

Sea Ray Owner's Manual



This owner's manual is arranged into two parts. Following is a description of each.

General Information

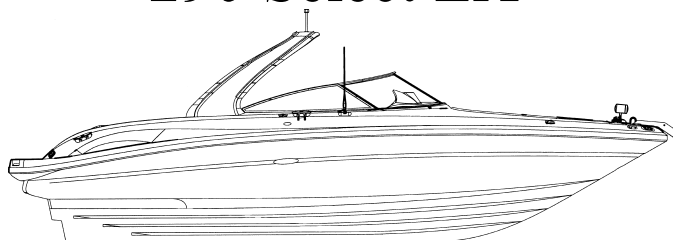
This section contains general information you need to know to safely operate and maintain your boat.

Specific Information

This section contains information that is specific to your boat such as dimensions, general arrangement, specific safety information, special features and the electrical system.

If any of these sections are missing from this book contact your dealer.
Your dealer can find out when it will be available and order it for you.

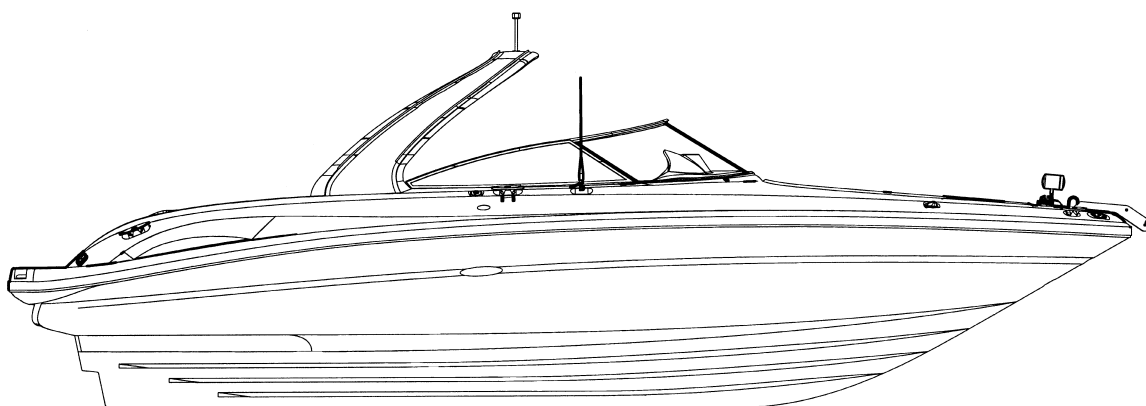
290 Select EX



Owner's Manual Part Number: MRP 1803657

Owner's Manual Supplement

290 Select EX



Sea Ray

1-800-SRBOATS
www.searay.com

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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 Domestic/International
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.

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 65 pages.)



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.



SUPPLEMENTAL GENERAL INFORMATION

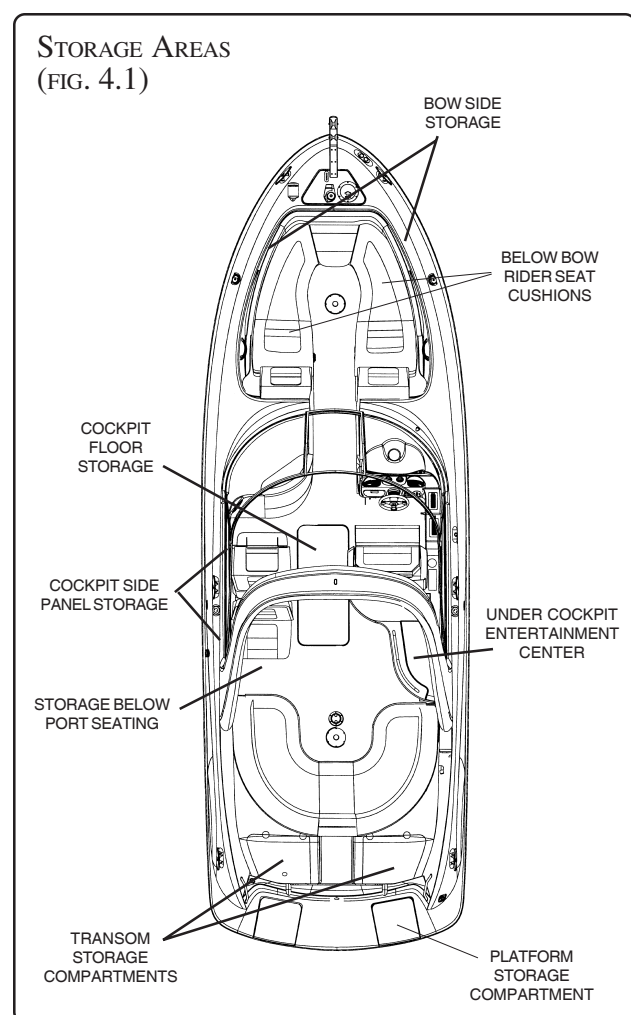
LIFE SAVING EQUIPMENT

(PERSONAL FLOTATION DEVICE (PFD))

STORAGE: The 290 SLX offers suitable storage for personal flotation devices (PFD's) under the forward port and starboard seat cushions, under the cockpit floor storage, under cockpit entertainment center and transom storage.

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.



TROUBLESHOOTING

LIST OF REFERENCE MANUALS AND DRAWINGS

PERFORMANCE: Refer to "Power Capacity" in 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.



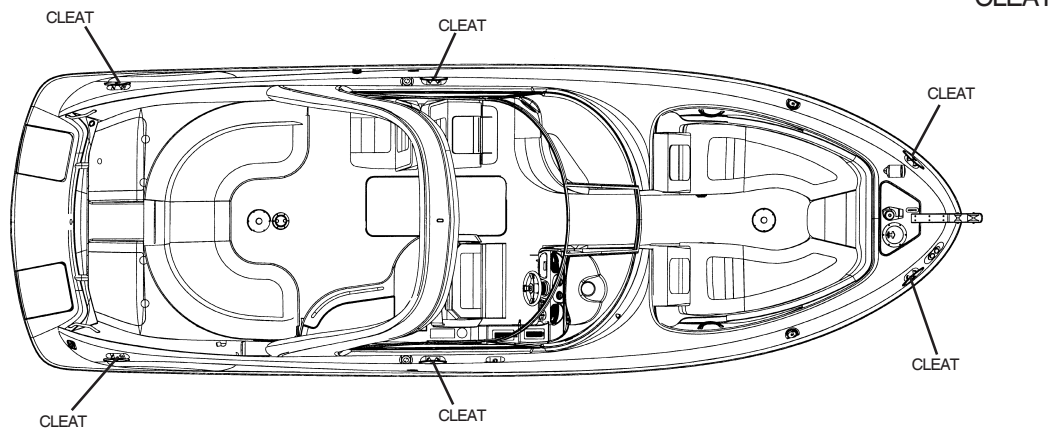
BOW AND STERN EYES: The bow eye should be used to haul the boat onto a trailer. The stern eyes should be used as tie down points for trailering the boat. The bow and stern eyes may be used for short term lifting of the boat such as for service. Long term lifting with

the bow and stern eyes may cause stress on the fiberglass and gel coat.

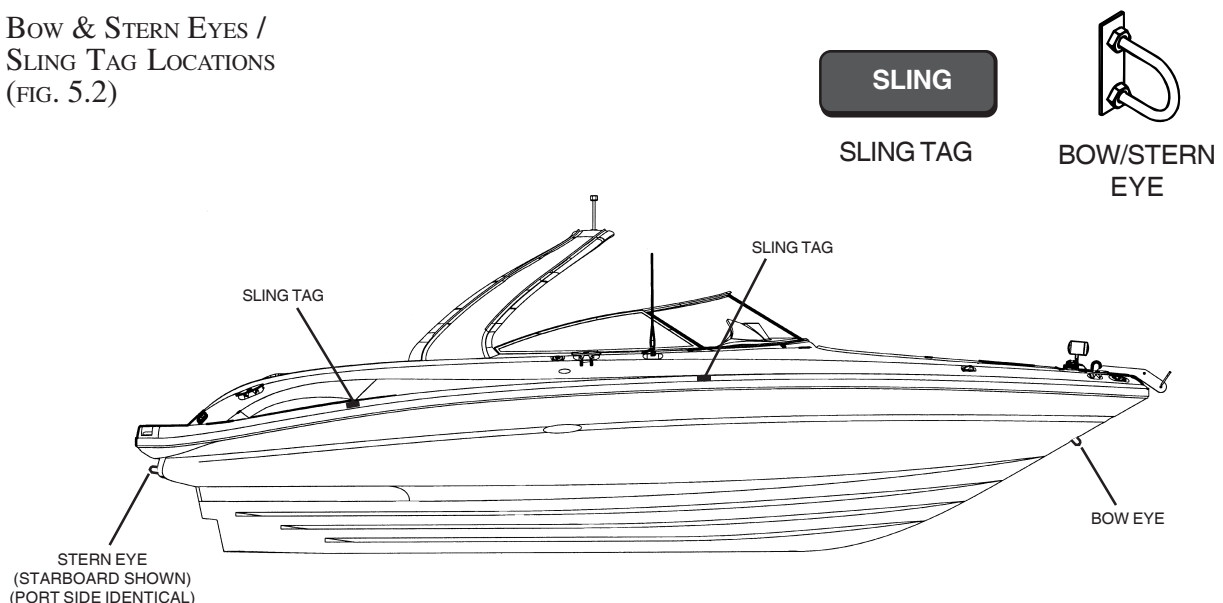
SLING

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. When slings are used for lifting the boat, they should be positioned at the "SLING" tag locations on the sides of the hull.

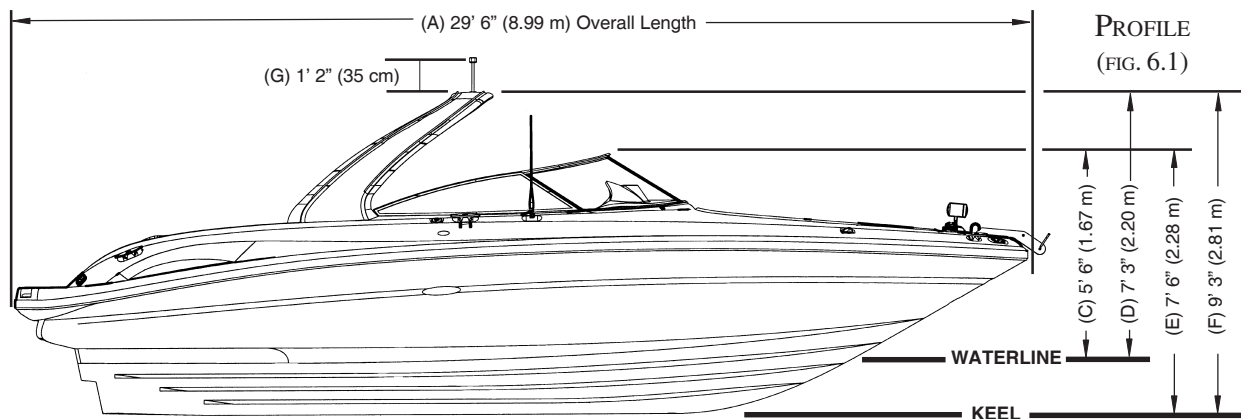
CLEAT LOCATIONS
(FIG. 5.1)



BOW & STERN EYES /
SLING TAG LOCATIONS
(FIG. 5.2)



GENERAL ARRANGEMENTS & DIMENSIONS

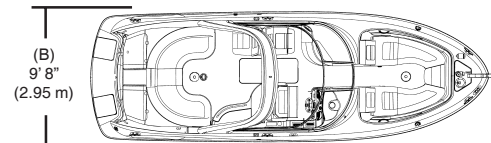


290 SLX SPECIFICATIONS

(A) Overall Length	29' 6" (8.99 m)
(B) Beam	9' 8" (2.95 m)
Draft (Stern Drive Down)	38" (96.5 cm)
Draft (Stern Drive Up)	23" (58.4 cm)
Draft (Twin Stern Drive Down)	35" (88.9 cm)
Draft (Twin Stern Drive Up)	24" (61.0 cm)
Dry Weight (lbs.)	7,200 (3.266 kg)
Fuel Capacity (gal.)	130 (492.1 liters)
Usable Fuel (gal.)	123.5 (467 liters)
Water Capacity (gal.)	24 (90.8 liters)
Holding Tank (gal.)	20 (75.7 liters)
Dead Rise	21°

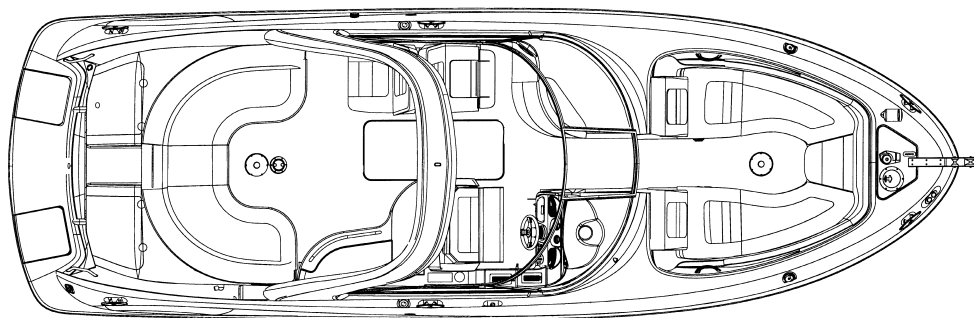
HEIGHT DIMENSIONS

(C) Waterline To Top Of Windshield	5' 6" (1.67 m)
(D) Waterline To Top Of Arch	7' 3" (2.20 m)
(E) Keel To Top Of Windshield	7' 6" (2.28 m)
(F) Keel To Top Of Arch	9' 3" (2.81 m)



(FIG. 6.2)

INTERIOR SEATING PLAN



290 SLX SEATING PLAN

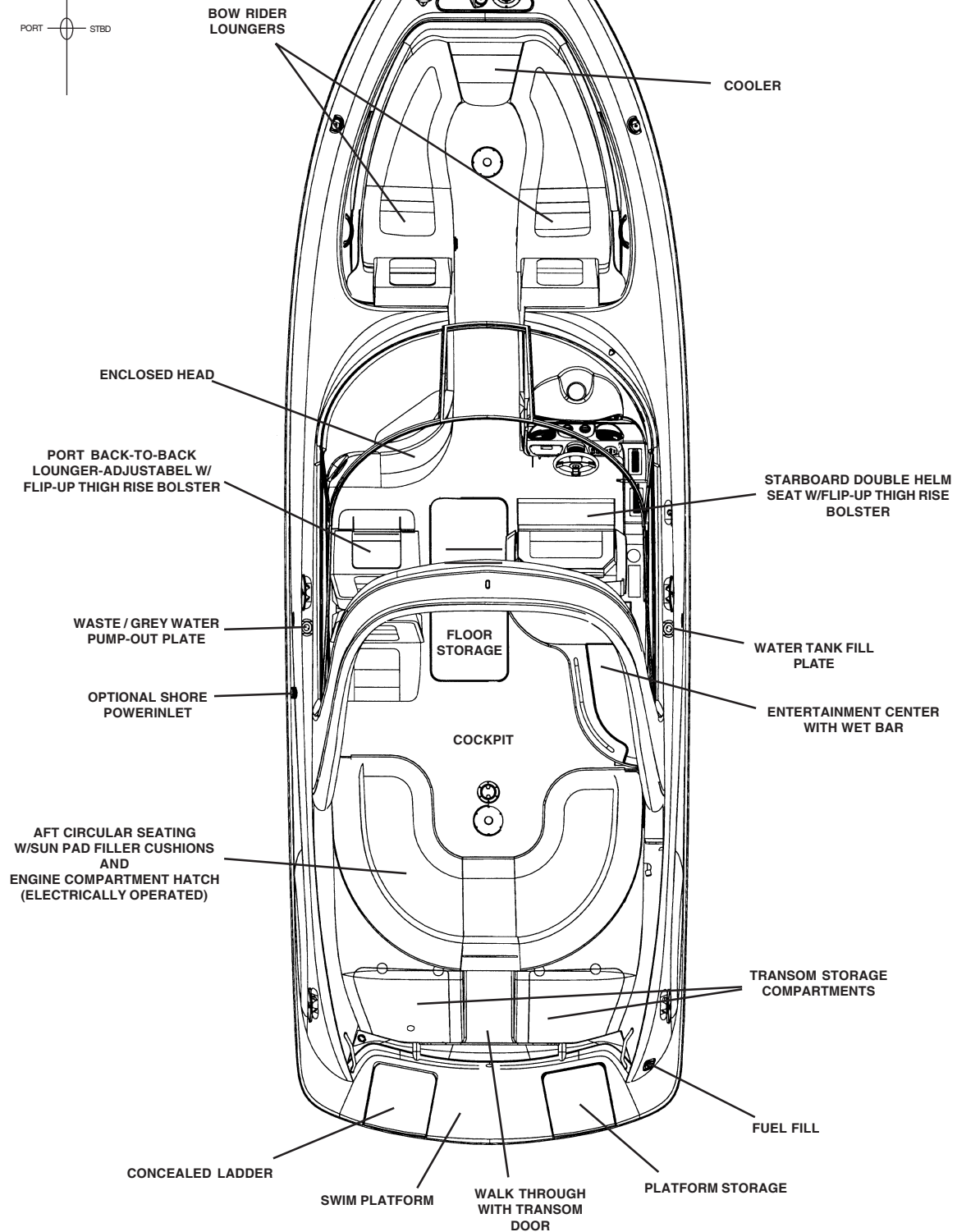
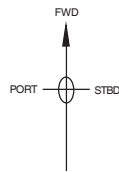
Starboard Double Helm Seat w/Flip-Up Thigh-Rise Bolster, Port Back-to-Back Lounger - Adjustable w/ Flip-Up Thigh-Rise Bolster, Bow Rider Loungers, Aft Circular Seat w/Sun Pad Filler Cushions

(FIG. 6.3)



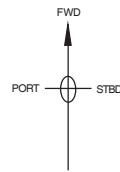
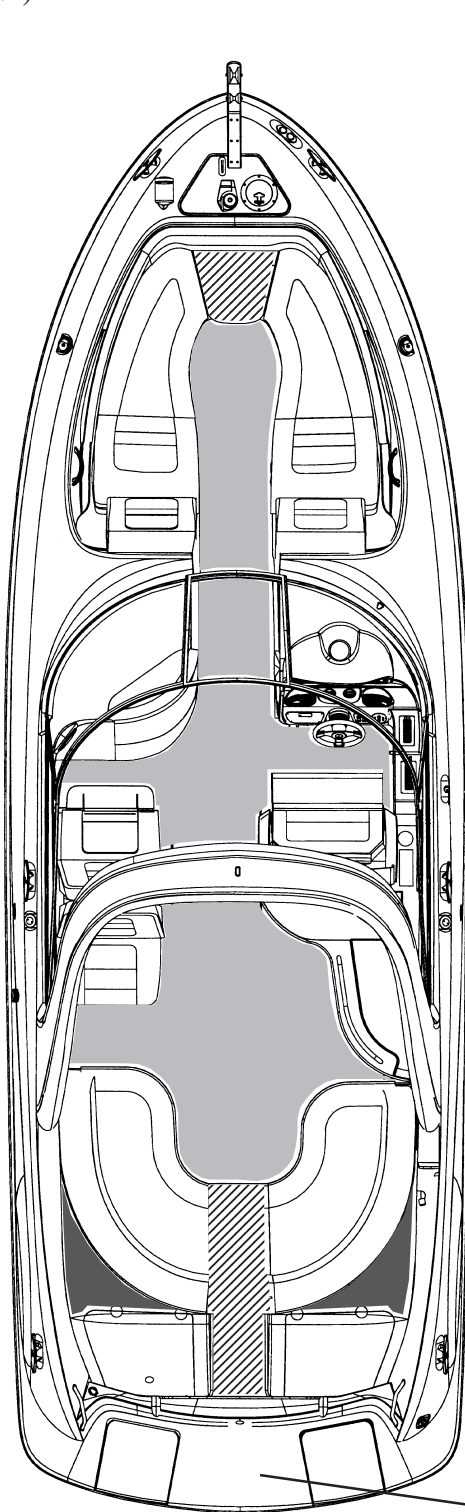
ACCOMMODATION PLAN

MAIN DECK (FLOOR PLAN)
(FIG. 7.1)



DECK OCCUPANCY PLAN

(FIG. 8.1)

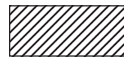


! WARNING

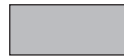
SLIPPING HAZARD - Wet decks are slippery. Wear proper footwear and use extreme caution on wet surfaces.

! WARNING

PERSONAL INJURY HAZARD
When underway, keep occupants clear of areas not designed for riding. Especially hazardous areas include seat backs, bow, gunwale, transom platform and fore and aft decks.



WORKING DECK
(DECK AREA INTENDED FOR OCCUPATION DURING ANCHORING, MOORING AND EMERGENCY OPERATION ONLY)



ACCOMMODATION DECK
(DECK AREA INTENDED FOR OCCUPATION DURING NORMAL OPERATION)



DO NOT WALK ON THIS AREA

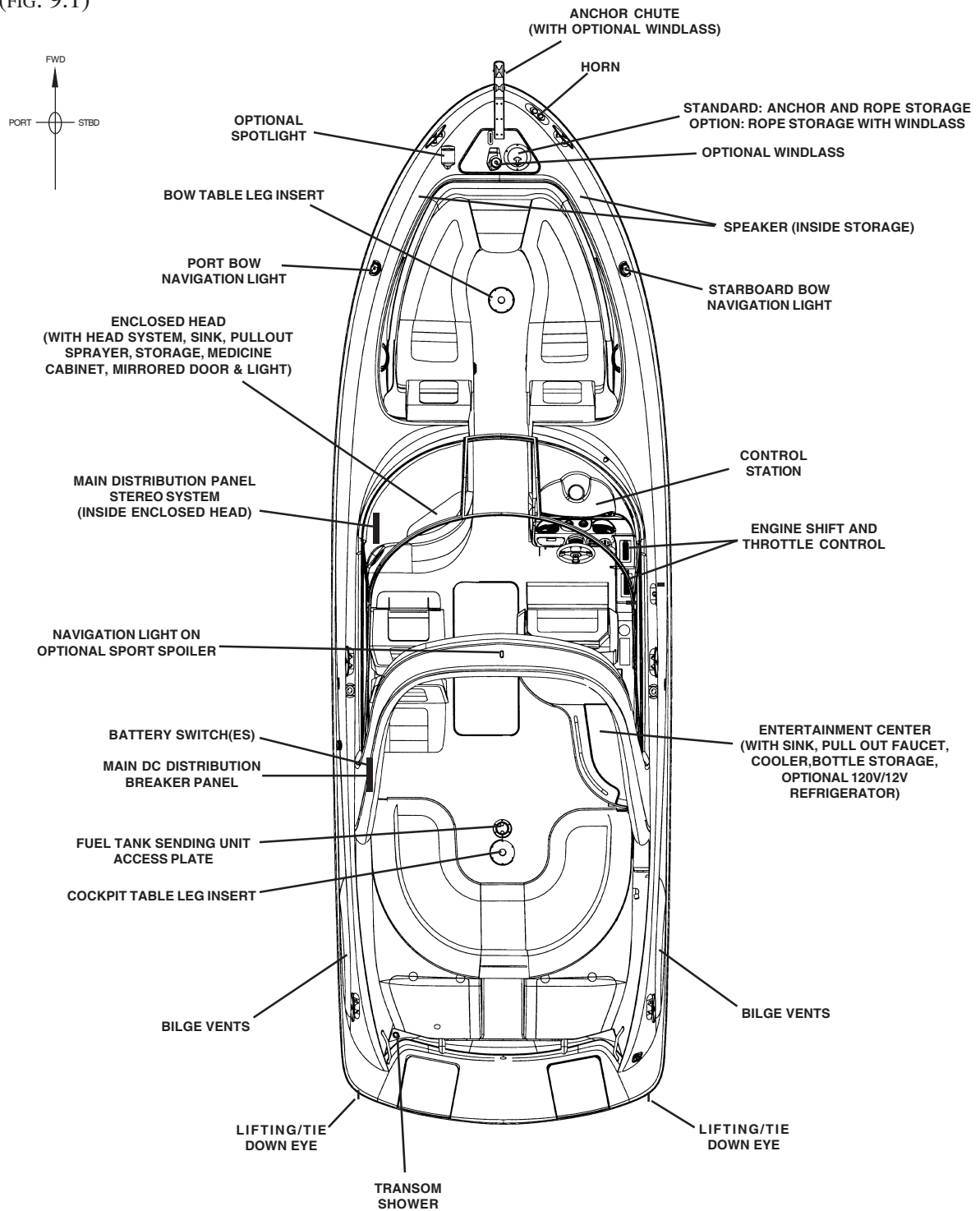
! DANGER

TO AVOID RISK OF SERIOUS INJURY OR DEATH SHUT OFF ENGINE WHEN NEAR SWIMMERS OR PRIOR TO USING SWIM PLATFORM AND BOARDING LADDER.



