHT -VIOLET W/ WHITE TRACER GRN/WHT -GREEN W/ WHITE TRACER GRY/WHT -GRAY W/ WHITE TRACER GRY/BLU -GRAY W/ BLUE TRACER YEL/RED -YELLOW W/ RED TRACER GRY/RED -GRAY W/RED TRACER BRN/YEL -BROWN W/YELLOW TRACER ORN/RED -ORANGE W/RED TRACER ORN/BLK -ORANGE W/BLACK TRACER P-U -PICK UP TUBE		NOTE 4 INSULATED BUTT SPLICE INSULATED RING CONNECTOR = 10 RING FULLY INSULATED FEMALE QUICK CONNECT FULLY INSULATED MALE QUICK CONNECT INSULATED FEMALE QUICK CONNECT PIGGYBACK		AMP 75 CONNECTOR INSULATED DOUBLE FEMALE SNAP PLUG INSULATED FEMALE SNAP PLUG INSULATED MALE SNAP PLUG

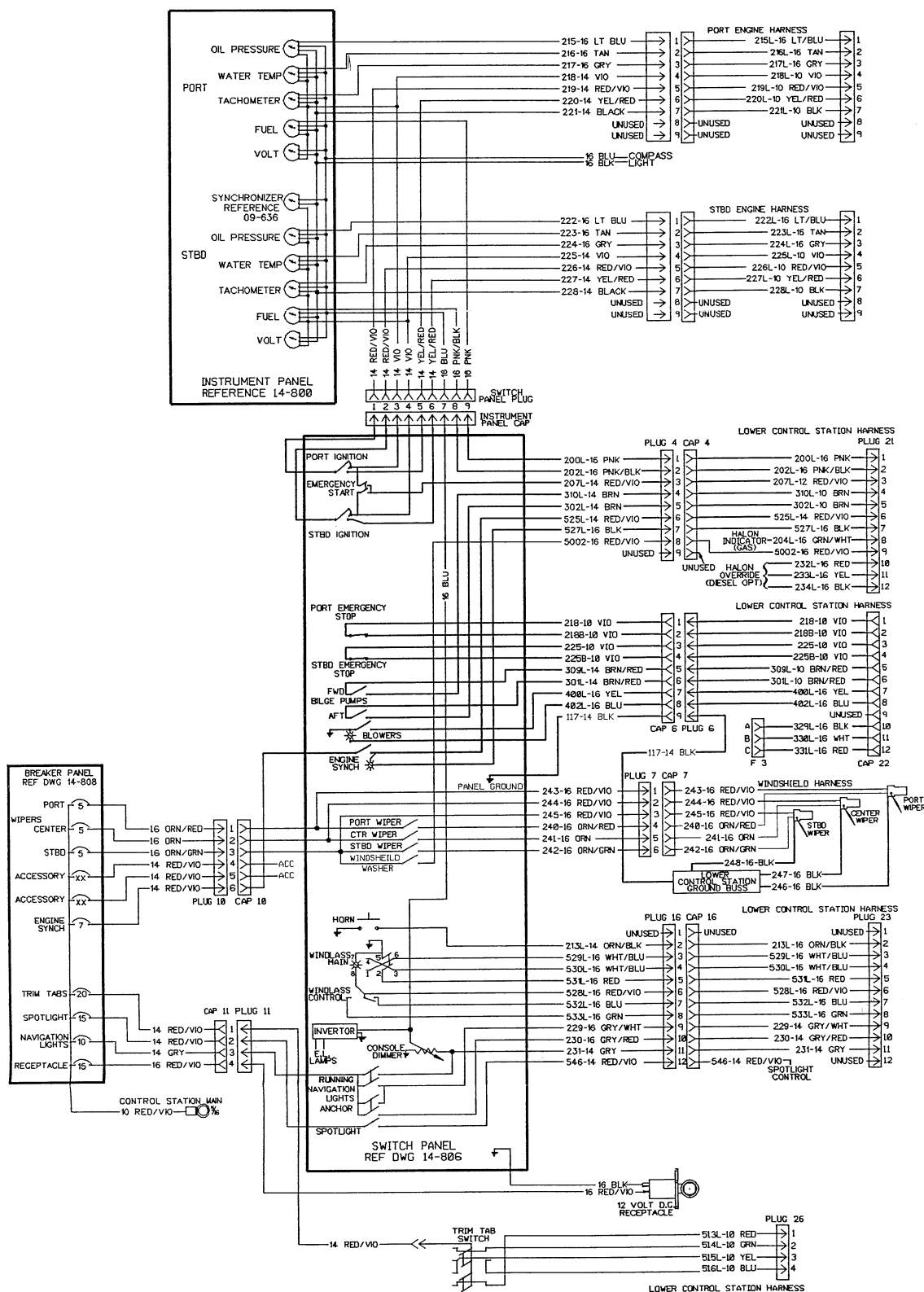
NOTES:

- 1) ALL WIRE IS AMERICAN WIRE GAUGE (AWG) STANDARDS
- 2) THE CONNECTOR SIZE IS DETERMINED BY THE GAUGE OF THE WIRE THE CONNECTOR IS USED ON.
- 3) QUICK CONNECT TERMINALS TO BE .250 UNLESS OTHERWISE INDICATED. TAB THICKNESS IS .032"
- 4) TERMINALS ARE TO BE TIN PLATED COPPER WITH NYLON INSULATION AMP, ETC OR EQUIVALENT.

