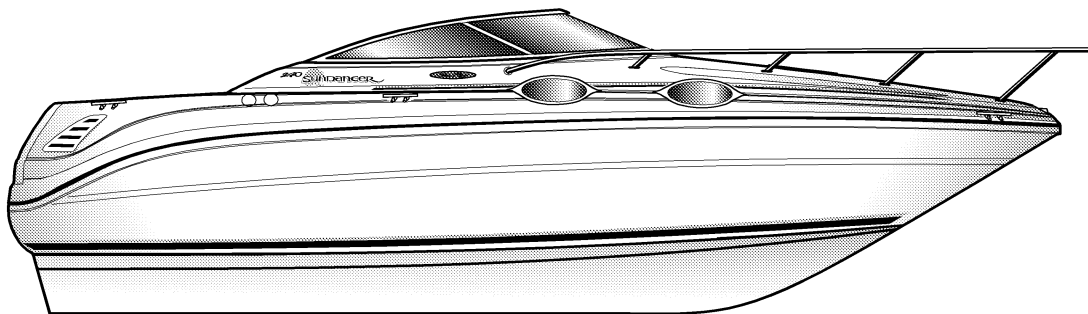


OWNER'S MANUAL SPECIFIC INFORMATION

240 SUNDANCER



Sea Ray

Sea Ray® • Owner's Manual Supplement 240 Sundancer • MRP #1756378
Printed in the U.S.A. June 1999, Revised December 1999, May 2000, May 2002, September 2002

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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.

INTRODUCTION & TABLE OF CONTENTS

This owner's manual supplement has been written to provide additional specific information about your boat and should be read carefully. Keep this booklet with the owner's manual in the owner's manual packet.

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 comforts 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 57pages.)



Information in this publication is based upon the latest product specifications available at printing. Sea Ray® Boats, Inc. reserves the right to make changes at any time, without notice, in the colors, equipment, specifications, materials and prices of all models, or to discontinue models. Should changes in production models be made, Sea Ray® is not obligated to make similar changes or modifications to models sold prior to the date of such changes.

The following are registered trademarks of the Brunswick Corporation: Sea Ray®, The SR Wave Logo.

WARRANTY INFORMATION

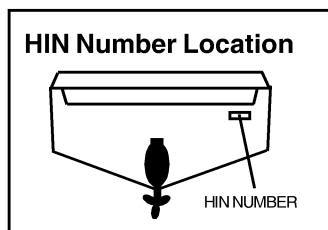
Sea Ray's® warranty is better than ever. Find the warranty information card in your owner's manual packet for complete details. If for some reason the card is missing, contact your Sea Ray dealer for a new one.

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: 1-314-213-7878

Domestic/International

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 for you.

OWNER'S MANUAL PACKET CONTENTS

	Sea Ray® Owner's Manual	Sea Ray® Owner's Manual Supplement	Sea Ray® Specification Sheet	Engine Operator's Manual	Original Equipment Manuals	Owner's Packet Insert
Accident Reporting	X			X	X	X
Alarms				X		
AM/FM Cassette Stereo					X	
Anchoring	X	X	X			X
Battery	X	X		X	X	
Bilge Layout		X				
Bilge Blower	X	X			X	
Bilge Pump	X	X			X	
Canvas	X				X	
Capacity Plate	X					
Carbon Monoxide	X					
Certifications		X	X			
Cleaning	X				X	
Cockpit		X				
Communication Equipment	X				X	
Compass	X				X	
Console		X				
Construction Standards		X				
Controls	X				X	
Depth Finder					X	
Dimensions		X	X			
Drains (Through-Hull Fittings)		X				
Education	X					
Electrical System	X	X				
Electrolysis	X					
Emergency Engine Shutdown	X			X		
Emergency Procedures	X					
Engine				X		
Environmental Considerations	X					
Equipment:						
• Recommended	X					
• Required	X					X
• Standard			X			
• Optional			X			
Fire	X					
Fire Suppression Equipment	X	X			X	X
Flame Arrestor				X		X
Flooding, Swamping	X					
Fuel System	X			X		
Gauges	X	X				
Gear Shift	X			X		
Global Positioning System (GPS)			X			
Homologations (International)		X				
Hotlines	X				X	X
Head System	X	X	X			

	Sea Ray® Owner's Manual	Sea Ray® Owner's Manual Supplement	Sea Ray® Specification Sheet	Engine Operator's Manual	Original Equipment Manuals	Owner's Packet Insert
Identification Numbers	X	X				
Ignition	X			X		
Ignition Protection	X			X		
Impaired Operation	X					X
Instrument Use & Operation	X				X	
Layout		X	X			
Lifesaving Equipment	X					X
Lifting	X	X				
Lightning Protection	X					
Lights	X	X				
Load Capacity	X	X				
Maintenance	X			X	X	
Maneuvering	X					X
Monitors					X	
Nautical Terms	X					
Navigation	X					X
Operation	X					
Optional Systems			X		X	
Personal Flotation Devices (PFD's)		X			X	X
Power Capacity	X					
Powertrain	X			X		
Propeller	X	X				
Propulsion				X		
Registration	X					X
Safety	X				X	X
Seating		X				
Seaworthiness Inspection	X					
Service Schedule				X	X	
Specifications		X	X			
Stability	X					
Start-In-Gear Protection	X					
Steering	X	X				
Symbols	X	X				
Switches		X				
Tank Capacities		X	X			
Throttle	X			X		
Through-Hull Fittings		X				
Trim Tabs	X	X				
Troubleshooting	X			X	X	
Upholstery	X					
Ventilation	X	X				
Warning Labels	X					
Warranty		X				X

To replace any material from the Owner's Manual Packet, contact your Sea Ray® dealer.

GENERAL INFORMATION

LIFE SAVING EQUIPMENT

(PERSONAL FLOTATION DEVICE (PFD))

STORAGE: The 240 DA offers storage under the entertainment center.

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 key from the ignition, store your boat in a secure place, put a lock on the trailer and if location permits chain your trailer to a pole or other permanently fixed object. Remove and stow any removable electronic gear (fishing poles, skis, 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.

REPAIR AND PARTS FACILITIES

To find a Sea Ray® dealer in your area, call: Sea Ray® Customer Service: 1-800-SRBOATS
FAX: 1-314-213-7878

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

DOCKING/LIFTING/TRAILERING



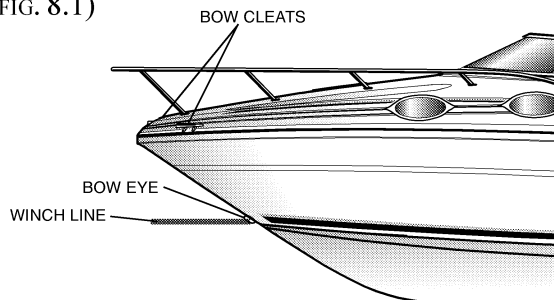
CLEATS: Cleats must not be used for lifting the boat, they are intended for mooring use only.

BOW AND STERN EYES: The bow eye should be used to haul the boat onto a trailer. The stern eyes should be used as tie down points for trailering the boat. The bow and stern eyes may be used for short term lifting of the boat such as for service. Long term lifting with the bow and stern eyes may cause stress on the fiberglass and gel coat.

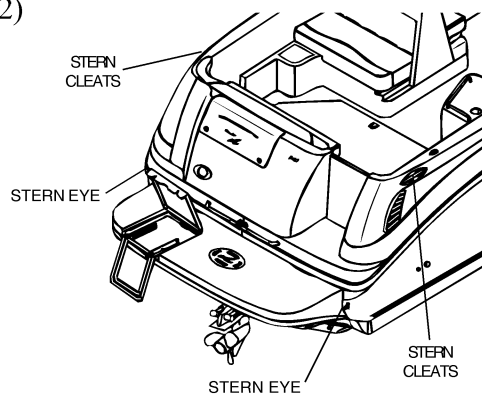
For long term storage use flat, wide belt-type slings and spreaders long enough to keep pressure from gunwales. Do not place slings where they may lift on underwater fittings.

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

BOW EYE & CLEATS
(FIG. 8.1)

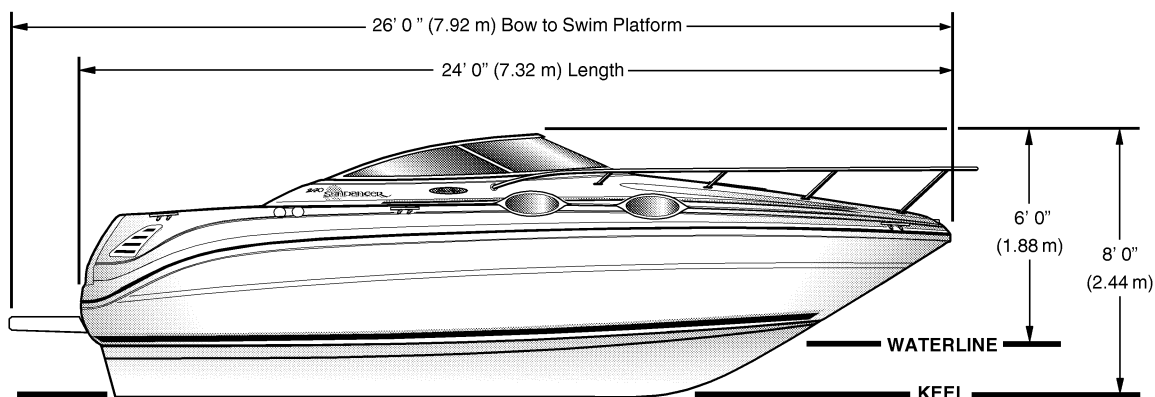


STERN EYES AND CLEATS
(FIG. 8.2)



GENERAL ARRANGEMENTS & DIMENSIONS

PROFILE (FIG. 9.1)

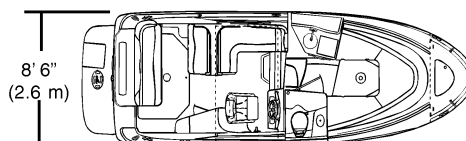


240 DA SPECIFICATIONS

Overall Length	24' 0" (7.32 m)
w/std. Swim Platform	26' 0" (7.92 m)
Beam	8' 6" (2.59 m)
Draft (stern drive down)	40" (101.6 cm)
Draft (stern drive up)	25" (63.5 cm)
Dry Weight (lbs.)	5,550 (2,517 kg)
Fuel Capacity (gal)	69 gal (261.2 liters)
Usable Fuel	65.5 gal (248.10 liters)
Water Capacity	20 gal (75.7 liters)
Holding Tank (Optional)	10 gal (39.7 liters)
Dead Rise	19°
Maximum Persons / Weight	8 / 1,200 lbs. (544.3 kg)
(MWC) Max Weight Persons / Gear	1,600 lbs. (725.8 kg)

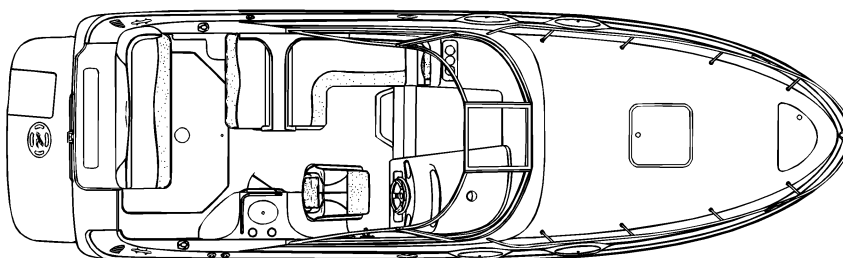
HEIGHT DIMENSIONS

Waterline To Top Of Windshield	6' 0" (1.88 m)
Keel To Top Of Windshield	8' 0" (2.44 m)



(FIG. 9.2)

SEATING PLAN



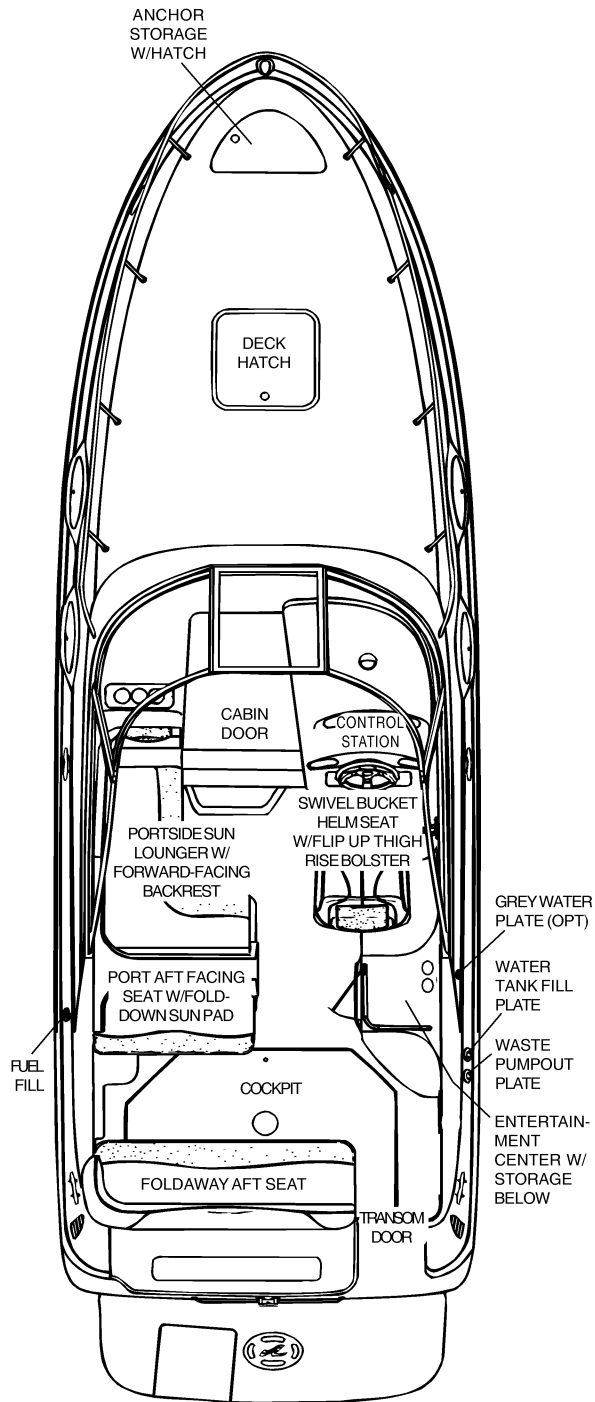
240 DA SEATING PLAN

(Portside Sun Lounger W/Forward-Facing Backrest, Port Aft Facing Seat W/Folddown Sun Pad, Swivel Bucket Helm Seat With Flip-up Thigh Rise Bolster)

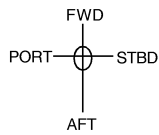
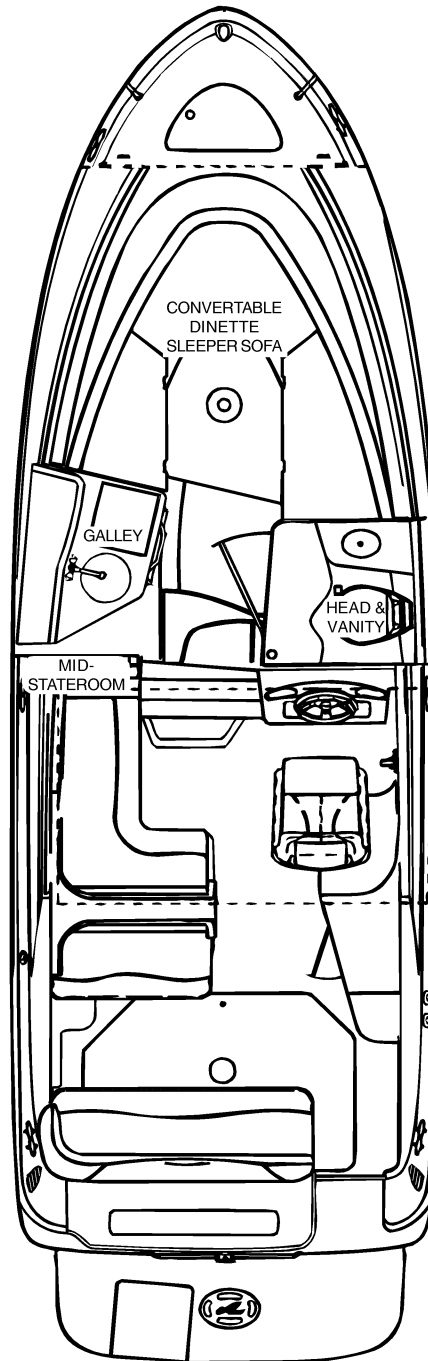
(FIG. 9.3)

ACCOMMODATION PLANS

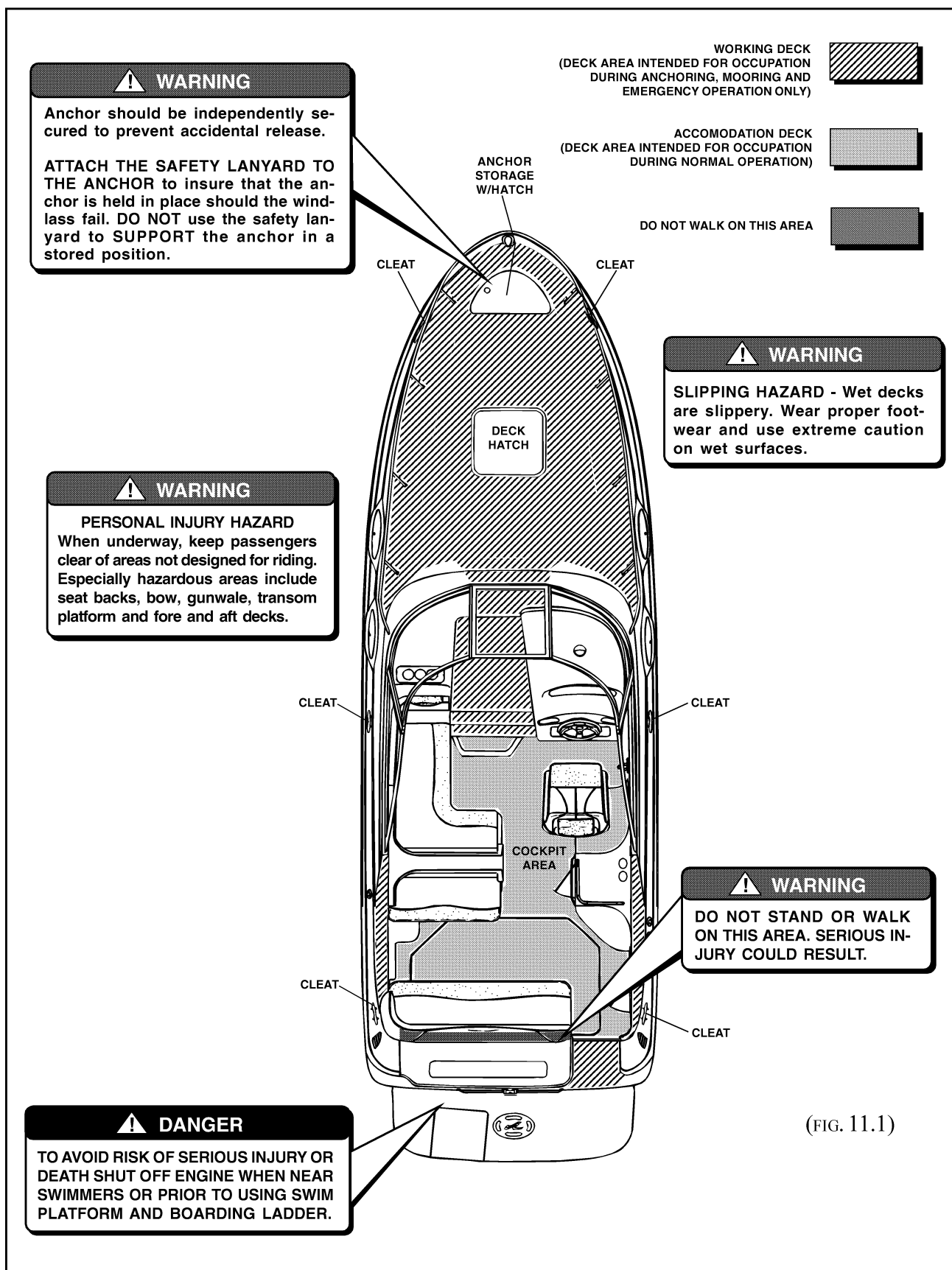
MAIN DECK (FLOOR PLAN)
(FIG. 10.1)



MID DECK (FLOOR PLAN)
(FIG. 10.2)

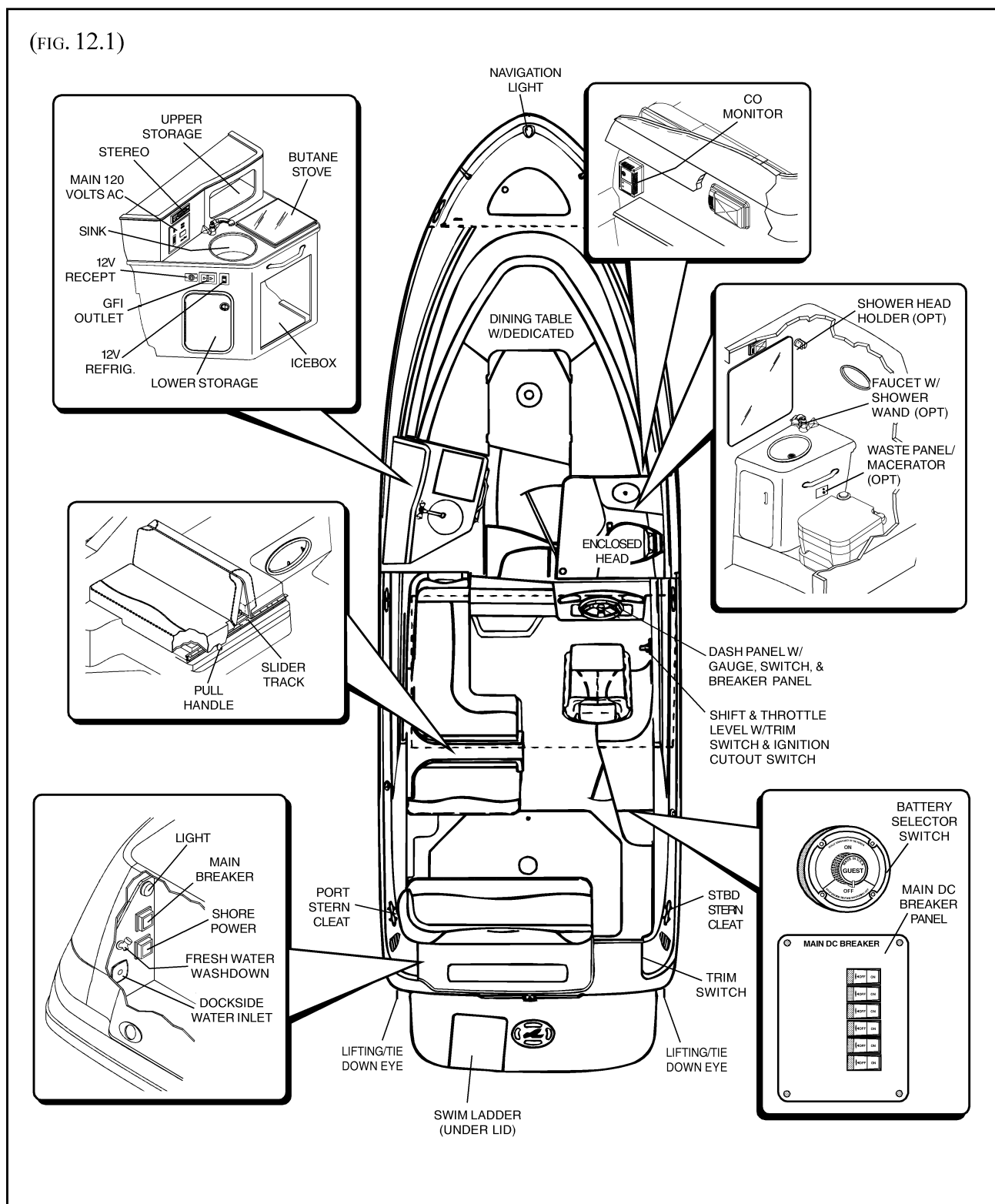


DECK OCCUPANCY LOCATION



ACCESSORY LOCATIONS

(FIG. 12.1)



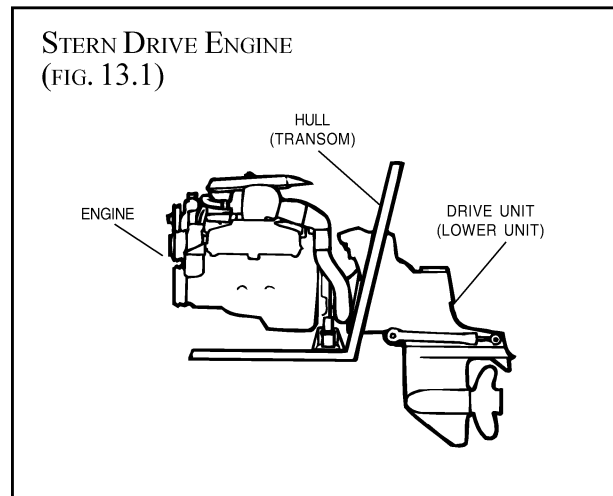
GENERAL INFORMATION

PROPULSION SYSTEM



Your boat is equipped with a stern drive type propulsion system also known as an inboard-outboard engine. This type of propulsion system has the engine secured to the hull's stringers at the aft end of the hull. The drive unit, also called the lower unit because it hangs below the hull, is the part of the propulsion system that attaches to the outside of the hull or transom. The drive unit pivots to steer the boat.