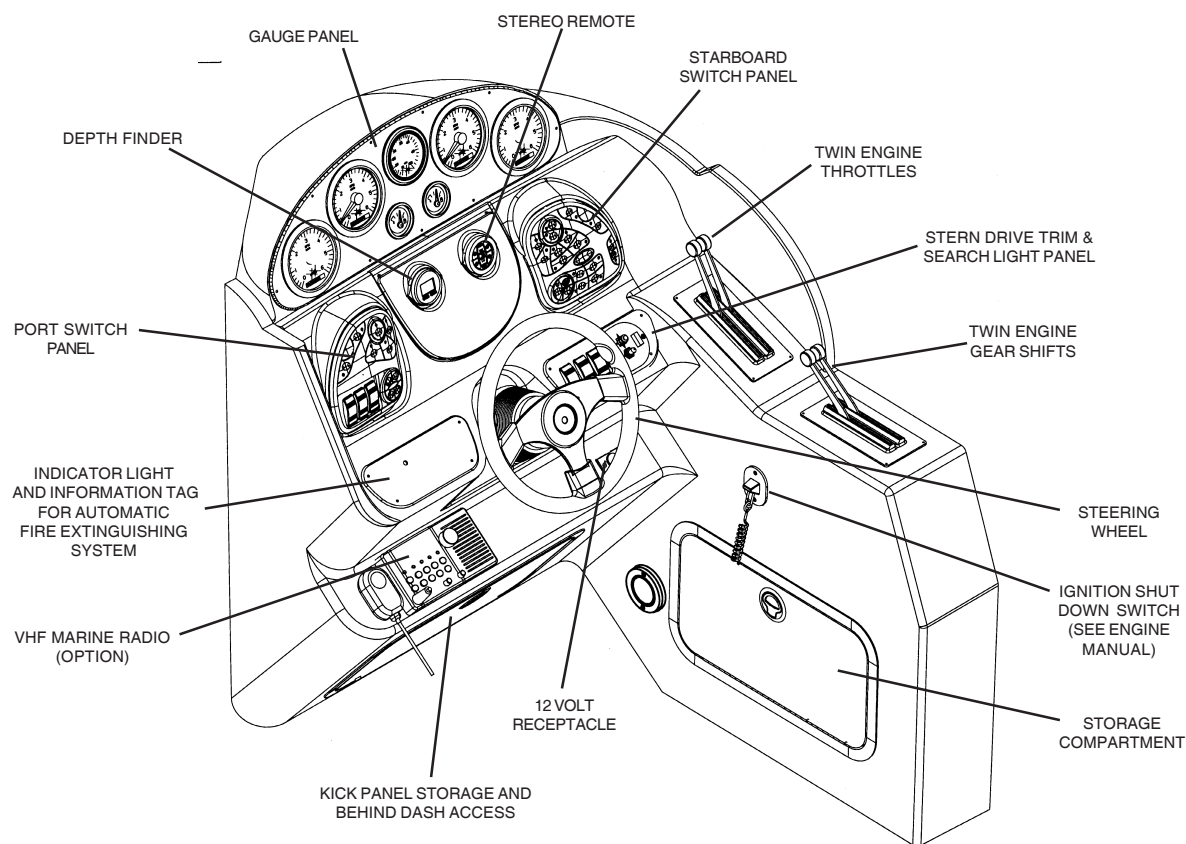
ACCESSORY LOCATIONS

(FIG. 9.1)

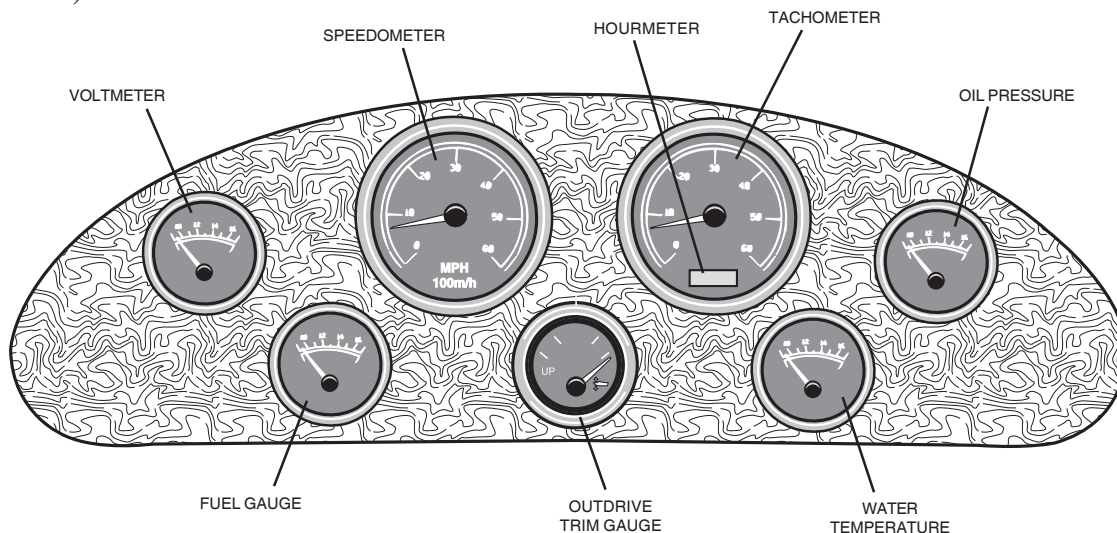


DASH LAYOUT

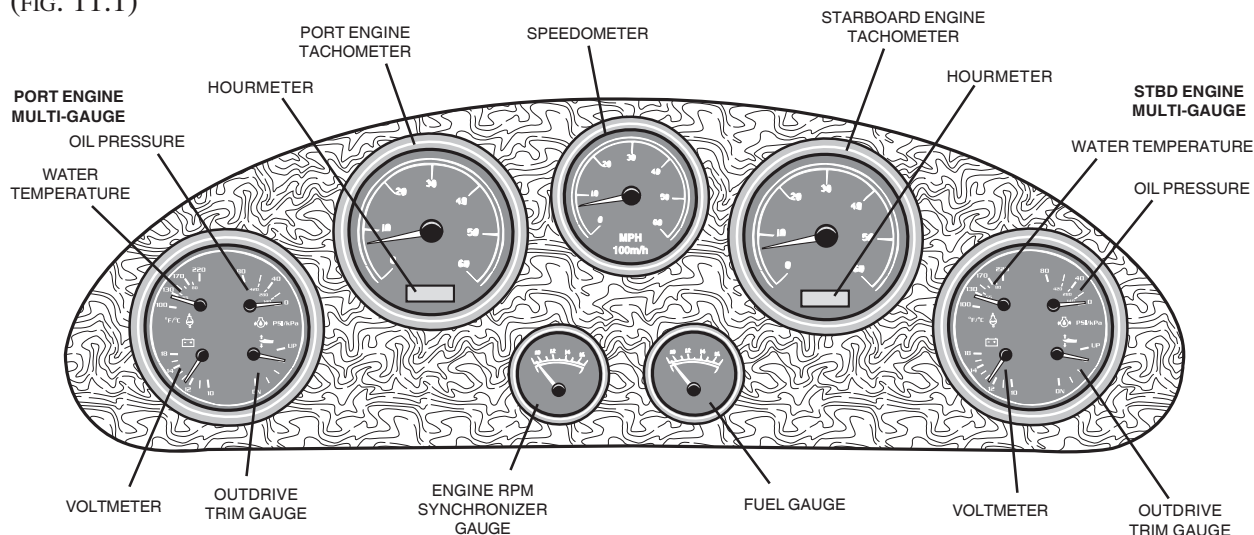
(FIG. 10.1)



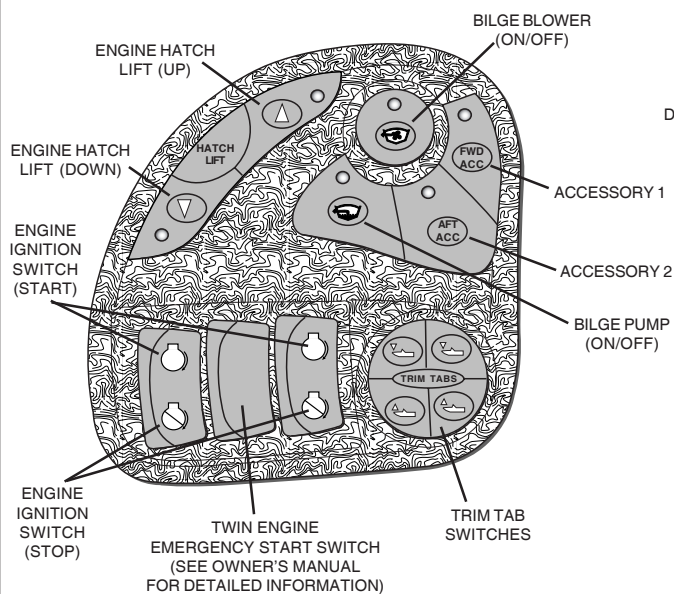
SINGLE ENGINE GAUGE PANEL
(FIG. 10.2)



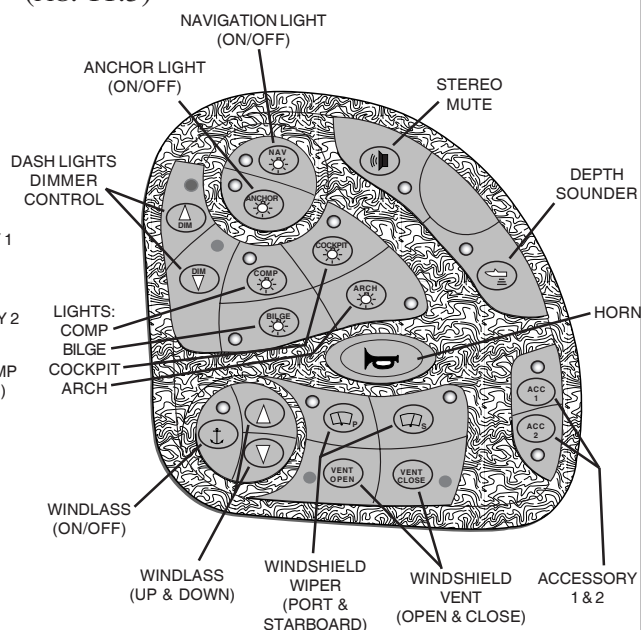
TWIN ENGINE GAUGE PANEL
(FIG. 11.1)



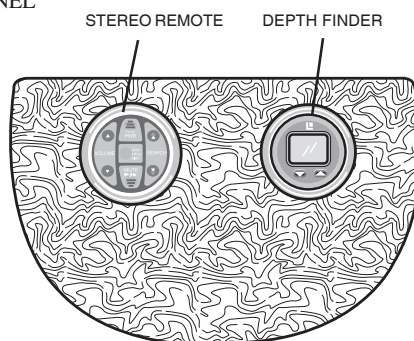
PORT SWITCH PANEL
(FIG. 11.2)



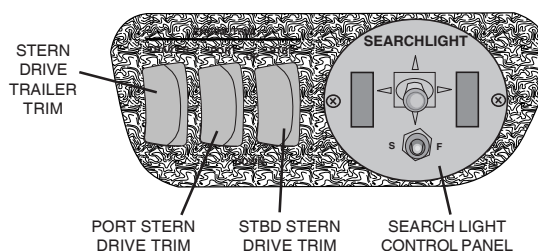
STARBOARD SWITCH PANEL
(FIG. 11.3)



CENTER PANEL
(FIG. 11.4)

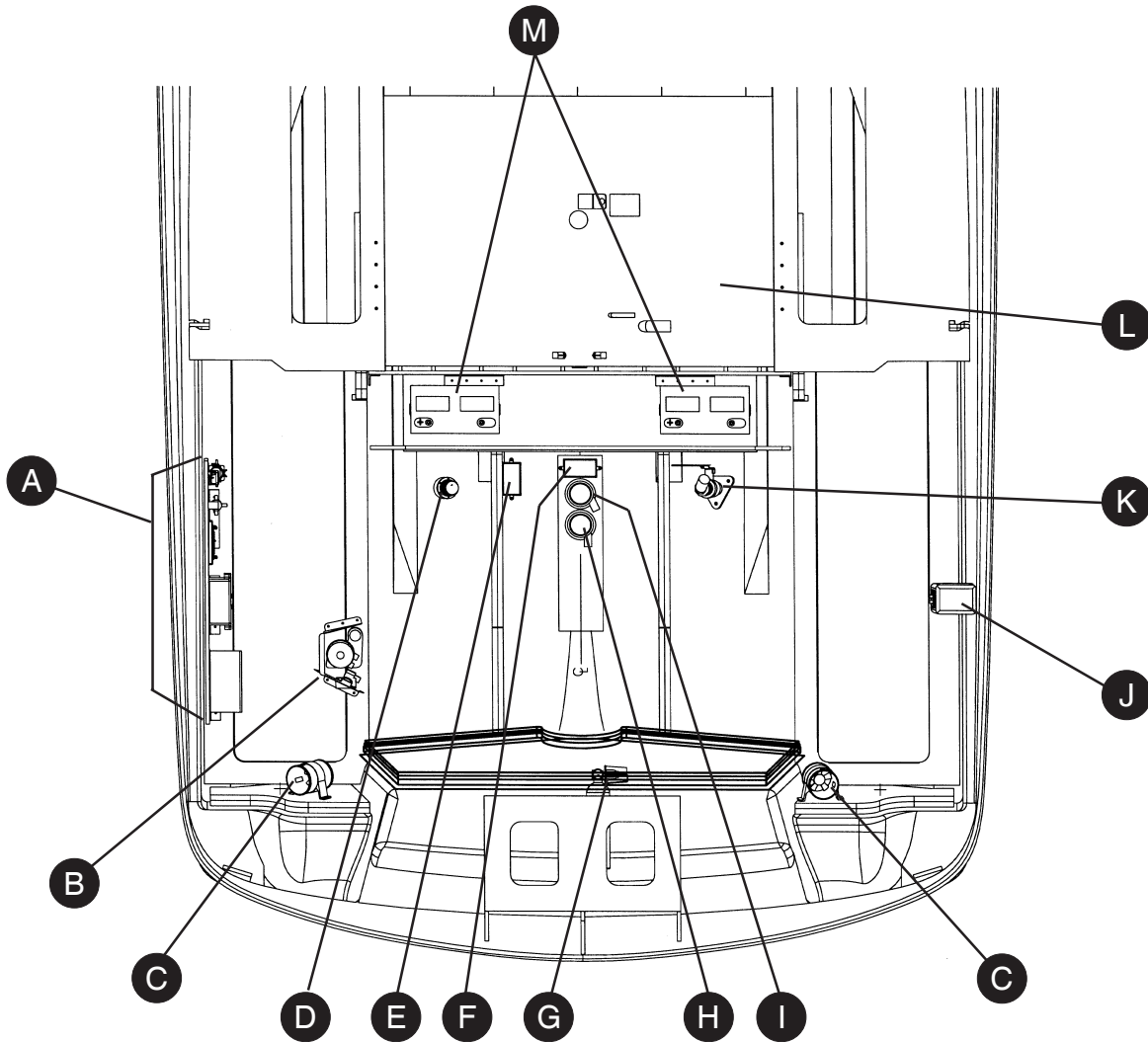


STERN DRIVE TRIM & SEARCH LIGHT PANEL (FIG. 11.5)



ENGINE COMPARTMENT LAYOUT

GASOLINE SINGLE ENGINE (FIG. 12.1)



A: BILGE COMPONENT BOARD

B: STERN DRIVE POWER TRIM PUMP

C: BILGE BLOWER

D: TRANSDUCER

E: HIGH WATER BILGE PUMP FLOAT SWITCH

F: BILGE PUMP FLOAT SWITCH

G: AUTOMATIC FIRE EXTINGUISHER

H: BILGE PUMP

I: HIGH WATER BILGE PUMP

J: TRIM TAB PUMP

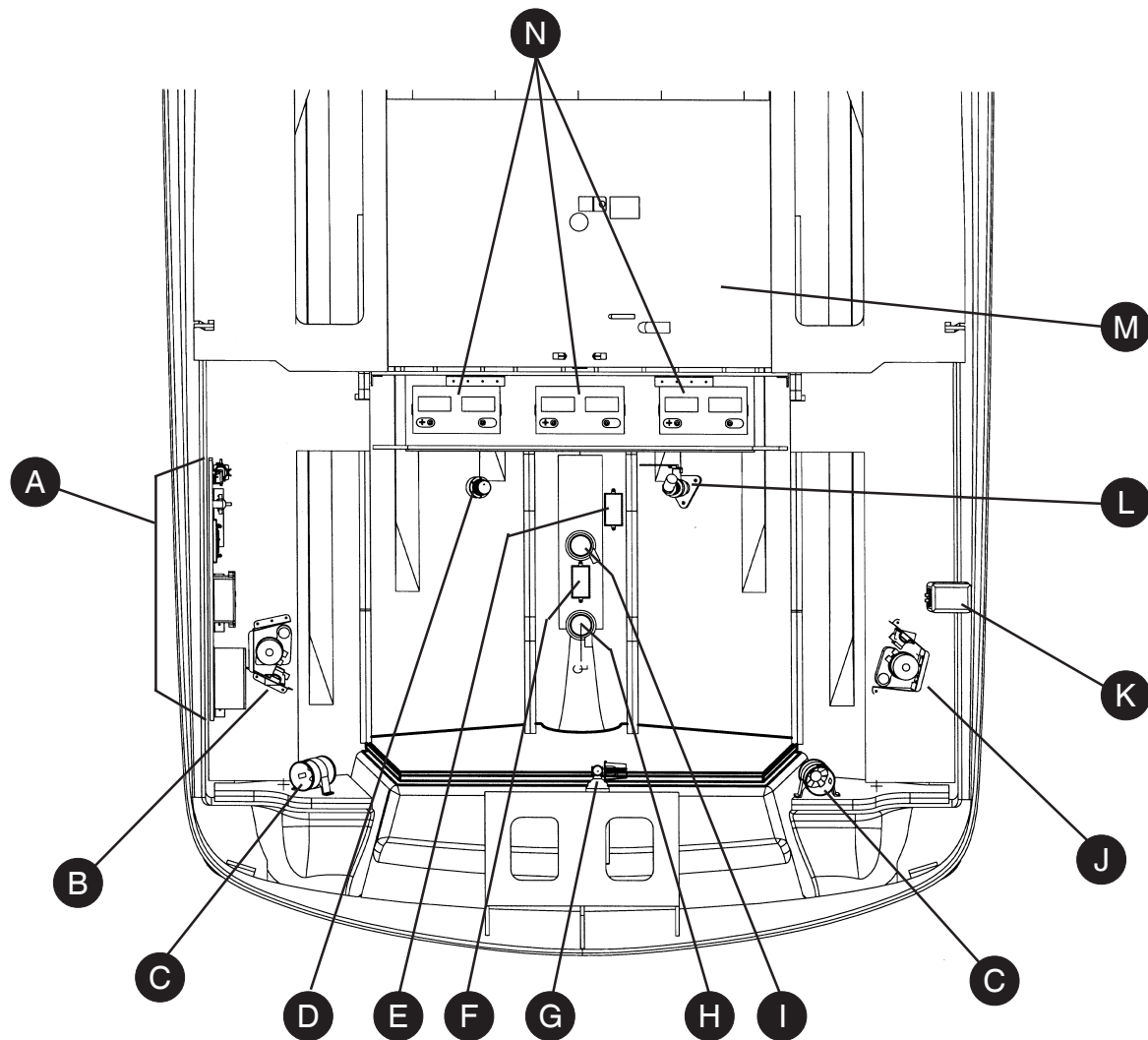
K: HEAD SYSTEM OVERBOARD DISCHARGE SEACOCK

L: FUEL TANK

M: BATTERIES



GASOLINE TWIN ENGINE (FIG. 13.1)



A: BILGE COMPONENT BOARD

B: PORT STERN DRIVE POWER
TRIM PUMP

C: BILGE BLOWER

D: TRANSDUCER

E: HIGH WATER BILGE PUMP FLOAT
SWITCH

F: BILGE PUMP FLOAT SWITCH

G: AUTOMATIC FIRE EXTINGUISHER

H: BILGE PUMP

I: HIGH WATER BILGE PUMP

J: STARBOARD STERN DRIVE POWER
TRIM PUMP

K: TRIM TAB PUMP

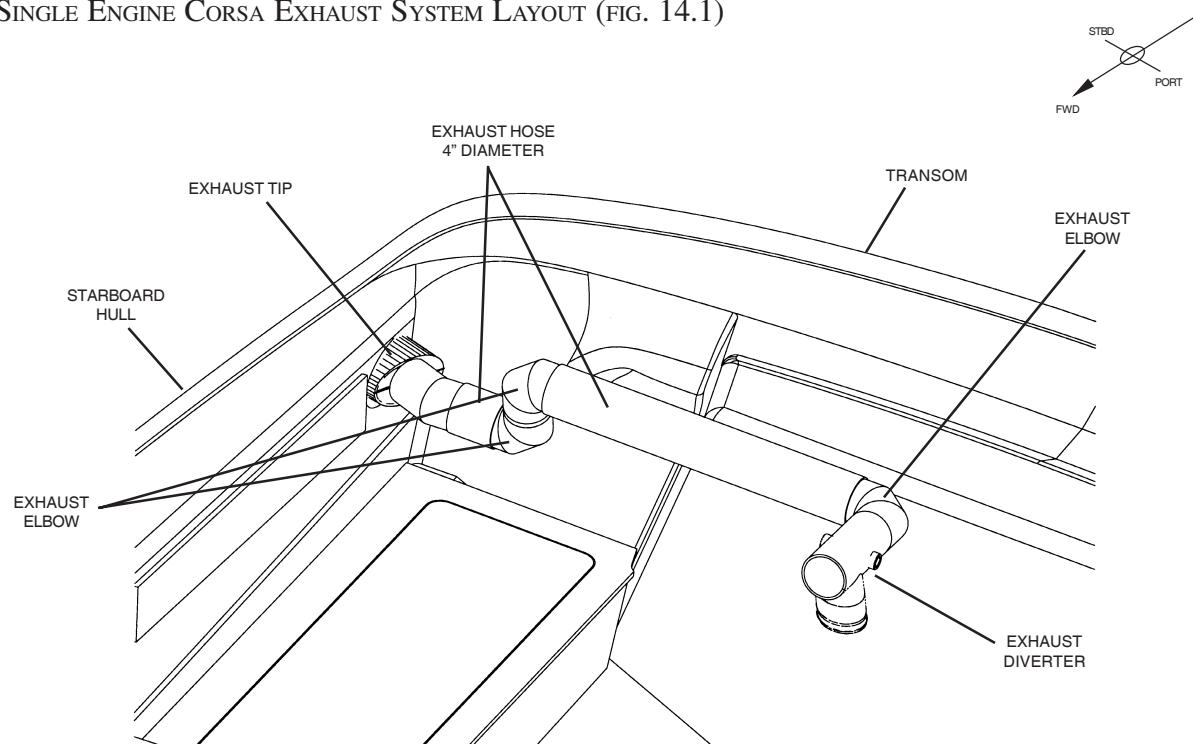
L: HEAD SYSTEM OVERBOARD DISCHARGE
SEACOCK