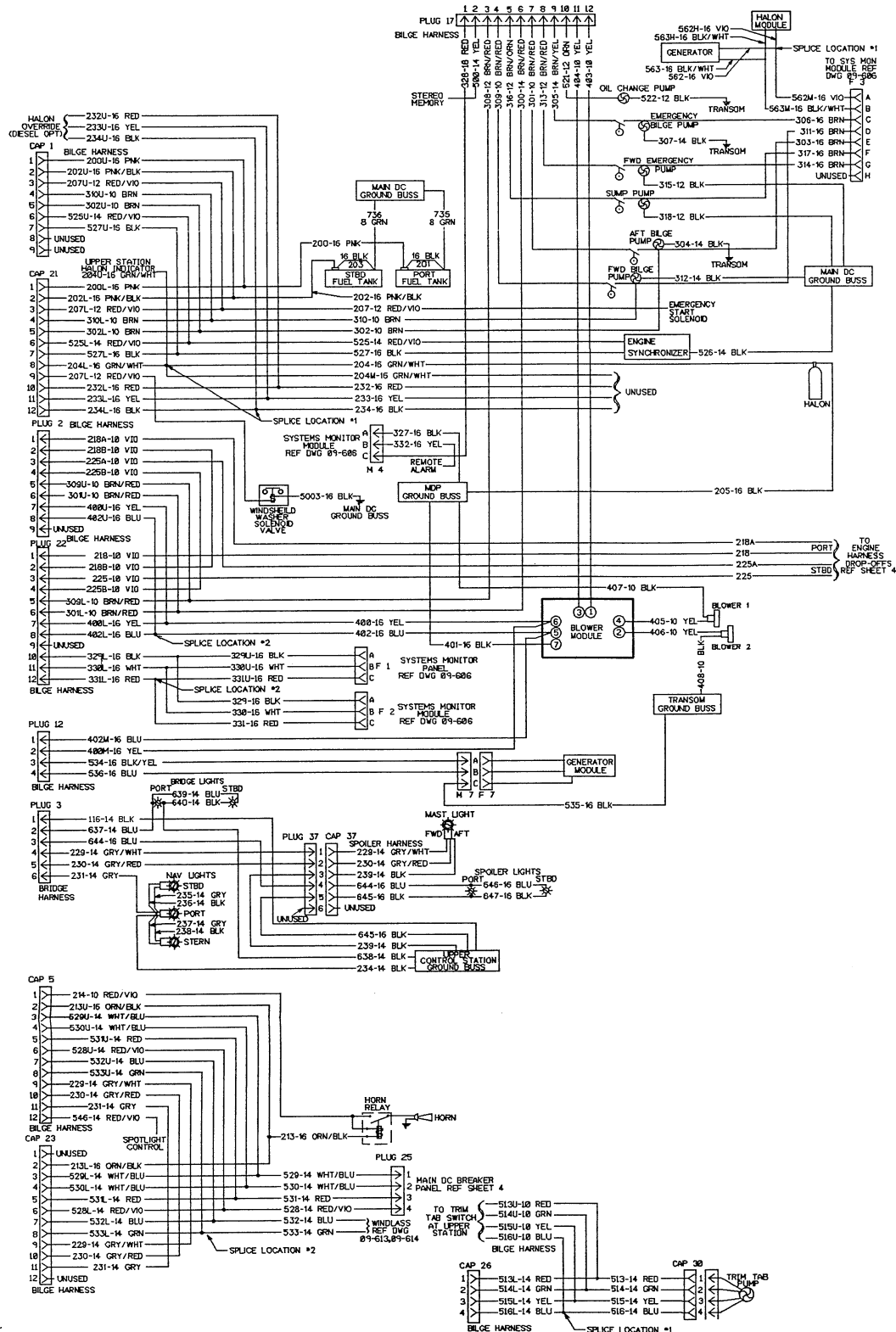
DC Wiring Schematic (1 of 4)



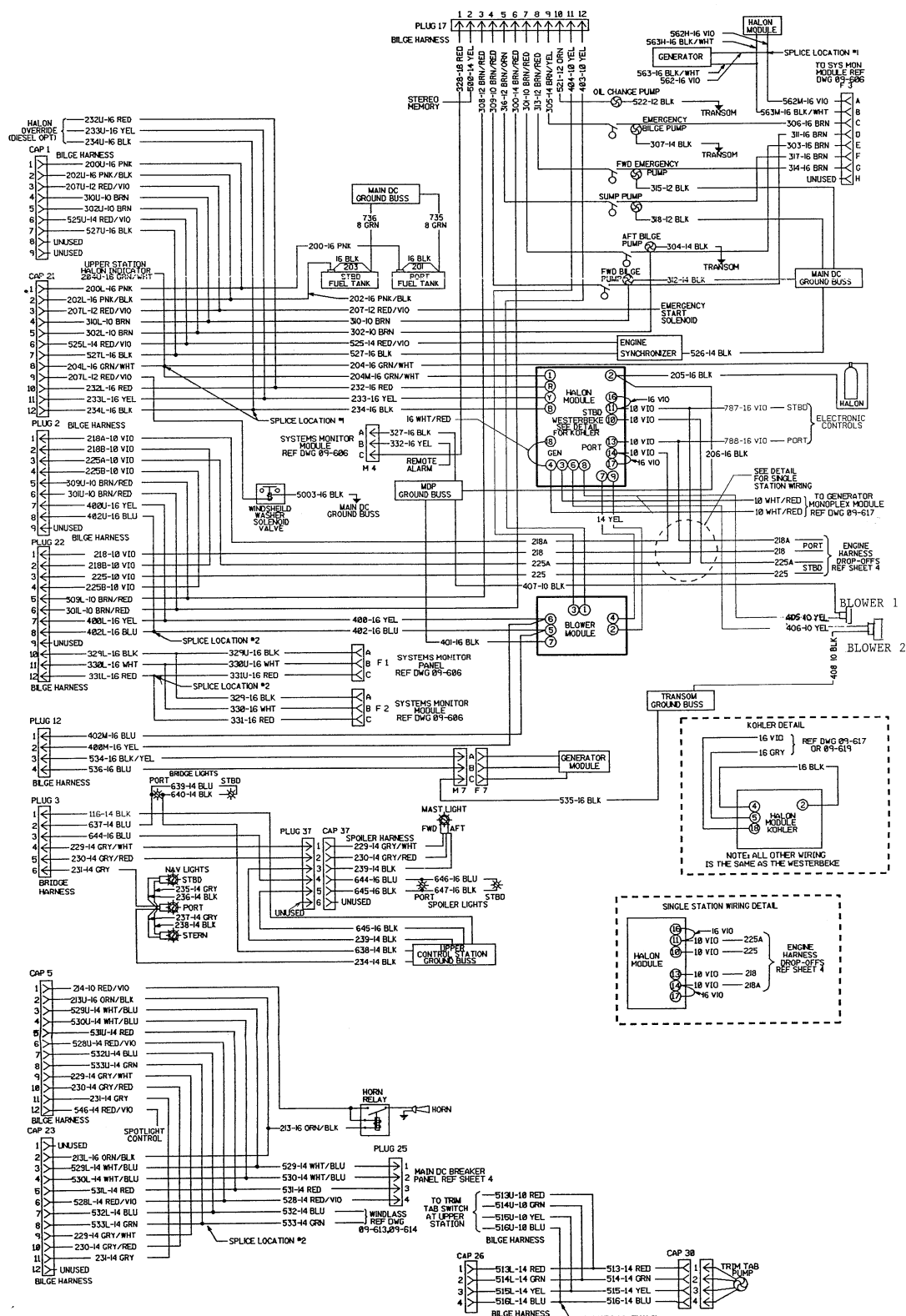
DC Wiring Schematic (2 of 4)