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



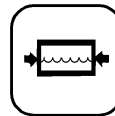
PROPELLERS



Your Sea Ray® has been equipped with a propeller which our tests have shown to be the best suited for general use under normal conditions and load. In some situations you may wish to change propellers to give your boat slightly different performance characteristics. In general, changing to a lower pitch propeller will increase acceleration and load-pulling ability, but with a slight decrease in top speed. Conversely, moving to a higher pitch propeller will attain higher top speed with a light load, but will sacrifice acceleration and power. Your particular requirements should be discussed with your Sea Ray® dealer.

Under no circumstances use a propeller which allows the engine to operate at higher than recommended RPM.

WATER SYSTEM



The fresh water system is activated by the WATER SYSTEM switch on the DC distribution panel in the cabin. The switch must be ON to operate the sink faucet or showers.

To begin initial operation:

1. Fill the water tank from a source known to provide safe, pure drinking water by removing the cap marked WATER located on the deck. (see fig. 10.1)
2. Turn ON the WATER PUMP breaker.
3. Open faucet or turn on shower wand.

Shut faucet/shower off as flow becomes steady and free of air. Shutting off the faucet/shower will cause the pump to shut off.

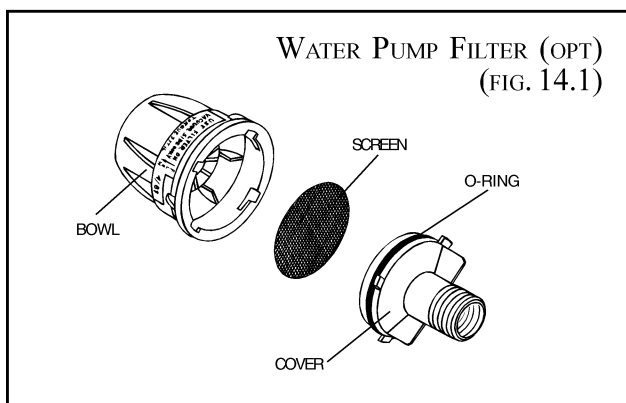
Winterizing Water System

1. Turn ON fresh water system.
2. Open water faucets, let system drain completely, leave faucets open.
3. Turn OFF fresh water system.
4. Remove hoses from water pump.
5. Blowout

WATER PUMP & FILTER

The pump has a filter to prevent particles from entering the pump head. The filter should be checked and cleaned periodically.

Before servicing the system, turn the "WATER SYSTEM" switch OFF and release pressure on the system by opening a faucet. To clean the filter, remove the screen and rinse with clean water. Replace, making sure the O-ring is in place when replacing the cover.



HEAD SYSTEM



There are two (2) head systems available for your Sea Ray 240 Sundancer. The owner's manual packet in your boat contains information pertaining to your head system that should be carefully read.

REQUIREMENTS FOR VESSEL OPERATORS

The Environmental Protection Agency (EPA) standards state that in freshwater lakes, freshwater reservoirs or other freshwater impoundments whose inlets or outlets are such as to prevent the ingress or egress by vessel traffic subject to this regulation, or in rivers not capable of navigation by interstate vessel traffic subject to this regulation, marine sanitation devices certified by the U.S. Coast Guard installed on all vessels shall be designed and operated to prevent the overboard discharge of sewage, treated or untreated, or of any waste derived from sewage. The EPA standards further state that this shall not be construed to prohibit the carriage of Coast Guard-certified flow through treatment devices which have been secured so as to prevent such discharges. They also state that the waters where a Coast Guard-certified marine sanitation device permitting discharge is allowed include coastal waters and estuaries, the Great Lakes and interconnecting waterways, freshwater lakes and impoundments accessible through locks, and other flowing waters that are navigable interstate by vessels subject to this regulation (40 CFB 140.3).



CAUTION

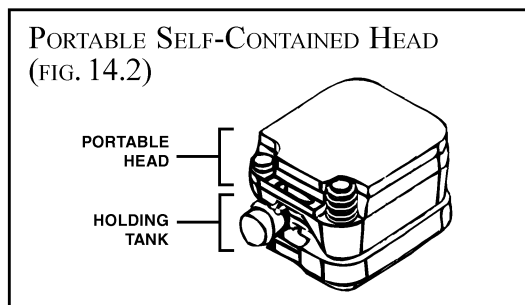
Do not place facial tissue, paper towels or sanitary napkins in head.

PORTABLE SELF-CONTAINED HEAD

The portable self-contained unit has two individual holding tanks. The top tank is fitted with a hand pump and holds

fresh water and chemicals. The bottom tank is for holding waste material (see 15.1).

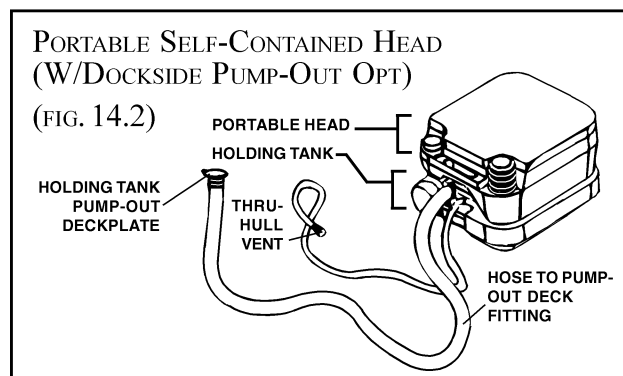
REFER TO OWNER'S PACKET FOR INSTRUCTIONS AND WARRANTY INFORMATION.



PUMP-OUT HEAD (OPTIONAL)

The optional portable head with dockside pump-out is the same head as described above except the holding tank has a dockside pump-out hose attached. The hose leads to a waste plate on the deck. To empty holding tank, the services of a dockside pump-out station will be needed. Follow instructions at the station and make sure pump-out station hose is inserted into the deck plate marked "WASTE" (see 15.2).

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

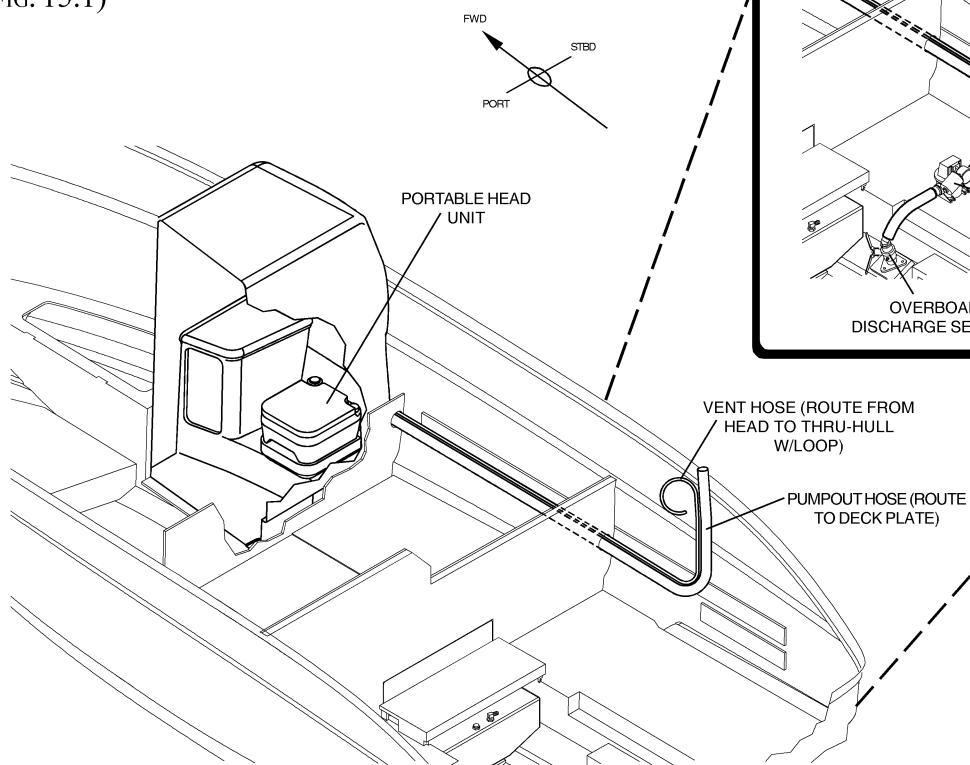


VACU-FLUSH HEAD SYSTEM (OPTIONAL)

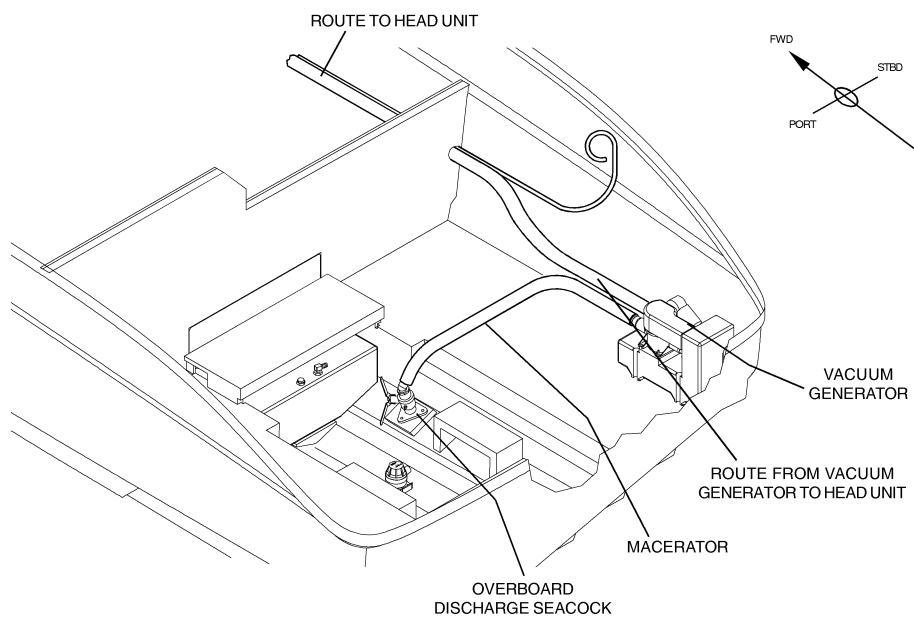
The VACU-FLUSH system utilizes the following items: Vacu-Flush Head, Vacuum Generator, Holding Tank, Vent Filter, Macerator and Waste Deck Plate for pumpout station access (see fig. 15.3).

The Vacu-Flush head system is energized by a breaker located on the Main 120 Volts Panel in the galley area. The foot pedal at the base of the toilet opens a mechanical seal and vacuum forces waste through the opening in the bowl, through the vacuum pump and then to the holding tank.

PORTABLE HEAD LINE ROUTING
(FIG. 15.1)



VACU-FLUSH & MACERATOR LINE ROUTING
(OPT) (FIG. 15.3)



To Operate:

1. Turn ON the "WATER SYSTEM" breaker located on the Main 120 Volt DC panel.
2. Turn ON the "HEAD" breaker located on the Main 120 Volt DC panel.

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

HOLDING TANK OPERATION

Waste from the head is directed into the holding tank located in the bilge. The holding tank fluid level indicator is located next to the head which indicates "3/4 FULL," "FULL" and "DO NOT FLUSH." When the "FULL" light is on, the "DO NOT FLUSH" light will also be on. When these lights are ON, the holding tank must be emptied before the head can be reused.

To empty holding tank, the services of a dockside pumpout station will be needed. Follow instructions at the station and make sure pumpout station hose is inserted into the deck plate marked "WASTE." The holding tank can also be emptied through utilization of the macerator if your boat is equipped with this option (see "MACERATOR OPTION").



CAUTION

Damage will occur to the macerator if operated with the deck waste plate off or loose.

NOTICE

There is the possibility of being fined for having an operable direct overboard discharge in U.S. waters. Removing handle of seacock, in closed position, or other means must be utilized to avoid fine.

MACERATOR (OPTION)

The macerator gives the boat operator the means of discharging the holding tank contents directly overboard through a seacock in the bottom of the hull. This option is available in conjunction with the dockside pumpout.

DISCHARGE OF SEWAGE DIRECTLY OVERBOARD IS FOR USE WHERE APPROVED ONLY.

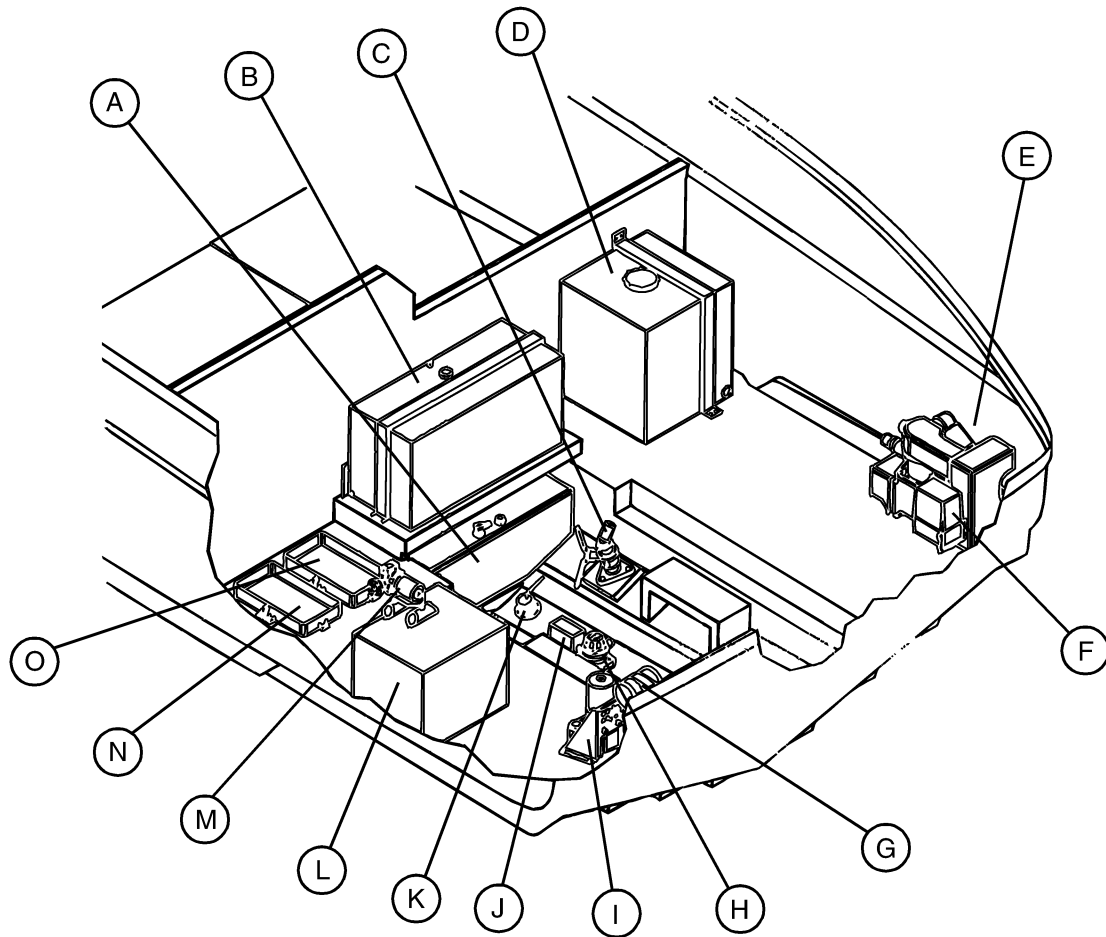
To direct waste from the holding tank to the macerator, open the overboard discharge seacock.

To operate the macerator:

1. Open the waste discharge seacock located on the bilge floor (see fig. 15.2 & 15.3).
2. Turn the key to ON position on the Waste System Panel located in the head. (see fig. 12.1)
3. When tank is empty, turn key to OFF position and close waste discharge seacock.

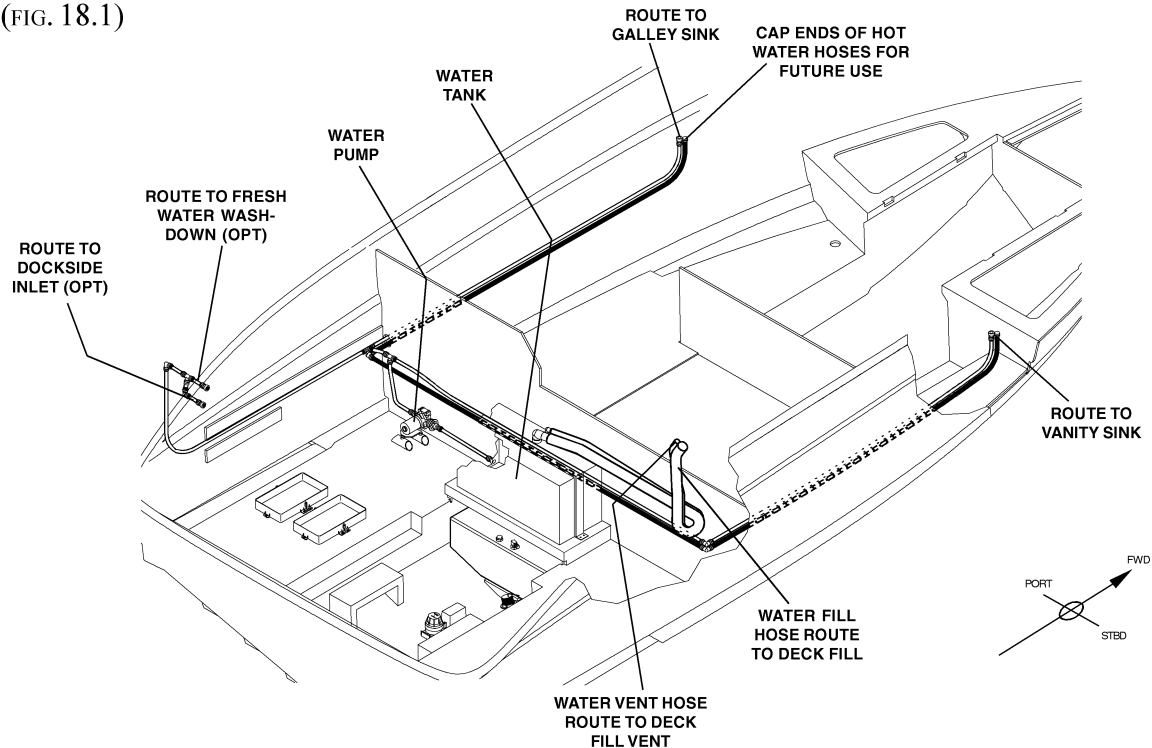
BILGE LAYOUT

(FIG. 17.1)

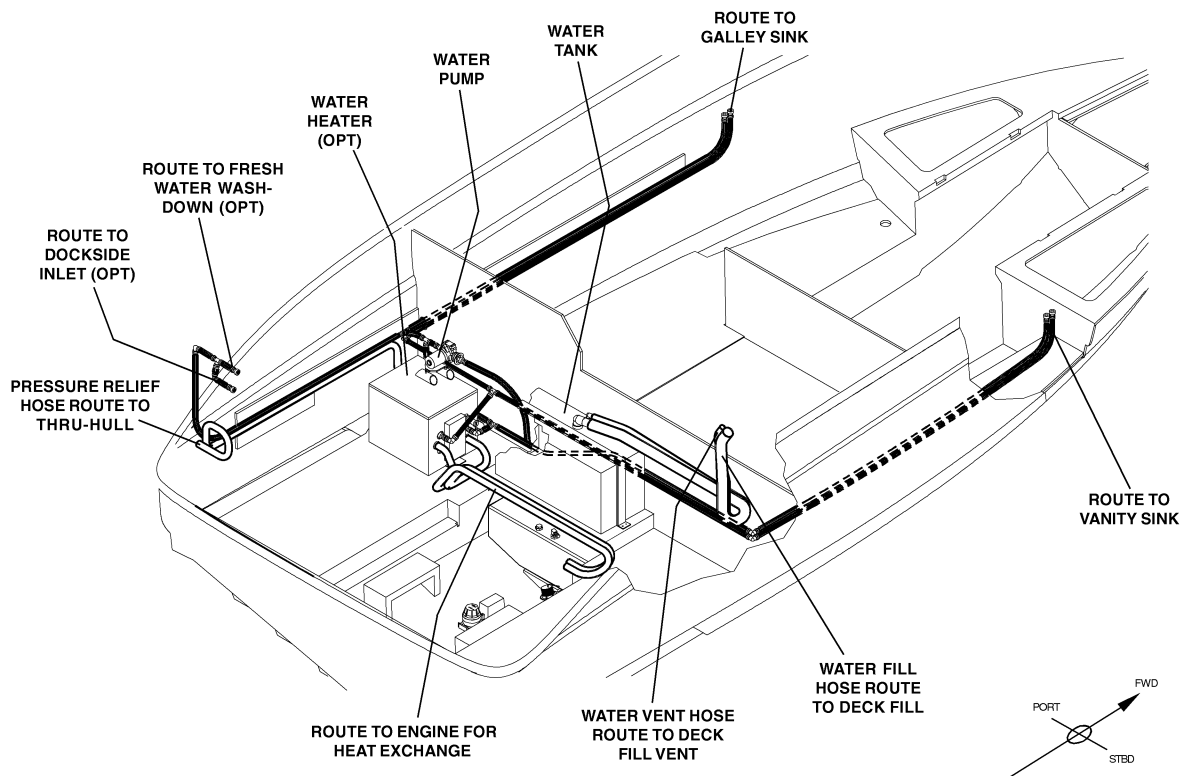


- | | |
|--|----------------------|
| A Fuel Tank | H Bilge Pump |
| B Water Tank | I Power Trim Pump |
| C Overboard Discharge
Seacock (Opt) | J Float Switch |
| D Grey Water Holding Tank (Opt) | K Transducer |
| E Vacuum Generator (Opt) | L Water Heater (Opt) |
| F Trim Tab Pump | M Water Pump |
| G Bilge Blower | N Battery Tray |
| | O Battery Tray (Opt) |