M: FUEL TANK

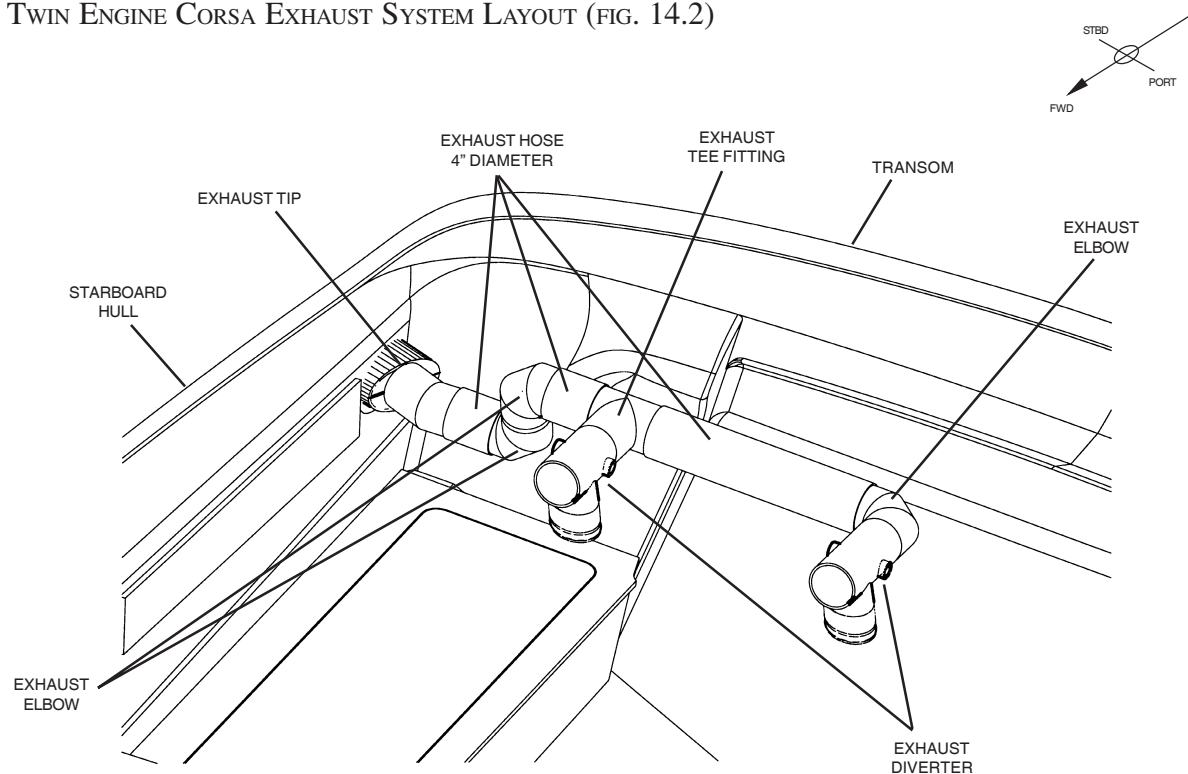
N: BATTERIES

OPTIONAL CORSA EXHAUST SYSTEM LAYOUT

SINGLE ENGINE CORSA EXHAUST SYSTEM LAYOUT (FIG. 14.1)



TWIN ENGINE CORSA EXHAUST SYSTEM LAYOUT (FIG. 14.2)

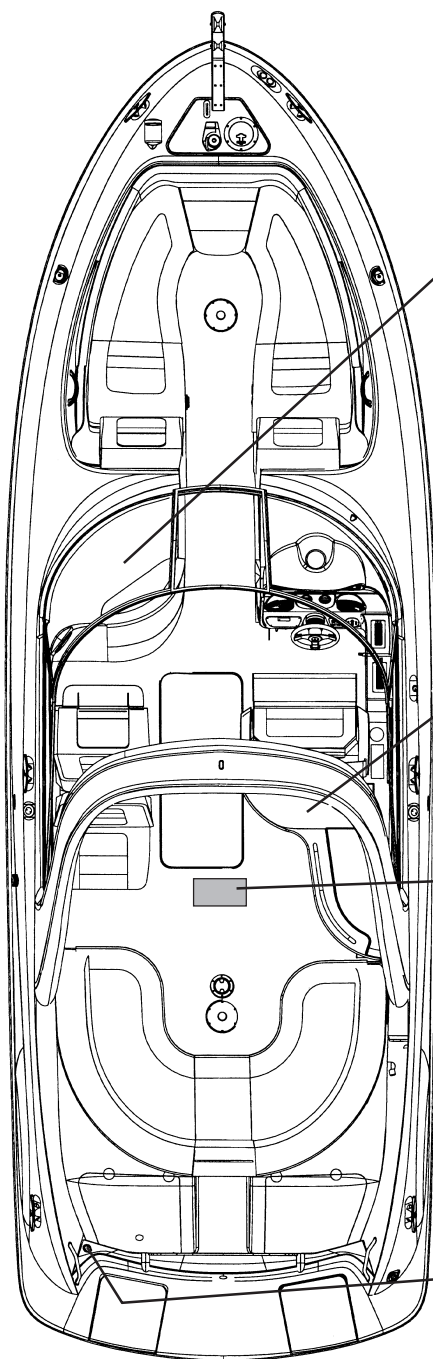


WATER SYSTEM

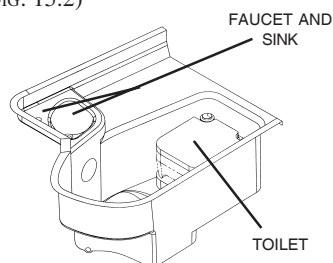
The water system on your Sea Ray® Sport Cruiser is equipped with a sink and faucet in the head, cockpit entertainment center wet bar, transom shower and fresh-water washdown spigot. The grey water sump collects

water from the head sink and pumps it overboard. Refer to owner's manual *Shower System* section for grey water sump information.

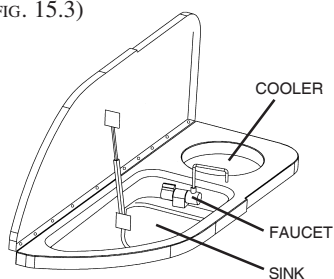
WATER SYSTEM ACCESSORY LOCATIONS
(FIG. 15.1)



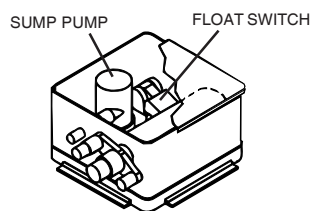
HEAD FAUCET AND TOILET
(FIG. 15.2)



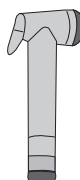
ENTERTAINMENT CENTER WET BAR
(FIG. 15.3)



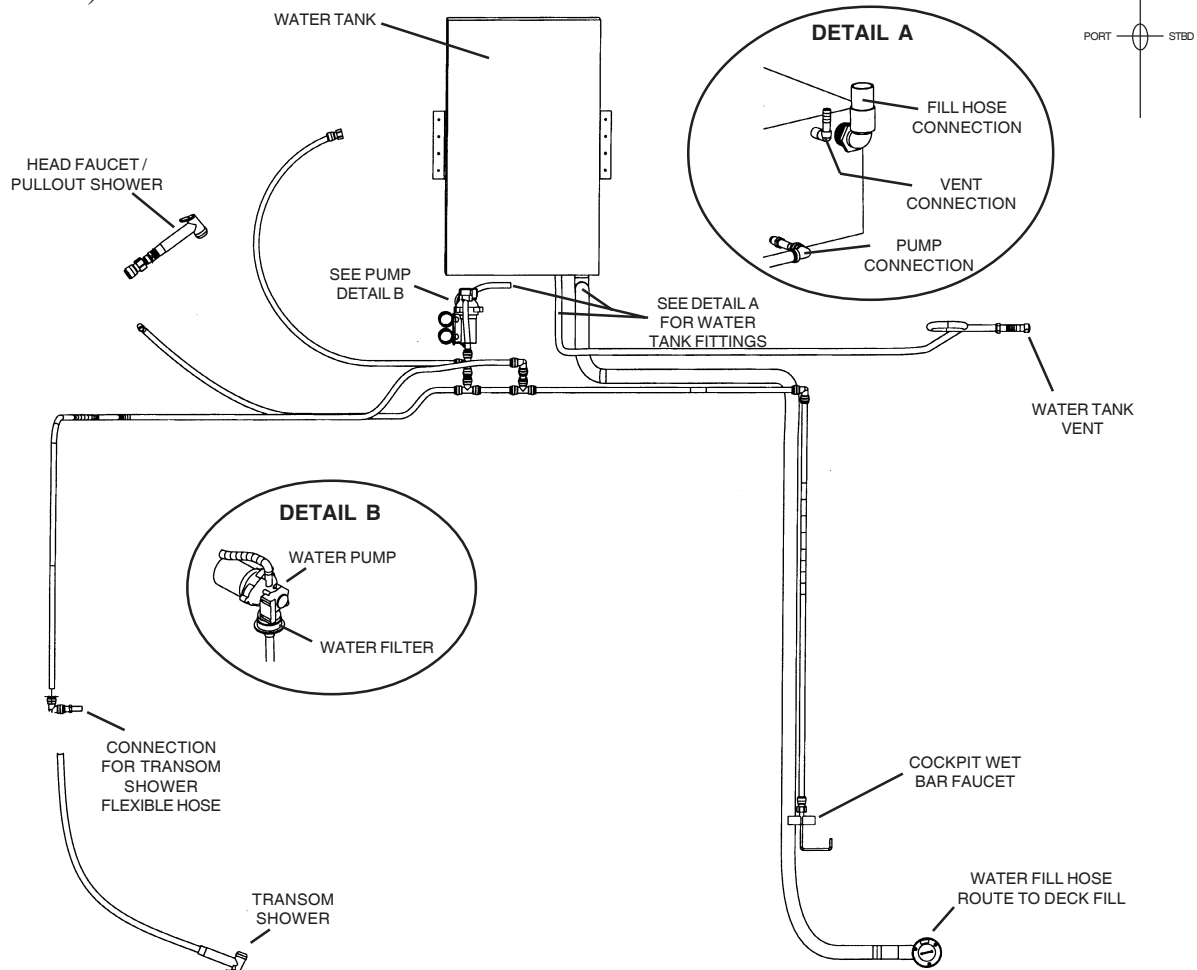
GREY WATER SUMP
(LOCATED BELOW AFT END OF COCKPIT HATCH)
(FIG. 15.4)



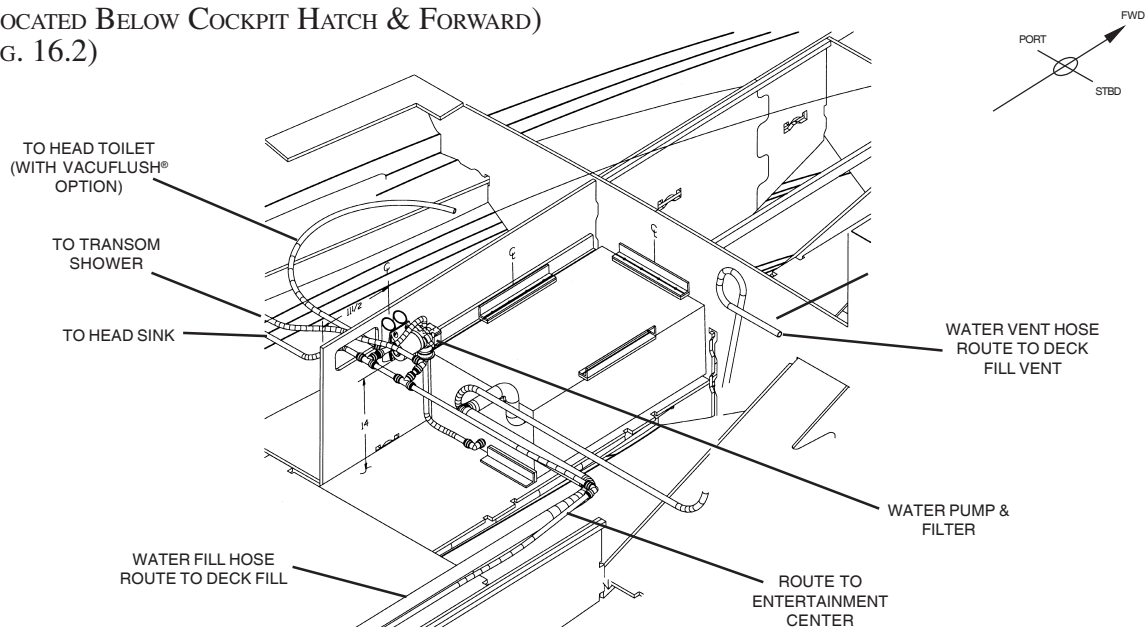
(FIG. 15.5)
TRANSOM SHOWER



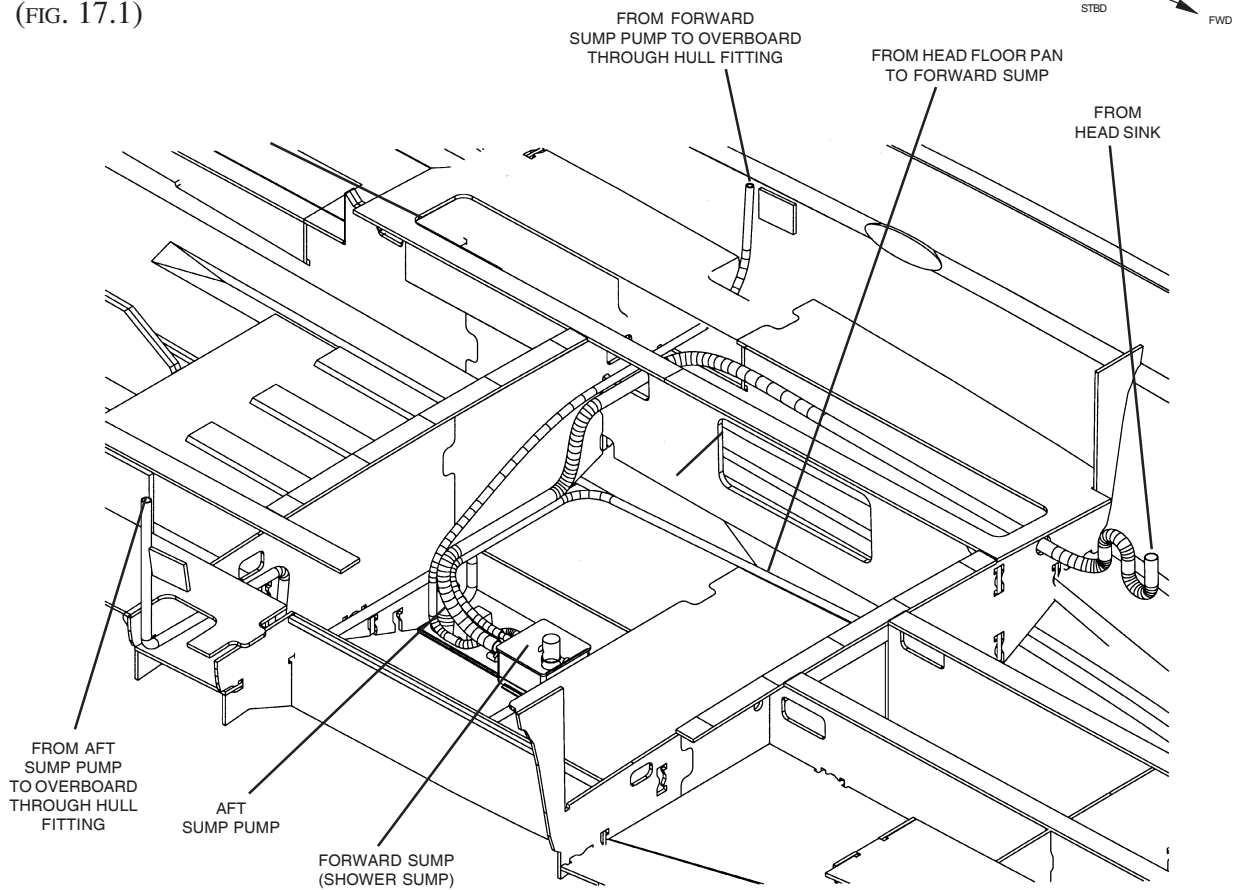
WATER SYSTEM (FIG. 16.1)



WATER SYSTEM TANK LOCATION & HOSE ROUTING (LOCATED BELOW COCKPIT HATCH & FORWARD) (FIG. 16.2)



FORWARD SUMP HOSE ROUTING
(SHOWER SUMP)
(FIG. 17.1)

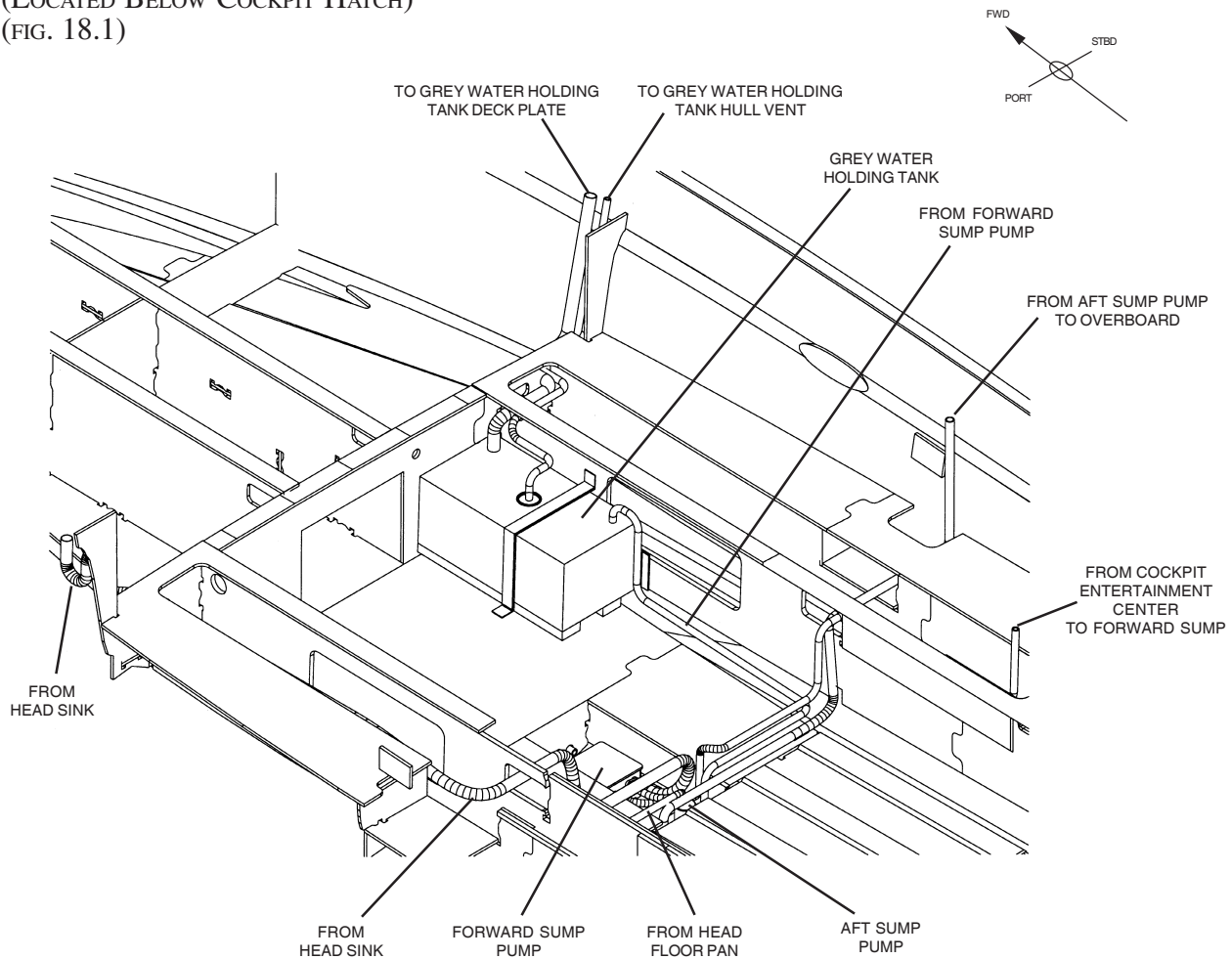


GREY WATER SYSTEM (OPTION)

The grey water system option is available for boats operating in areas with overboard discharge restrictions. The grey water system drains all water into the enclosed sump where it is pumped into a holding tank. If

you are operating your boat in areas with discharge restrictions the holding tank must be emptied at a pump-out station. Refer to the *Grey Water* section in the owner's manual.

GREY WATER SYSTEM LINE ROUTING (OPTION)
(LOCATED BELOW COCKPIT HATCH)
(FIG. 18.1)



HEAD SYSTEM

Carefully read the sections in your Owner's Manual that pertain to your head system. The Owner's Packet in your boat also contains information pertaining to your head system that should be carefully read.

Standard Head System: The standard head system on your Sea Ray® Sport Cruiser is the Portable Head.

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

Optional Head System: Your Sea Ray® Sport Cruiser is offered with two options.

Portable Self-Contained Head with Pump-Out.

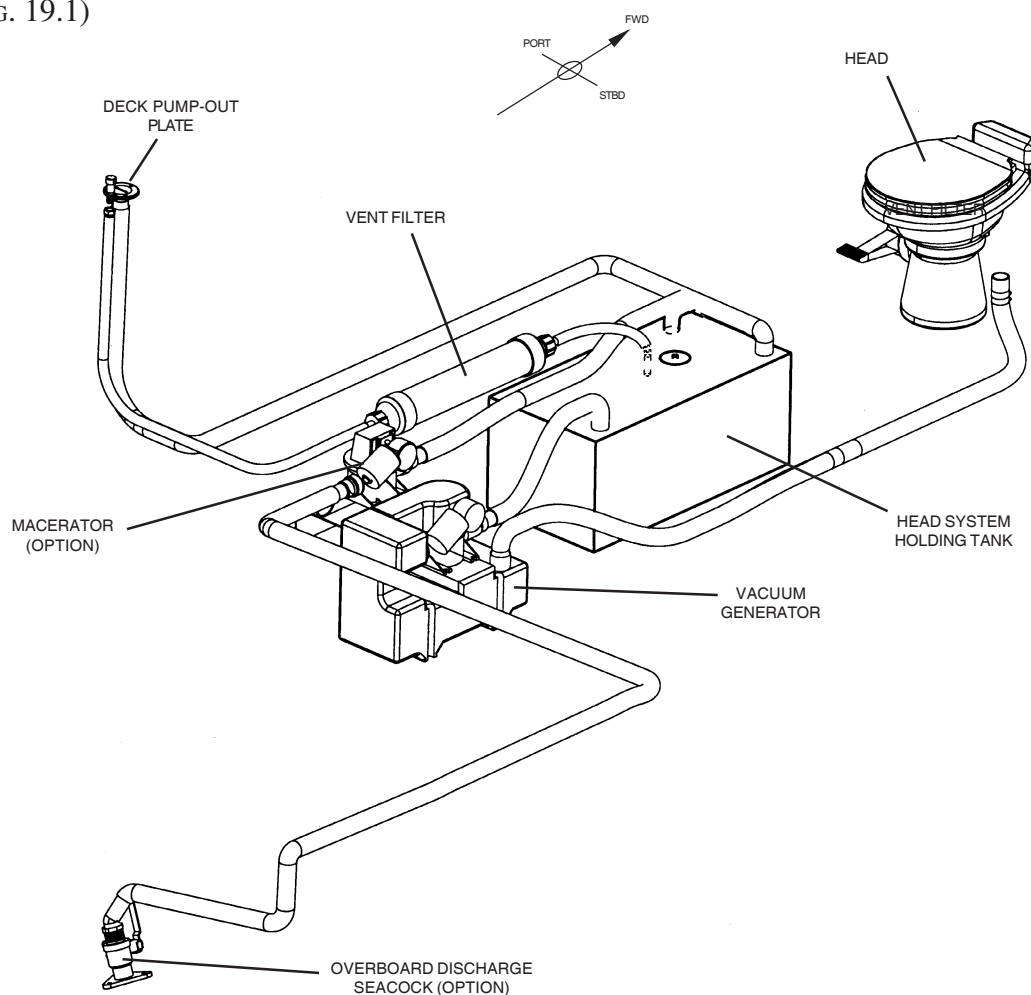
Vacu-Flush® Head With holding tank.