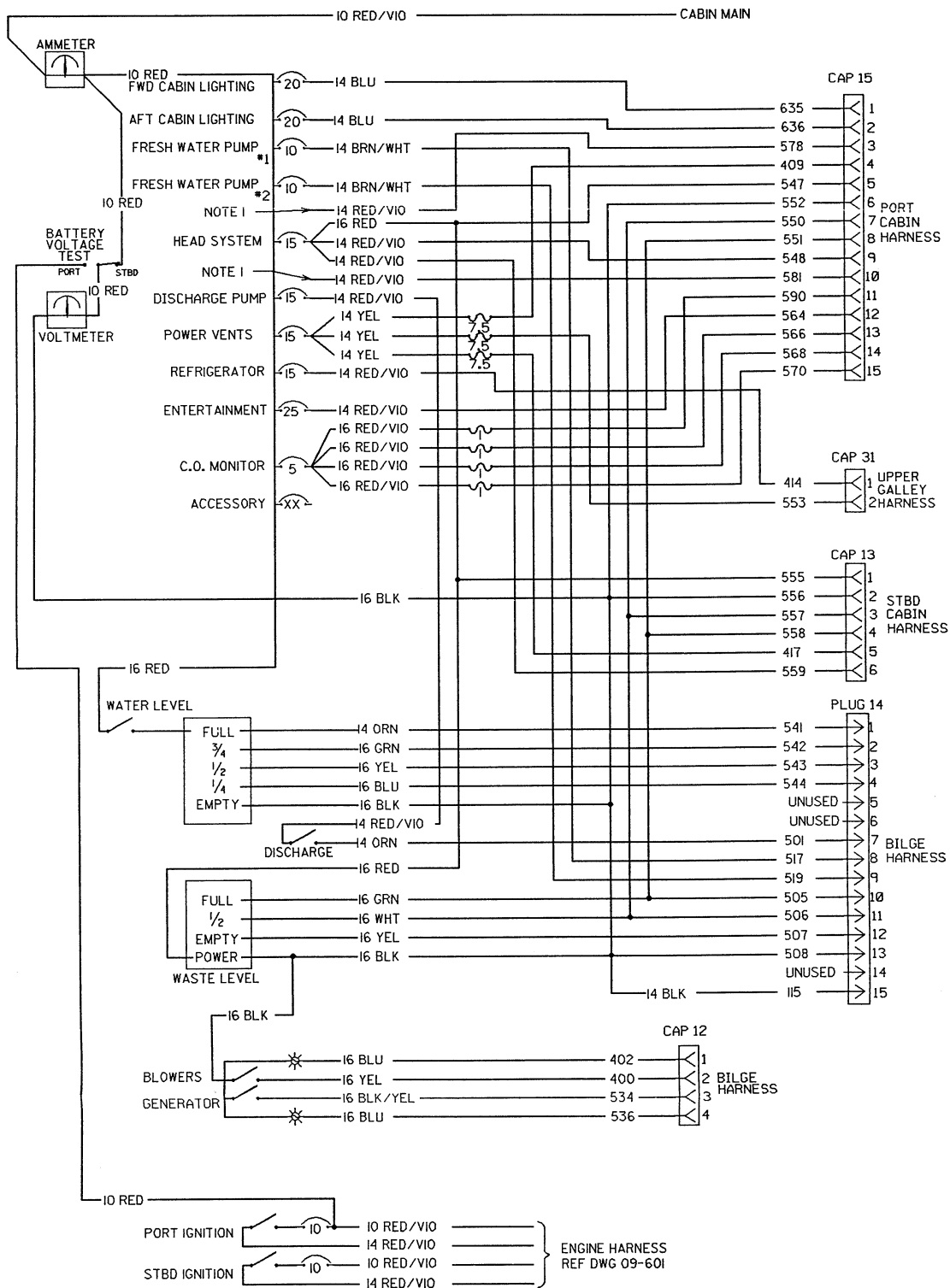
DC Wiring Schematic (3 of 4)



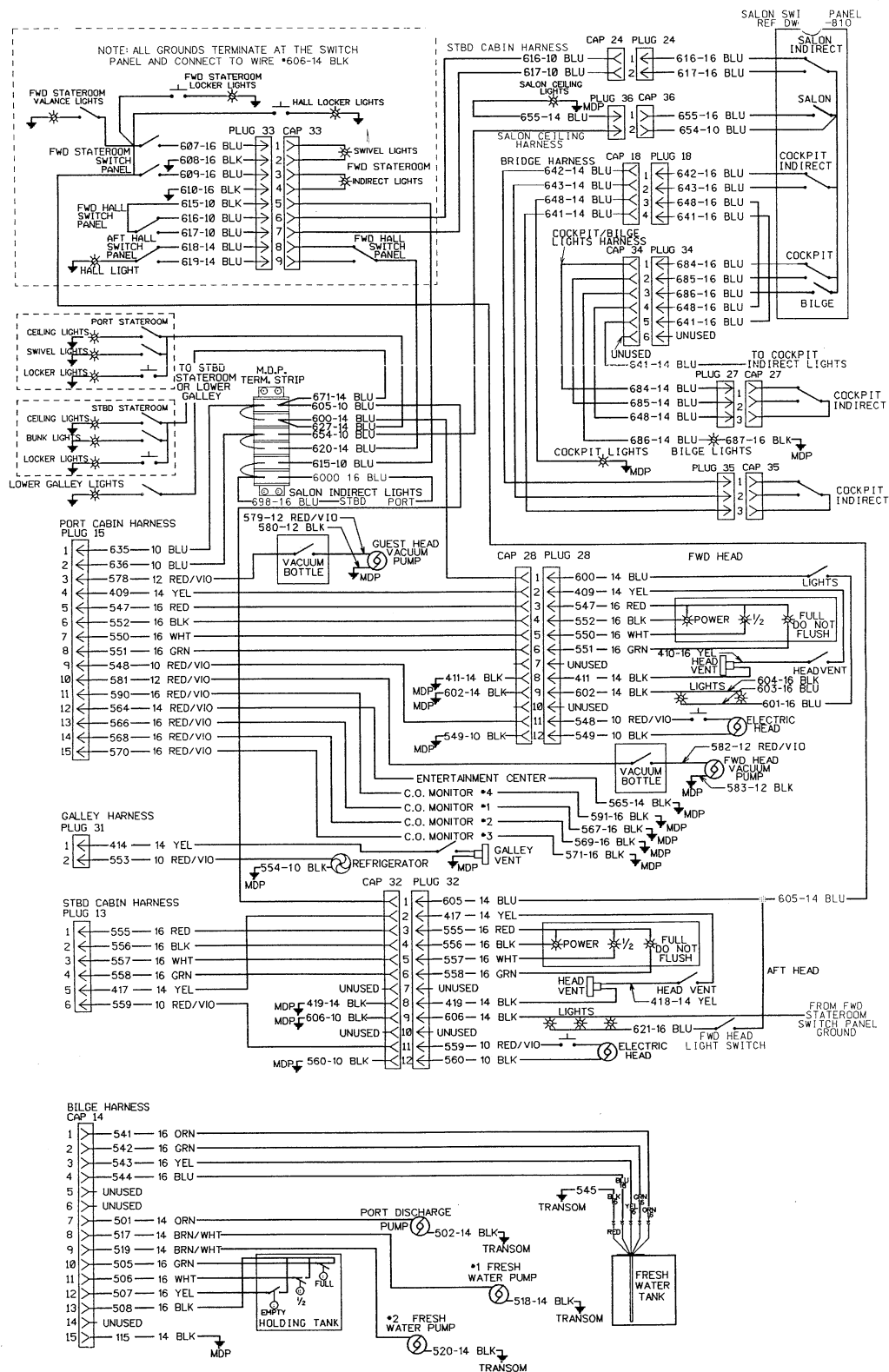
DC Wiring Schematic / Diesel (1 of 2)