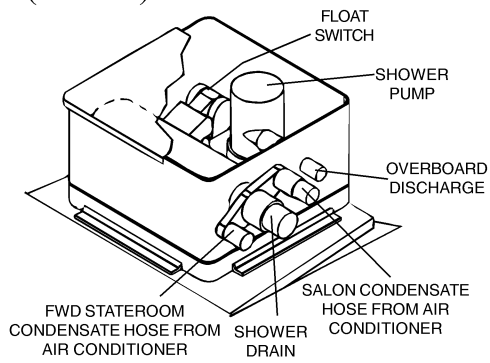
FRESH WATER LINE ROUTING
(FIG. 18.1)



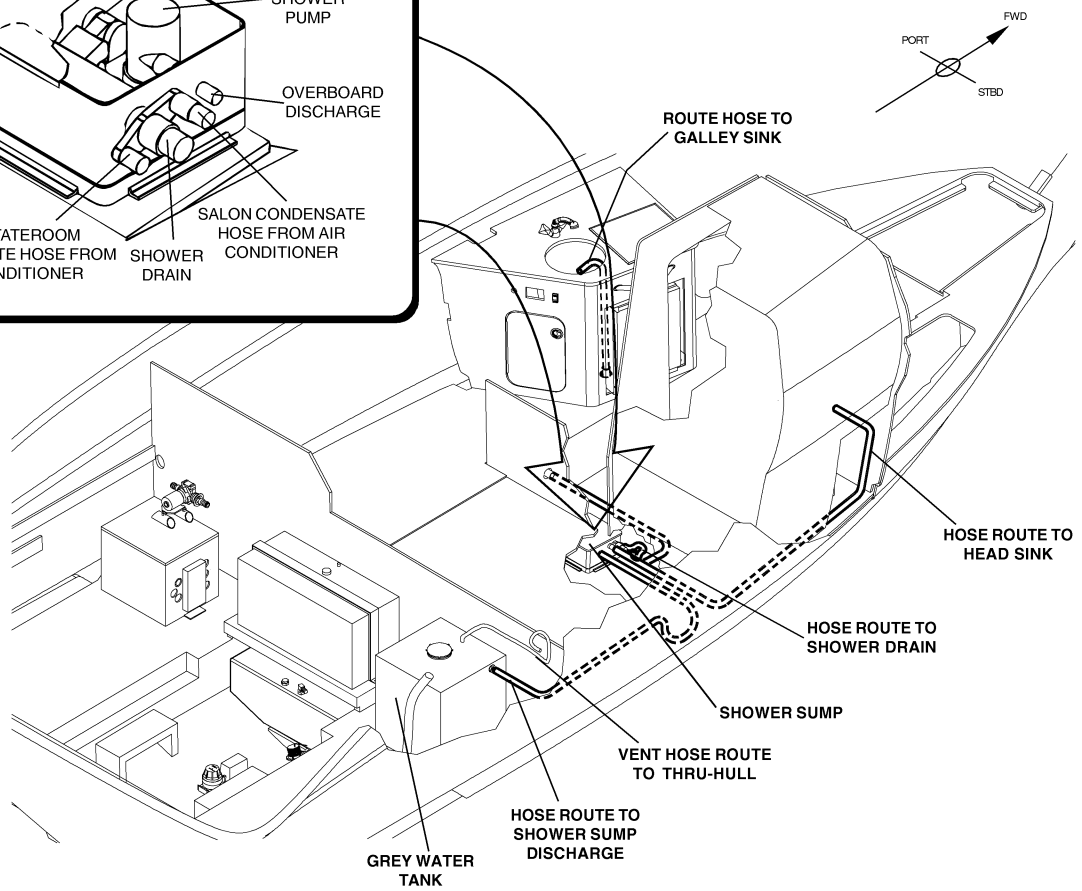
FRESH WATER LINE ROUTING
(W/OPTIONAL WATER HEATER) (FIG. 18.2)



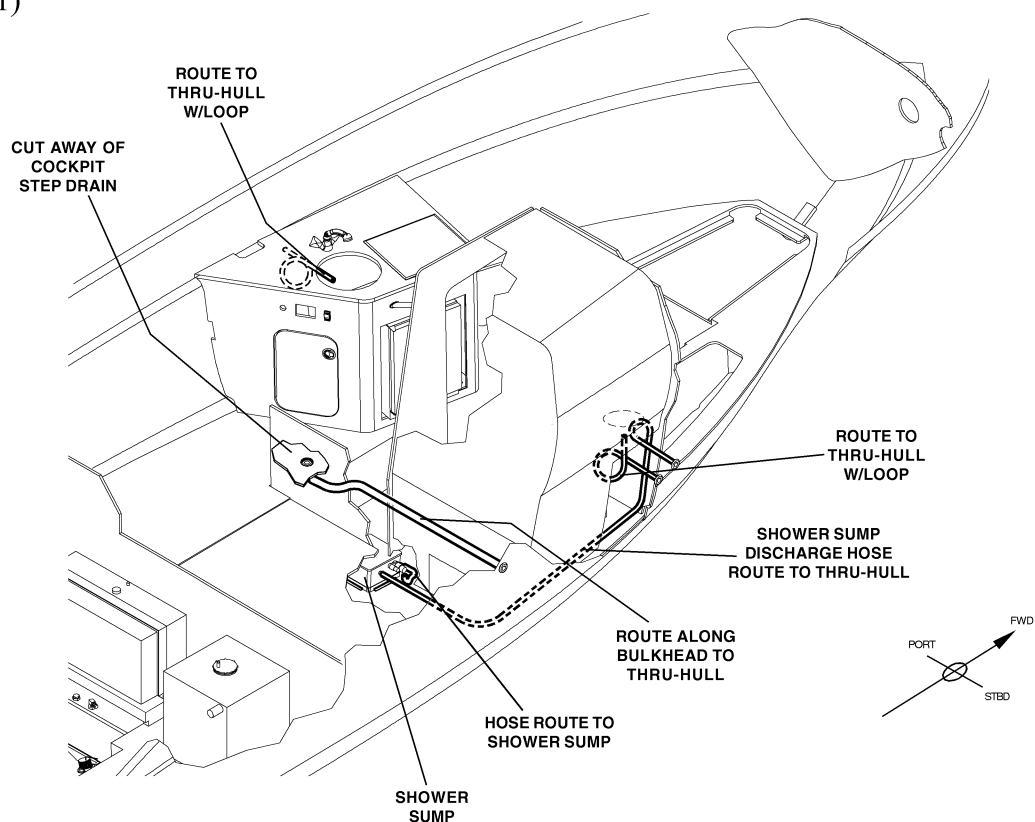
**SHOWER SUMP DETAIL
(FIG. 19.1)**



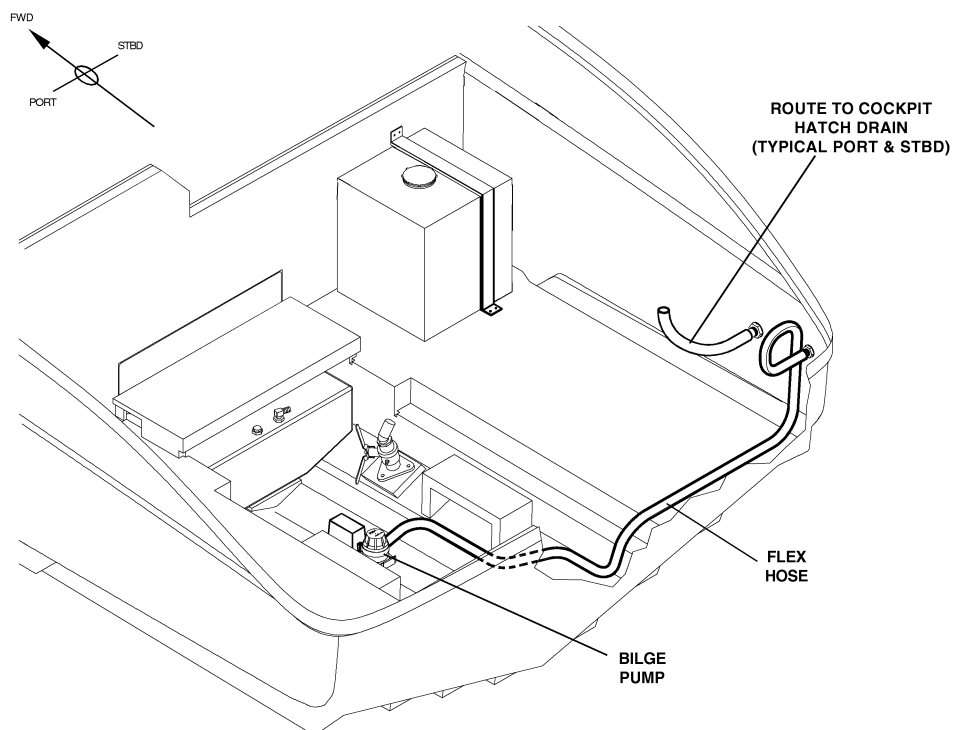
**GREY WATER LINE ROUTING
(OPT) (FIG. 19.2)**



DRAIN LINE ROUTING (FIG. 20.1)



(FIG. 20.2)



FUEL SYSTEM



The owner's manual general information contains important fueling information. Take time to read all the fuel related information in the owner's manual.

The 240 Sundancer standard gasoline fuel system consists of a 69 gallon (261.2 liters) fuel tank, fuel tank vent, an anti-siphon valve, engine fuel supply line and fuel fill (see fig. 21.1).

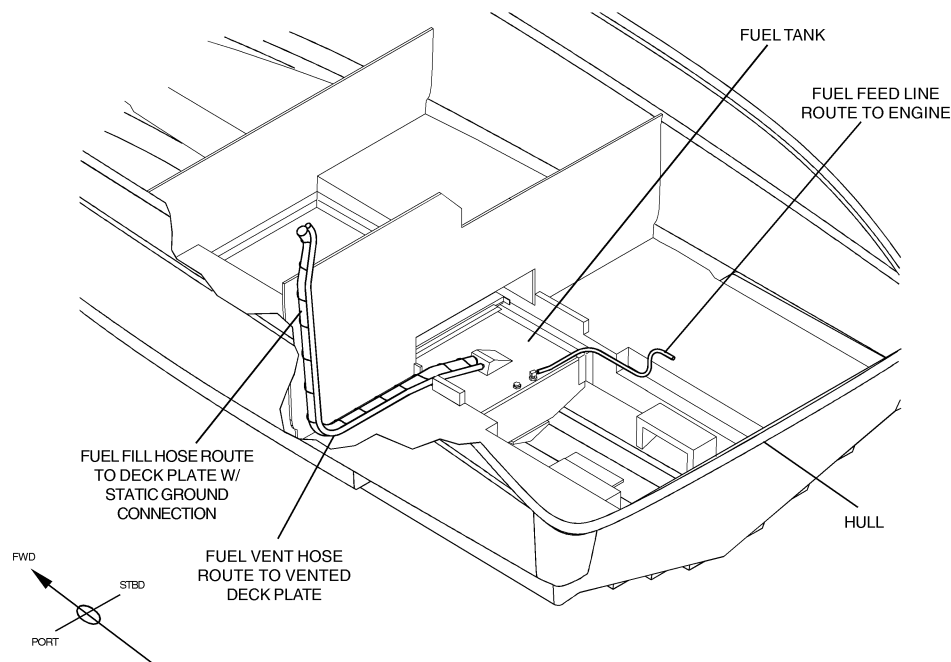
The fuel tank vent serves as a pressure/vacuum release and safety overflow. The fuel vent is located inside the fuel cap on the starboard side of the hull. Periodically check the vent to assure that it is not clogged. (see fig. 22.2).

The gasoline engine fuel pick-up at the fuel tank has an anti-siphon valve to prevent fuel from siphoning out in the event of fuel line failure.

CAUTION

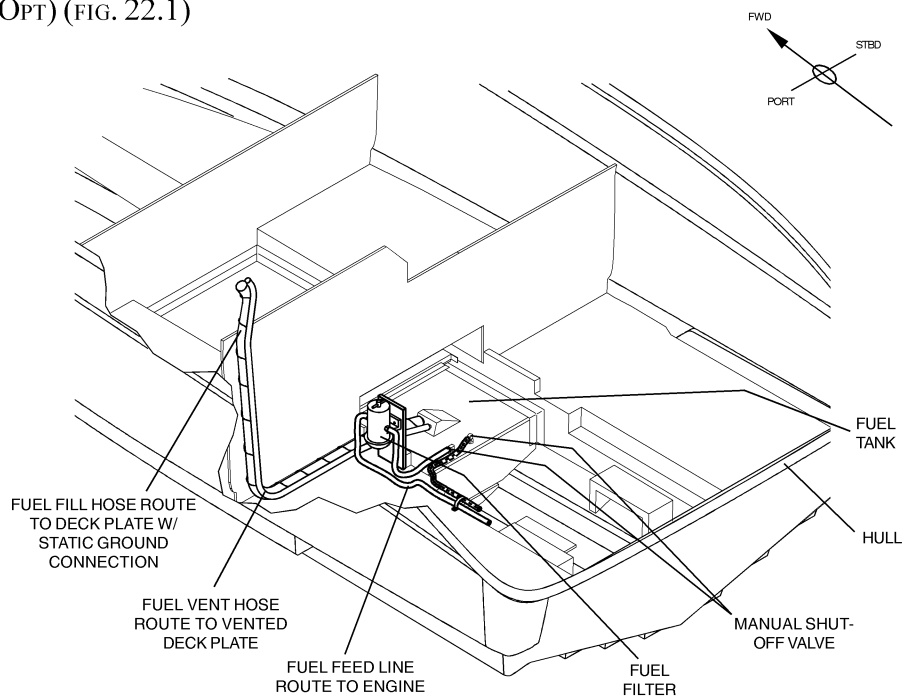
Never start an engine until you are certain that fuel fumes are not present in engine compartment or elsewhere in the boat.

SINGLE ENGINE
GAS FUEL SYSTEM (FIG. 21.1)

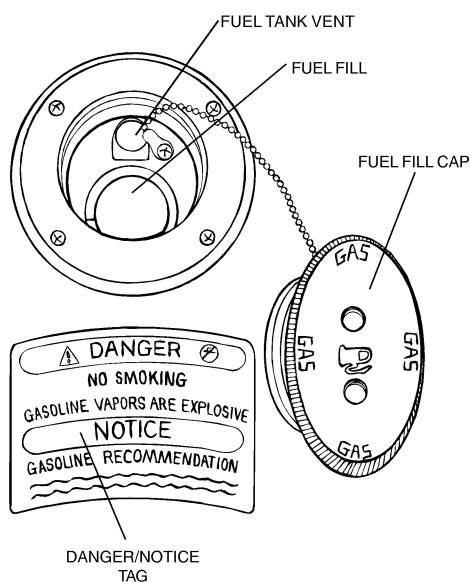


An optional diesel fuel system is available and consists of a 70 gallon fuel tank, fuel tank vent, shut-off valve, engine fuel supply and return line and fuel fill (see fig. 22.1).

FUEL LINE ROUTING
(W/DIESEL OPT) (FIG. 22.1)



FUEL FILL WITH VENT
(FIG. 22.2)



EXHAUST SYSTEM

This boat's exhaust system is an integral part of the propulsion system.

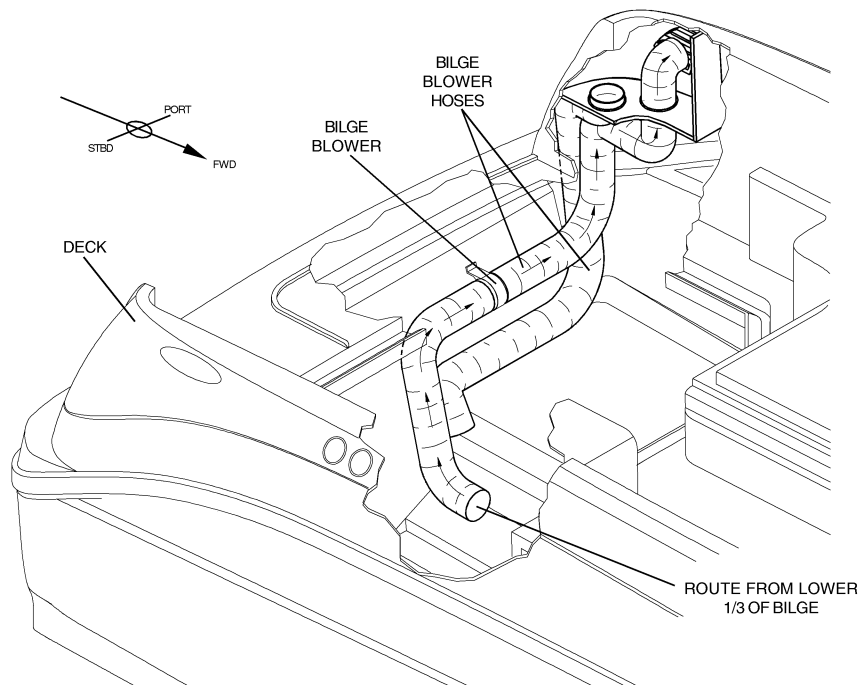
REFER TO THE ENGINE OWNER'S MANUAL FOR INSTRUCTIONS AND WARRANTY INFORMATION.

VENTILATION SYSTEM/BILGE BLOWER



Sea Ray® boats are equipped with an electric bilge blower 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 on the port side of the transom.

TYPICAL BILGE BLOWER
INSTALLATION (FIG. 23.1)



BILGE PUMPING SYSTEM



Your boat is equipped with an automatic electric bilge pumping system consisting of a bilge pump and float switch. The pump is protected by a breaker on the main DC breaker panel located in the cockpit entertainment center (see fig. 12.1).

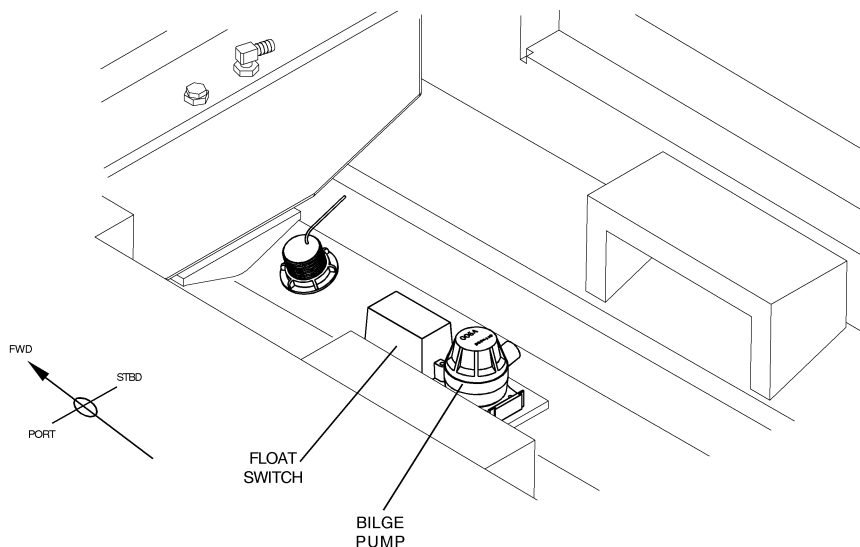
The bilge pump is equipped with a switch on the dash with a “MANUAL” and “AUTO” position. When the switch is in the “MANUAL” position, the pump will run continuously. When in the “AUTO” position, the pump is

activated when there is enough water in the bilge to raise the float switch to its highest position; and deactivated when the water recedes. **The pump should NOT be left in the “MANUAL” mode unless the bilge is being pumped out for servicing.**

Frequently inspect the area under the pumps and float switches to ensure they are free from debris and gummy bilge oil.