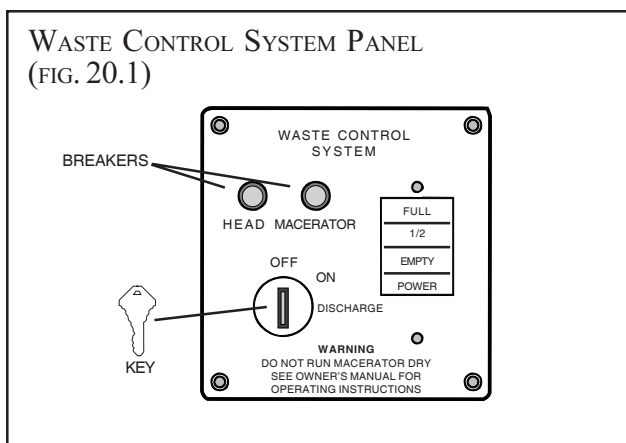
REFER TO OWNER'S MANUAL AND OWNER'S PACKET FOR INSTRUCTIONS AND WARRANTY INFORMATION.

! CAUTION

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

HEAD SYSTEM LINE ROUTING
(FIG. 19.1)





2. Turn discharge key on Waste Control System Panel in the head to DISCHARGE position
3. When tank is empty, release the switch and close the macerator seacock.

Seacock Interlock System

The macerator seacock is equipped with an interlock switch. The seacock must be in the opened position for the macerator to operate.

MACERATOR (OPTIONAL)

When the 290 SLX is equipped with the optional macerator it is located adjacent to the vacuum generator, (See FIG. 19.1). Refer to *Head System* section of the owner's manual for detailed macerator information.

To Operate The Macerator:

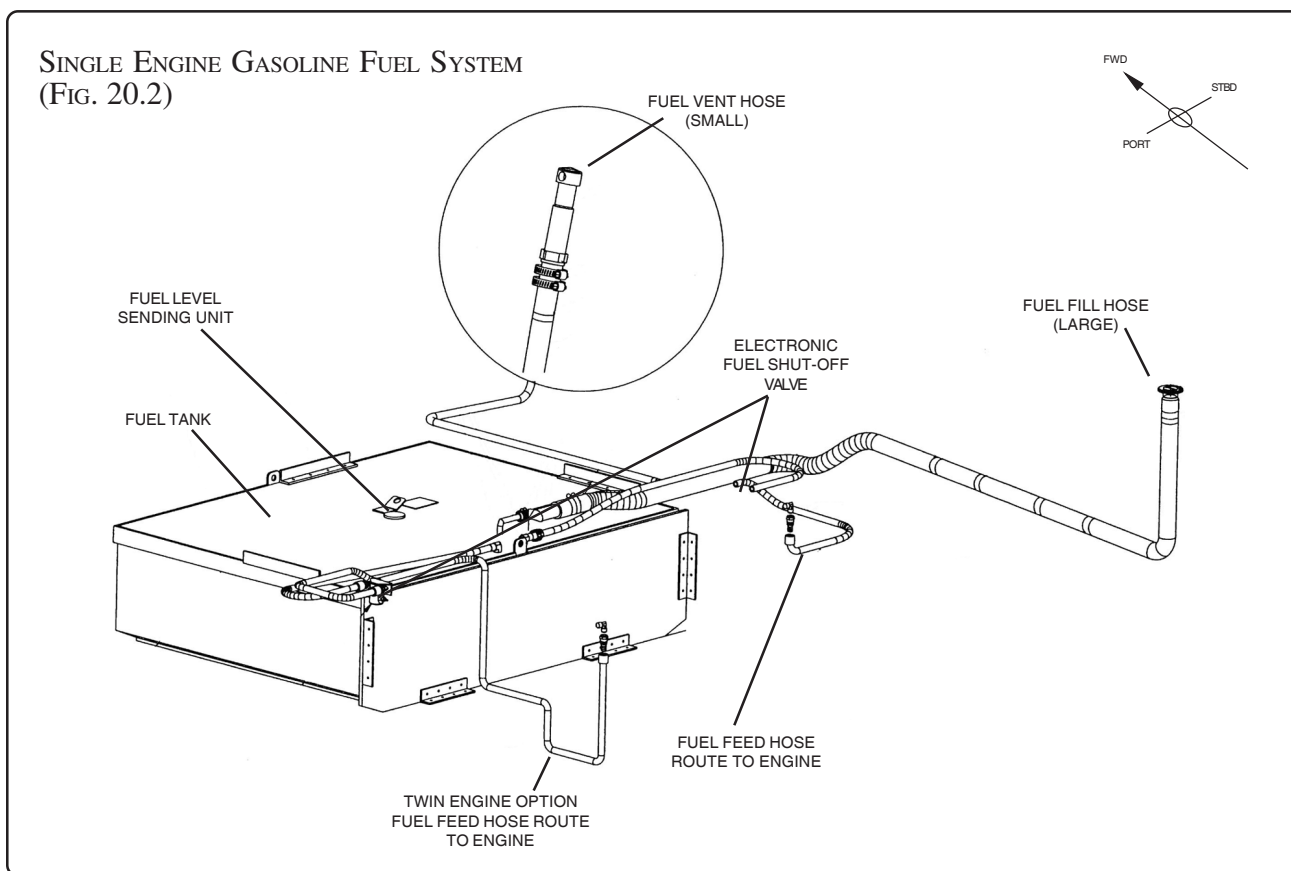
1. Open the overboard discharge seacock on the bilge floor, (See FIG. 19.1).

FUEL SYSTEM

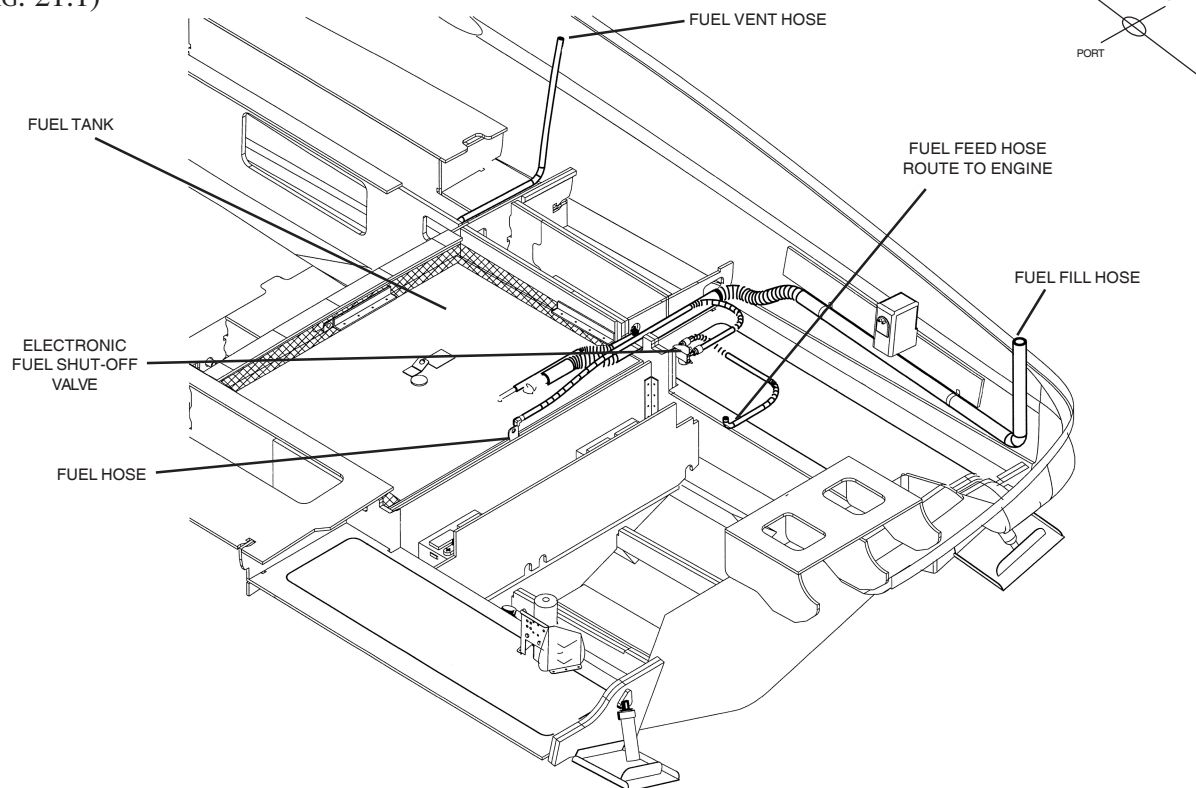


The Owner's Manual contains important fueling information. Take time to read all the fuel related information in the owner's packet.

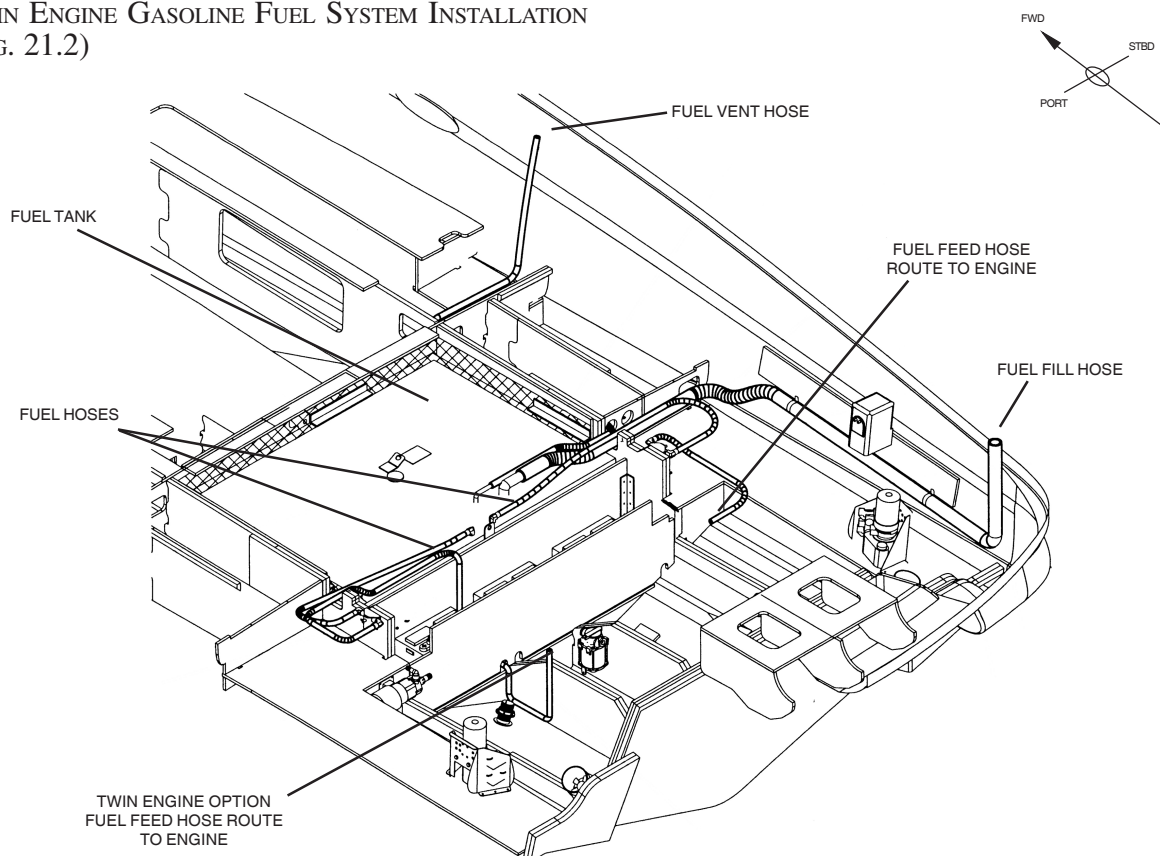
The 290 SLX standard gasoline fuel system consists of a 130 gallon (492.1 liters) fuel tank, fuel tank vent, anti-siphon valve, engine fuel supply line and fuel fill.



SINGLE ENGINE GASOLINE FUEL SYSTEM INSTALLATION (FIG. 21.1)



TWIN ENGINE GASOLINE FUEL SYSTEM INSTALLATION (FIG. 21.2)



VENTILATION SYSTEM / BILGE BLOWERS



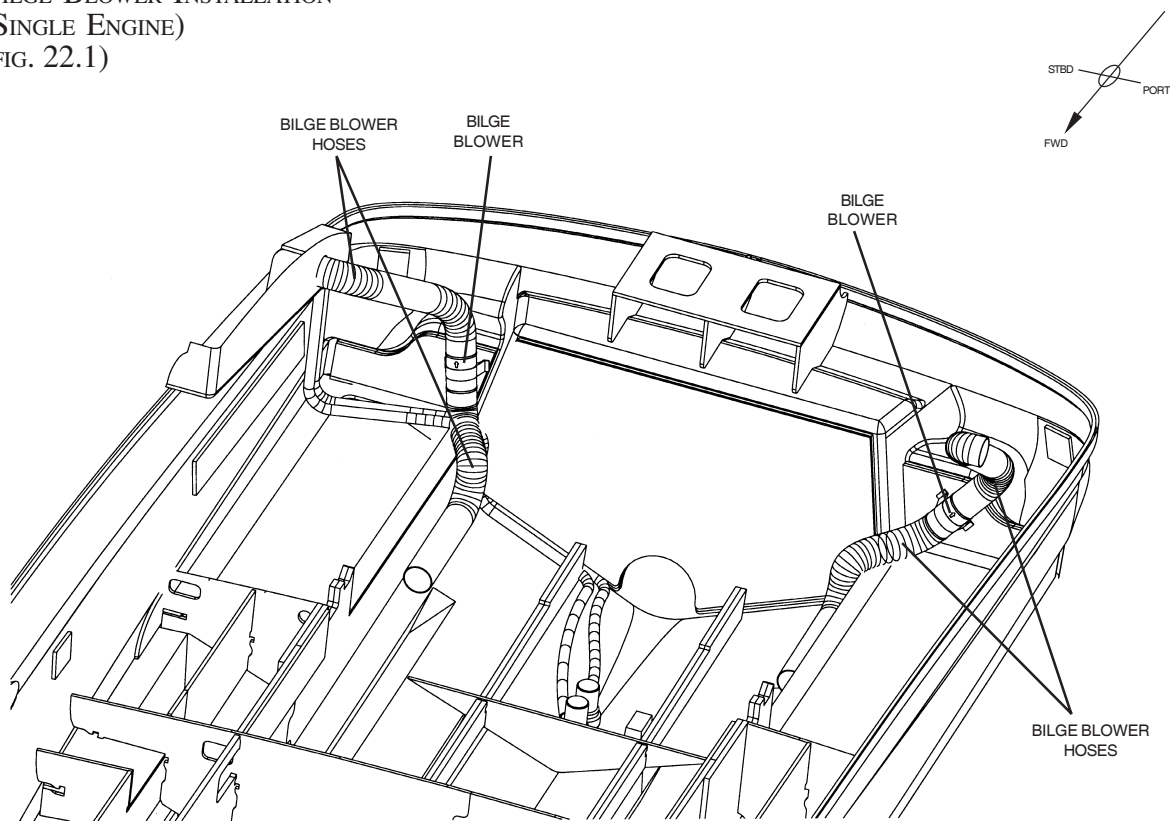
The 290 SLX is equipped with electric bilge blowers to remove fumes from the engine compartment and provide ventilation through the deck vents before starting the engine and when operating below cruising speeds. The bilge blowers are located in the engine compartment on the port and starboard sides of the transom.

Bilge blower switches are located on the helm switch

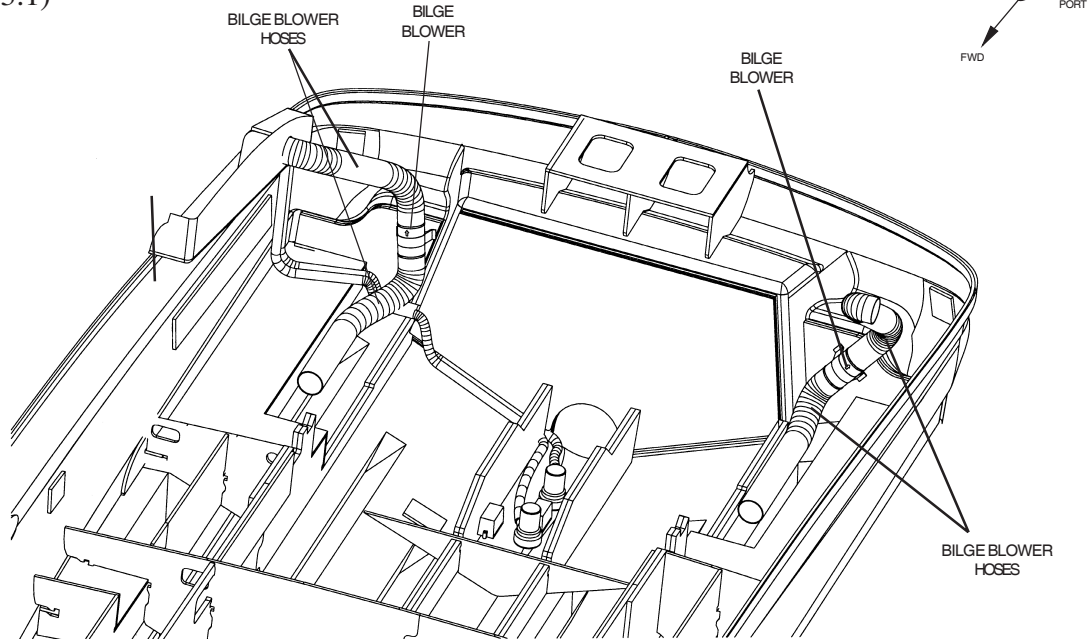
panel and the cabin DC distribution panel. Bilge blower breakers are located on the main DC breaker panel in the engine compartment.

The 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 cabin DC distribution panel. Also, they can be turned ON at one station and turned OFF at the other.

BILGE BLOWER INSTALLATION
(SINGLE ENGINE)
(FIG. 22.1)



BILGE BLOWER INSTALLATION (TWIN ENGINE OPTION) (FIG. 23.1)



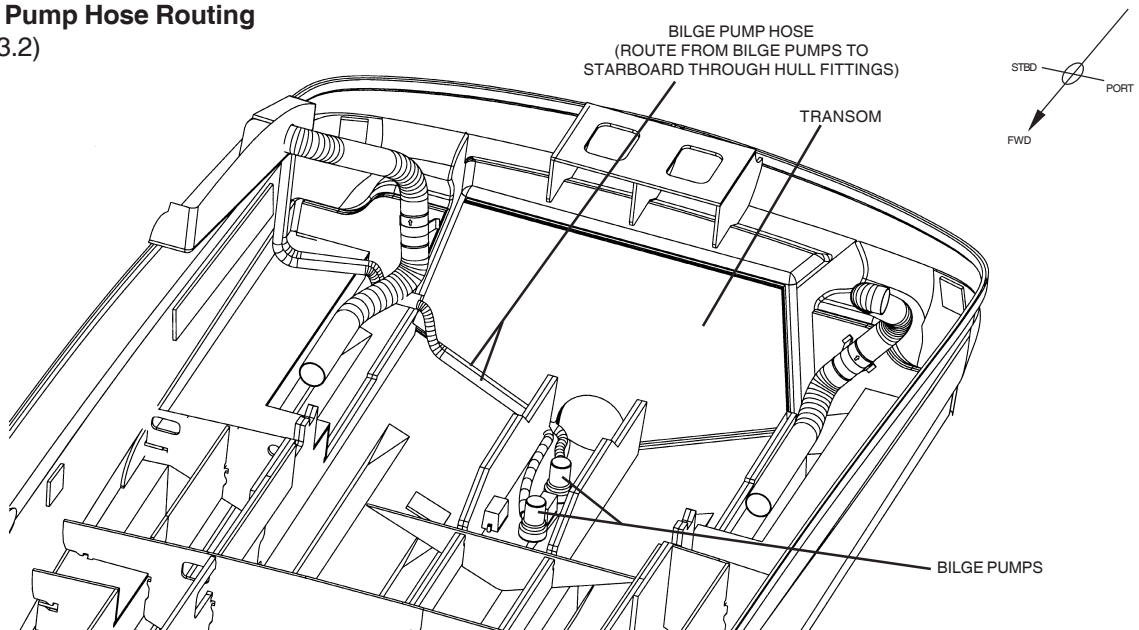
BILGE PUMP SYSTEM



The 290 SLX is equipped with an automatic bilge pump system and high water bilge pump and float switch. Refer to the owner's manual for detailed operating instructions.