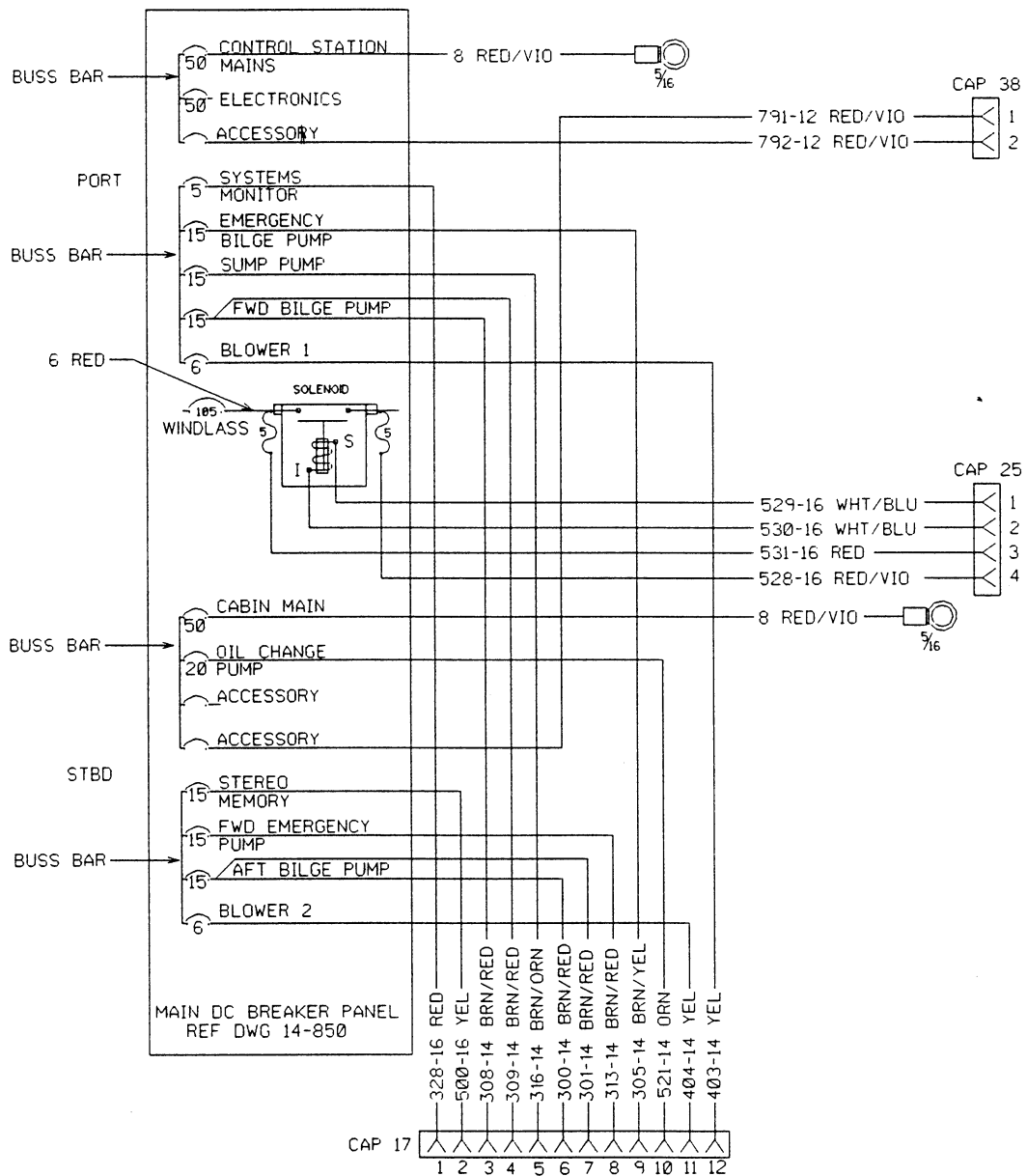
Cabin DC Wiring Schematic (1 of 2)



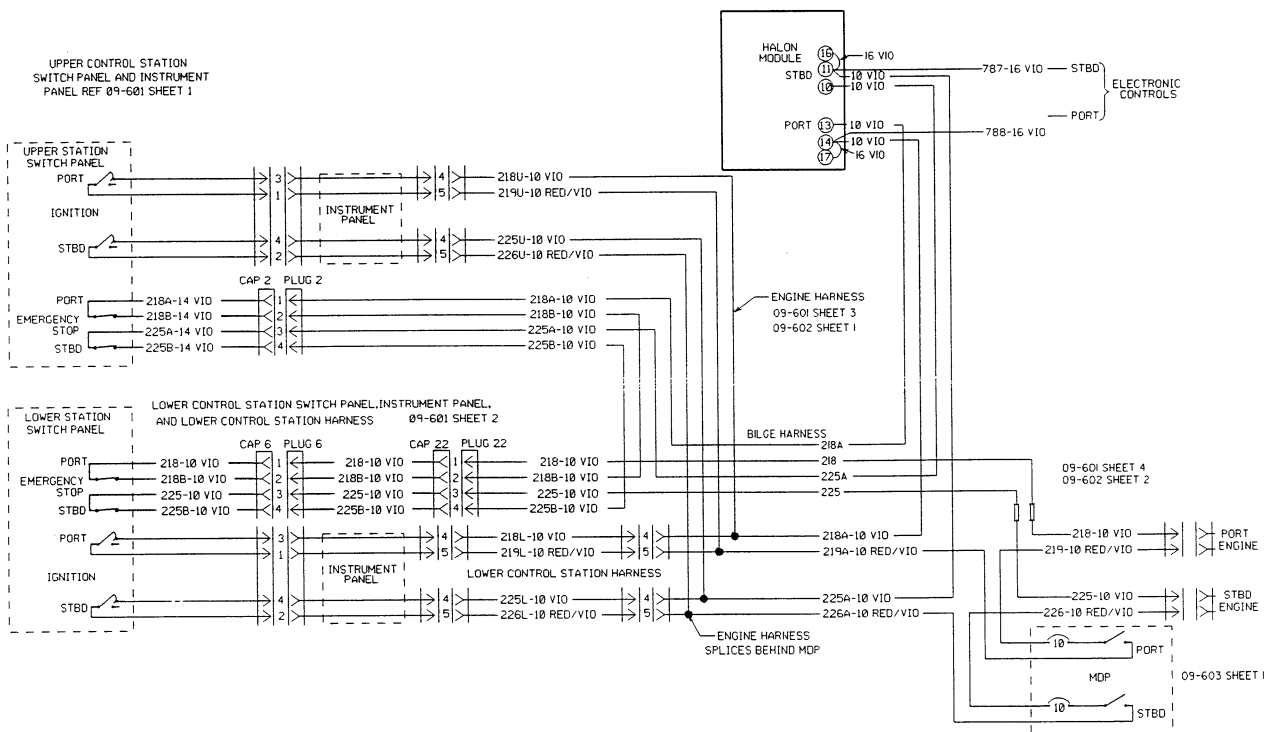
Cabin DC Wiring Schematic (2 of 2)