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

BILGE PUMPING INSTALLATION
(FIG. 24.1)

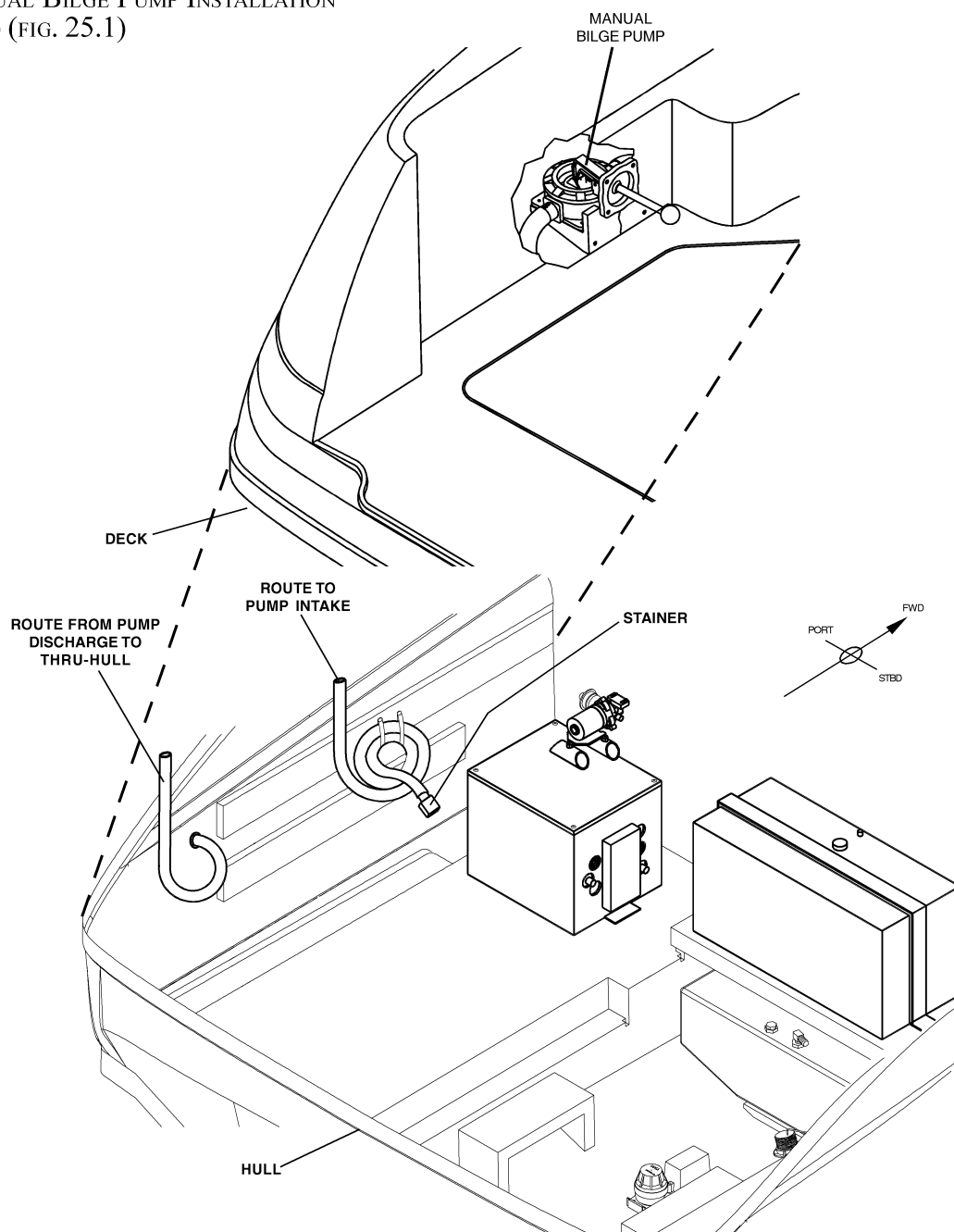


MANUAL BILGE PUMP (OPTION)

A manual bilge pump is permanently mounted under the starboard double helm seat and can be accessed by opening the access door and removing the seat

cushion. Take time to pull the six (6) meter flex hose out and familiarize yourself with the operation and access to bilge areas you have with the flex hose (see fig. 25.1). The manual pump discharge hose is routed to a thru-hull on the port side.

MANUAL BILGE PUMP INSTALLATION
(OPT) (FIG. 25.1)

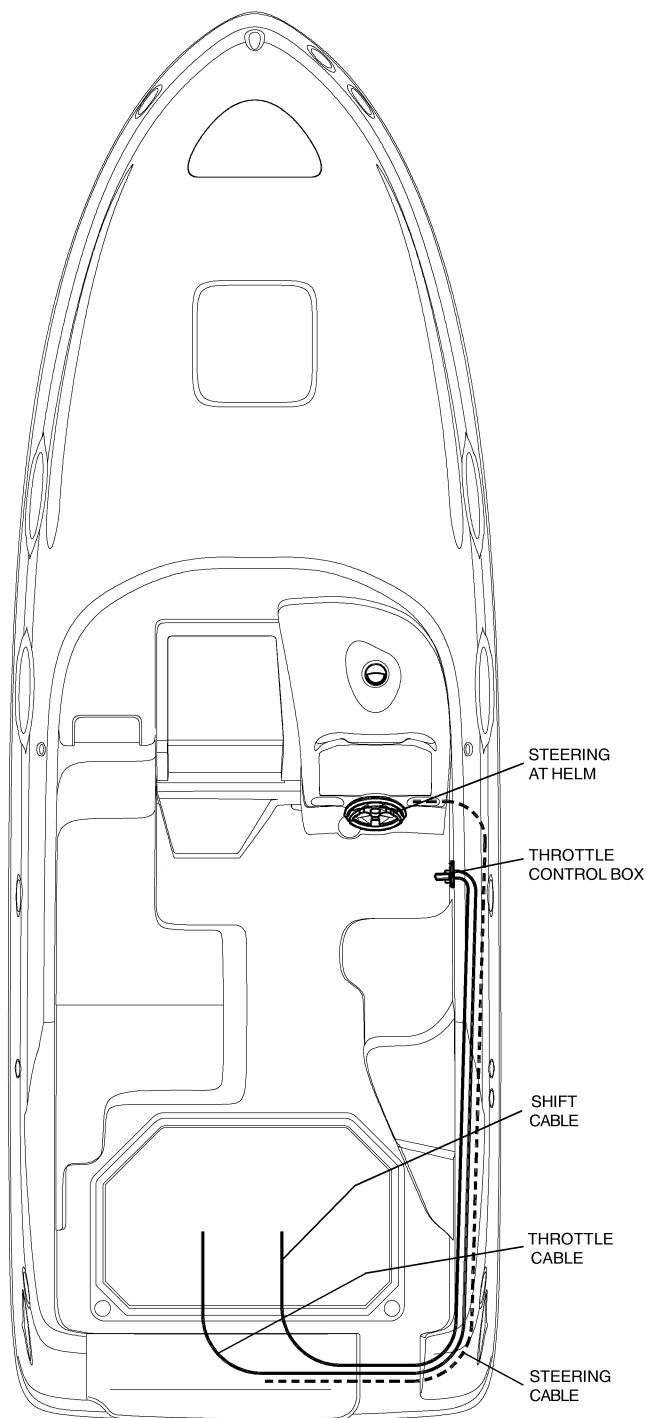


STEERING SYSTEM

This boat is equipped with standard power steering.

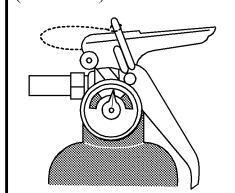
REFER TO THE ENGINE OWNER'S MANUAL IN THE OWNER'S PACKET FOR INSTRUCTIONS AND WARRANTY INFORMATION.

STEERING, THROTTLE AND SHIFT CABLE ROUTING
(FIG. 26.1)



FIRE EXTINGUISHING SYSTEM

(FIG. 27.1)



Your boat must be equipped with an approved fire extinguisher therefore you must follow the requirements below.

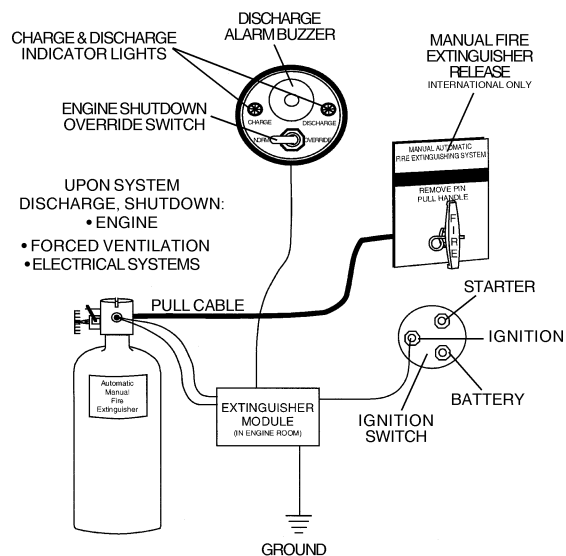
Following are United States Coast Guard (USCG) requirements and American Boat & Yacht Council (ABYC) recommendations for boats not equipped with the automatic fire extinguishing system option for open boats under 26' feet (4.9 meters).

Standard	Boat	Qty.	Type
USCG	240 DA	1	B1
ABYC	240 DA	2	B1

Location: Steering position and galley, or passenger cockpit.

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

AUTOMATIC FIRE EXTINGUISHING SYSTEM (DIESEL SYSTEM) (FIG. 27.3)

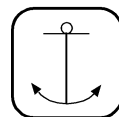


ENGINE COOLING SYSTEM

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

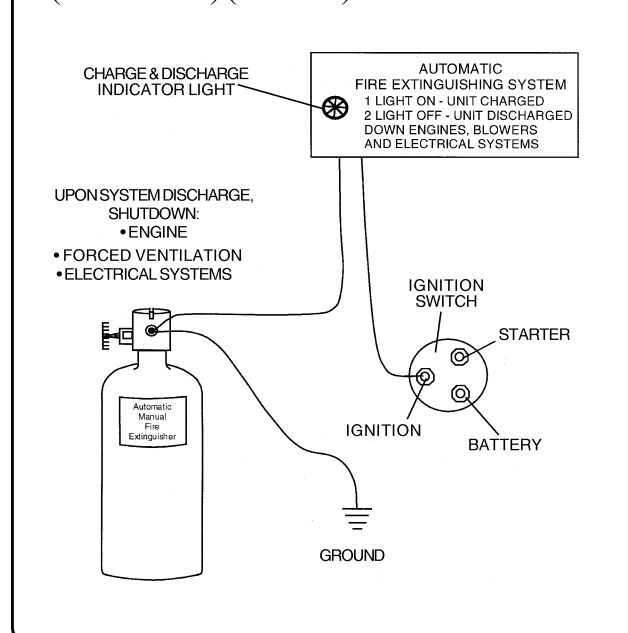
REFER TO THE ENGINE OWNER'S MANUAL FOR INSTRUCTIONS AND WARRANTY INFORMATION.

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. See Anchoring Section in the owner's manual General Information Section.

AUTOMATIC FIRE EXTINGUISHING SYSTEM (GAS SYSTEM) (FIG. 27.2)

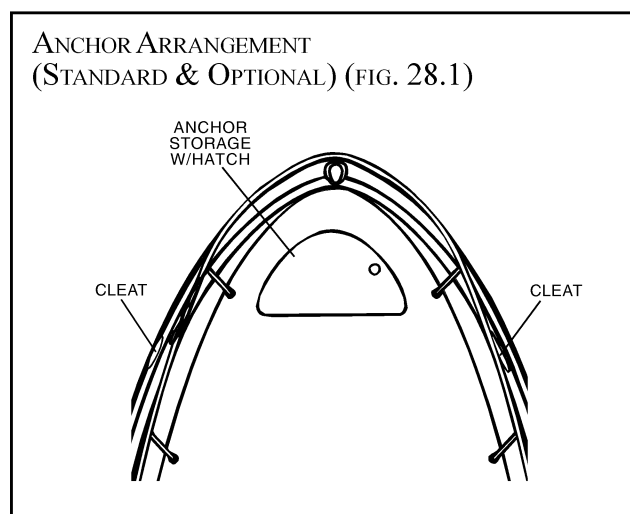


ANCHORING ARRANGEMENT

This sport boat is equipped with an anchor storage hatch. Stow the anchor in the anchor storage when not in use.

The boat is equipped with an anchor storage hatch. Inside the hatch is a drain and drainline.

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



CARBON MONOXIDE MONITOR

The carbon monoxide (CO) monitor is provided when the boat is equipped with gasoline engines and sleeping accommodations.

The CO monitor is an electronic instrument that detects CO. When a potential hazard exists, the monitor will alert the occupants by a flashing DANGER light and alarm.

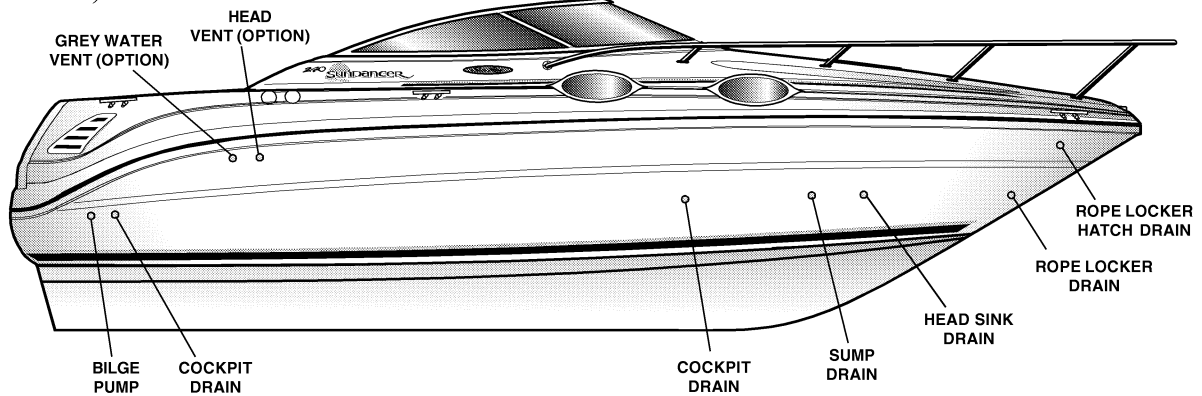
The monitor is mounted in the cabin and operates through a breaker located on the cabin DC distribution panel (see fig. 12.1).

It is extremely important that you become totally familiar with your CO monitor and its functions.

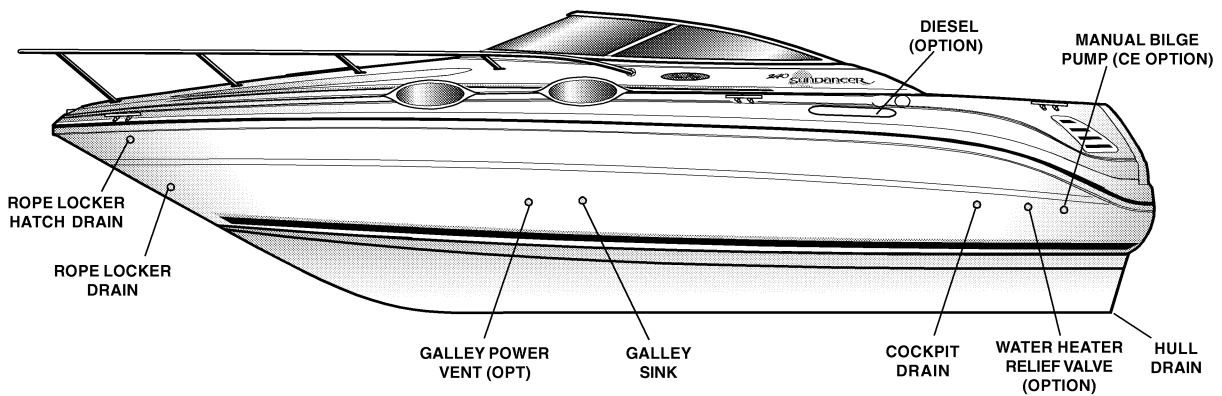
SEE THE OWNER'S HANDBOOK IN YOUR OWNER'S MANUAL PACKET FOR DETAILED INFORMATION AND OPERATING INSTRUCTIONS.

LOCATION OF THROUGH-HULL FITTINGS

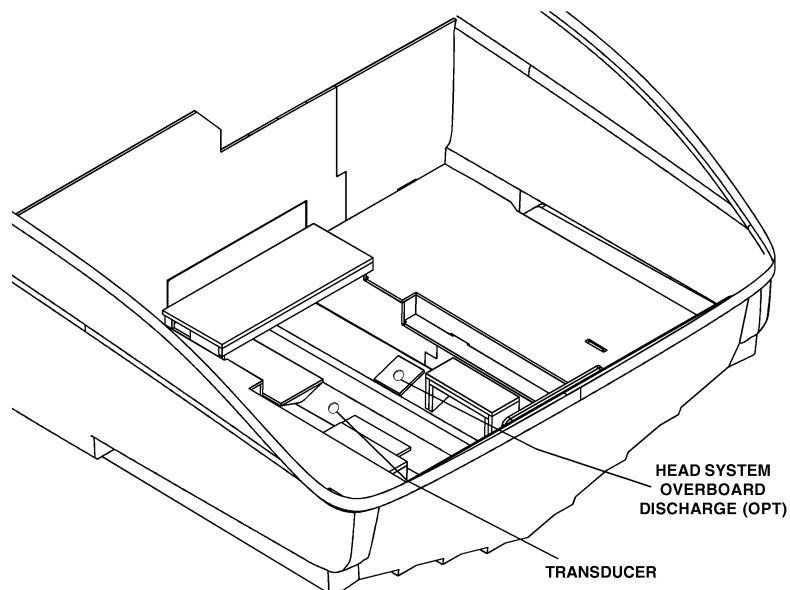
STARBOARD SIDE
(FIG. 29.1)



PORT SIDE
(FIG. 29.2)

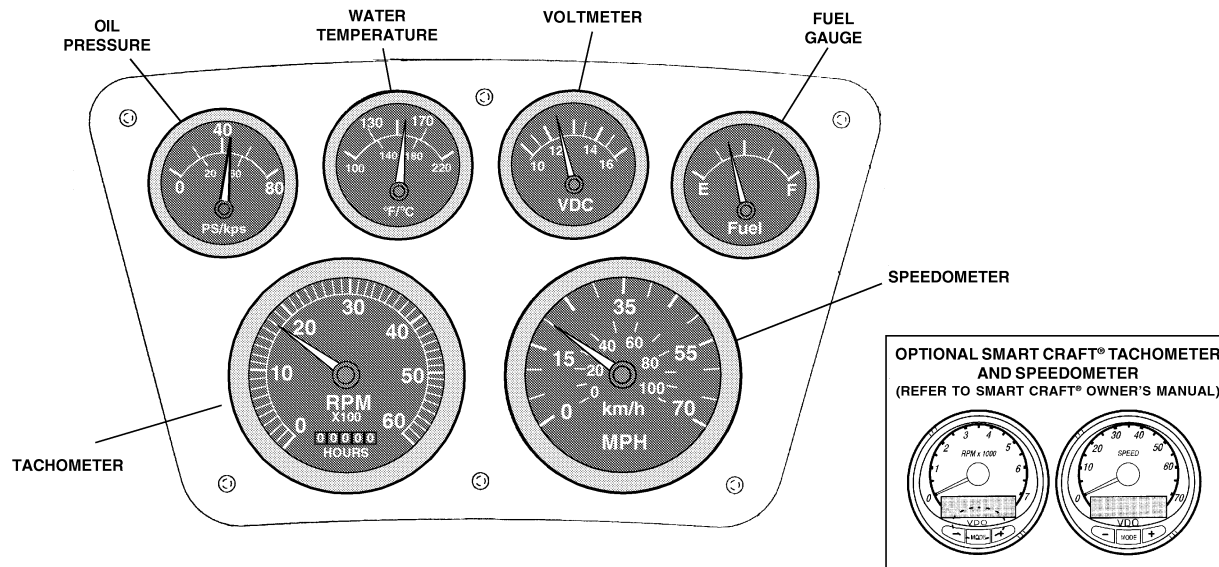


HULL CUTOUTS
(FIG. 29.3)

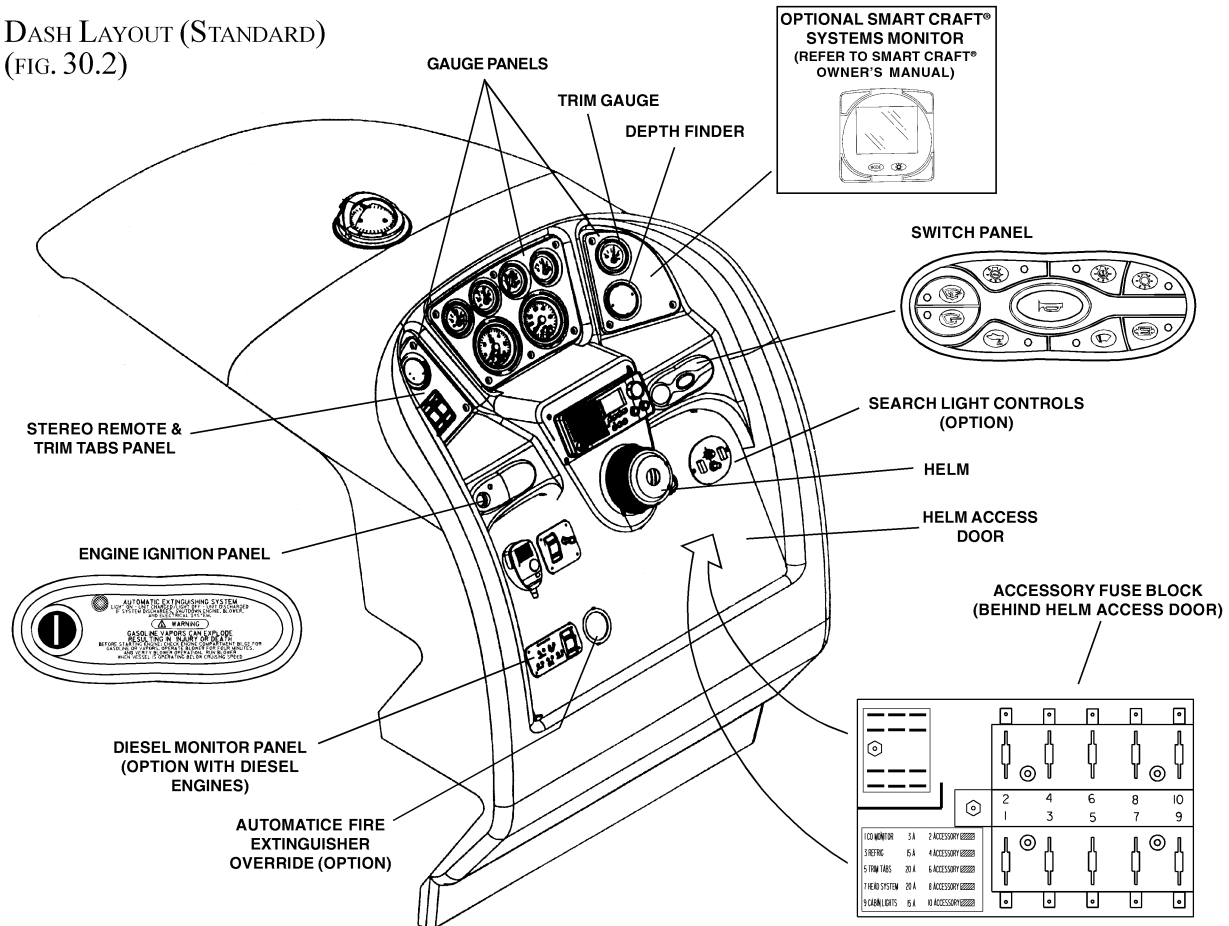


DASH LAYOUT

GAUGE PANEL (SHOWN WITH STANDARD GAUGES)
(FIG. 30.1)



DASH LAYOUT (STANDARD)
(FIG. 30.2)



CANVAS INFORMATION

CANVAS

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

Refer to the Owner's Manual General Information section. One area in particular is *Carbon Monoxide*. Read and understand the effects of carbon monoxide and how to ventilate your boat to prevent the build-up of this invisible gas.

Attached to the inside of the bimini top is a DANGER tag for Carbon Monoxide Gas (CO) buildup and a WARNING tag for excessive speeds while canvas is installed. The Aft Curtain also has a WARNING tag stating "The Aft Curtain is not designed to be used while engine is running or boat is underway". If your canvas does not have these tags, they become lost or are unable to be read, contact your dealer for replacement labels.

! DANGER
EXHAUST FUMES FROM ENGINES
CONTAIN DEADLY
CARBON MONOXIDE GAS (CO)
BOATS WITH CANVAS OR POOR
VENTILATION ARE MOST LIKELY TO
COLLECT FUMES. CO SICKNESS
SYMPTOMS INCLUDE HEADACHE,
NAUSEA AND DIZZINESS. DO NOT
MISTAKE FOR SEA SICKNESS.
VENTILATE BOAT. SEE BOAT OWNER'S
MANUAL FOR MORE DETAILS.