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

Bilge Pump Hose Routing (fig. 23.2)

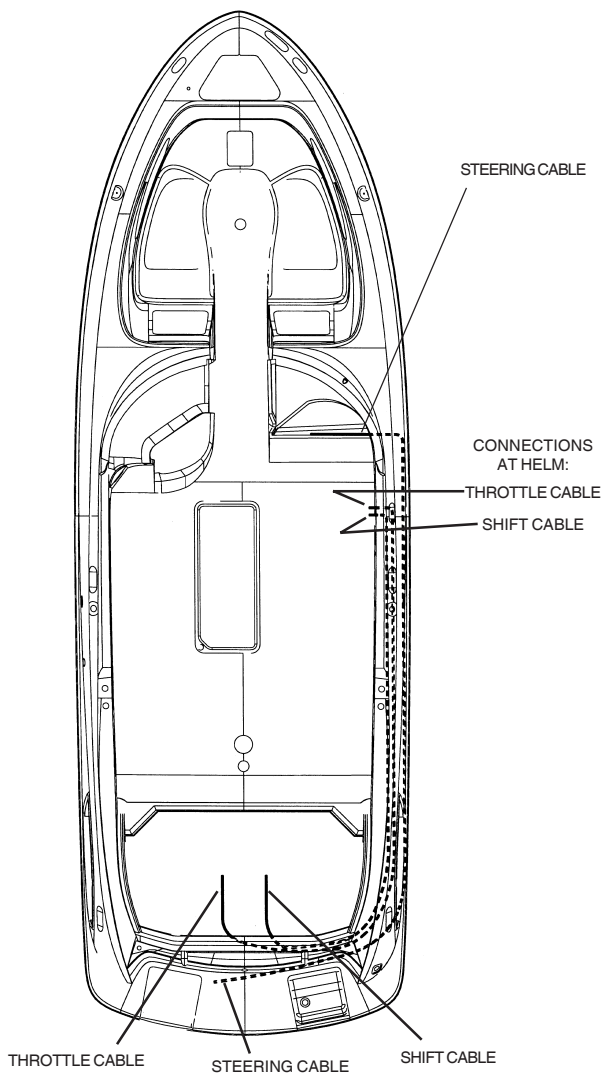


STEERING SYSTEM

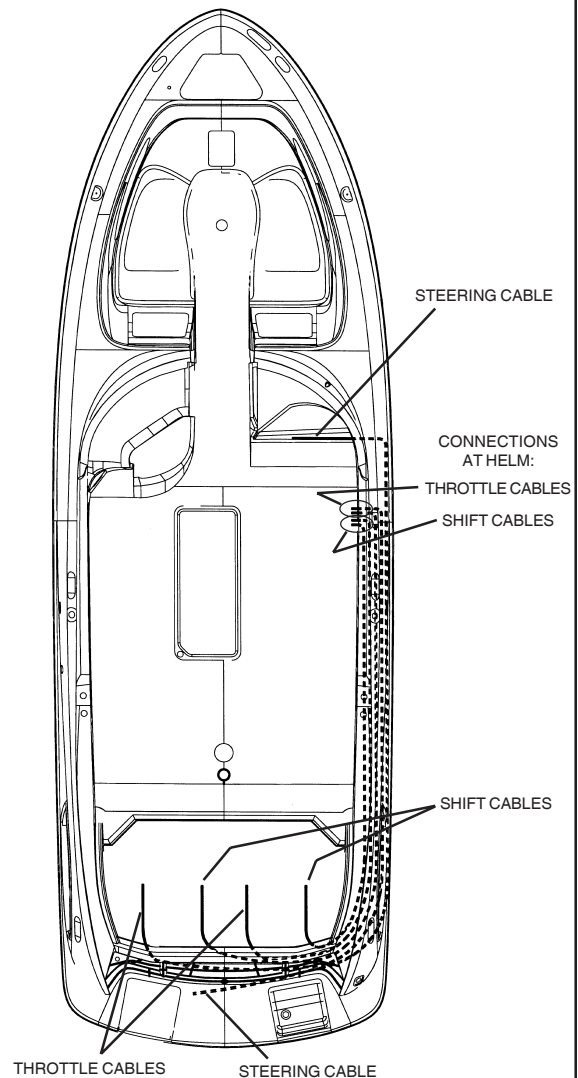
This boat is equipped with power steering.

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

POWER STEERING & SHIFT/THROTTLE
LINE ROUTING
(WITH SINGLE ENGINE) (FIG. 24.1)



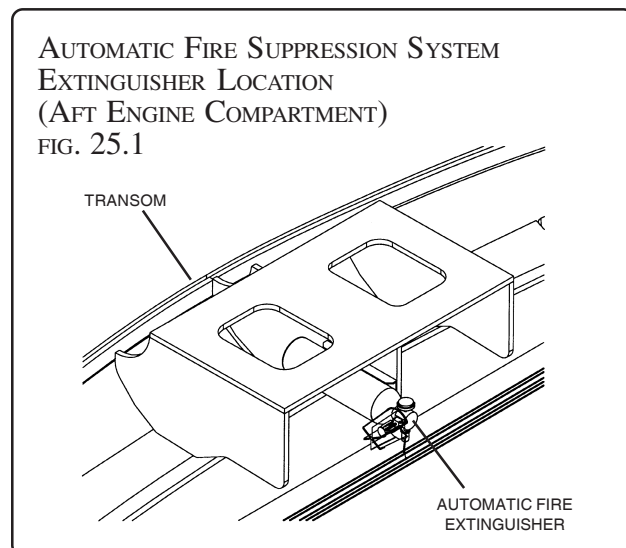
POWER STEERING & SHIFT/THROTTLE
LINE ROUTING
(WITH TWIN ENGINE OPTION) (FIG. 24.2)



FIRE EXTINGUISHING SYSTEM

The 290 SLX is equipped with the automatic fire suppression system. Refer to the owner's manual for detailed operating information.

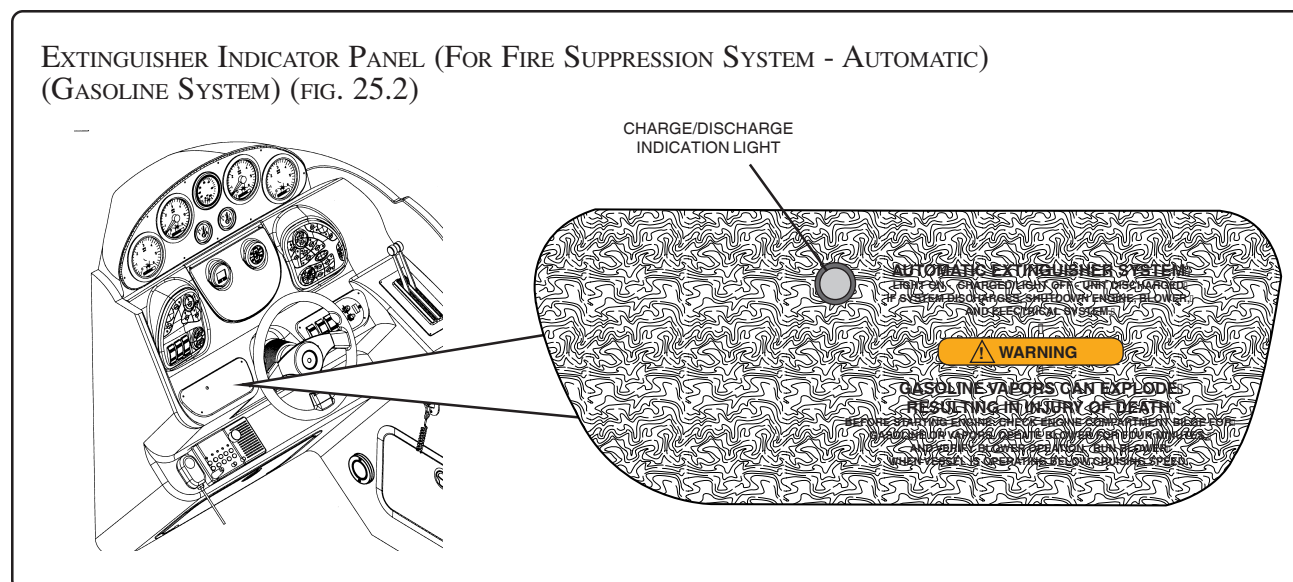
AUTOMATIC FIRE SUPPRESSION SYSTEM
EXTINGUISHER LOCATION
(AFT ENGINE COMPARTMENT)
FIG. 25.1



AUTOMATIC FIRE SUPPRESSION SYSTEM INDICATOR PANEL

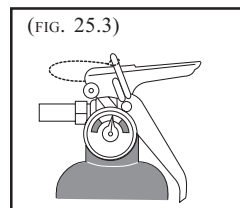
The system indicator light is wired to the ignition and is turned ON when the ignition is turned ON. The system indicator light is located on the helm instrument panel. Under normal circumstances, when the ignition is ON the indicator light is lit. If the unit discharges, the light will go out. Refer to the *Accessories* section in the *Owner's Manual* for detailed information.

EXTINGUISHER INDICATOR PANEL (FOR FIRE SUPPRESSION SYSTEM - AUTOMATIC)
(GASOLINE SYSTEM) (FIG. 25.2)



PORTABLE FIRE EXTINGUISHERS:

(FIG. 25.3)



In addition to the automatic system your boat needs to be equipped with approved portable fire extinguishers. It is your responsibility to equip and maintain fire extinguishers.

U.S. Coast Guard Requirements: Boats equipped with a approved fixed fire extinguishing system are required to carry **1** type **B-I** extinguisher. Boats not equipped with a approved fixed fire extinguishing system are required to carry **2** type **B-I** or **1** type **B-II** extinguishers.

American Boat & Yacht Council (ABYC):

The ABYC recommends carrying **2** type **ABC-I** extinguishers for open boats over 26 feet (8 meters) but less than 40 feet (12 meters).

Extinguisher Locations: Outside engine compartment, steering postion and or passenger cockpit.

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



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.

ENGINE OIL CHANGE SYSTEM

Your Sport Cruiser is equipped with the oil change system that allows used oil to be drained out the transom through hoses that pull out of the drain plug(s) holes.

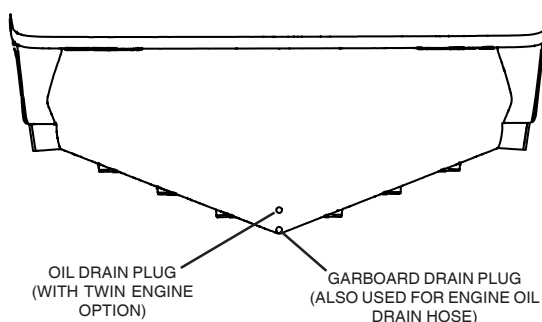
Note: When boat is equipped with one engine there is one plug on the transom. When boat is equipped with twin engine option there are two plugs on the transom.

To Operate:

1. Remove oil fill cap. (To allow ventilation)
2. Remove hull drain plug(s) on transom and pull oil drain hose(s) out of hole.
3. Have enough empty containers at hand to hold all of the used oil. Remove plug in the end of the hose(s). Let oil drain into container(s).
4. When all of the used oil has drained out of the engine(s) reinstall the plug into the hose(s). Push oil drain hose back into hull and reinstall hull drain plug(s).
5. Follow oil change instructions provided by the engine manufacturer.

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

OIL CHANGE PLUGS / GARBOARD DRAIN PLUGS
(FIG. 26.1)



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.

ANCHORING ARRANGEMENT

Standard:

This Sport Cruiser is equipped with an anchor storage compartment and anchor cradle. Store the anchor in the anchor cradle when not in use.

The anchor storage compartment drain should be kept clear of obstructions.

Optional Windlass & Anchor Chute:

With this option the windlass is used to raise and lower the anchor and the anchor is stored in the anchor chute.

Note: Before using the windlass, be sure the anchor safety lanyard is removed from the anchor and the anchor is secured to the windlass chain.

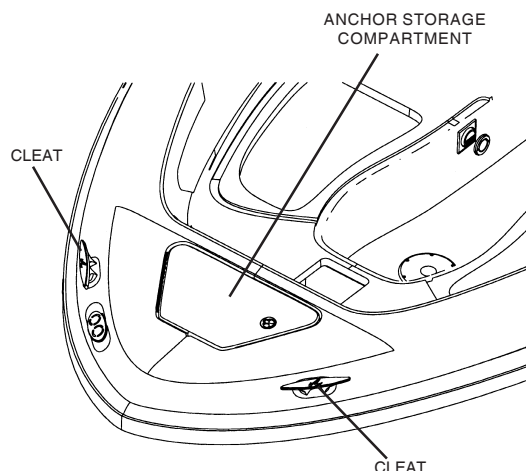
The manual winch handle is stored in the rope/chain storage compartment.

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

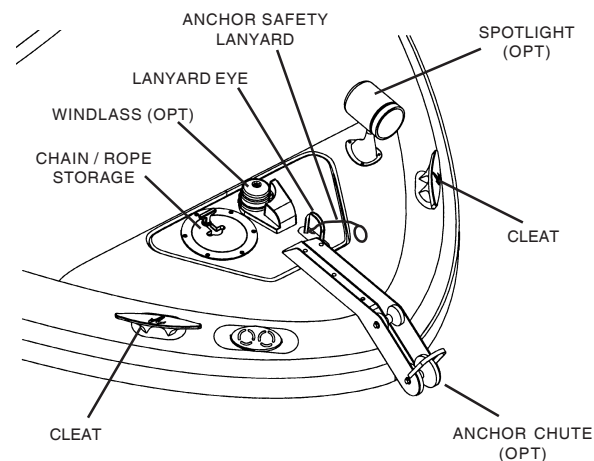
NOTICE

ATTACH THE SAFETY LANYARD TO THE ANCHOR to insure that the anchor is held in place should the windlass fail. DO NOT use the safety lanyard to SUPPORT the anchor in a stored position.

ANCHOR ARRANGEMENT
(STANDARD) (FIG. 27.1)

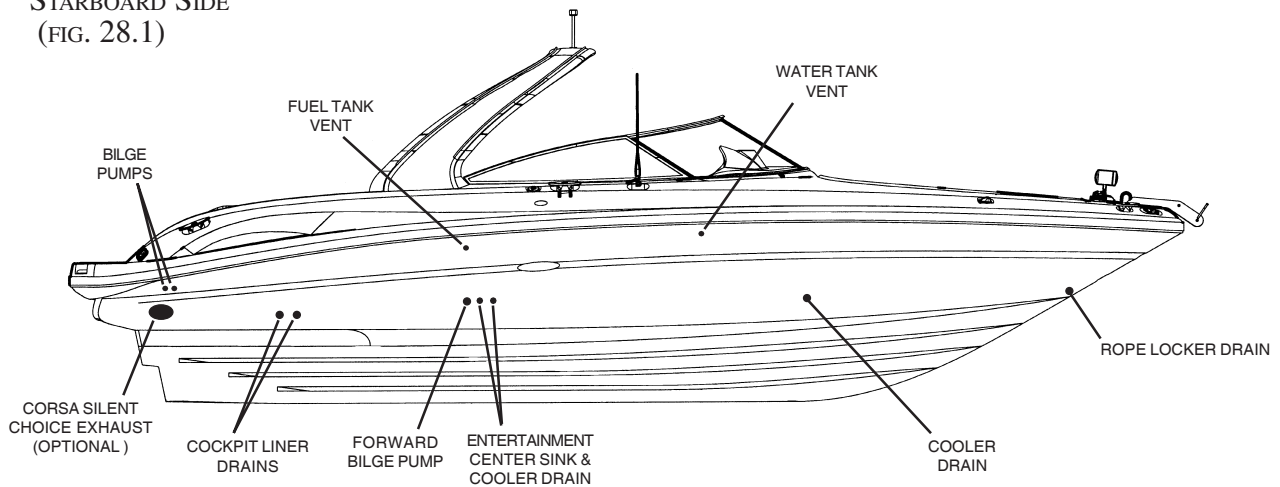


ANCHOR ARRANGEMENT
(OPTIONAL WINDLASS & ANCHOR CHUTE)
(FIG. 27.2)

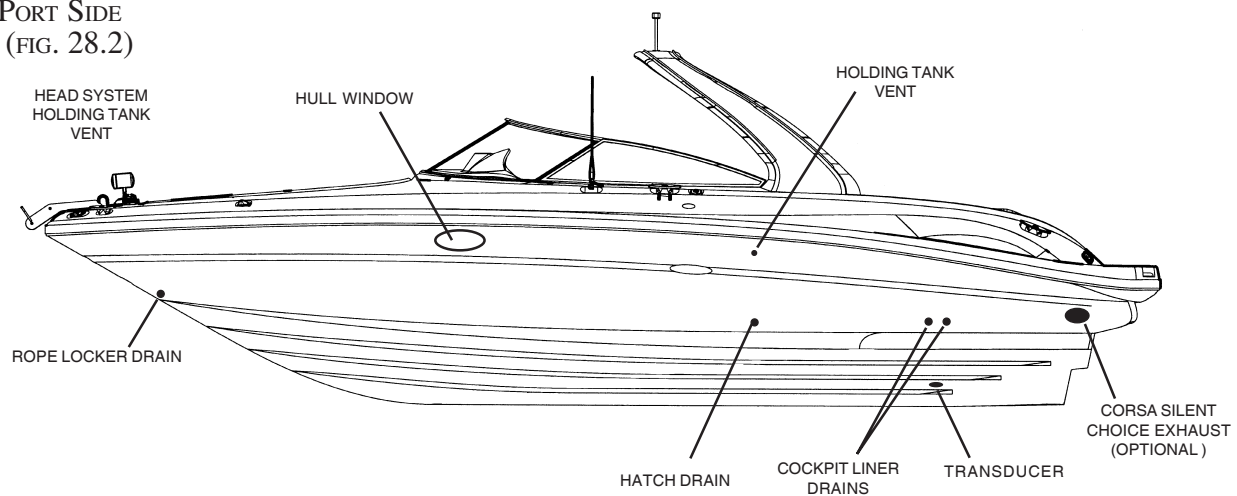


LOCATION OF THROUGH-HULL FITTINGS

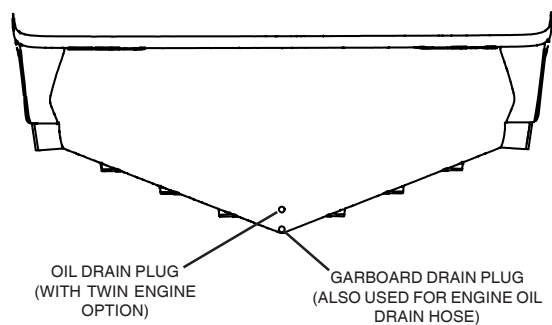
STARBOARD SIDE
(FIG. 28.1)



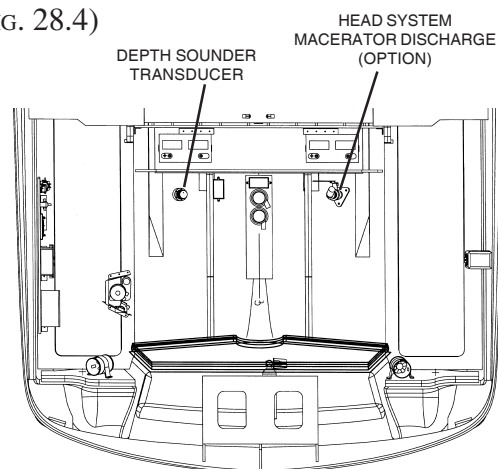
PORT SIDE
(FIG. 28.2)



TRANSOM CUTOUTS
(FIG. 28.3)



HULL CUTOUTS
(FIG. 28.4)



CANVAS INFORMATION

CANVAS

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

Read and understand the effects of carbon monoxide in the Owner's Manual and how to ventilate your Sport 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.

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

- Sunbrella® Bimini Top, With Boot

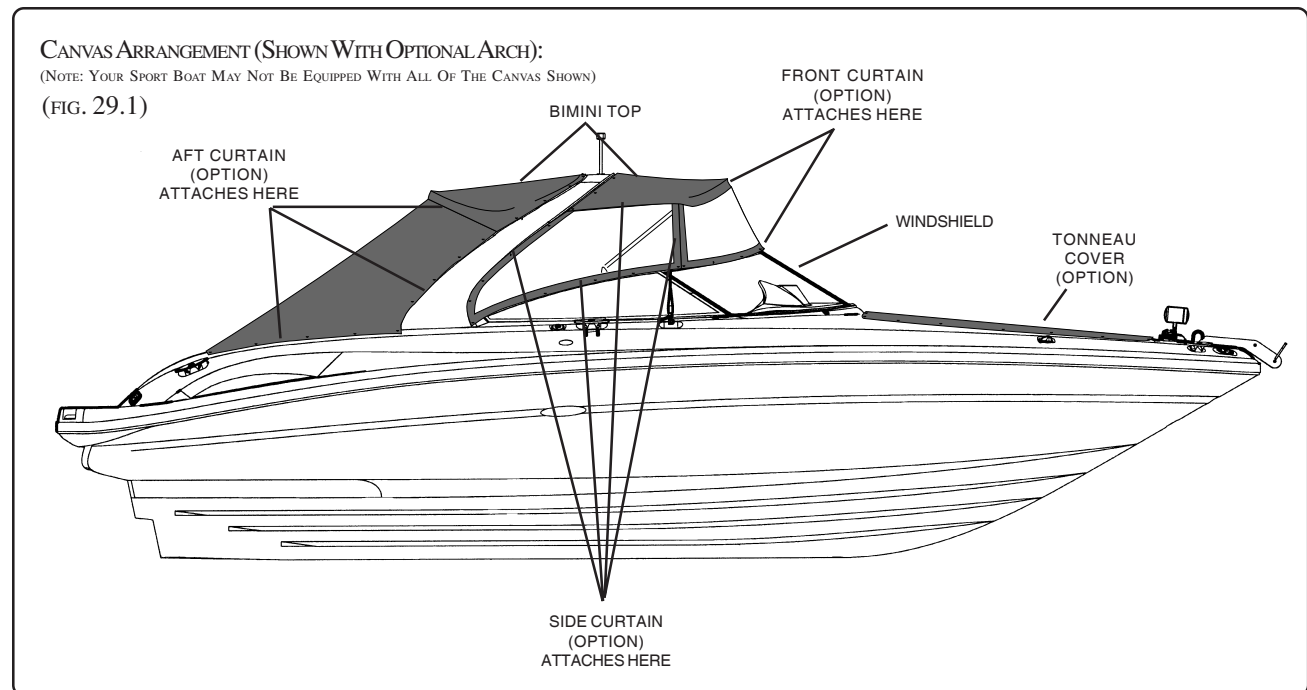
Canvas options available consist of the following pieces:

- Canvas Package:
 - Aft Cover (Not available with CORSA® Exhaust Option)
 - Camper Top With Boot
 - Front Curtains
 - Side Curtains (Bimini & Camper)
 - Tonneau Cover
 - Canvas Storage Bag

! 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

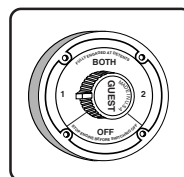


ELECTRICAL INFORMATION

ELECTRICAL INSTALLATION

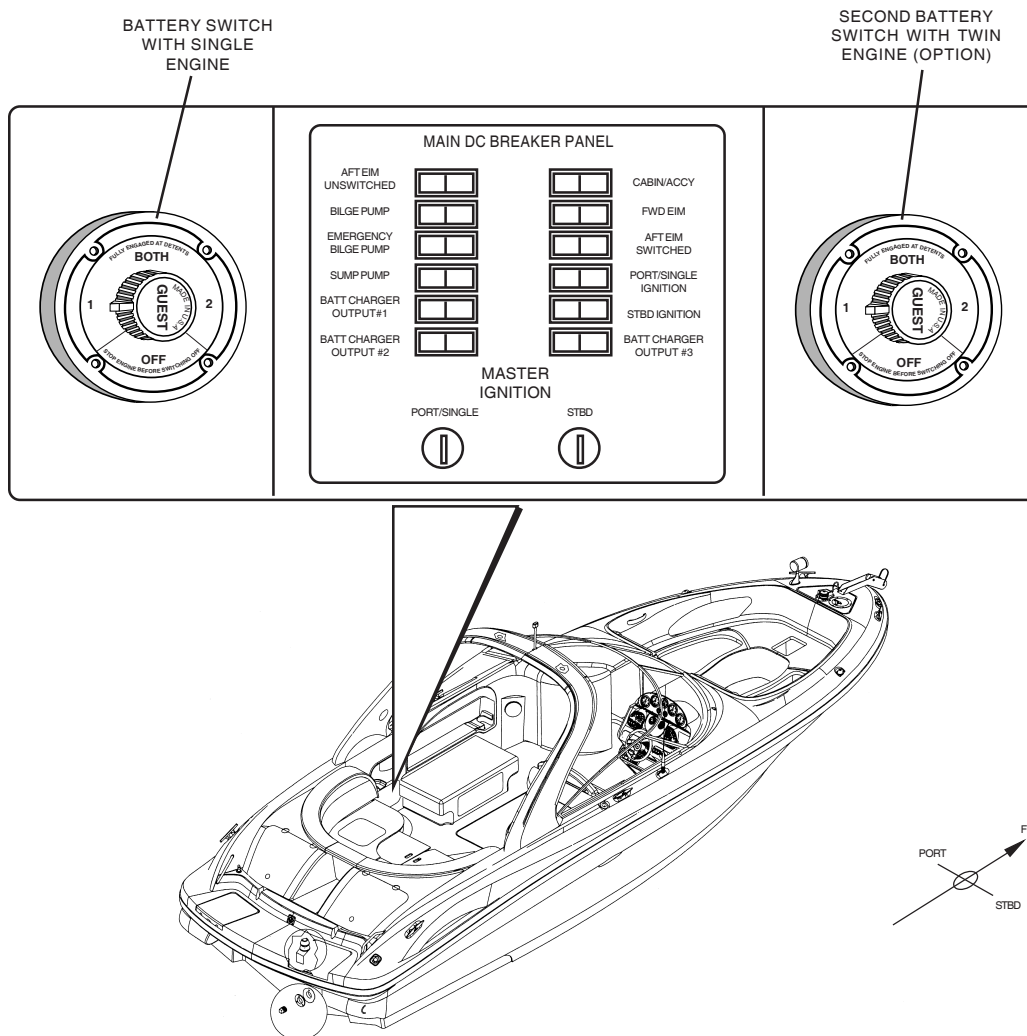
This owner's manual supplement contains electrical schematics for your boat. These electrical schematics were generated by technicians at the engineering division for technical reference and service technicians. Sea Ray® does not recommend that you attempt to work on the boat's electrical system yourself,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