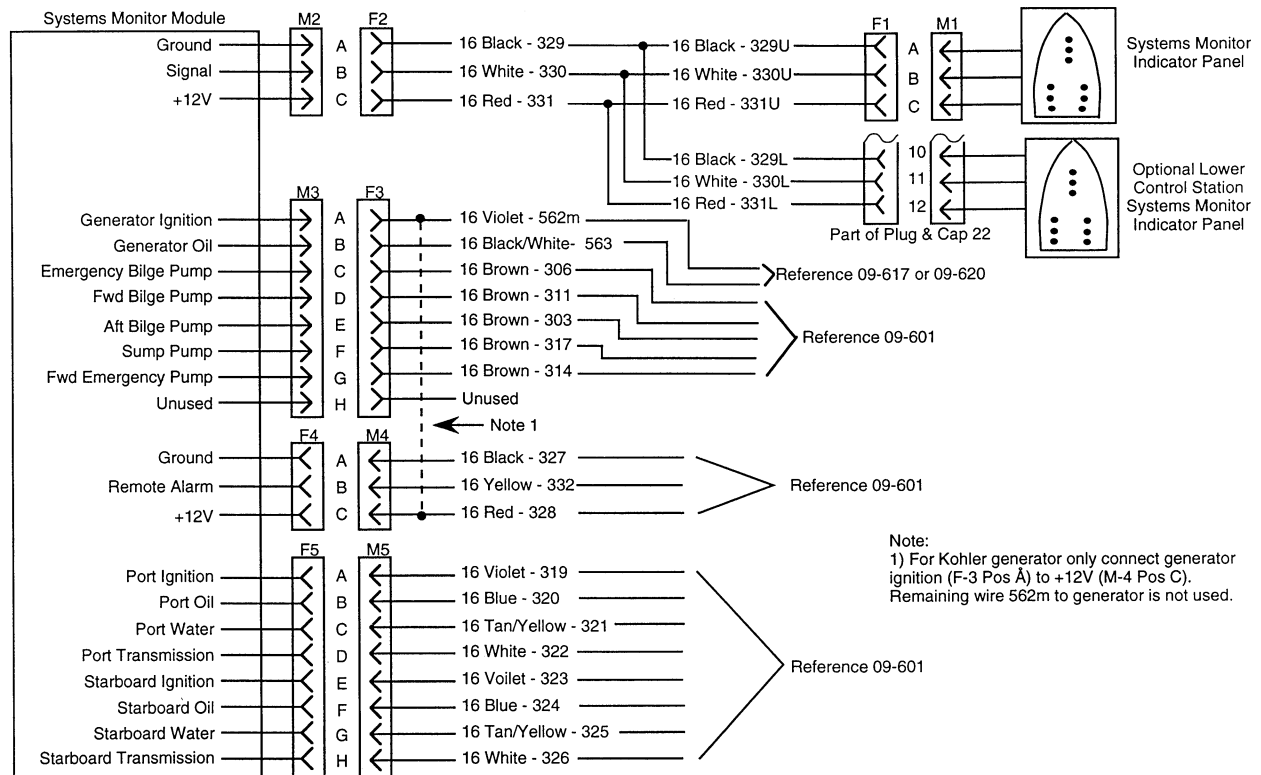
Main DC Breaker Panel Wiring Schematic



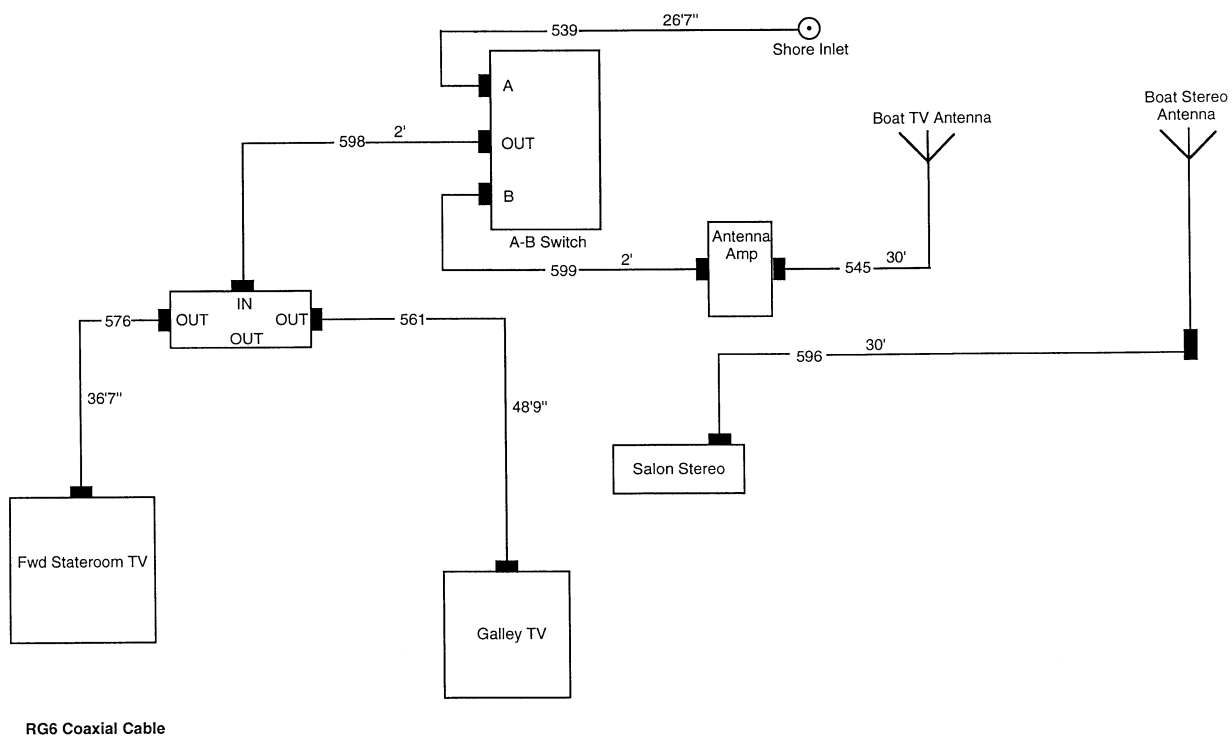
Ignition / Emergency Stop Wiring



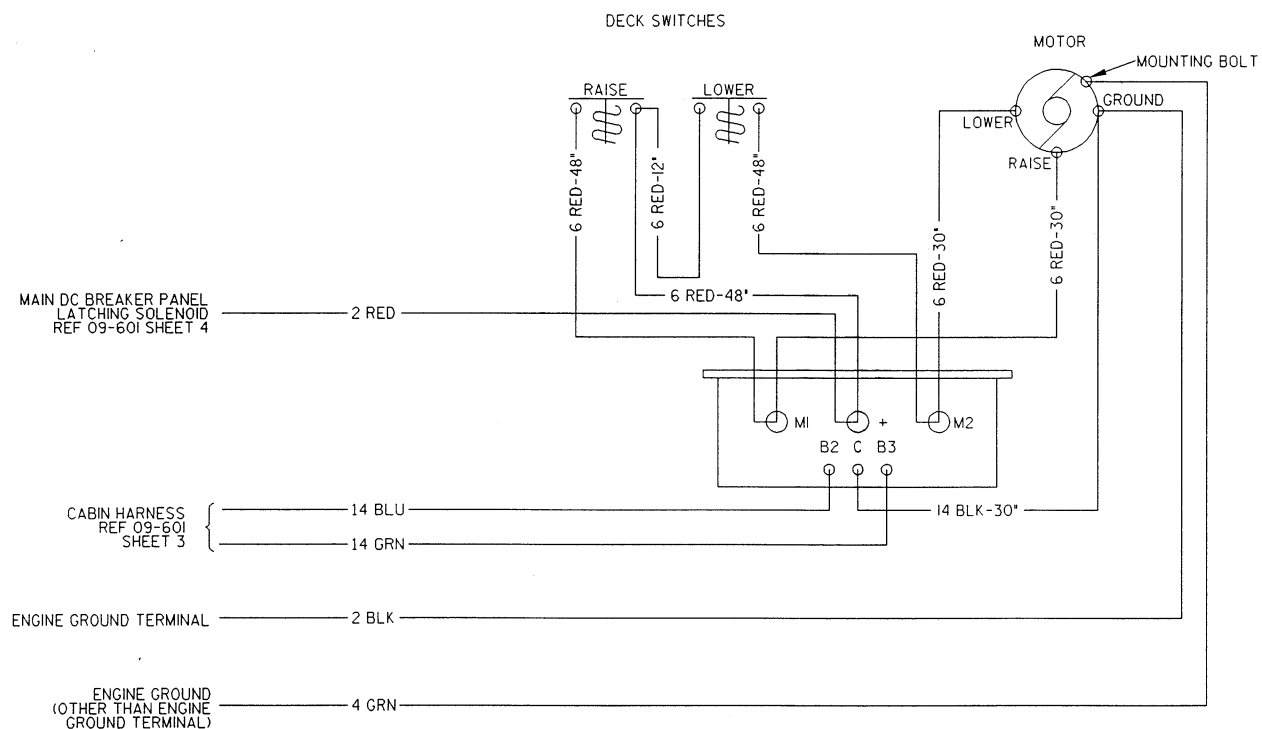