! WARNING
SUNSHADE SHOULD
NOT BE USED WHEN
VESSEL SPEED EXCEEDS
45 MPH

! WARNING
THE AFT CURTAIN IS NOT
DESIGNED TO BE USED
WHILE ENGINE IS RUNNING
OR BOAT IS UNDERWAY

The Canvas manufacturer has provided the canvas piece name, and position on each canvas piece with a sewn on white label. Do not remove these tags. They will help you with identification and position for easier installation procedures.

It is recommended you decide which canvas pieces you want to remove or install before you leave the boat slip or off load your boat from the trailer into the water. Removing or installing canvas on the water could be difficult as not all water conditions allow for your stability while attempting removal or installation.

Your Sea Ray® boat standard canvas set consists of the following pieces:

Canvas Package:
Sunbrella® Bimini
Top and Boot

Canvas options available consist of the following pieces:

Canvas Package:

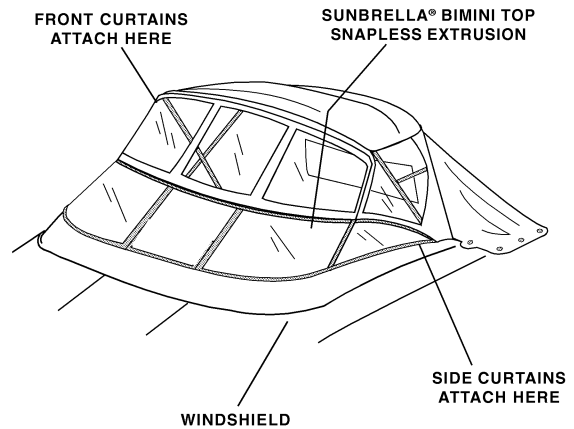
Bimini Aft Curtain
Canvas Storage Bag
Side Curtains
Front Curtains

Canvas Package:

Camper Aft Curtain
Canvas Storage Bag
Side Curtains
Front Curtains
Cockpit Cover

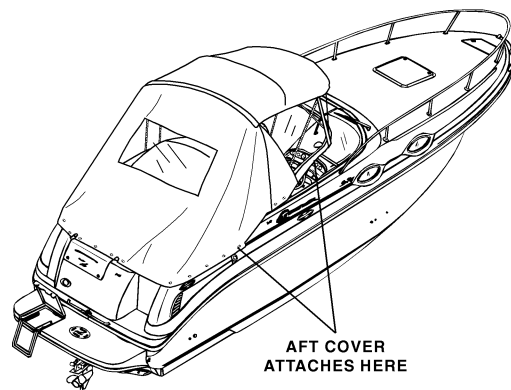
Sport Cruiser Canvas Placement

(Note: Your Sport Boat May Not Be Equipped With All Of The Canvas Shown)
(fig. 31.1)



Cockpit Cover Package (Opt):

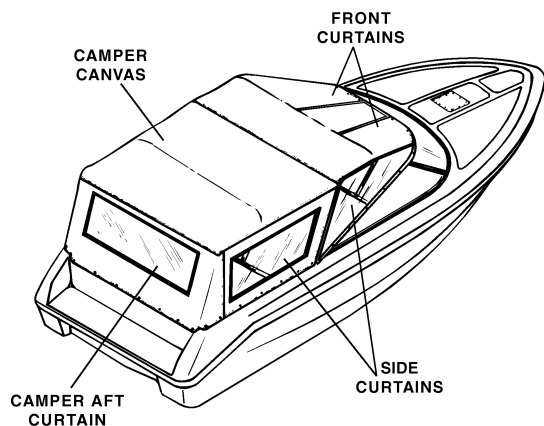
(Note: Your Sport Boat May Not Be Equipped With All Of The Canvas Shown)
(fig. 31.2)



Camper Canvas Package (Opt):

(Note: Your Sport Boat May Not Be Equipped With All Of The Canvas Shown)

(fig. 32.1)



Storage:

- **Do not fold or store any of the canvas set pieces while wet.** All canvas should be rolled or folded when dry and stored in a clean, dry place.
- For clear vinyl pieces, the recommended methods for storage are rolling or laying down flat. The clear vinyl should never be folded or creased as cracking will result. To protect the clear vinyl from rubbing against itself while rolled or stored flat, place a piece of very soft, non abrasive cloth between the pieces. If the surface of the clear vinyl becomes scratched, the canvas manufacturer has provided a canvas care sheet located in your Owner's Manual Packet.
- When storing the aft curtain, fold the canvas over the clear vinyl window (do not fold clear vinyl), then roll or store flat.

CANVAS CARE & MAINTENANCE

The fabric should be cleaned regularly before substances such as dirt, pollen, etc. are allowed to accumulate on and become embedded in the fabric. The fabric can be cleaned without being removed from the installation. Simply brush off any loose dirt, particles, etc.; hose down and clean with a mild solution of a natural soap in lukewarm water (no more than 100° F., 38° C) Rinse thoroughly to remove soap. **DO NOT USE DETERGENTS.** Allow to completely air dry.

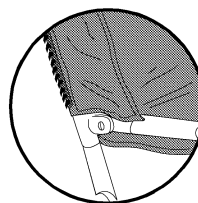
If you have stubborn cleaning cases, call your dealer for proper procedures. Do not try your own cleaning procedures as they may void any warranties.

After each use, especially in salt water areas, rinse the canvas completely with fresh cold water. Then let the canvas dry completely before stowing.

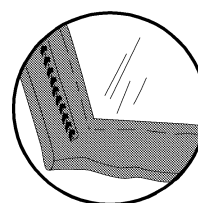
All metal components of the canvas set should be rinsed with fresh cold water and exposed components wiped dry to maintain appearance and working order.

INSTALLATION TIPS:

- **Zippers**
are located on each canvas piece. Make sure canvas is centered over bows. When attaching any canvas piece, zip the zippers only partially. This helps to hold the piece in place and relieves tension, helping the other sides zip or snap easier. After all the sides of the piece are secure, finish zipping all the zippers. This will ensure a tight fit.
- **Adjustable Support Poles**
are located on the Convertible and Bimini Top. Take time to look at the adjustable support poles to see how they work. There is an outside tube and an inside tube. The button requires pushing in to enable the tubes to adjust to longer or shorter setting.



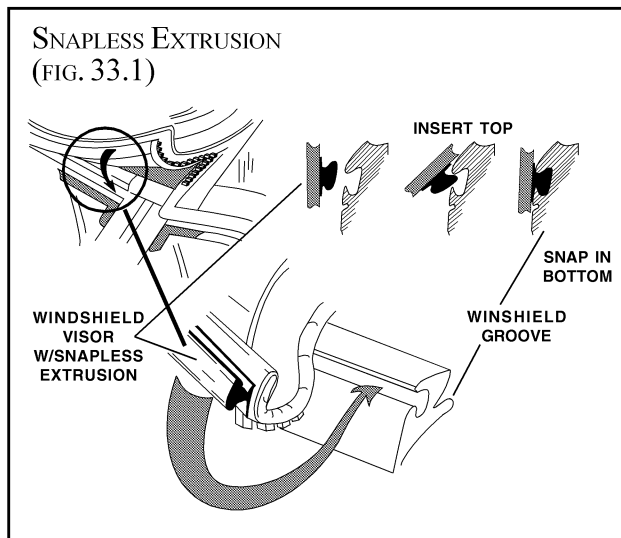
Zipper On Canvas
(fig. 32.2)



Zipper On Window
(fig. 32.3)

- **Windshield Snapless Extrusion**

The snapless extrusion designed by Sea Ray® eliminates the need for snaps and provides a superb water barrier at the windshield frame area. On the bottom edge of the Windshield Visors and Side Curtains you will notice the snapless rubber extrusion. The extrusion fits into the top of the windshield frame. See the illustration for proper installation of the snapless extrusion into the windshield frame. To ease the installation of the extrusion, remember to partially zip the Windshield Visor and Side Curtains to relieve tension.



It is recommended for safety and ease of installation that two (2) or more people are available to install or remove the canvas set. Take time to familiarize yourself with the canvas piece(s) that you are to install or remove.



WARNING

Bimini Top should not be used when the vessel speed exceeds 45 MPH. DO NOT have Bimini Top installed when trailering. Use Cockpit cover ONLY when trailering.

TRAILERING WITH CANVAS

You may trailer your boat with the cockpit cover installed, however, a mooring cover must be installed over boat with tie down straps secure. The bimini top, side curtains and aft cover must be removed when trailering. Damage will occur to canvas and bows or boat if attached to boat while trailering.

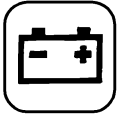


WARNING

To Avoid Entrapment Of Carbon Monoxide Gas, Remove Aft Cover or Camper Top Canvas Before Starting Engine and Operating Vessel .

ELECTRICAL INSTALLATION

BATTERY



Refer to the owner's manual for battery disconnect and maintenance. When replacing a battery refer to your engine operation and maintenance manual to find the recommended battery for the engine installed in your boat.

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.



CAUTION

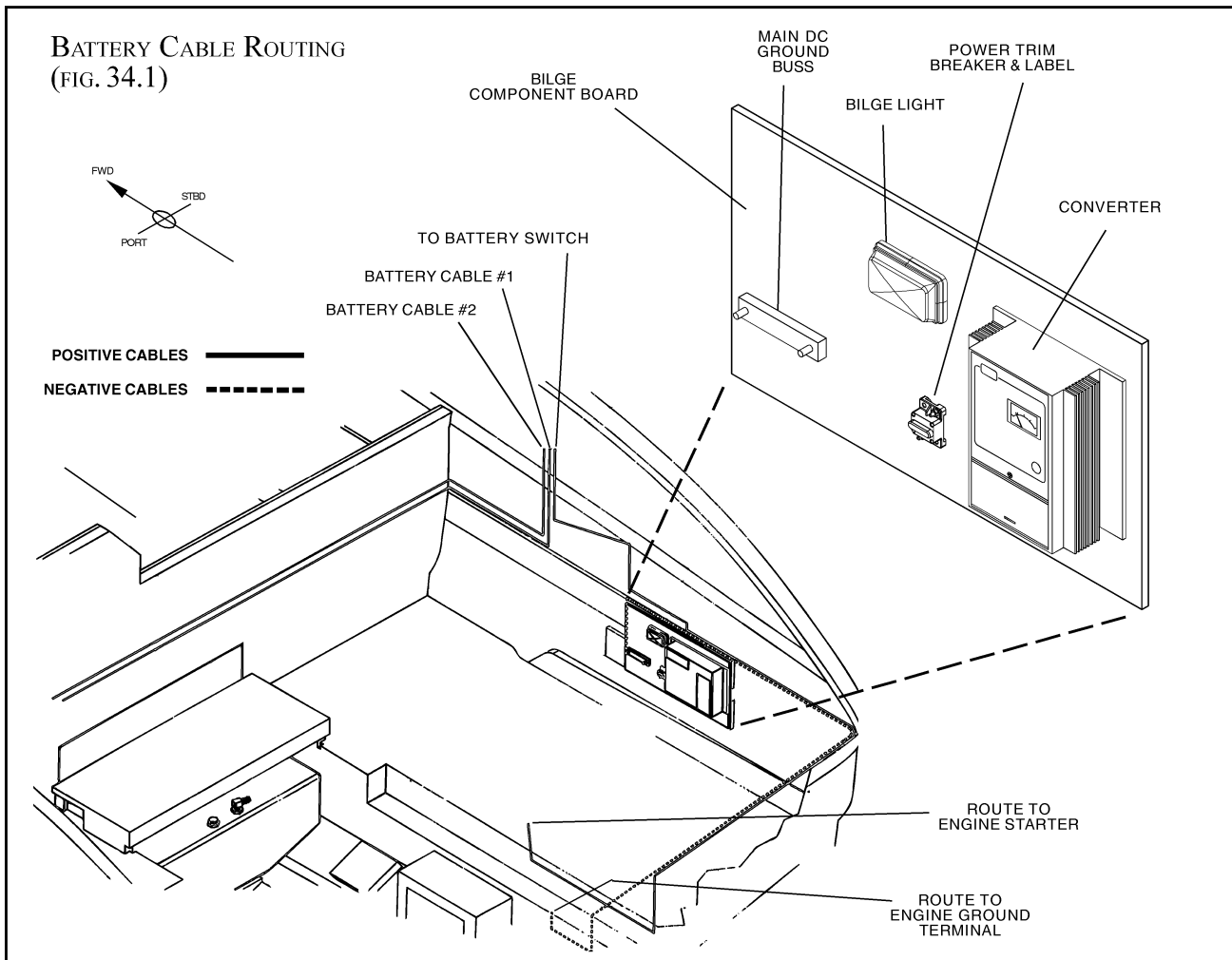
While the engine is running the battery terminal clamps must not be loosened or detached nor should the battery switch(es) be turned off, otherwise the alternator and other electronic units will be damaged.



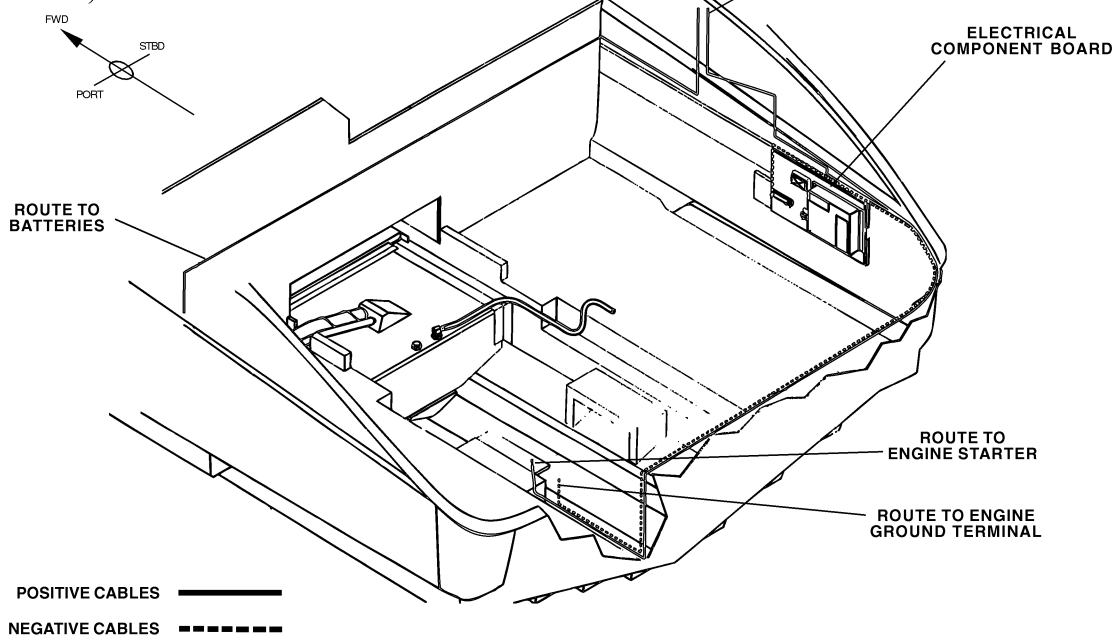
DANGER

- 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.

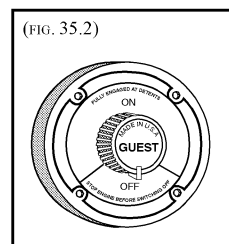
BATTERY CABLE ROUTING
(FIG. 34.1)



BATTERY CABLE ROUTING WITH VOLVO ENGINE OPTION (FIG. 35.1)



BATTERY SWITCH



Your boat maybe equipped with an optional battery switch(es). It would be located in the cockpit entertainment compartment. See figure 23.2 for exact location. The battery switch controls the delivery of DC loads, as well as allowing the engine alternator to charge the batteries.

NOTE: The bilge pumps, and stereo memory CANNOT be turned OFF with the battery switch. The entire remaining DC system CAN be turned OFF with the battery switch.

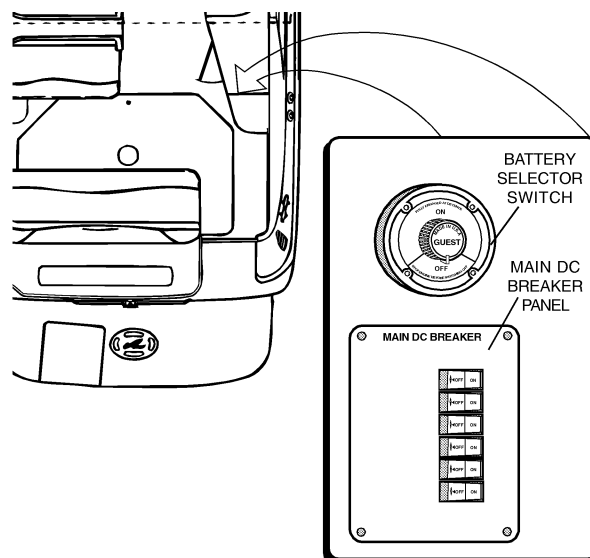
CAUTION

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.

CAUTION

Always stop engine before changing switch position.

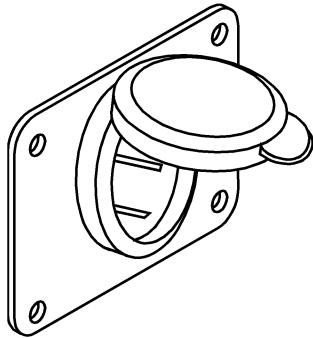
BATTERY SWITCH (FIG. 35.3)



12 VOLT RECEPTACLE

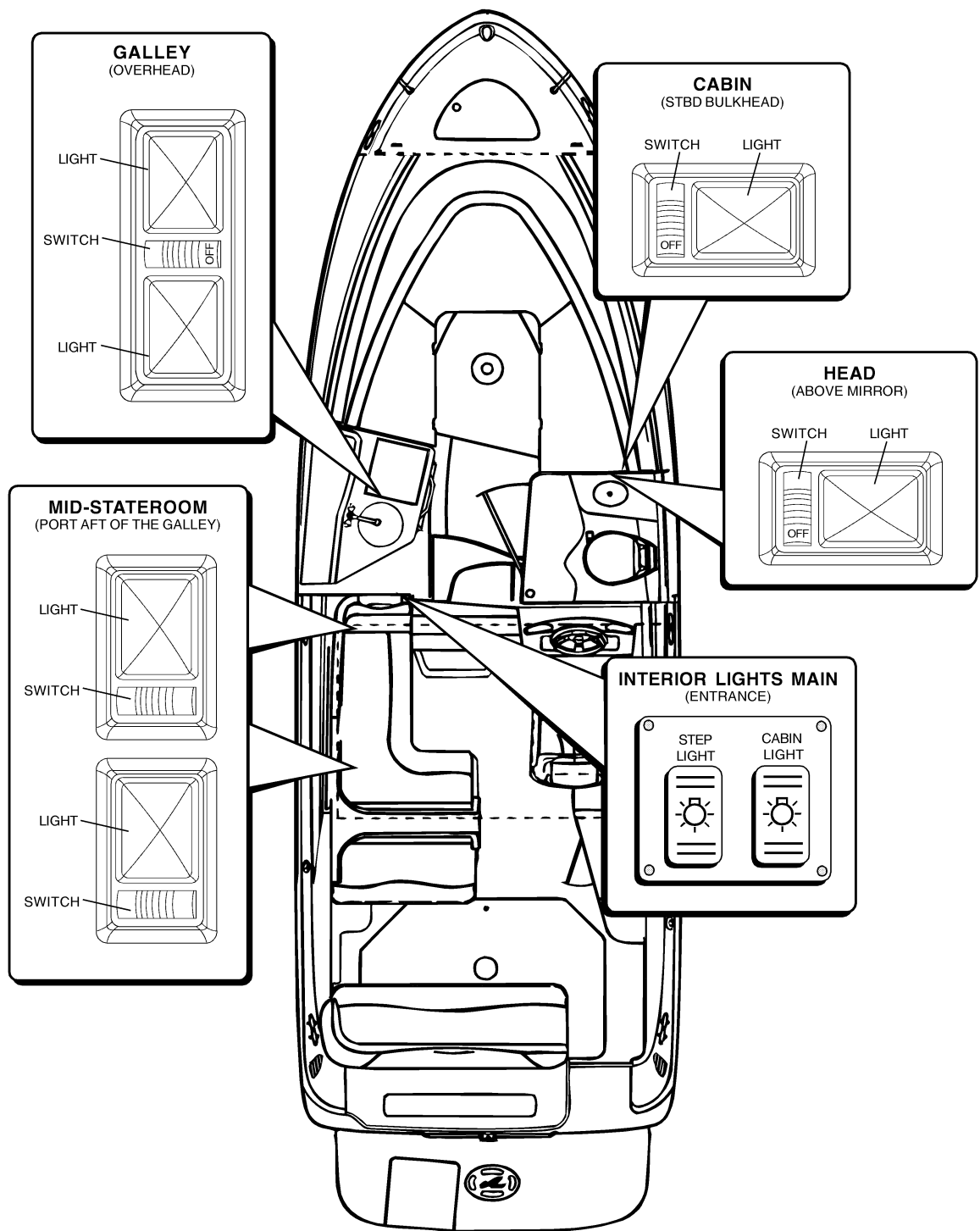
This boat is equipped with a 12 volt power receptacle under the dash & in the galley. Use this receptacle to power a 12 volt spot light, phone charger or any other 12 volt device.