BATTERY SWITCH (OPTION)



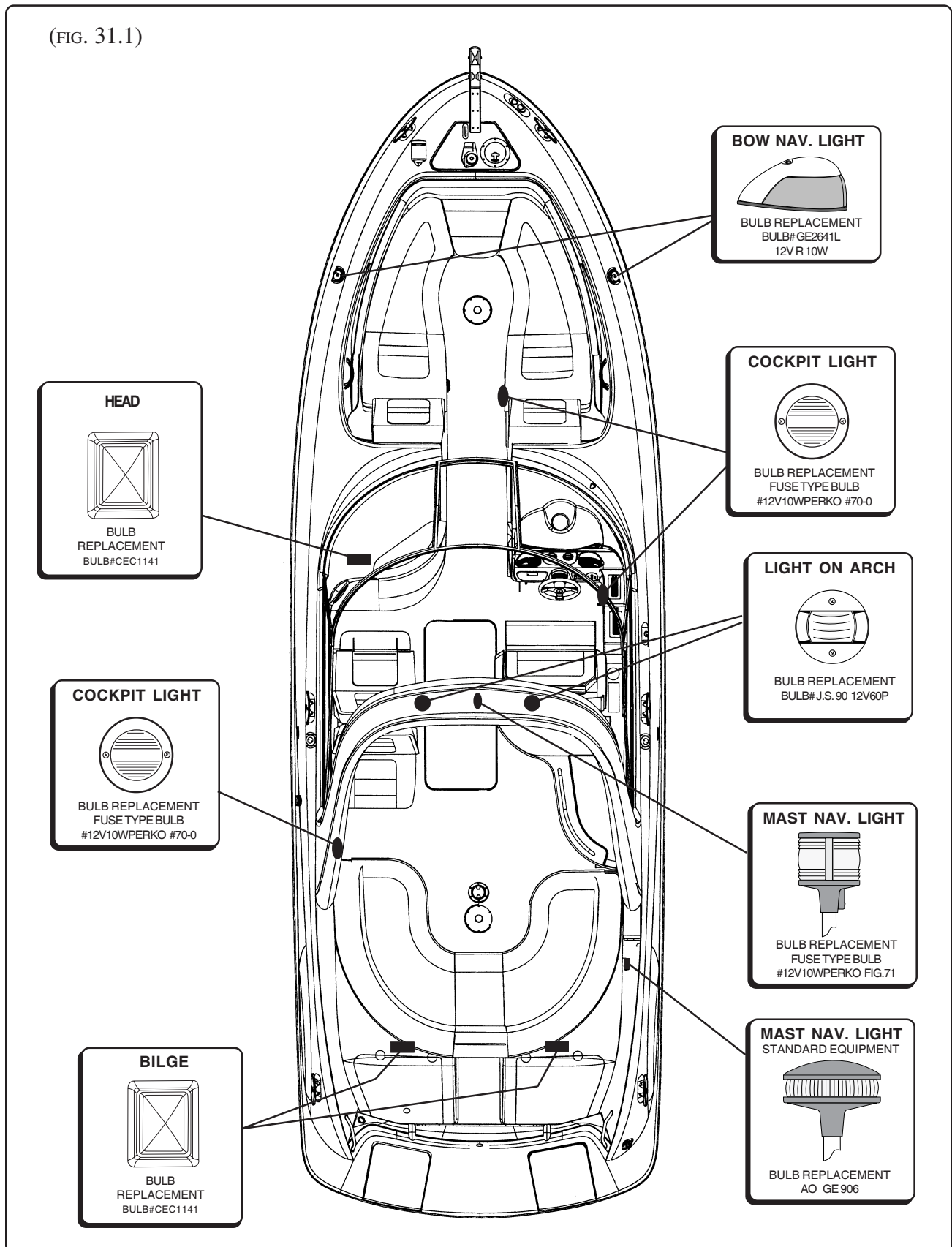
Your boat is equipped with a dual battery on/off switch. The battery switch controls the delivery of DC loads to start the engine(s) and operate accessories.

BATTERY SWITCH & MAIN DC BREAKER PANEL LOCATIONS (PORT COCKPIT)
(FIG. 30.1)



LIGHTING LOCATIONS

(FIG. 31.1)

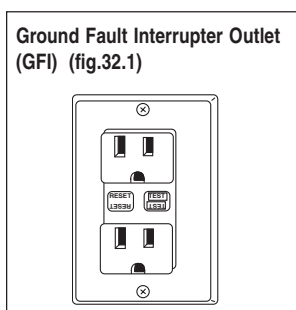


DOCKING LIGHTS (OPTIONAL)

(FIG. 32.2)

The optional docking lights are protected by a 15A fuse on the FWD Electronic Module (See Fig. 36.1). They are operated by pressing the FWD ACCY switch on the PORT SWITCH PAD at the helm.

GROUND FAULT INTERRUPTER (GFI) OUTLET LOCATIONS & ASSOCIATED LOADS (WITH 120 VOLT SHORE POWER OPTION)



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

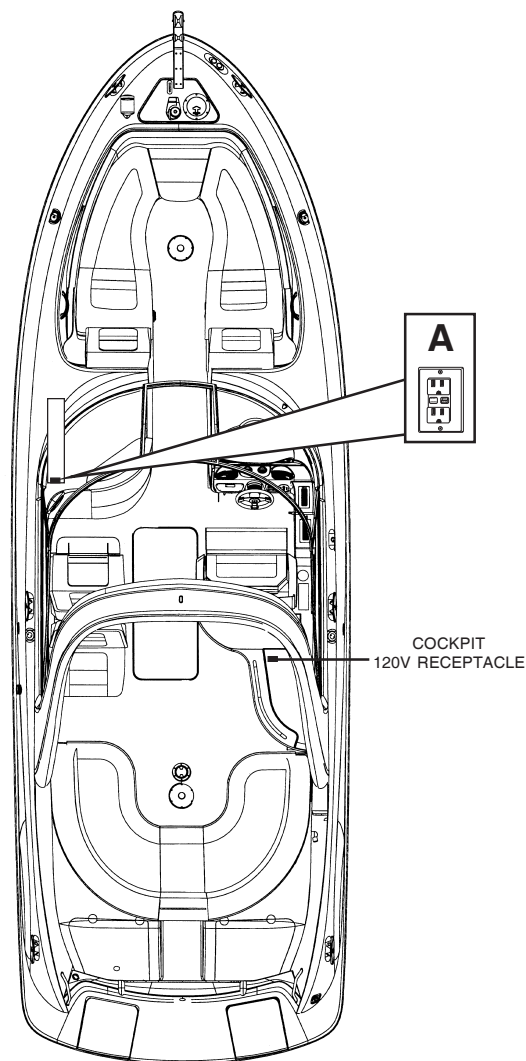
If any of the accessories on your boat fail to turn on, check the associated GFI outlet breaker first.

GFI Location

A: Head- Inside back head storage cubby.

Associated Loads

- Head GFI Receptacle
- Refrigerator 12/120 Volt
- Cockpit Receptacle



ELECTRONIC SWITCH PADS & ELECTRONIC INTERFACE MODULES (EIM)

Your Sea Ray® Sport Cruiser is equipped with illuminated waterproof electronic switch pads. The individual switch functions are indicated by ISO symbols. (See FIG. 11.2 and 11.3)

Electrical equipment illustrated on the switch pads are connected to the Electronic Interface Modules (EIM's).

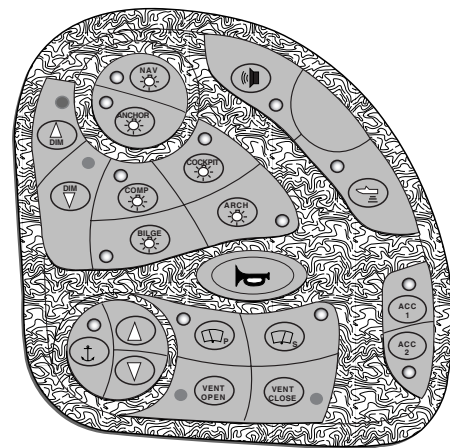
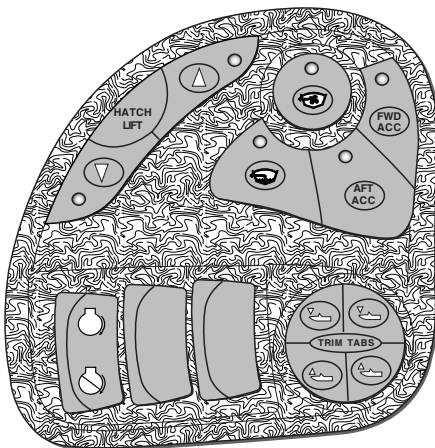
Each EIM is fitted with breakers for each piece of equipment connected to it. If a piece of electrical equipment will not function check its corresponding breaker on the EIM.

ELECTRONIC SWITCH PADS & ELECTRONIC INTERFACE MODULES (EIM) LOCATIONS (FIG. 33.1)

NOTE: Switch pads and EIM's are generic in nature and may be used on more than one Sea Ray® model. Not all accessories shown on switch pads or EIM's are standard equipment or even available as options. Options and accessories subject to change without notice.

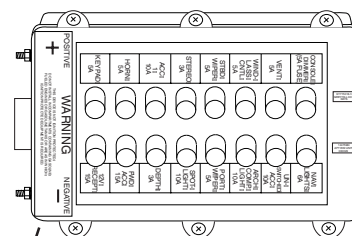
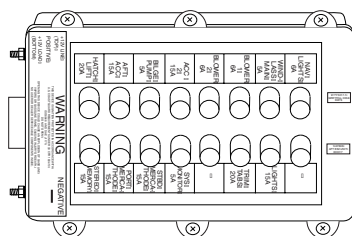
PORT SWITCH PAD

STARBOARD SWITCH PAD

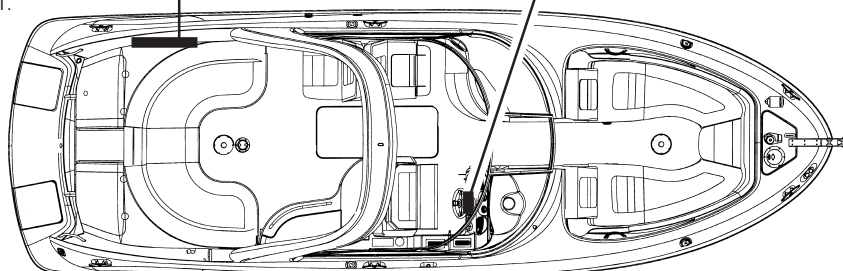


AFT ELECTRONIC INTERFACE MODULE (EIM)
(LOCATED ON THE ACCESSORY BOARD ON THE PORT SIDE OF THE ENGINE COMPARTMENT)

FORWARD ELECTRONIC INTERFACE MODULE (EIM)
(LOCATED AT THE HELM IN THE COMPARTMENT BELOW THE ENGINE SHIFT AND THROTTLE)

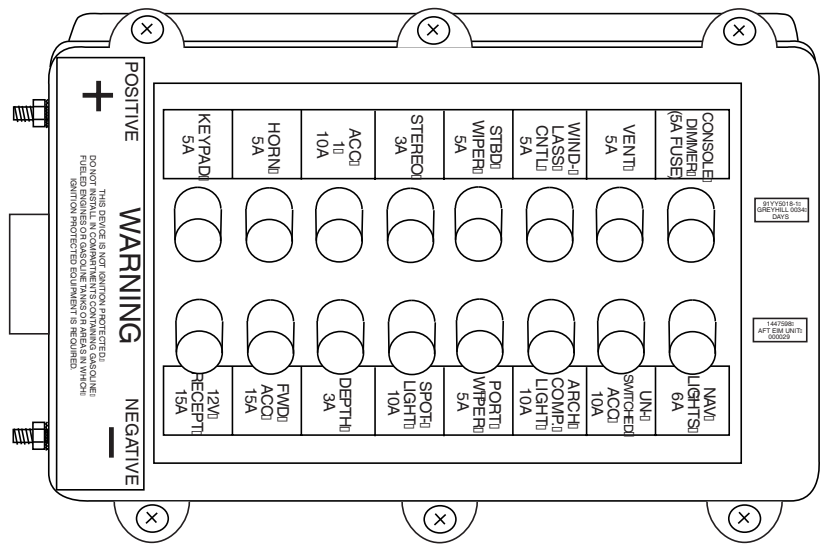


NOTE: THIS BOX IS IGNITION PROTECTED. DO NOT OPEN. READ WARNING ON BOX IN ENGINE COMPARTMENT.



ELECTRONIC INTERFACE MODULES (EIM)
(FIG. 34.1)

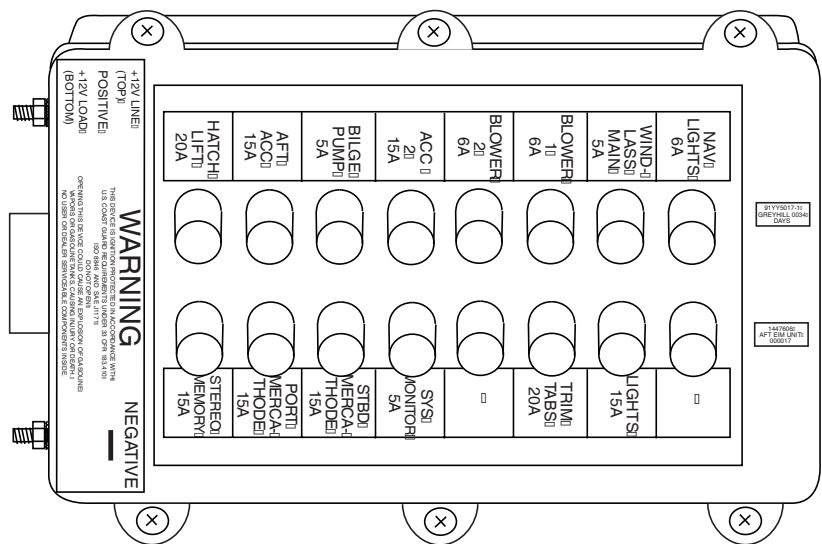
FORWARD ELECTRONIC INTERFACE MODULE (EIM)
(LOCATED AT THE HELM IN THE COMPARTMENT
BELOW THE STEERING WHEEL)



(FIG. 34.2)

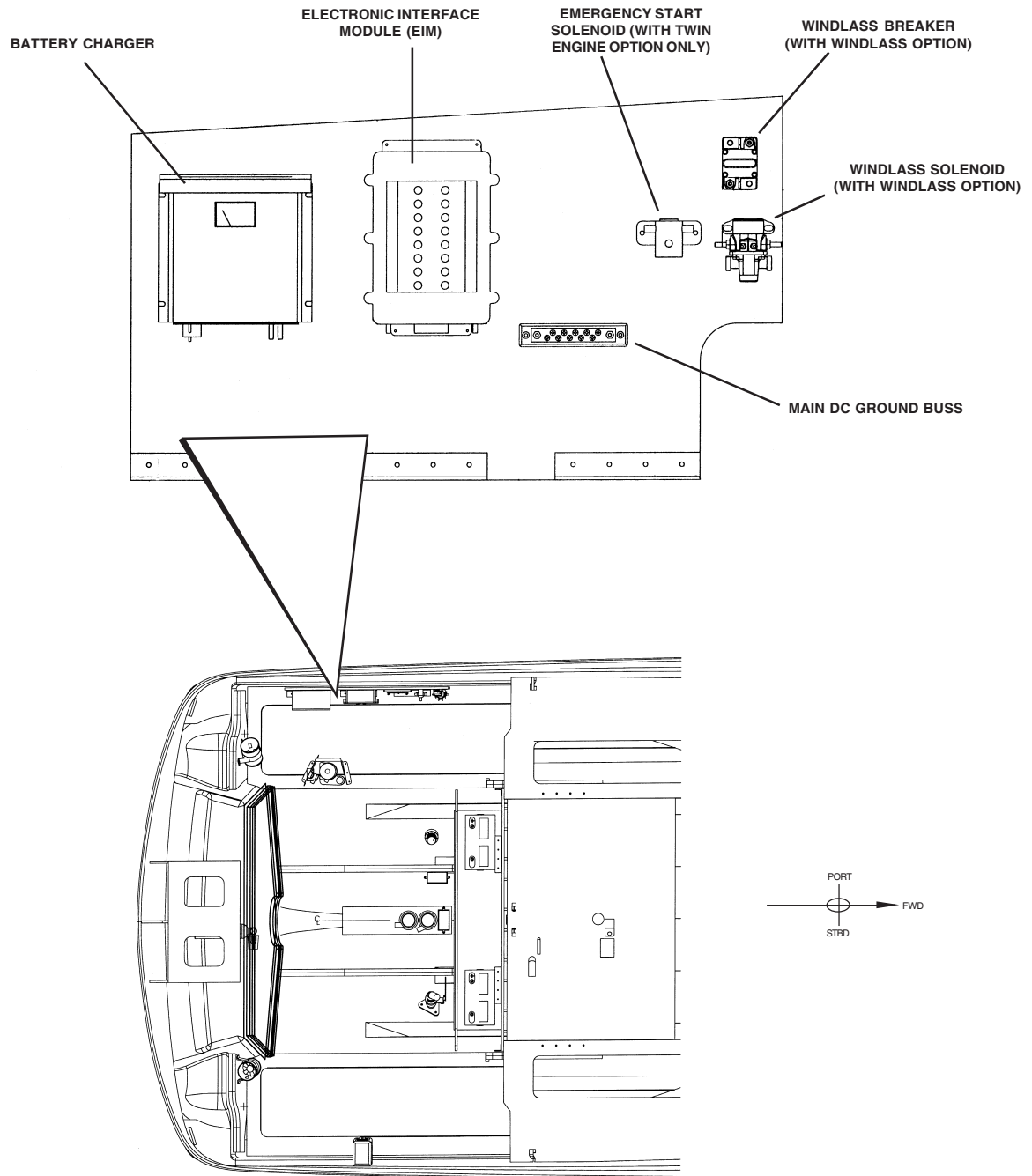
AFT ELECTRONIC INTERFACE MODULE (EIM)
(LOCATED ON THE ACCESSORY BOARD ON THE
PORT SIDE OF THE ENGINE COMPARTMENT)

NOTE: THIS BOX IS IGNITION PROTECTED. DO NOT OPEN!
READ WARNING ON BOX IN ENGINE COMPARTMENT.



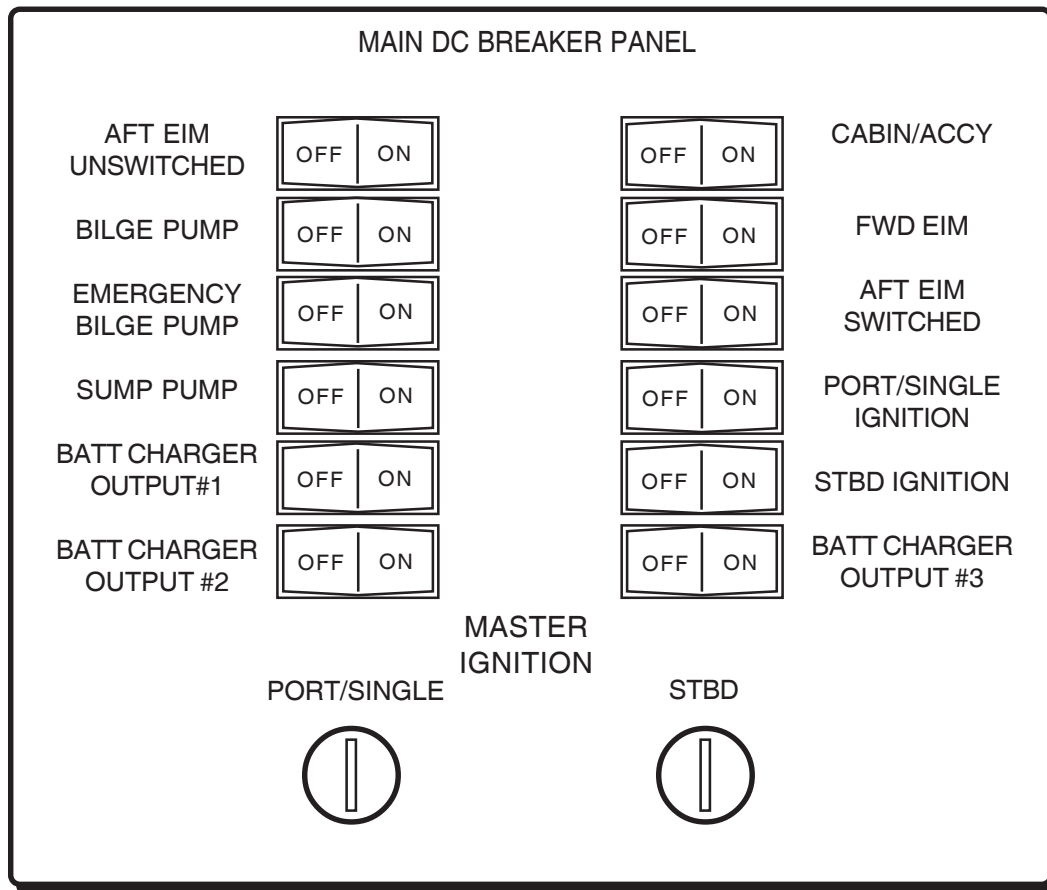
BILGE ACCESSORY BOARD

BILGE ACCESSORY BOARD (LOCATED ON THE PORT SIDE OF THE ENGINE ROOM)
(FIG. 35.1)



MAIN DC DISTRIBUTION PANEL

MAIN DC BREAKER PANEL (LOCATED IN THE AFT PORT COCKPIT COMPARTMENT)
(FIG. 36.1)



12 Volt DC Breakers

Amperage

Aft EIM Unswitched	30
Bilge Pump	6
Emergency Bilge Pump	6
Sump Pump	5
Battery Charger Output #1	50
Battery Charger Output #2	50