Systems Monitor Schematic



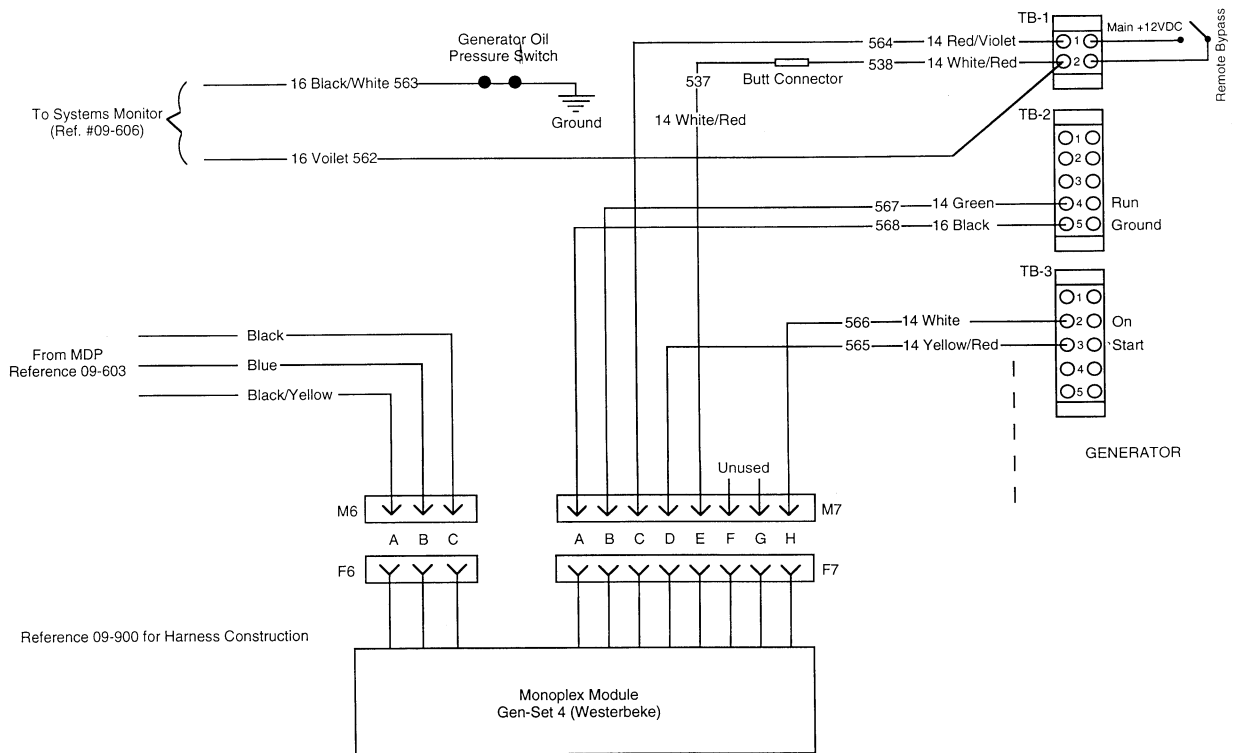
TV and Stereo Coaxial Cable Construction



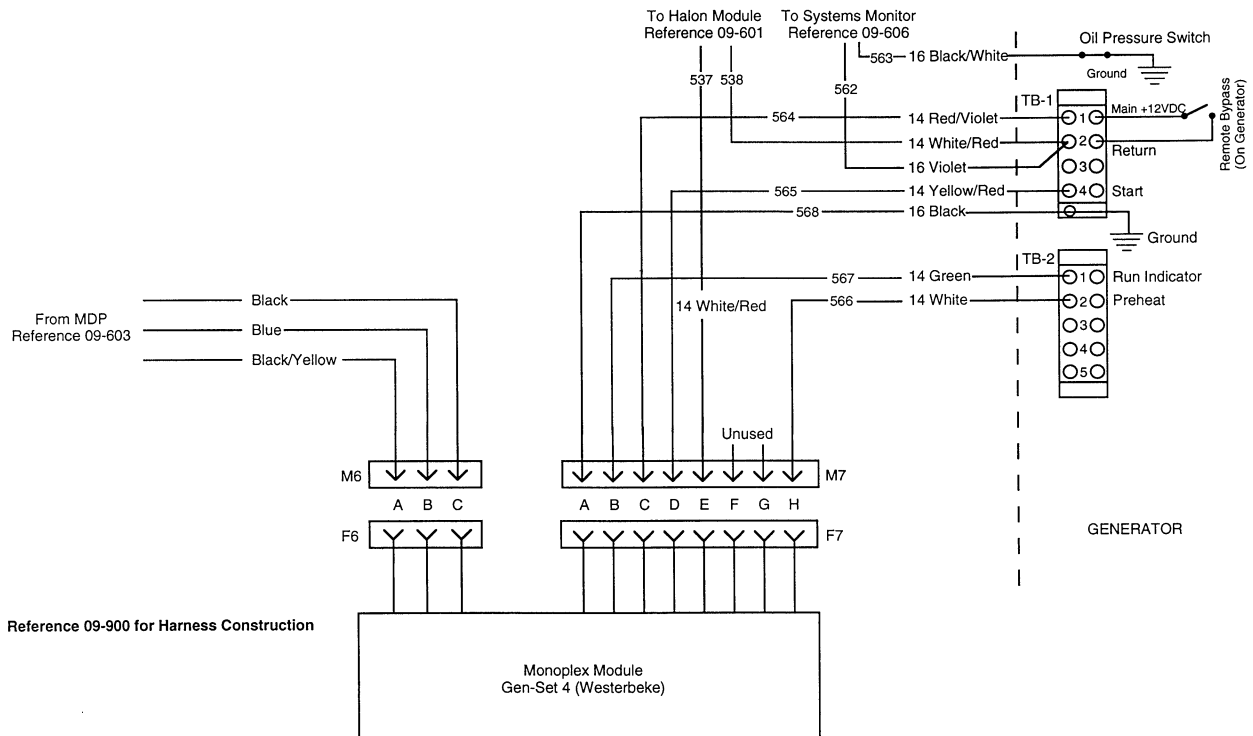
Lofrans Progress II Windlass Wiring Diagram