12 VOLT RECEPTACLE
(FIG. 36.1)



CABIN & COCKPIT SWITCH LOCATION & FUNCTION

(FIG. 37.1)



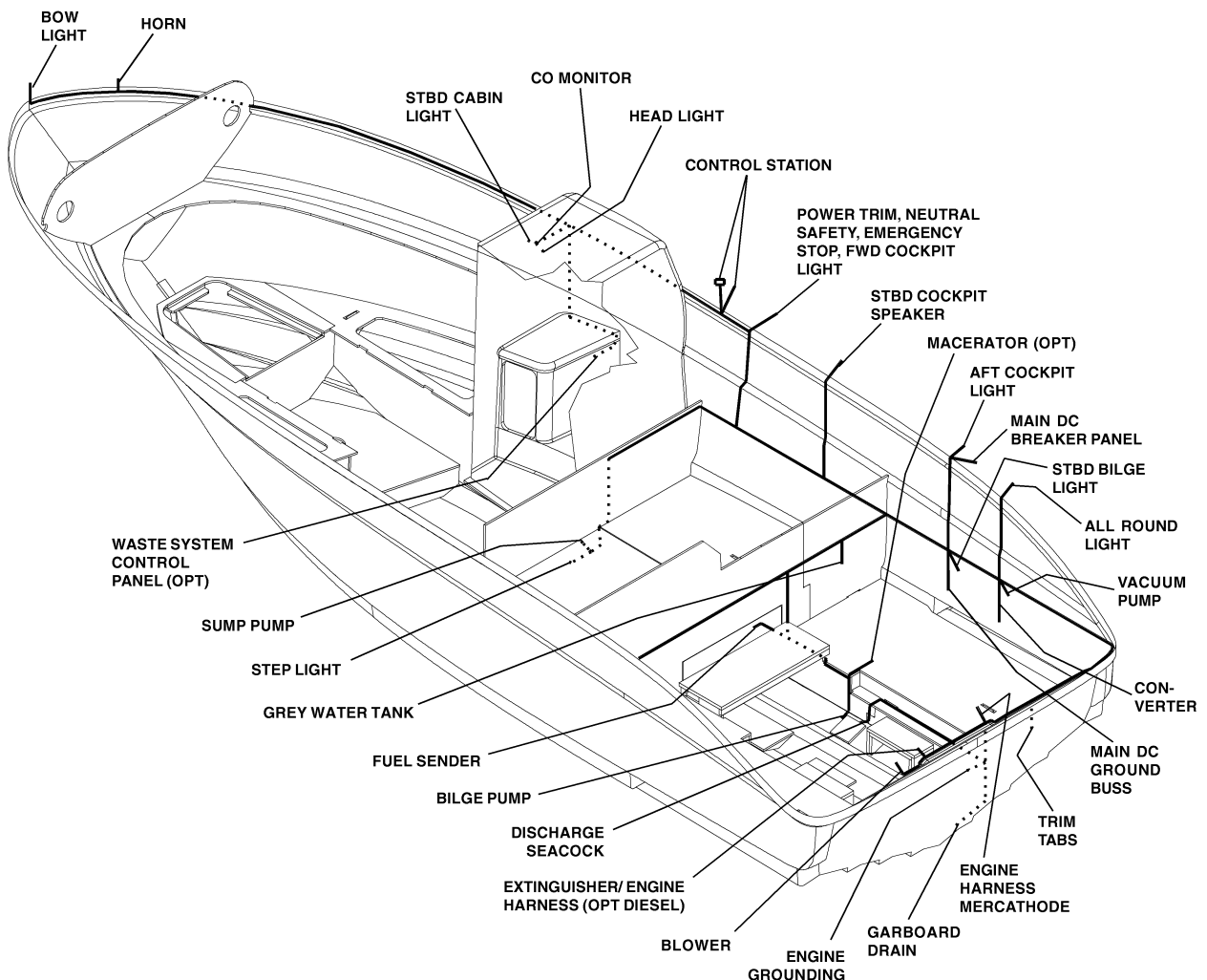
WIRE HARNESS INSTALLATION

ELECTRICAL INSTALLATION

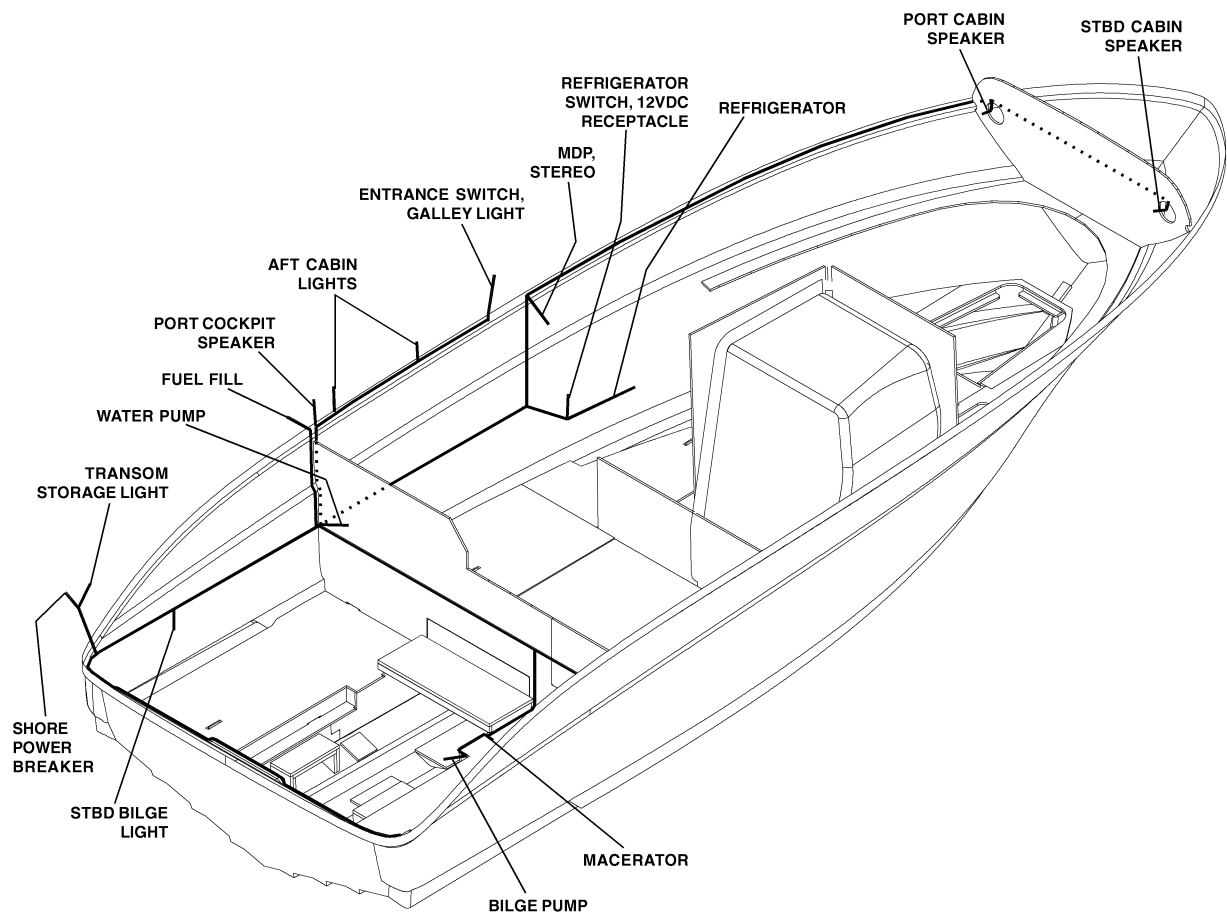
This owner's manual supplement contains electrical schematics for your boat. These electrical schematics were generated by technicians at the engineering division for technical reference and service technicians. Sea Ray® does not recommend that you attempt to work on the boat's electrical system yourself, 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.

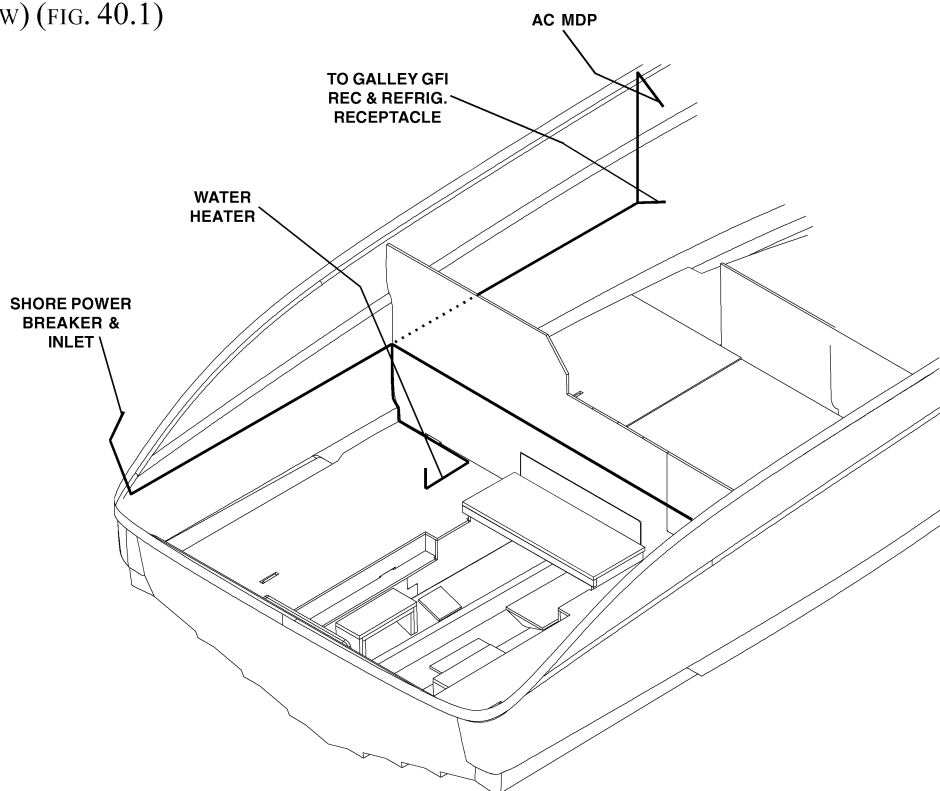
(FIG. 38.1)



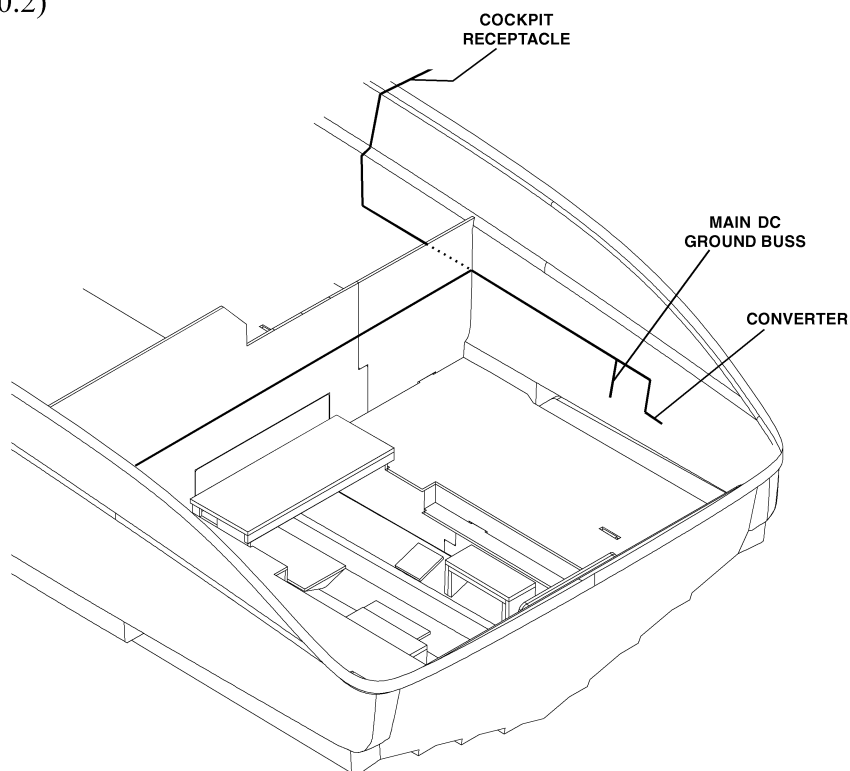
(FIG. 39.1)



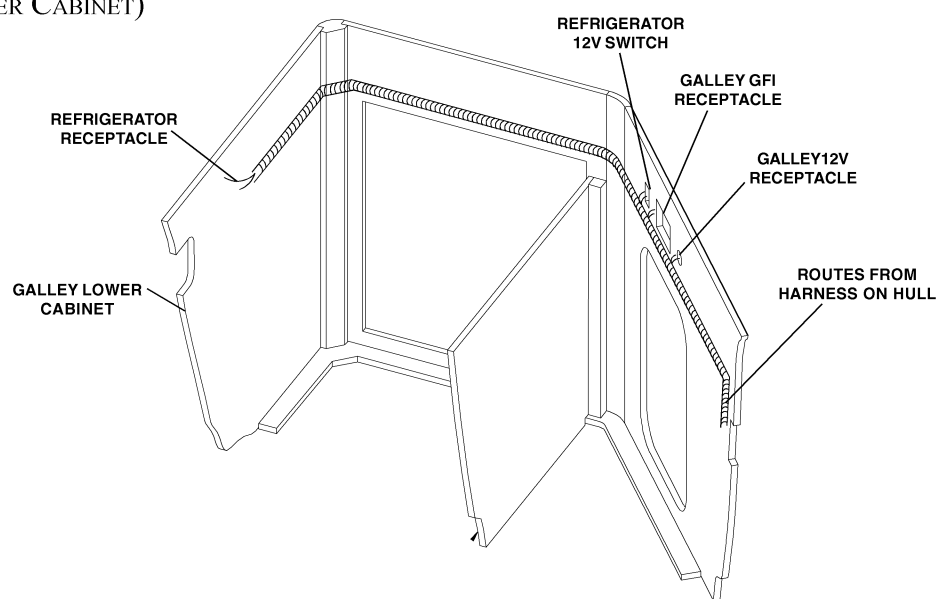
AC WIRE HARNESS INSTALLATION
(PORT VIEW) (FIG. 40.1)



AC WIRE HARNESS INSTALLATION
(STBD VIEW) (FIG. 40.2)

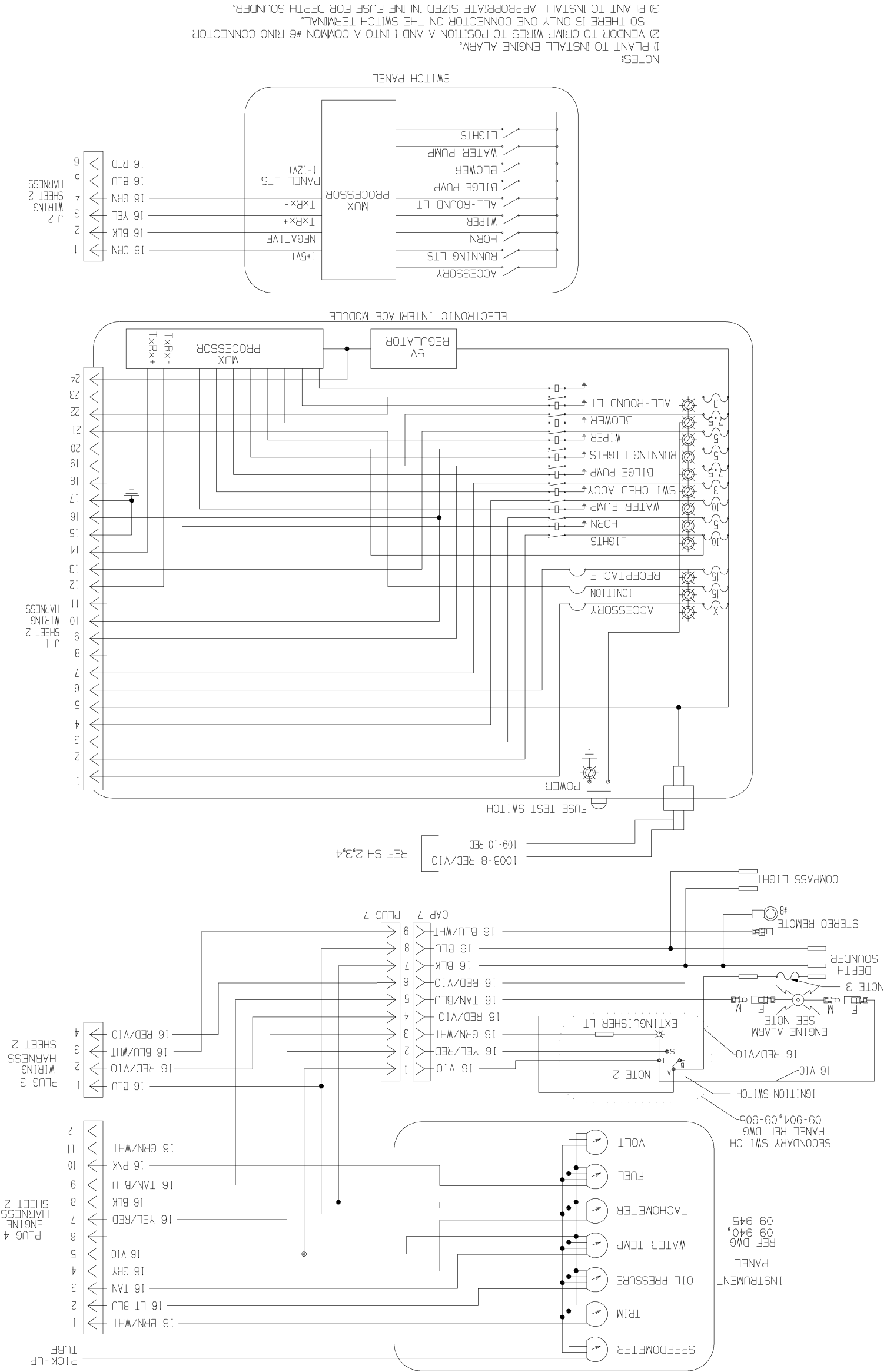


AC WIRE HARNESS INSTALLATION
(GALLEY LOWER CABINET)
(FIG. 41.1)



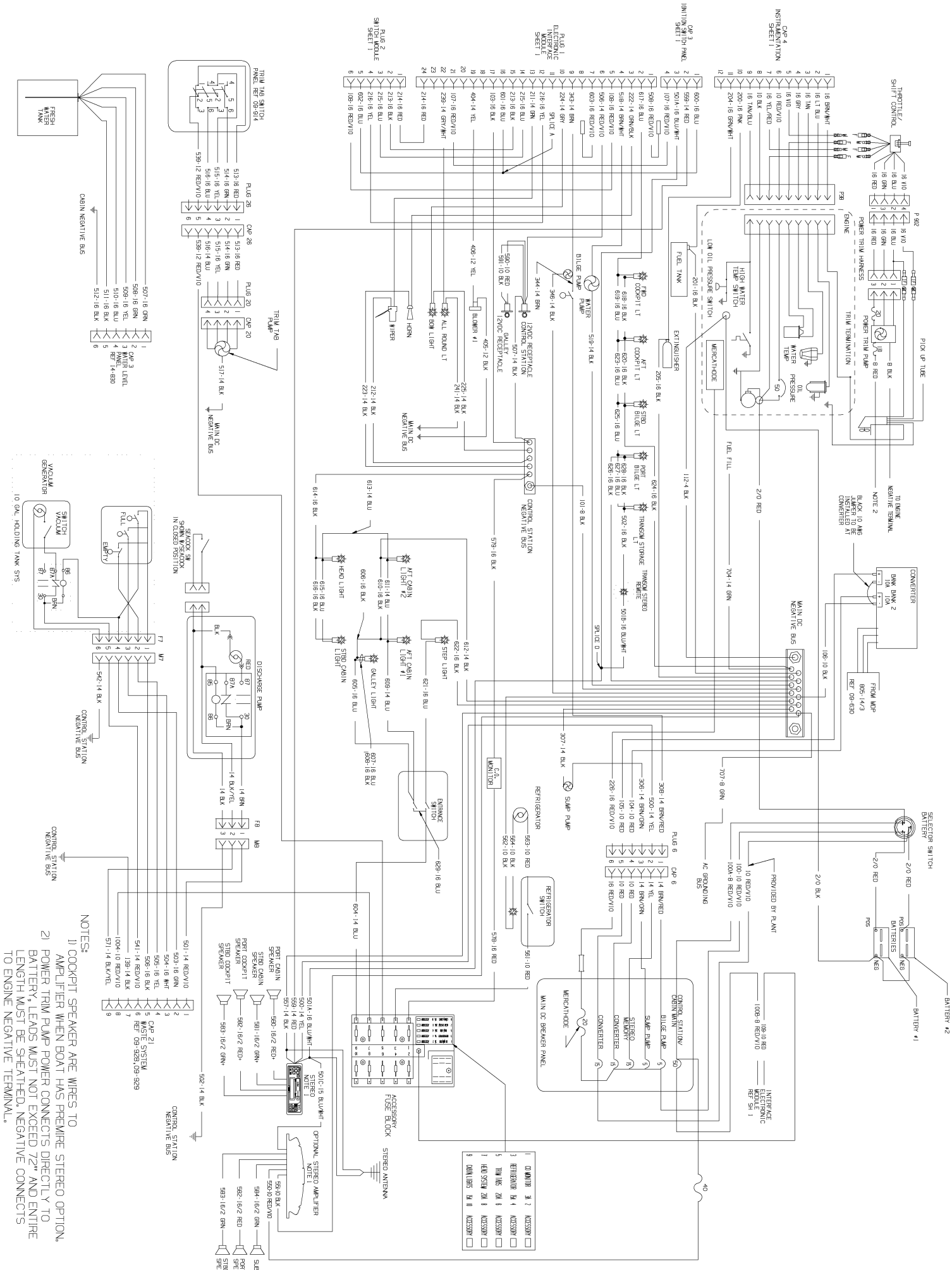
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240 DA • DC Wiring Schematic

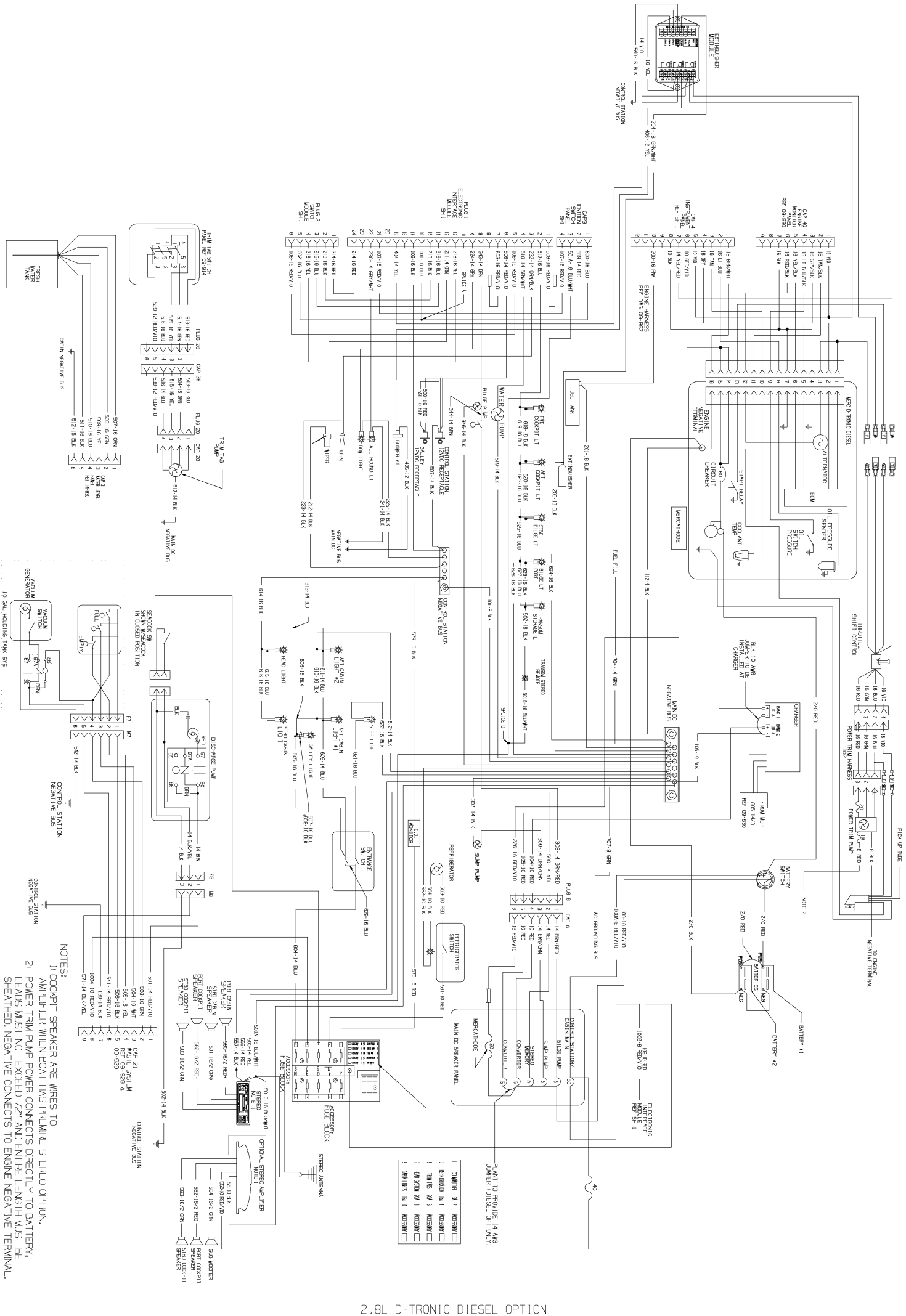


NOTES:
1) PLANT TO INSTALL ENGINE ALARM,
2) VENDOR TO CRIMP WIRES TO POSITION A AND I INTO A COMMON #6 RING CONNECTOR
SO THERE IS ONLY ONE CONNECTOR ON THE SWITCH TERMINAL.
3) PLANT TO INSTALL APPROPRIATE SIZED INLINE FUSE FOR DEPTH SOUNDER.