12 Volt DC Breakers

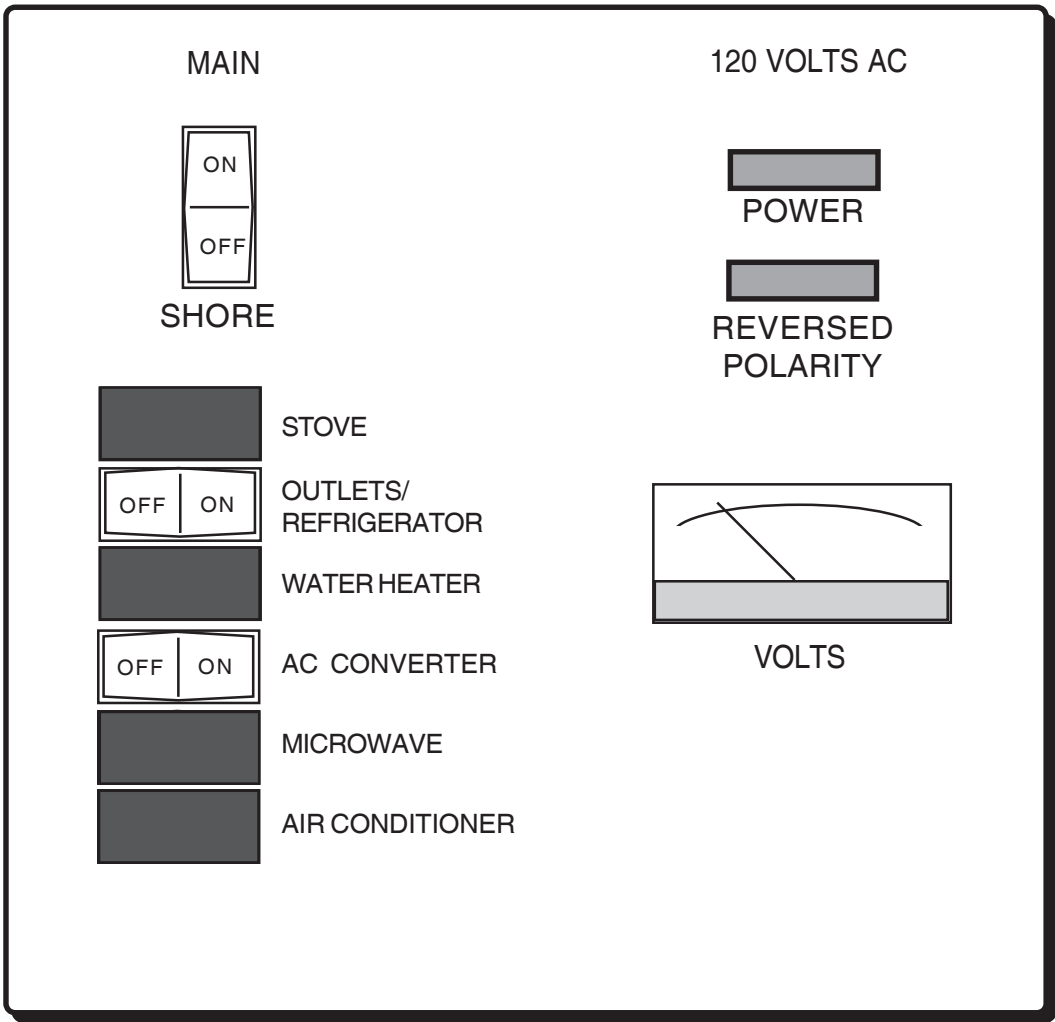
Amperage

Cabin/Accessory	50
Forward EIM	50
Aft EIM Switched	50
Port/Single Ignition	10
Starboard Ignition	10
Battery Charger Output #3	50



MAIN DISTRIBUTION PANEL

MAIN DISTRIBUTION PANEL
(LOCATED ON THE PORT SIDE OF THE CABIN)
(FIG. 37.1)



120 Volt AC Breakers	Amperage	220 Volt AC Breaker (International)	Amperage
Shore	30	Shore	20
Stove (N/A)	Plugged	Stove (N/A)	Plugged
Outlets/Refrigerator	20	Outlets/Refrigerator	10
Water Heater (N/A)	Plugged	Water Heater (N/A)	Plugged
AC Converter (Option)	10	AC Converter (Option)	5
Microwave (N/A)	Plugged	Microwave (N/A)	Plugged
Air Conditioner (N/A)	Plugged	Air Conditioner (N/A)	Plugged

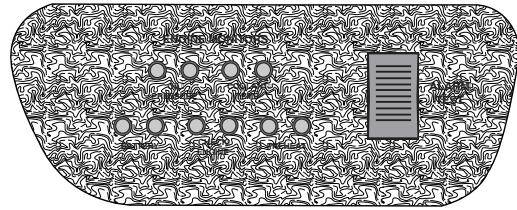


MERCURY® DIESEL ENGINE MONITOR (OPTION)

If our Sport Cruiser is equipped with the optional diesel engine monitor, refer to the information provided by the engine manufacture in the owner's packet.

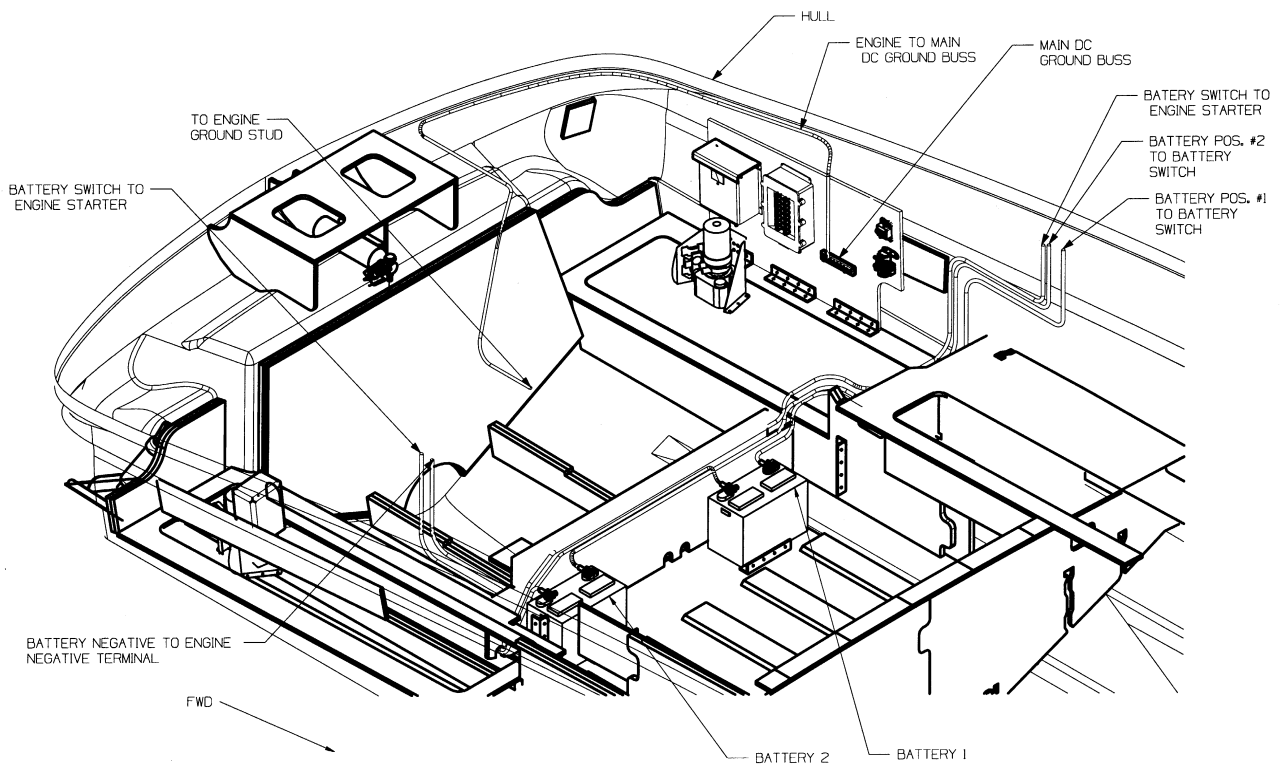
REFER TO OWNER'S MANUAL PACKET FOR INSTRUCTIONS AND WARRANTY INFORMATION.

MERCURY DIESEL ENGINE MONITOR (OPTION)
(FIG. 38.1)



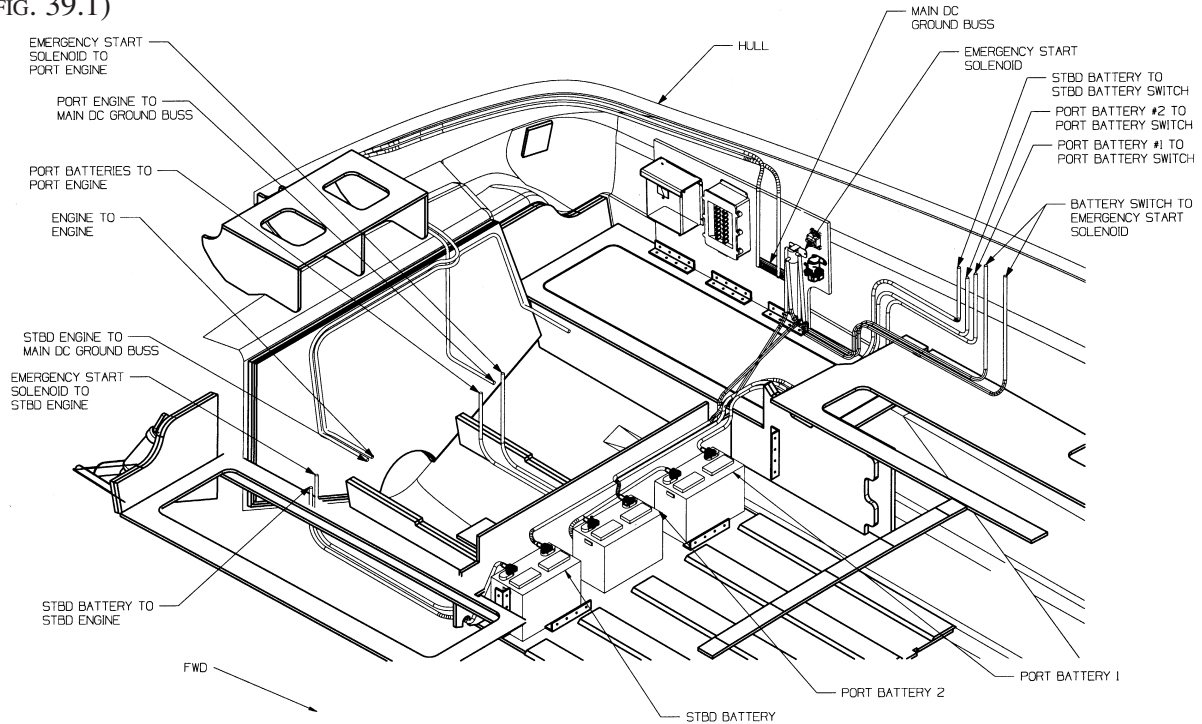
BATTERY CABLE ROUTING

BATTERY CABLE ROUTING (WITH SINGLE GASOLINE ENGINE) (PRINT# 09-270, 1 OF 1, REVISION# 0)
(FIG. 38.1)

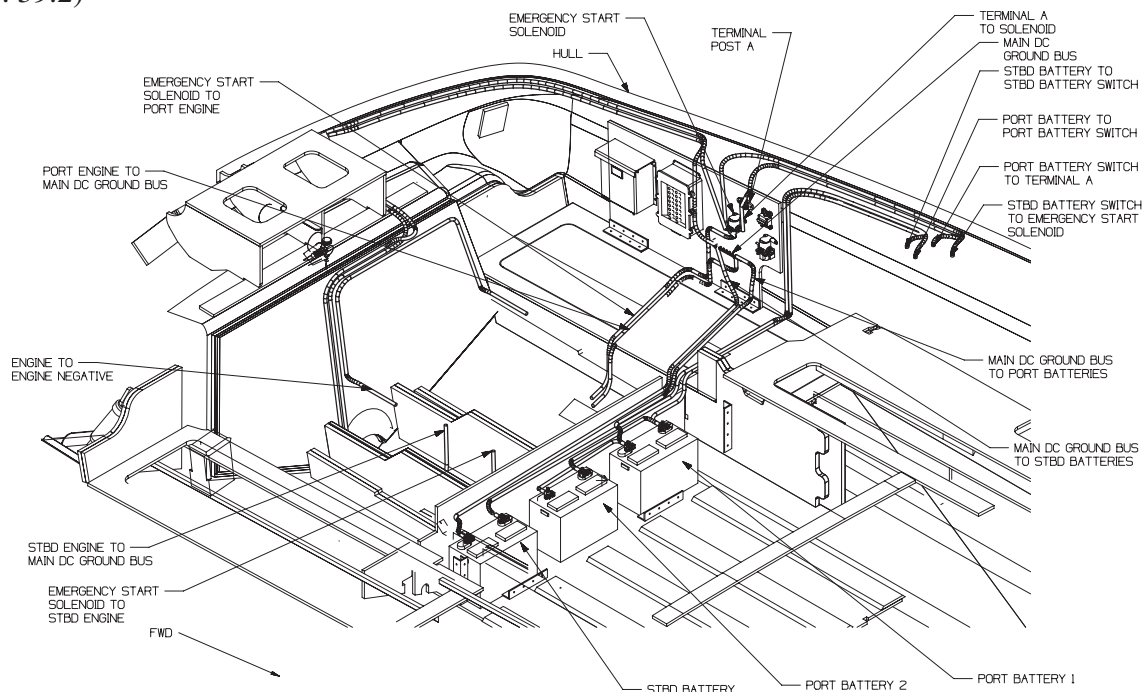


BATTERY CABLE ROUTING (CONTINUED)

BATTERY CABLE ROUTING (WITH TWIN DIESEL ENGINE) (PRINT# 09-272, 1 OF 1, REVISION #0)
(FIG. 39.1)

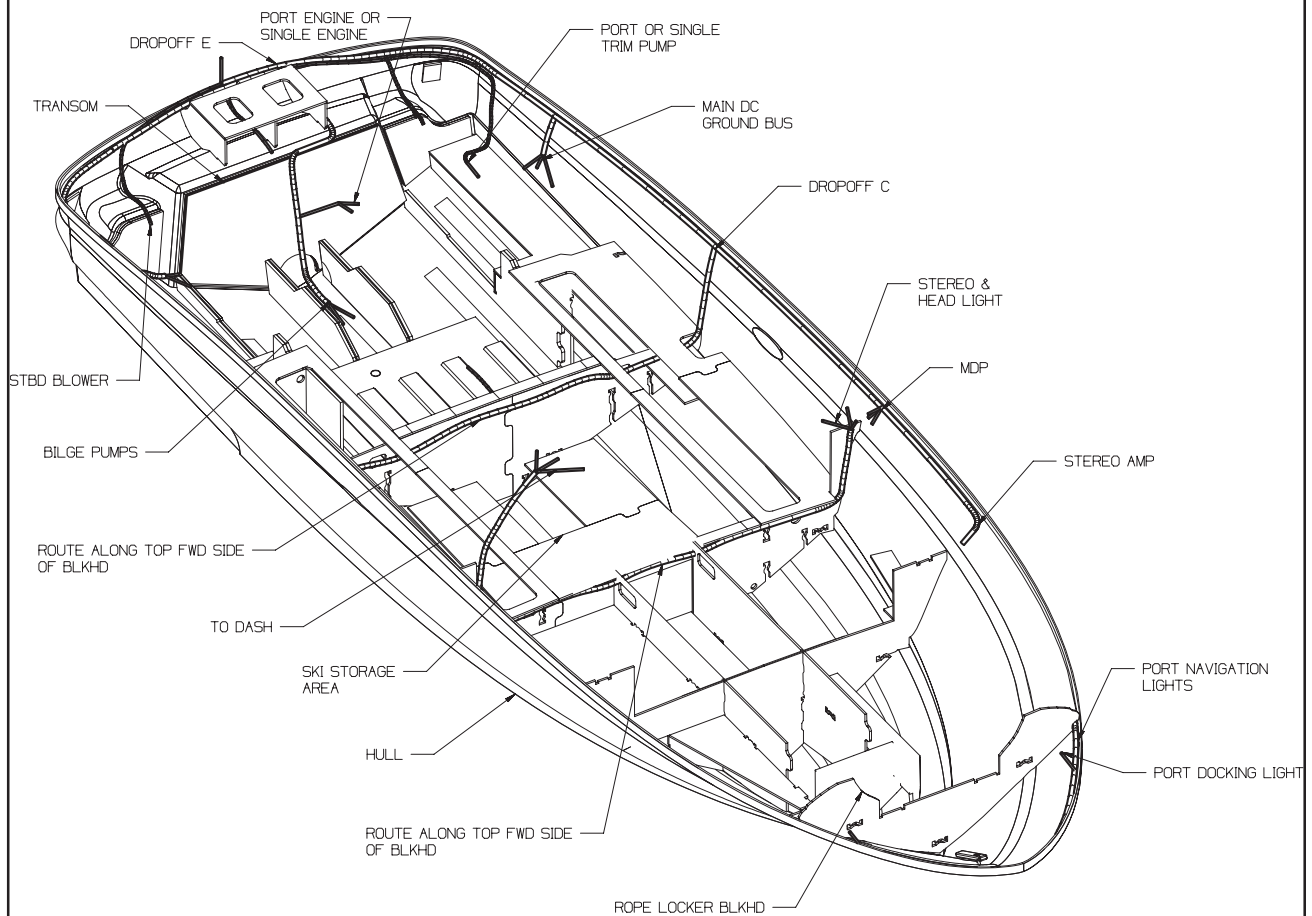


BATTERY CABLE ROUTING (WITH VOLVO DIESEL ENGINE) (PRINT# 09-274, 1 OF 1, REVISION #1)
(FIG. 39.2)



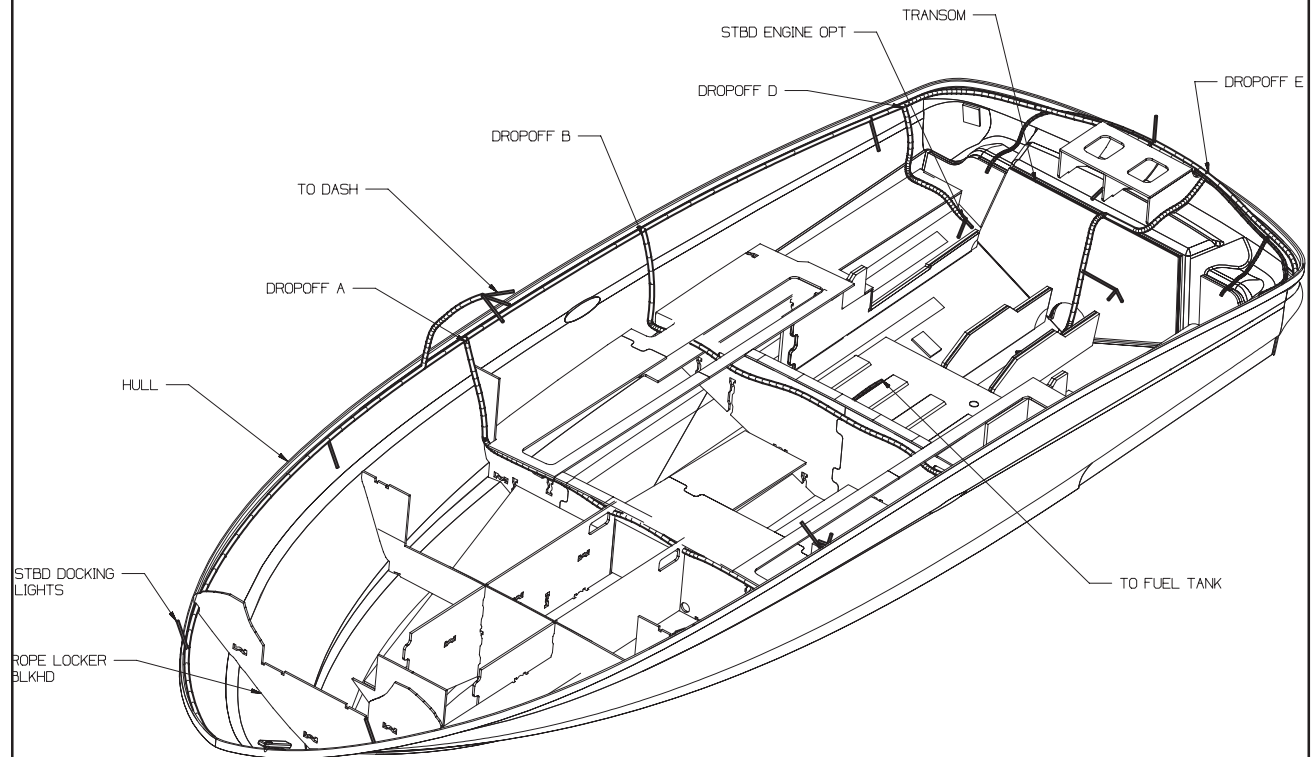
WIRE HARNESS INSTALLATION

WIRING HARNESS INSTALLATION (PRINT #09-861, 1 OF 2, REVISION #1)
(FIG. 40.1)



WIRE HARNESS INSTALLATION (CONTINUED)

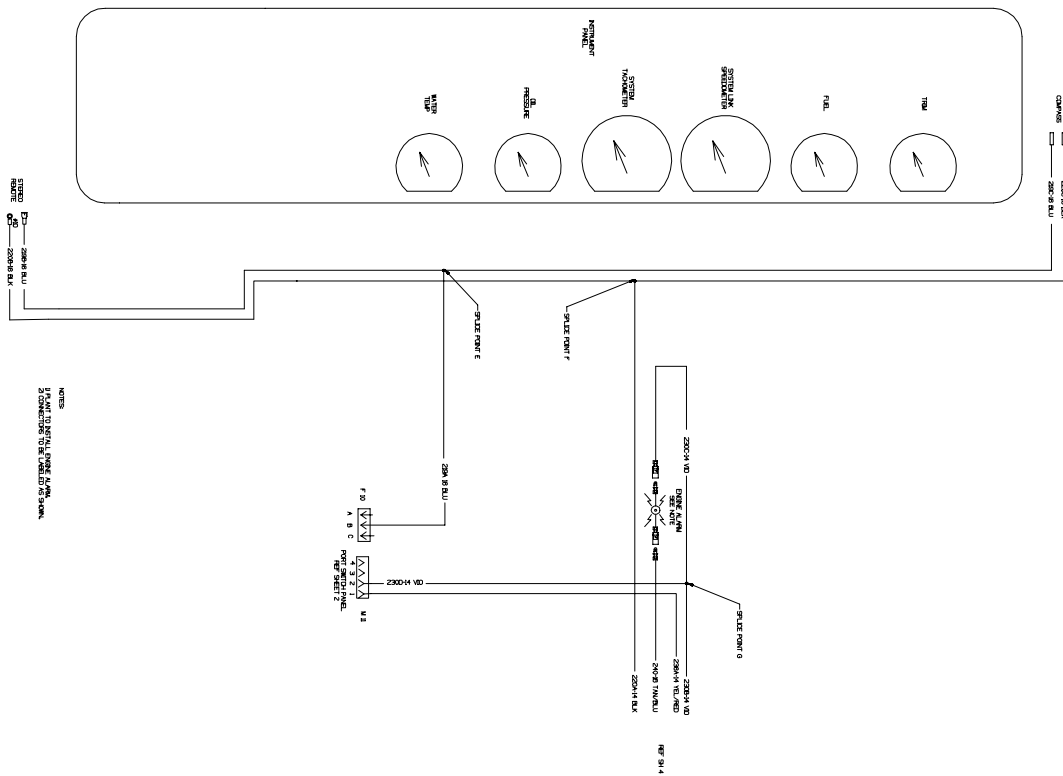
WIRING HARNESS INSTALLATION (PRINT #09-861, 2 OF 2, REVISION #1)
(FIG. 41.1)