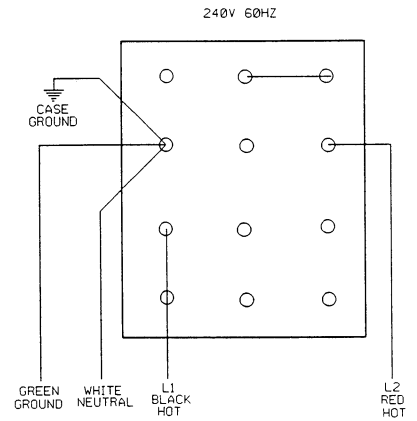
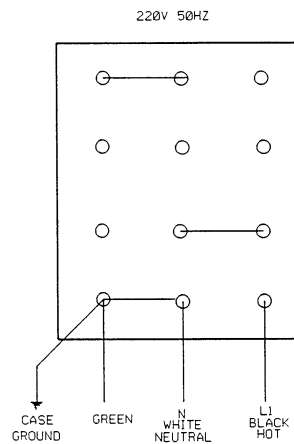
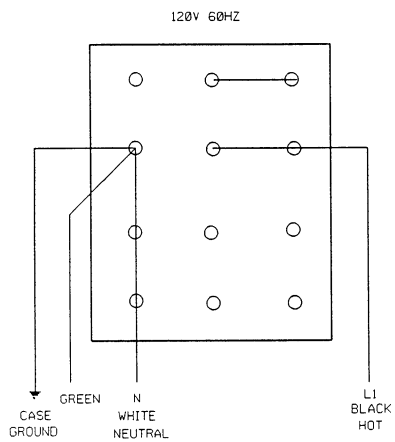
Westerbeke® Gas Generator Remote Wiring



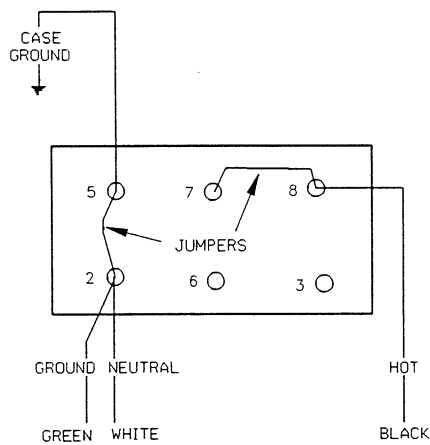
Westerbeke® Diesel Generator Remote Wiring



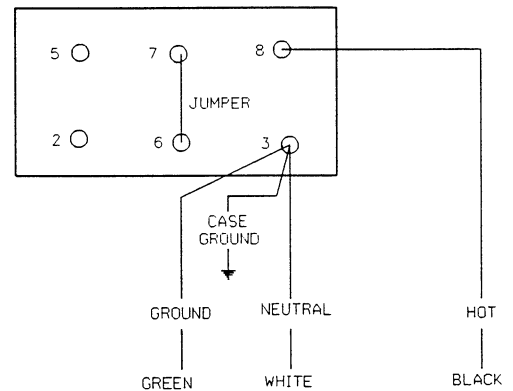
Westerbeke® Generator High Voltage Wiring



Westerbeke® Generator High Voltage Wiring



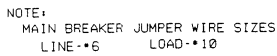
120 VOLTS
60 HZ



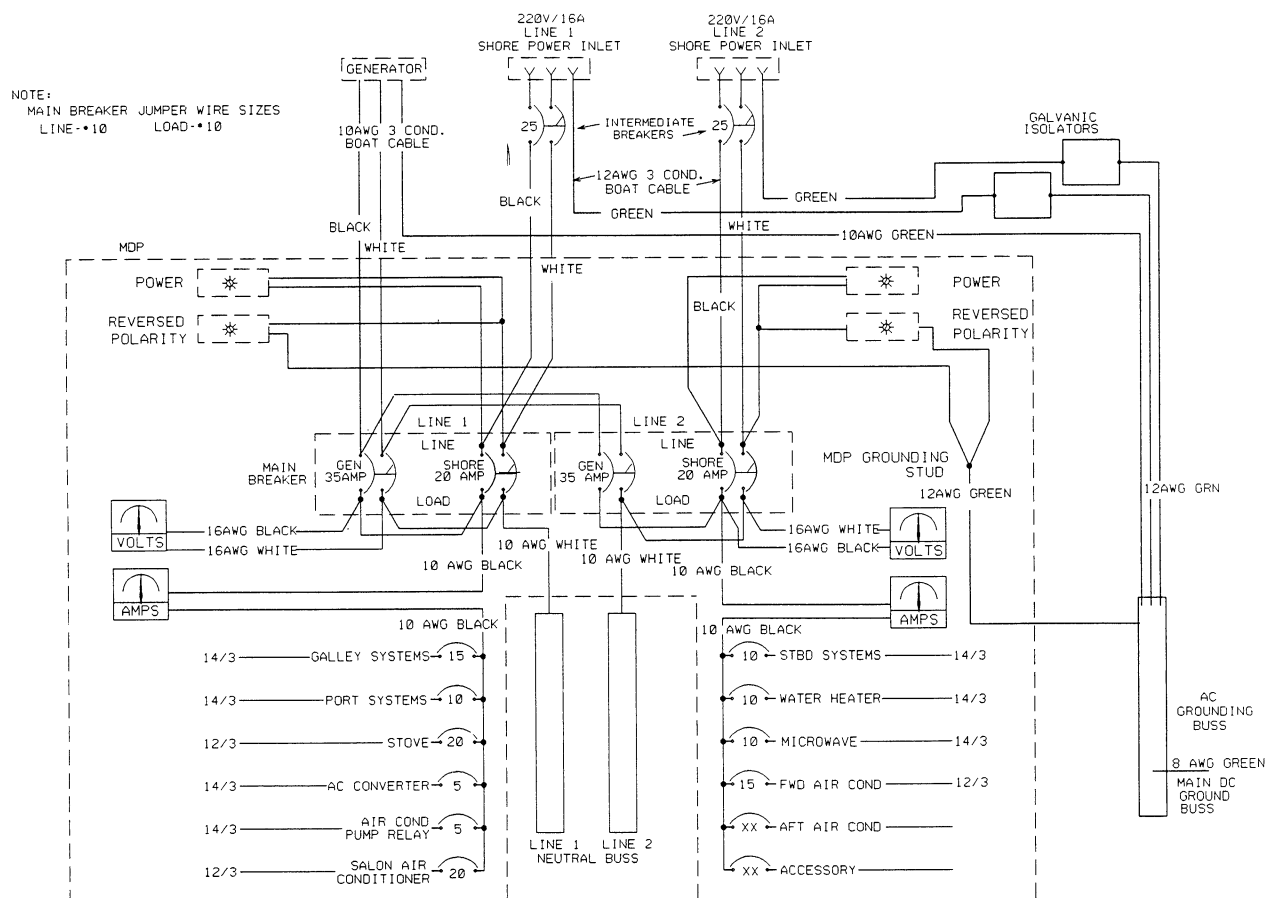
220 VOLTS
50 HZ

AC Wiring Schematic (120 Volt/60 Cycle)