240 DA • DC Wiring Schematic

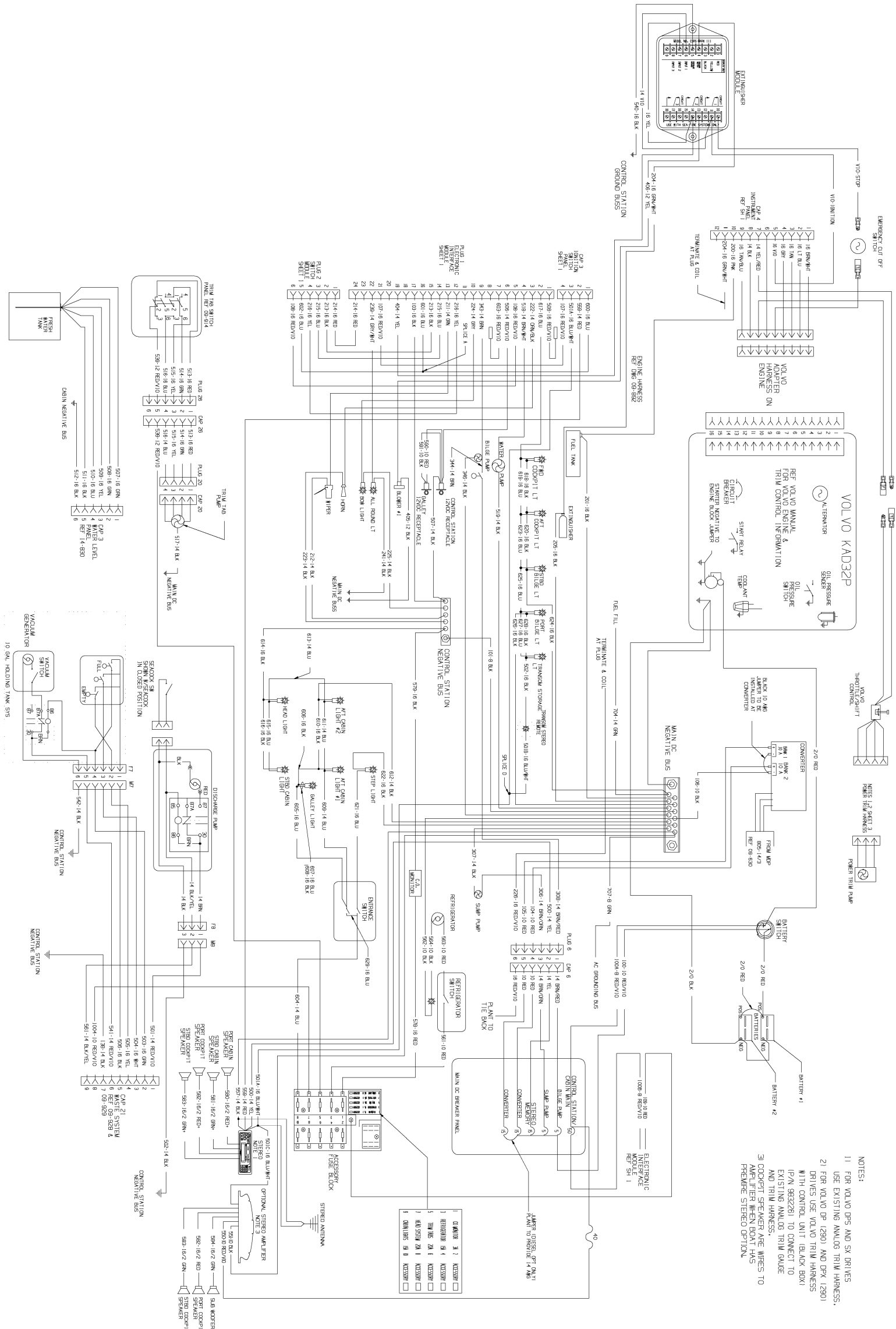


240 DA • DC Wiring Schematic



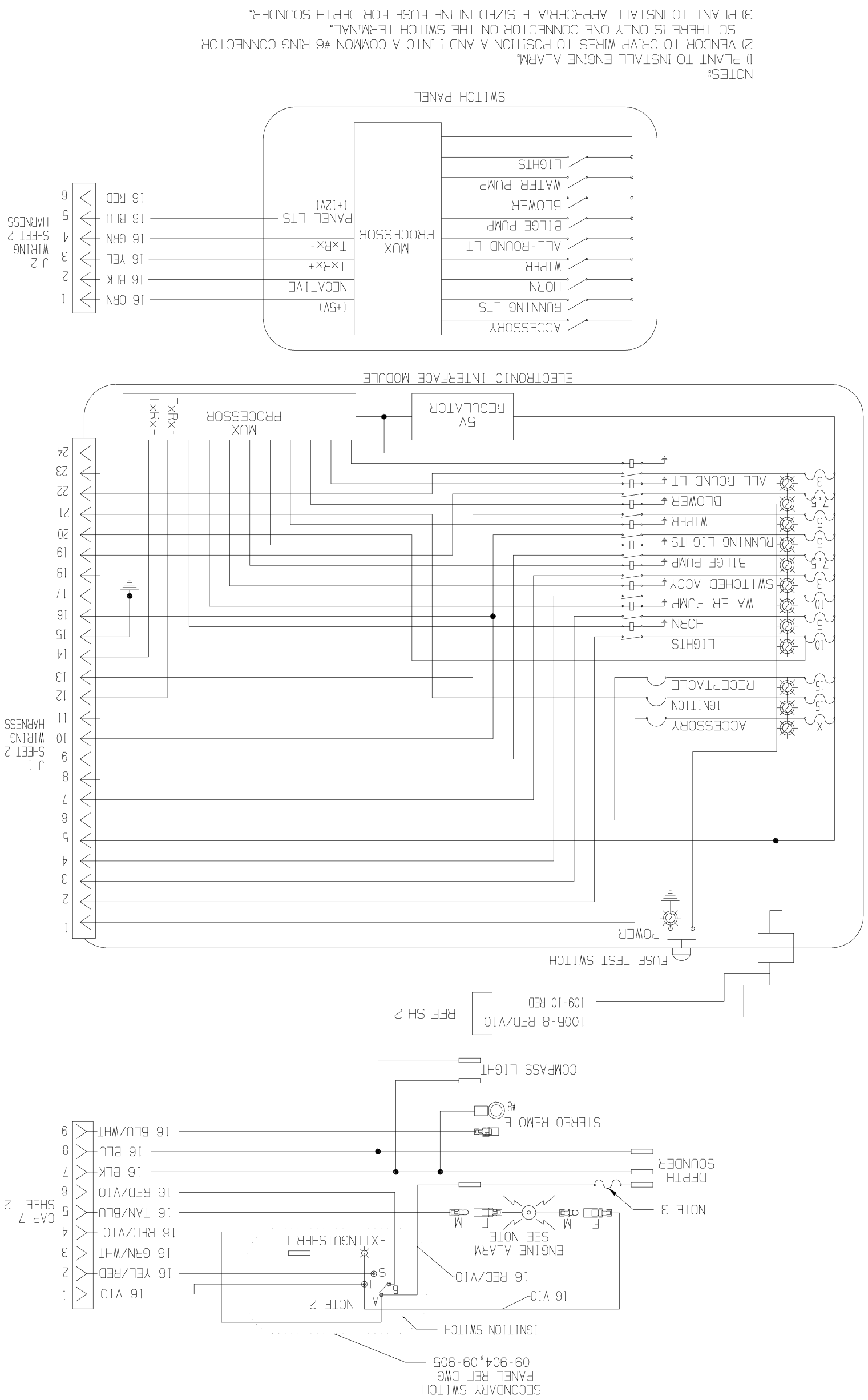
2.8L D-TRONIC DIESEL OPTION

240 DA • DC Wiring Schematic



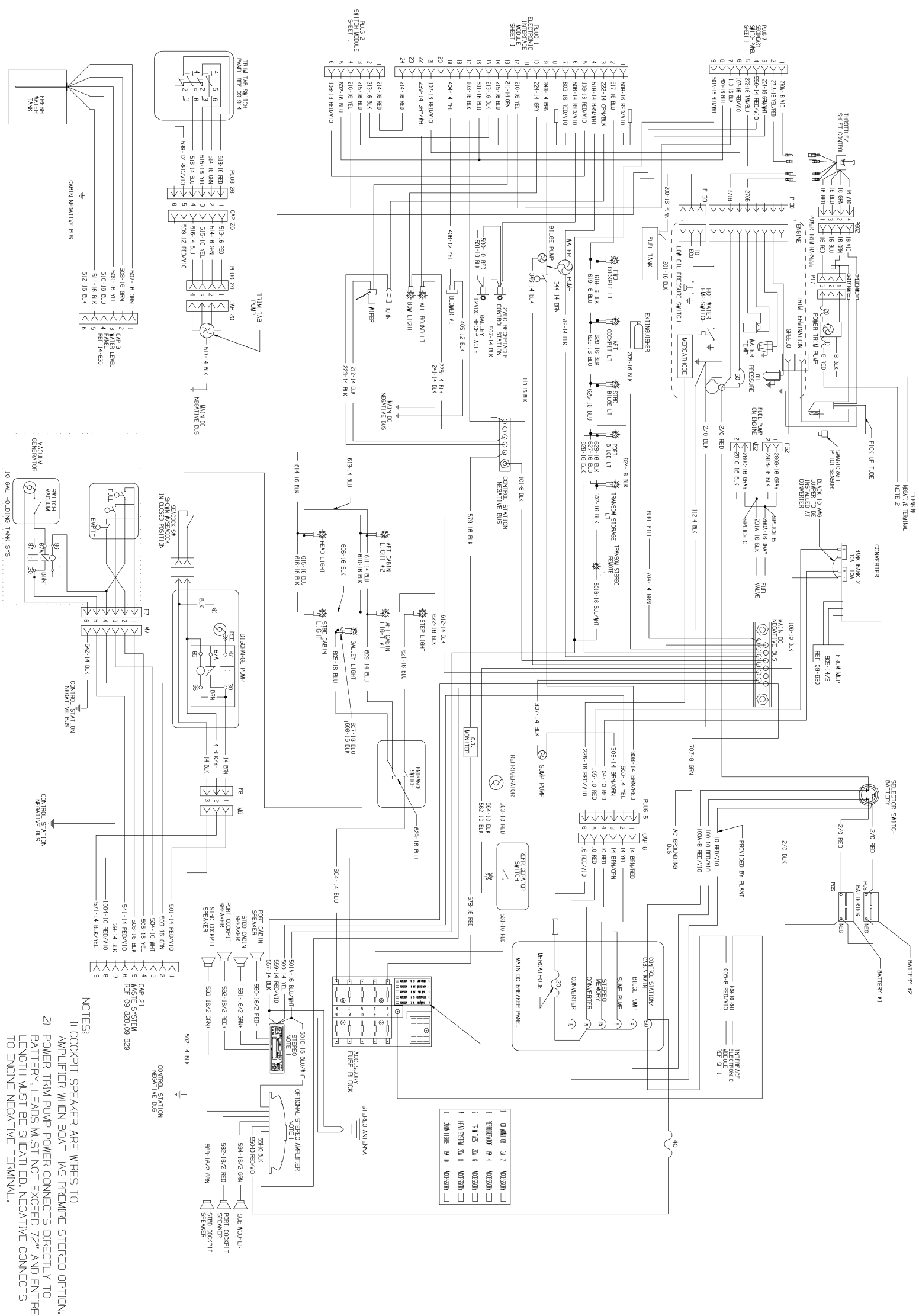
VOLVO KAD32P OPTION

240 DA • DC Wiring Schematic (Smart Craft Option)



Print #09-602, 1 of 2, REVISION #0

240 DA • DC Wiring Schematic (Smart Craft Option)

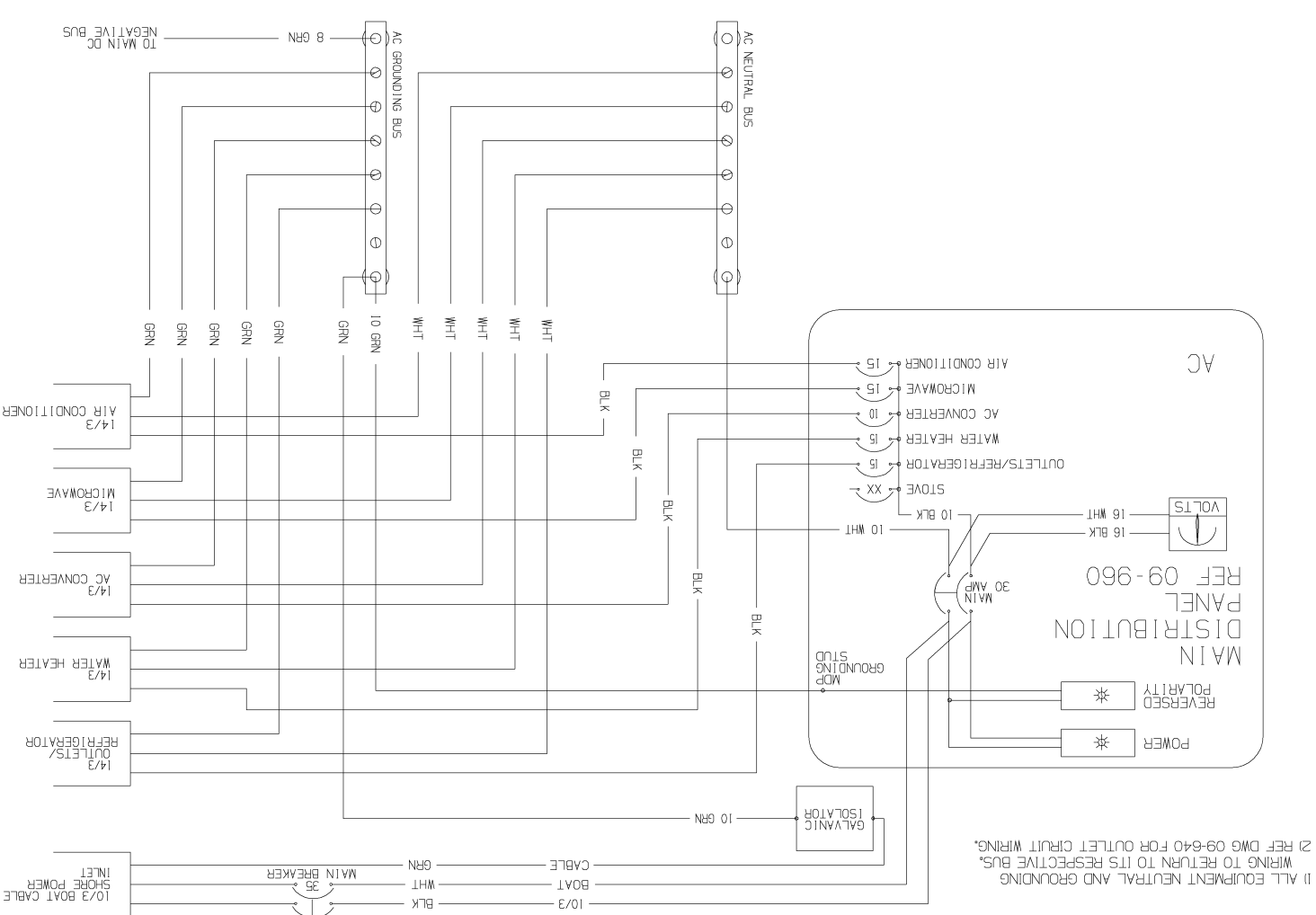


NOTES:

- 1) COCKPIT SPEAKER ARE WIRES TO AMPLIFIER WHEN BOAT HAS PREMIERE STEREO OPTION.
- 2) BATTERY TRIM PUMP POWER CONNECTS DIRECTLY TO BATTERY, LEADS MUST NOT EXCEED 72" AND ENTIRE LENGTH MUST BE SHEATHED. NEGATIVE CONNECTS TO ENGINE NEGATIVE TERMINAL.

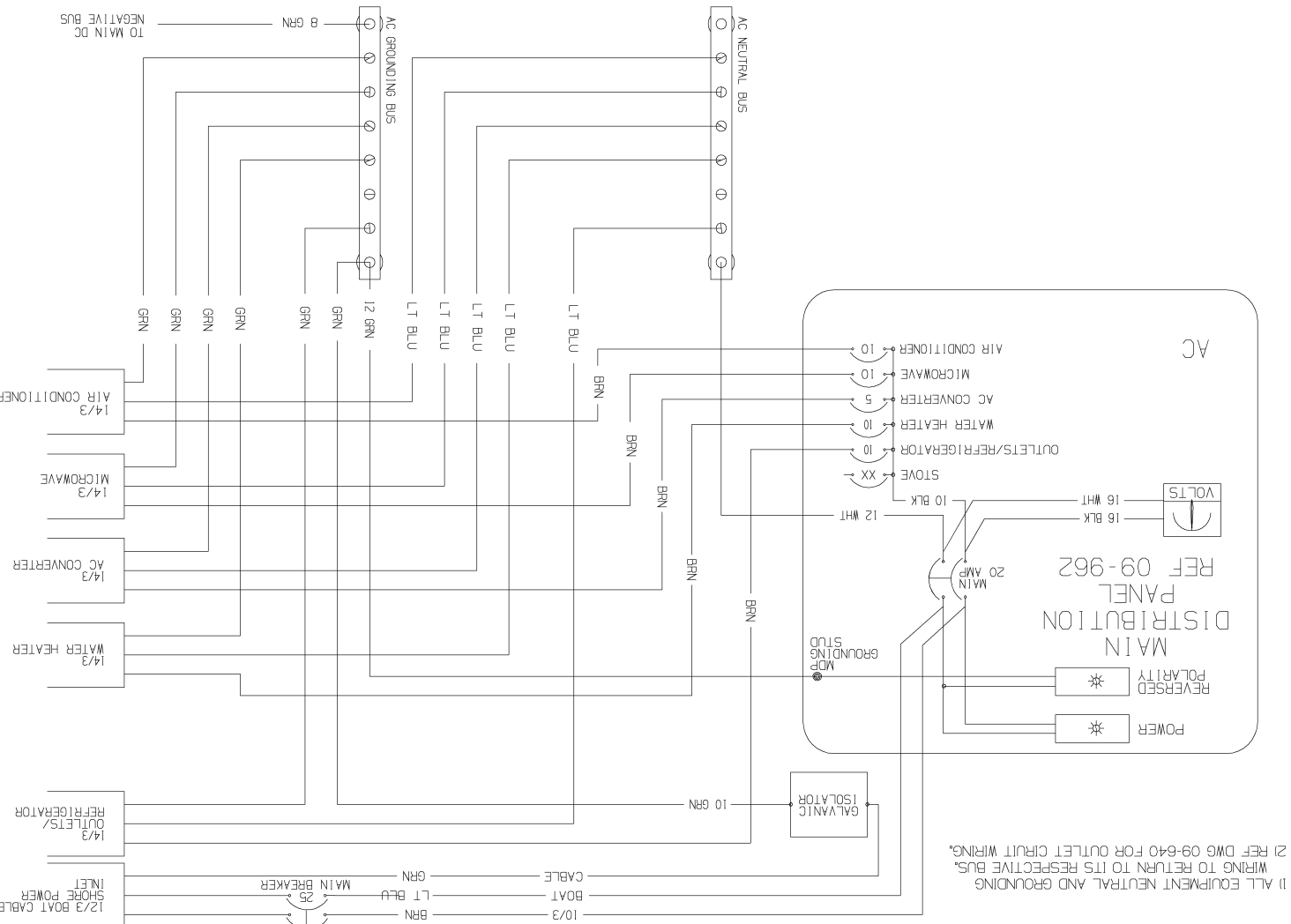
240 DA • MDP Wiring Diagram

(120Vac)