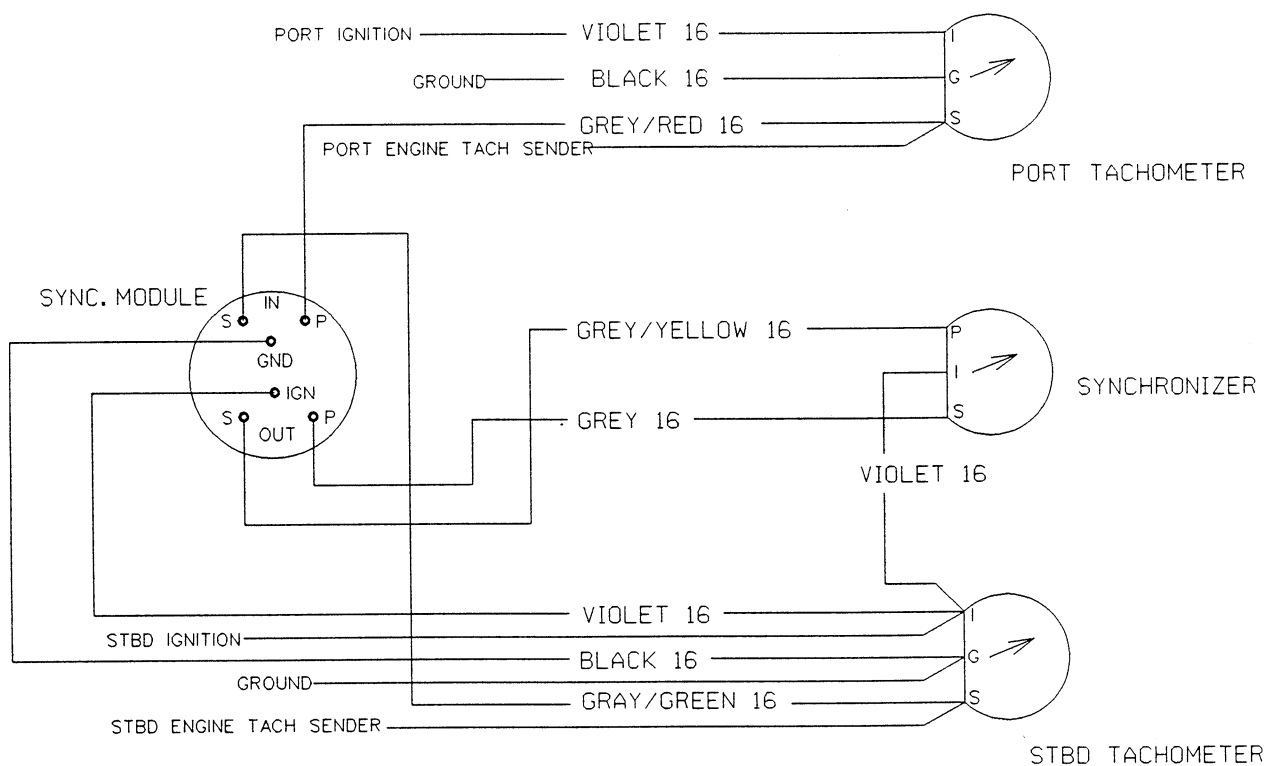
(U.S. Domestic)



AC Wiring Schematic (220 Volt/50 Cycle)



Engine Synchronizer Module Wiring

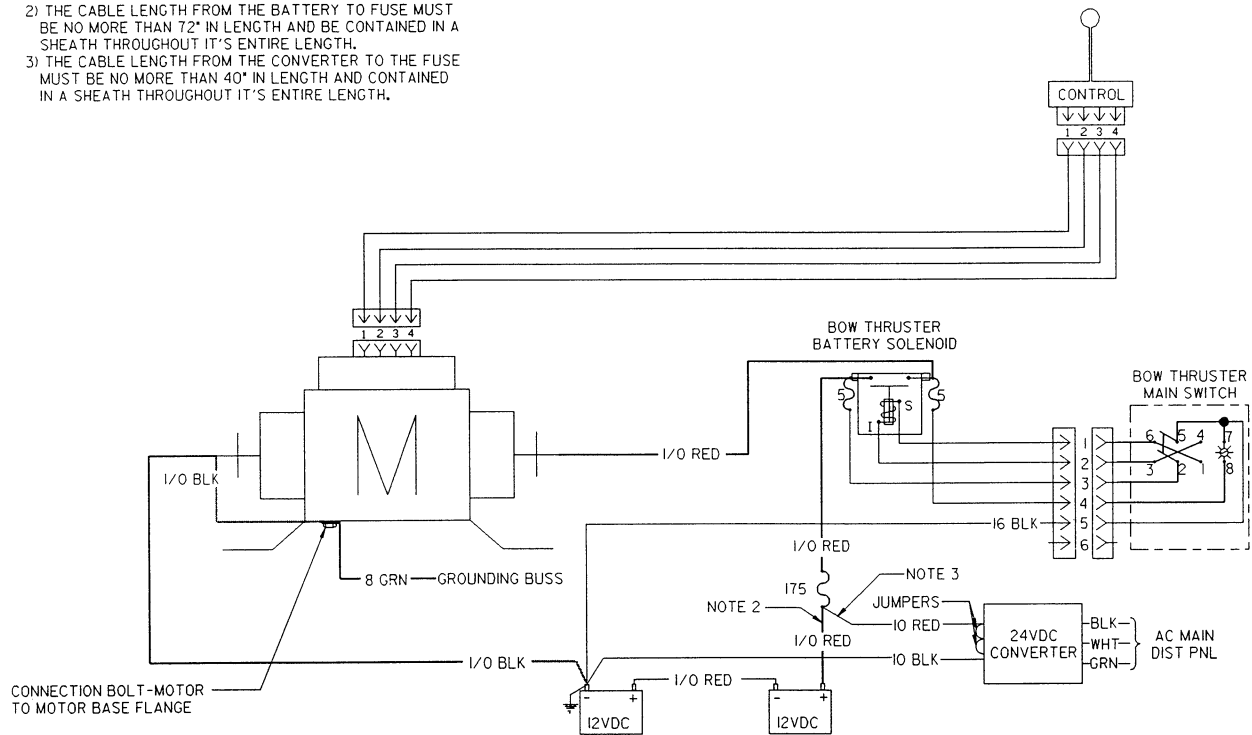


Bow Thruster Schematic

(Vetus 80KGF)

NOTES:

- 1) ENSURE TOTAL POSITIVE AND NEGATIVE CABLE LENGTHS FROM BATTERY TO MOTOR ARE NO LONGER THAN 78 FEET.
- 2) THE CABLE LENGTH FROM THE BATTERY TO FUSE MUST BE NO MORE THAN 72" IN LENGTH AND BE CONTAINED IN A SHEATH THROUGHOUT IT'S ENTIRE LENGTH.
- 3) THE CABLE LENGTH FROM THE CONVERTER TO THE FUSE MUST BE NO MORE THAN 40" IN LENGTH AND CONTAINED IN A SHEATH THROUGHOUT IT'S ENTIRE LENGTH.



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.