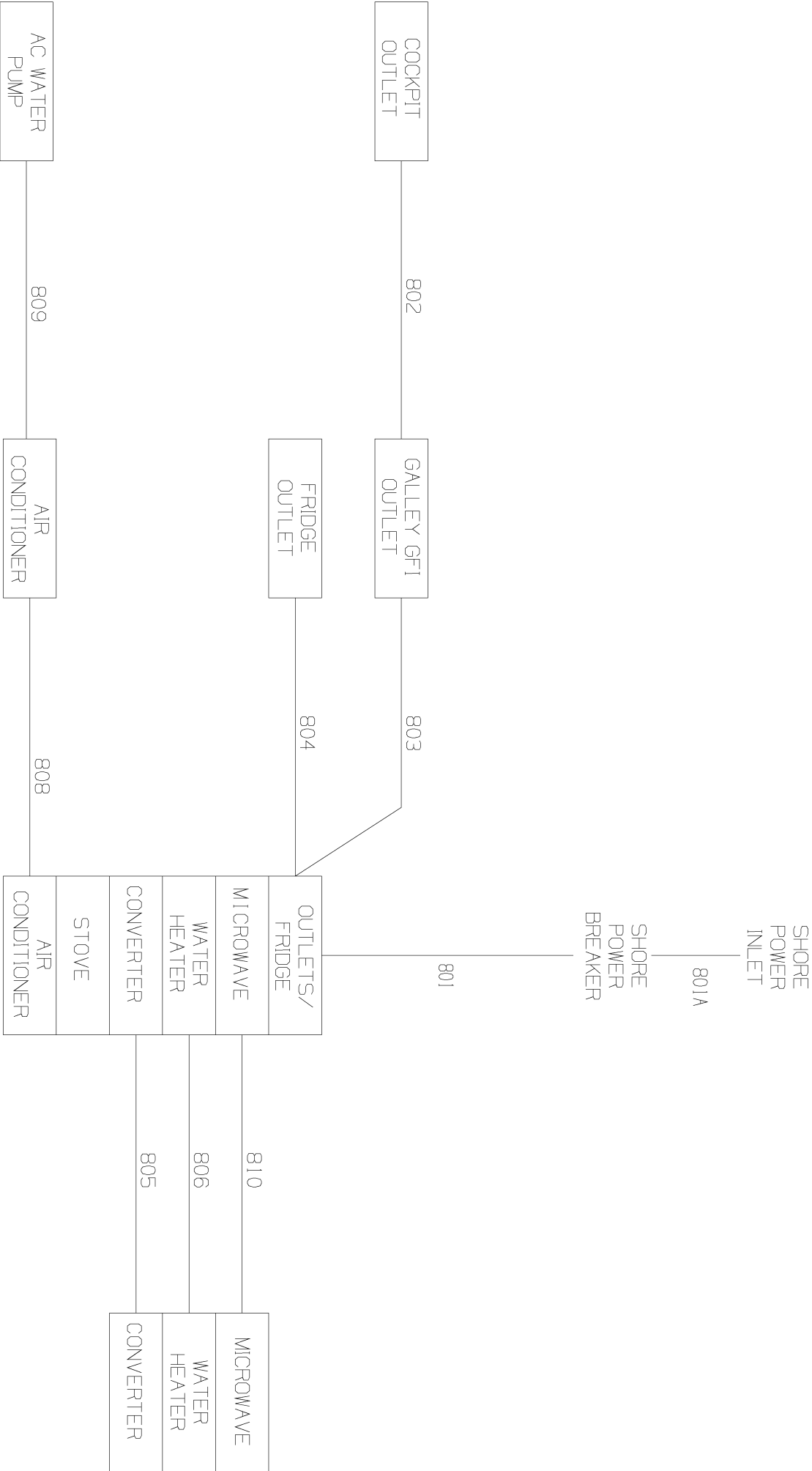


240 DA • AC Wiring Diagram

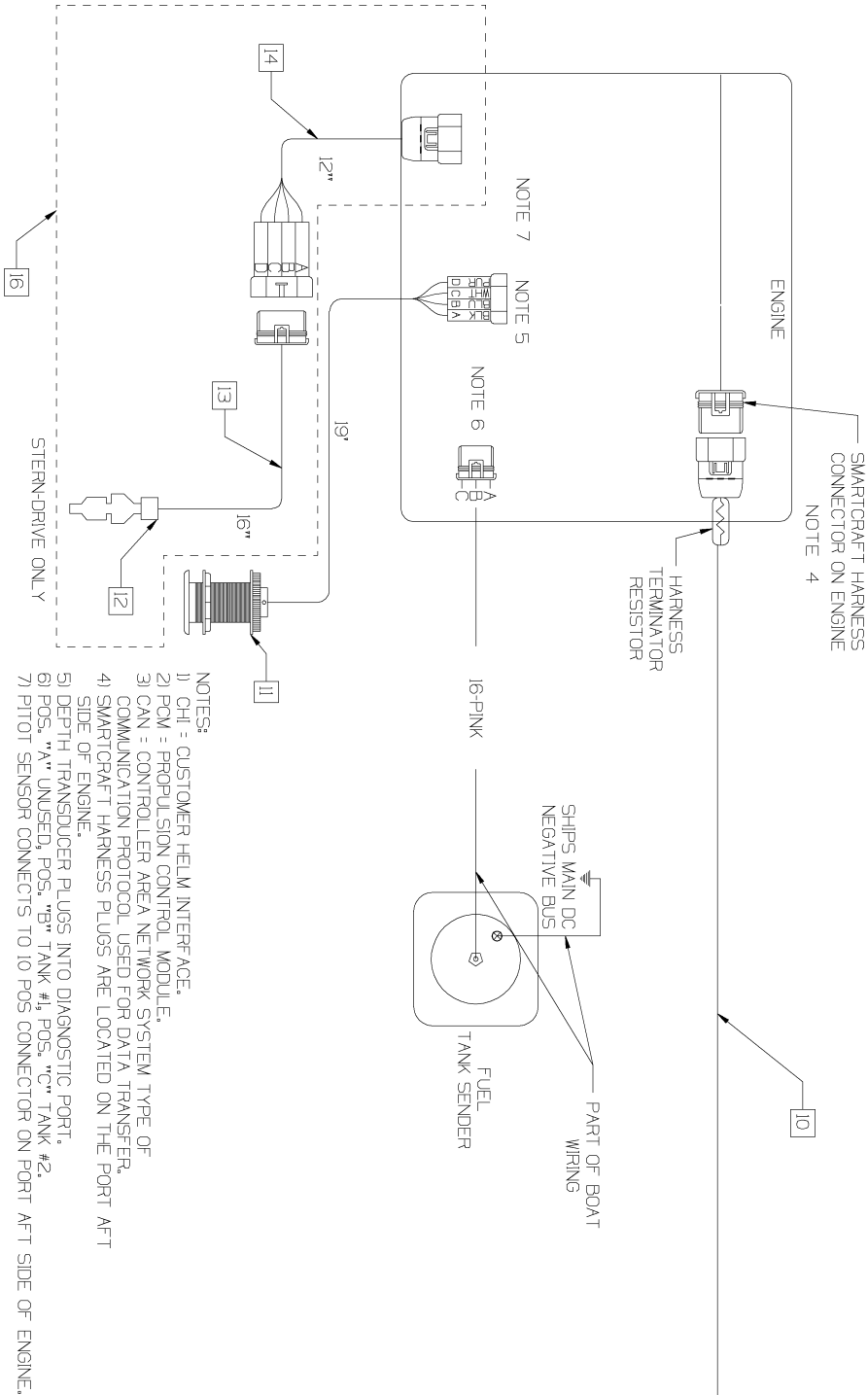
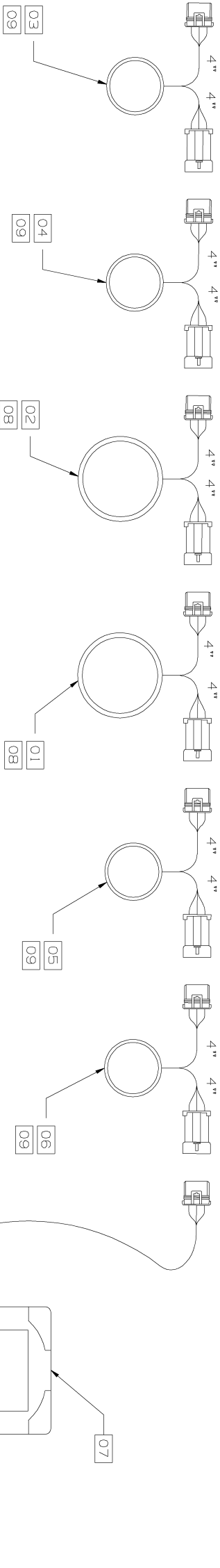
(220Vac/550HZ)



240 DA • AC System Wirind Diagram

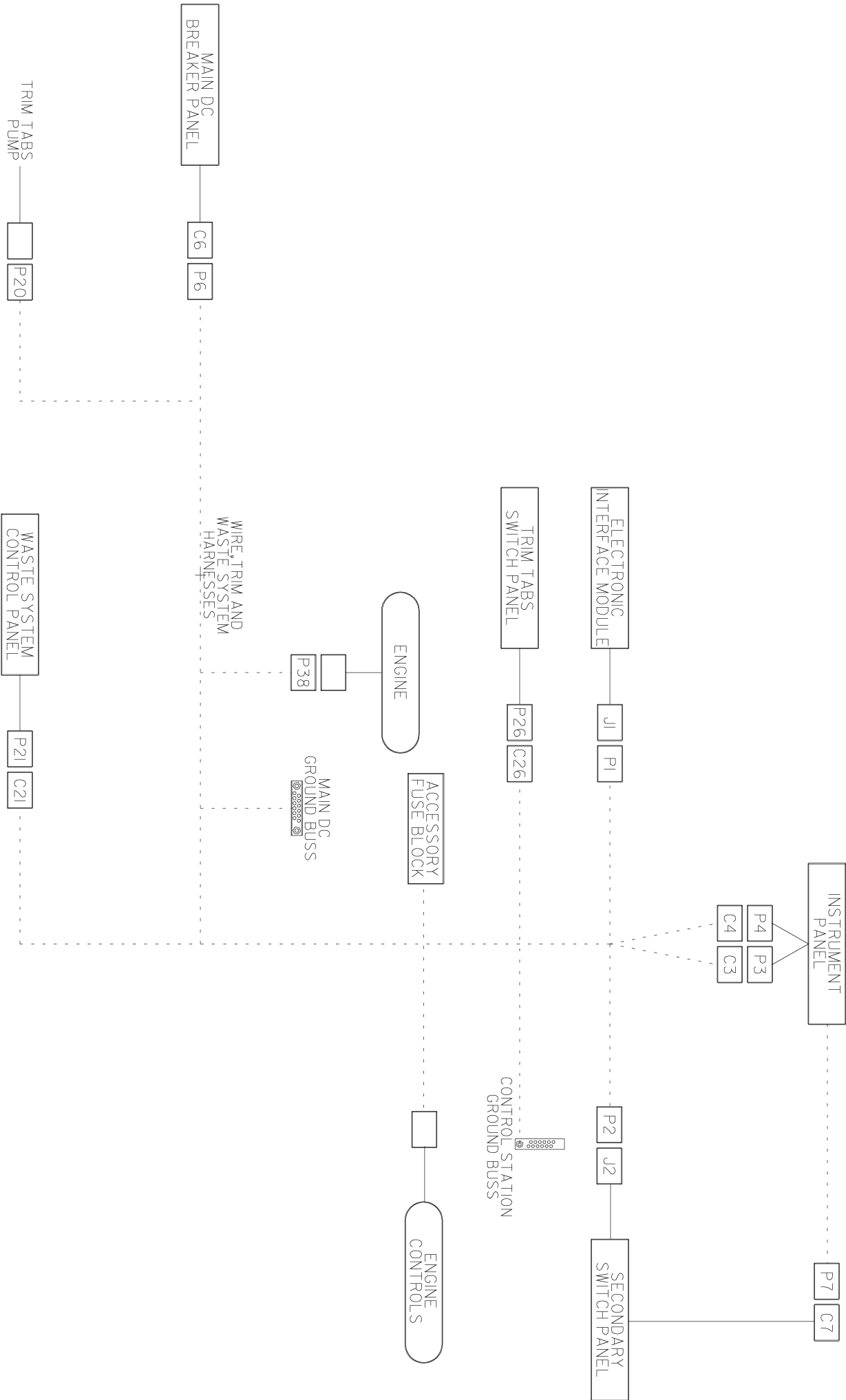


240 DA • Smart Craft System Diagram

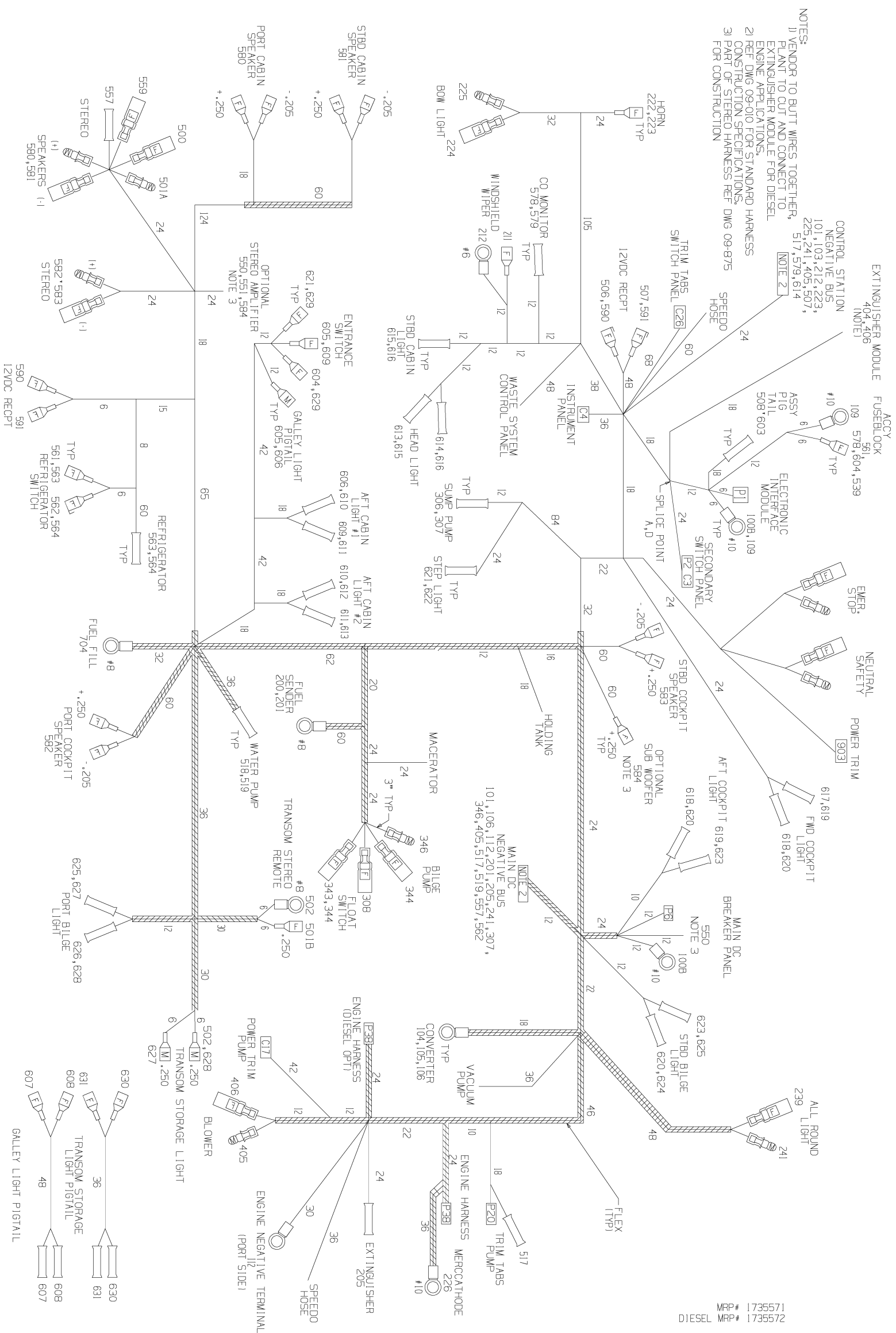


ITEM	QTY.	DESCRIPTION	SUPPLIER PART # B - BULK	SEA RAY PART #
01	1	SYSTEM LINK TACHOMETER 3"	02 066 042	1689881
02	1	SYSTEM LINK SPEED (70 MPH) 3"	01 116 050	1689917
03	1	SYSTEM LINK FUEL 2"	02 224 062	1689853
04	1	SYSTEM LINK VOLTS 2"	02 413 046	1690512
05	1	SYSTEM LINK OIL PRESSURE 2"	02 140 150	1689852
06	1	SYSTEM LINK WATER TEMPERATURE 2"	02 311 050	1689851
07	1	SYSTEM MONITOR	02 560 202	1689883
08	2	SPIN LOCK NUT 3"	999 071 002	1690381
09	4	SPIN LOCK NUT 2"	999 072 001	1690380
-	-	-	-	-
10	1	SC 1000 2 PSL HARNESS 25' W/TERMINATORS	879982825	1727449
11	1	DEPTH / TEMP TRANSDUCER (NYLON)	88882882	1690371
12	1	100 PSI PITOT SENSOR KIT	881879A2	1690375
13	1	HARNESS, PITOT ONLY	863737T	1691477
14	1	HARNESS ASSEMBLY STEERING/PITOT	863931A1	1689719
15	1	ALARM, AUDIBLE	816492A9	1726995
16	1	PITOT SMARTCRAFT SPEEDO KIT	881879A13	1727800

240 DA • Interconnection Wiring Schematic

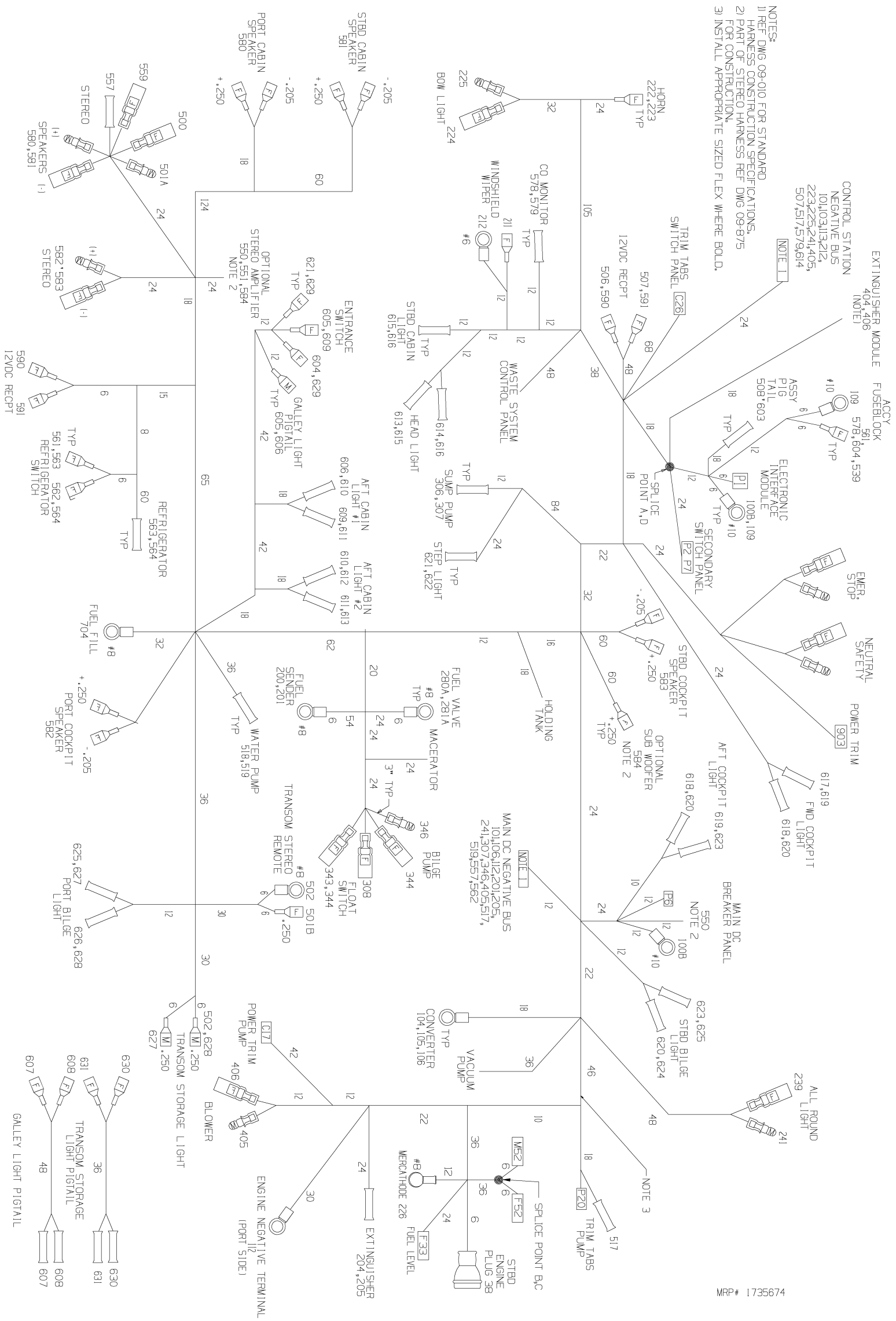


240 D A • Wire Harness Construction



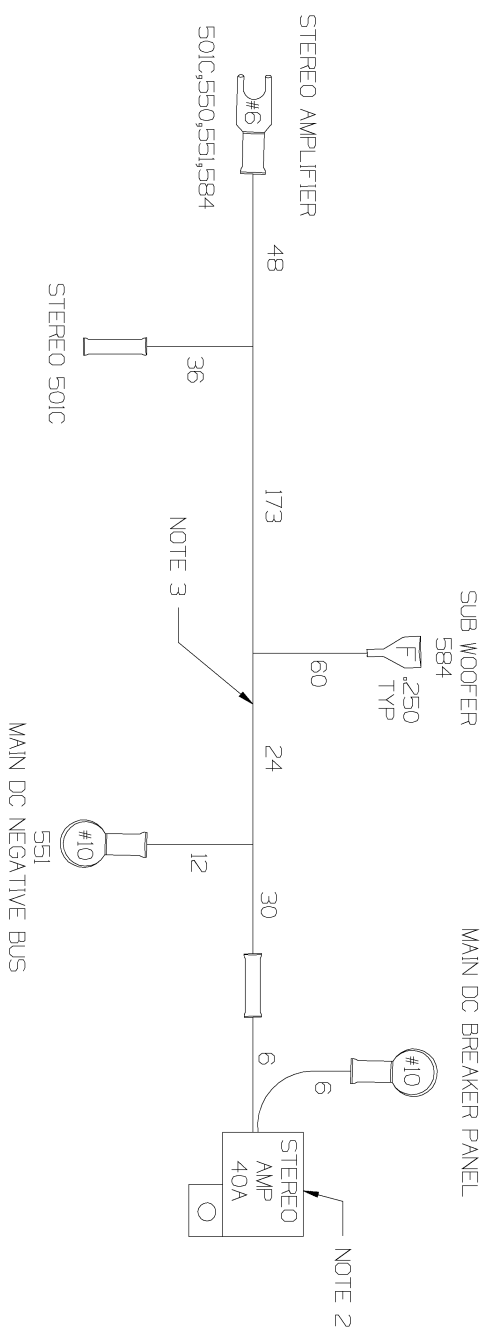
Print #09-870, 6 of 6, REVISION #11

240 D A • Wire Harness Construction (With Smart Craft Option)



Print #09-874, 6 of 6, REVISION #1

240 DA • Stereo Amplifier Harness Construction



NOTES

1) REF DWG 09-010 FOR STANDARD HARNESS CONSTRUCTION SPECIFICATIONS.

CONSTRUCTION SPECIFICATIONS.

VENDOR TO INSTALL PACKERD ELECTRIC FUSE HOLDER WITH A POLYCARBONATE LABEL TO IDENTIFY FUNCTION AND AMPRAGE AND FUSE OF APPROPRIATE SIZE.

3) INSTALL APPROPRIATE SIZED FLEX WHERE BOLD.

MRP # 1735607

* OPTIONAL VENDOR TO SUPPLY ** OPTIONAL PLANT TO PROVIDE *** BUNDLE SEPARATELY AND INCLUDE WITH HARNESS # 240VAC BOAT CABLE						
WIRE #	AWG	COLOR	FUNCTION	FROM	TO	LENGTH
550	10	RED/VIO	AMPLIFIER POWER	INLINE FUSE	STEREO AMPLIFIER	22'11"
551	10	BLK	AMPLIFIER NEGATIVE	STEREO AMPLIFIER	MAIN DC NEGATIVE BUS	21'5"
501C	16	BLU/WHI	STEREO REMOTE	STEREO	STEREO AMPLIFIER	7'0"
584	SPK/GRN	GRN	SUB WOOFER	STEREO AMPLIFIER	SUB WOOFER	23'5"
+	+	+	+	+	+	+
+	+	+	+	+	+	+

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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.