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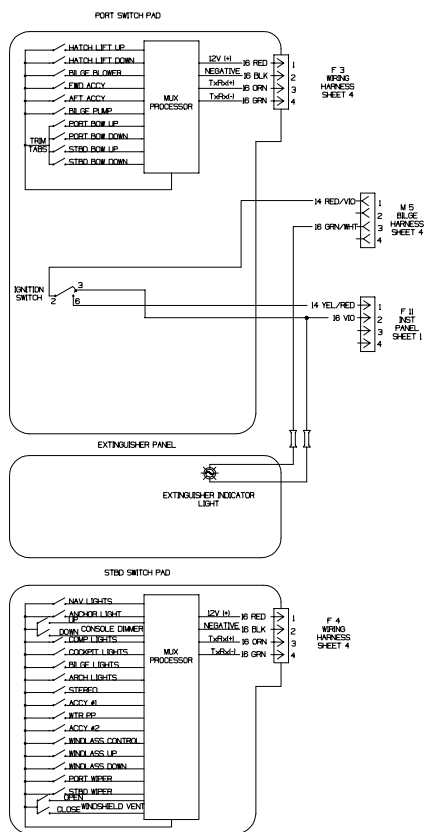
290 SLX • DC WIRING SCHEMATIC (1 OF 4)



Print# 09-601, 1 of 4, Revision# 2

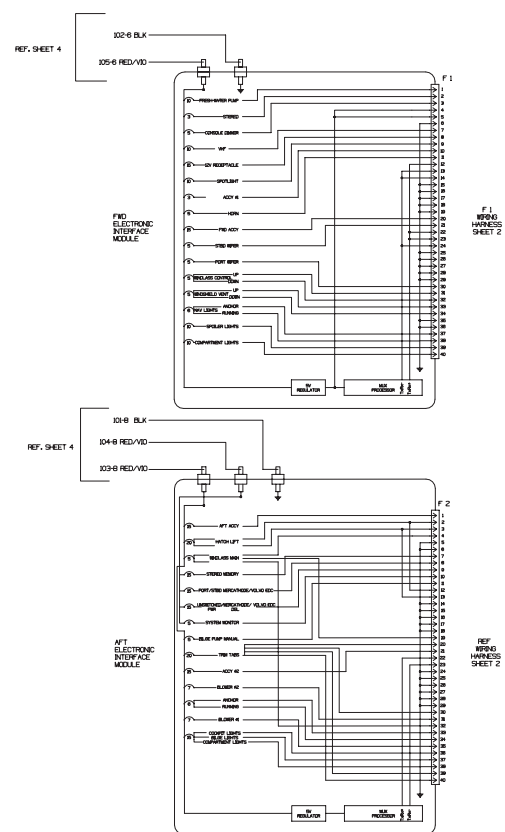


290 SLX • DC WIRING SCHEMATIC (2 OF 4)



Print# 09-601, 2 of 4, Revision #1

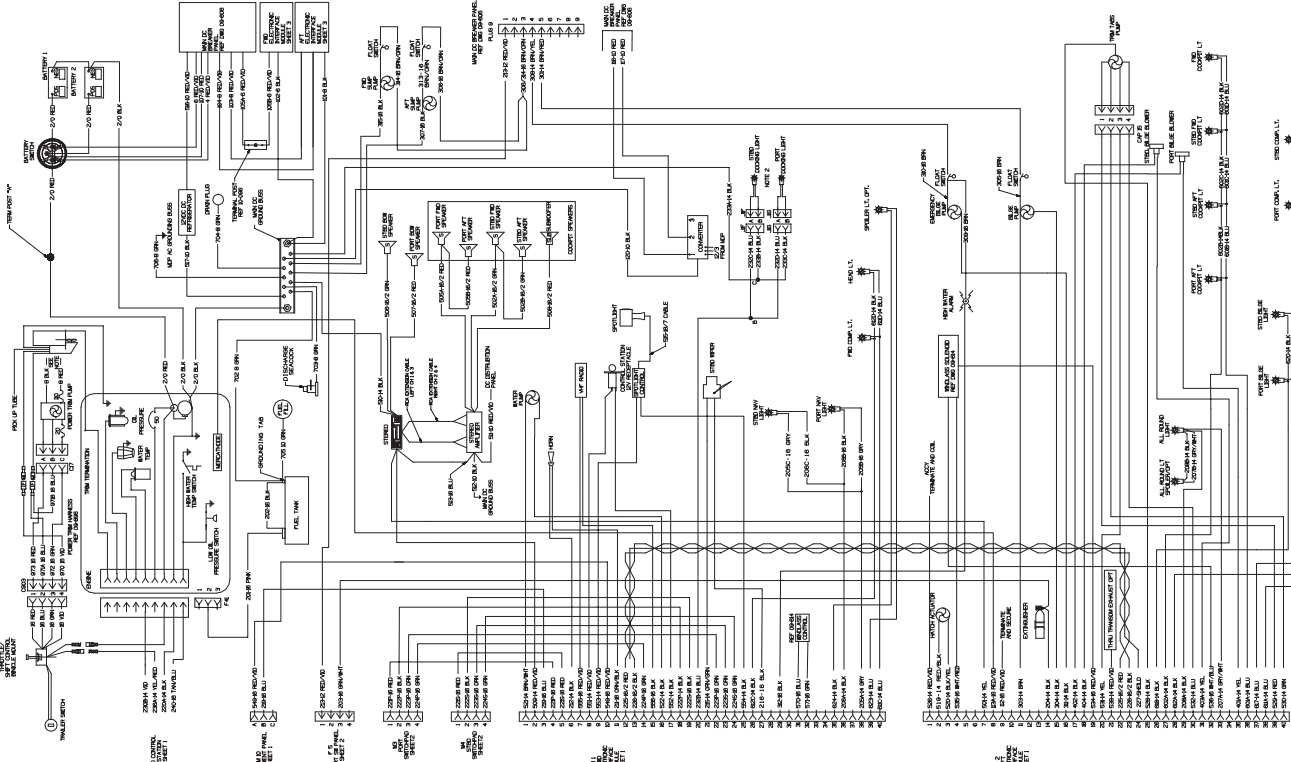
290 SLX • DC WIRING SCHEMATIC (3 OF 4)



Print# 09-601, 3 of 4, Revision #3

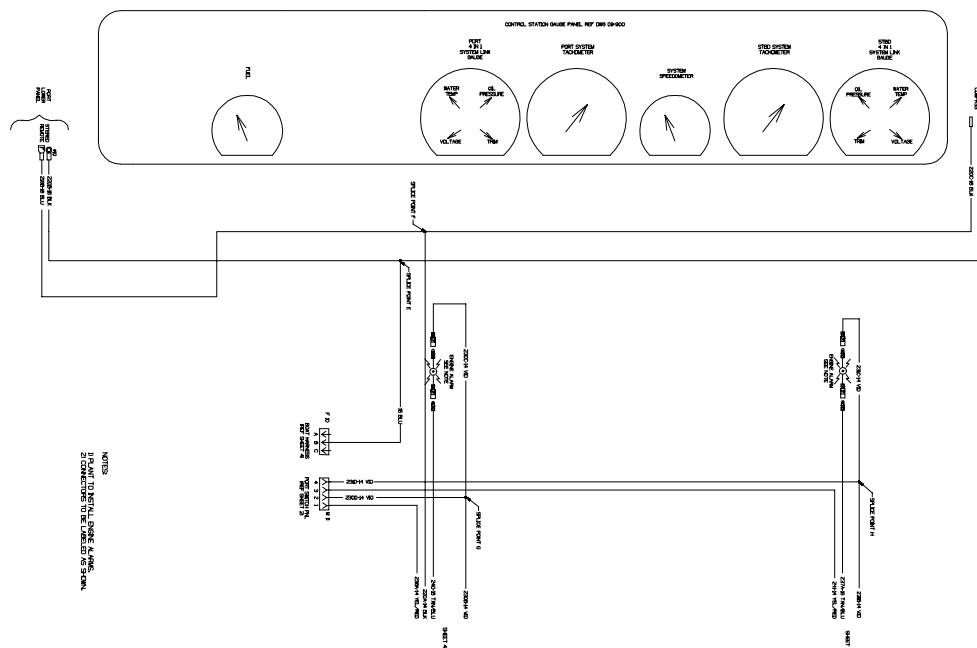


290 SLX • DC WIRING SCHEMATIC (4 OF 4)



Print# 09-601, 4 of 4, Revision# 7

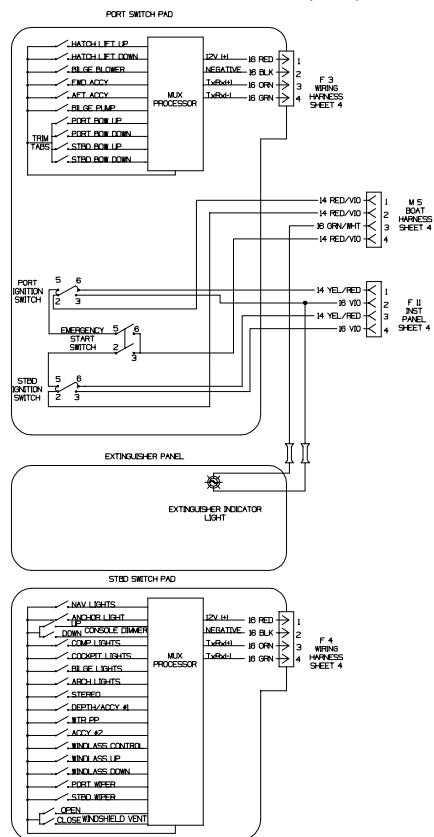
290 SLX • DC WIRING SCHEMATIC (TWIN ENGINE OPTION) (1 OF 4)



NOTES:
1) PLANT TO INSTALL ENGINE ALARMS.
2) CONNECTORS TO BE LABELED AS SHOWN.

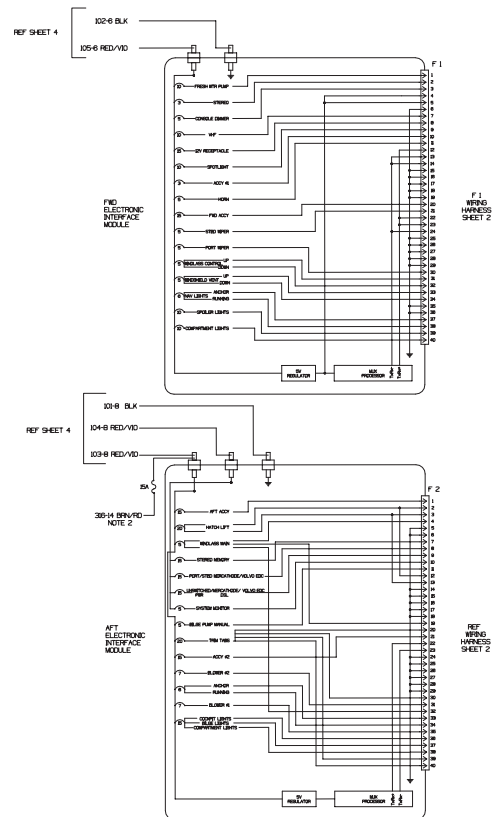
Print# 09-602, 1 of 4, Revision# 4

290 SLX • DC WIRING SCHEMATIC (TWIN ENGINE OPTION) (2 OF 4)



Print# 09-602, 2 of 4, Revision# 4

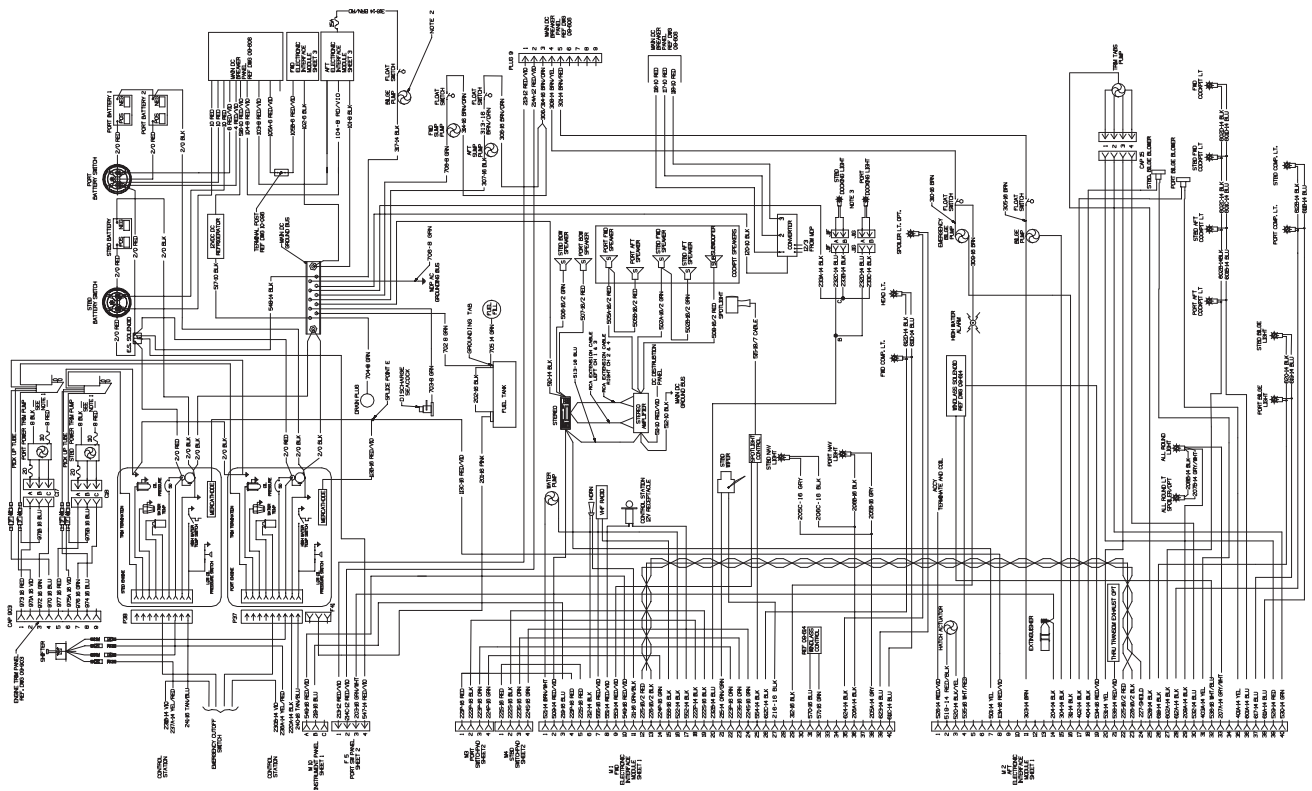
290 SLX • DC WIRING SCHEMATIC (TWIN ENGINE OPTION) (3 OF 4)



Print# 09-602, 3 of 4, Revision #5



290 SLX • DC WIRING SCHEMATIC (TWIN ENGINE OPTION) (4 OF 4)

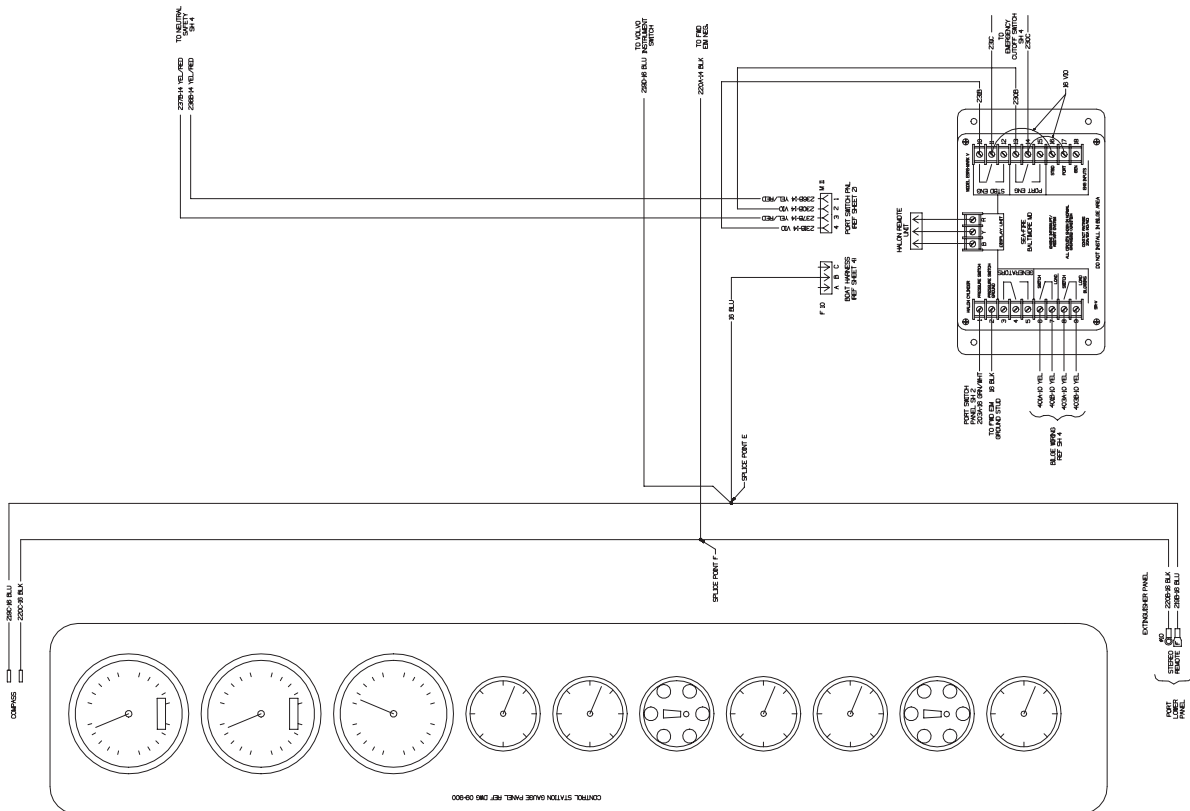


Print# 09-602, 4 of 4, Revision #8



290 Select EX

290 SLX • DC WIRING SCHEMATIC (TWIN VOLVO DIESEL) (1 OF 4)



Print# 09-603, 1 of 4

PORT SWITCH PAD

- HATCH LIFT UP
- HATCH LEFT DOWN
- VALVE PULLER
- END ACCY
- ACT ACCY
- VALVE PUMP
- PORT DOWN UP
- PORT DOWN DOWN
- STRD DOWN UP
- STRD DOWN DOWN

MUX PROCESSOR

14 RED/VIO

NEGATIVE - 16 BLK

203A-16 GRN/WHI

230A-14 YEL/RED

237A-14 RED

230A-16 VIO

PORT LIFT SWITCH

EMERGENCY START SWITCH

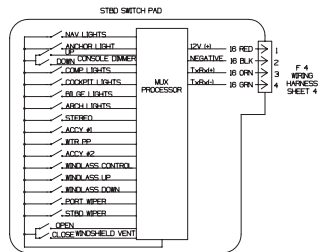
PORT DOWN SWITCH

STRD DOWN SWITCH

F-3 WFOED HARNESSES SHEET 4

F-11 INST PANEL SHEET 1

NOT USED FOR WILD DRESS PLANT TO FOLD BACK INTO HARNESS



REF SHEET 4

100-6 BLK

105-6 RED/VIO

F10 ELECTRONIC INTERFACE MODULE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

F1

101-8 BLK

104-8 RED/VIO

103-6 RED/VIO

300-4 BLK/VIO WIRE 2

300-4 BLK/VIO WIRE 1

F20 ELECTRONIC INTERFACE MODULE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

F2

REF SHEET 4

101-8 BLK

104-8 RED/VIO

103-6 RED/VIO

300-4 BLK/VIO WIRE 2

300-4 BLK/VIO WIRE 1

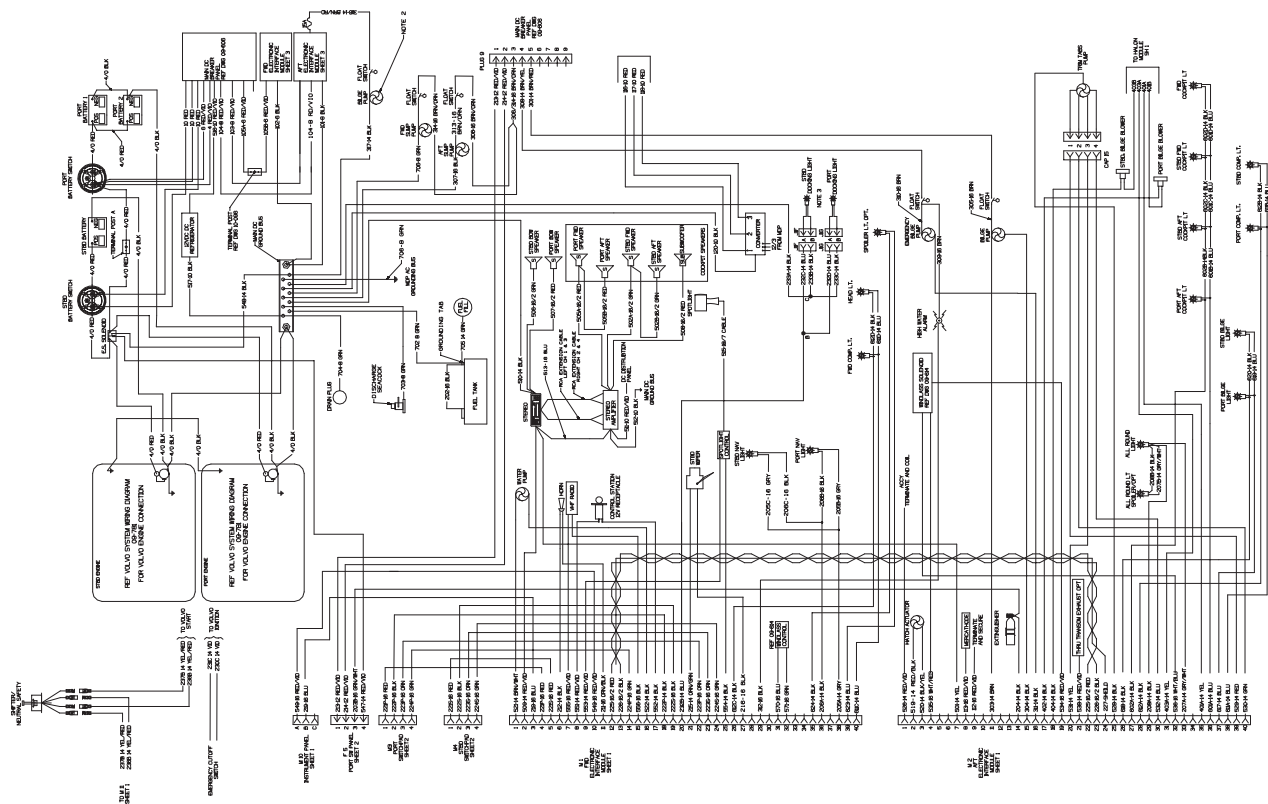
F20 ELECTRONIC INTERFACE MODULE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

F2

Downloaded from www.Manualslib.com manuals search engine

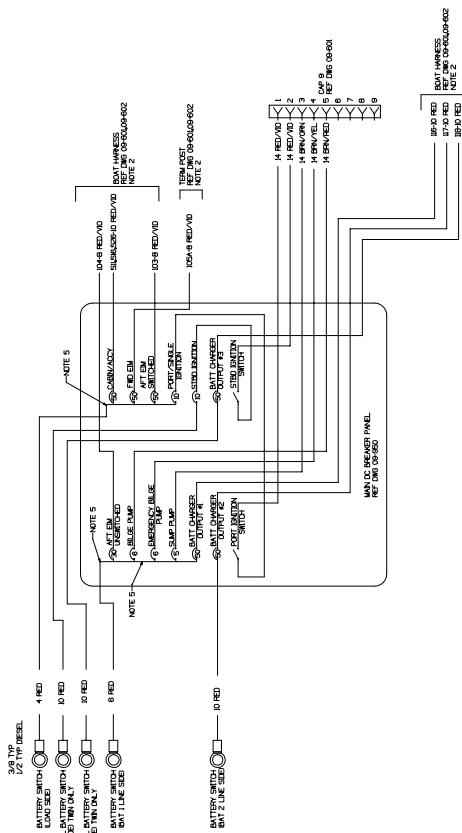
290 SLX • DC WIRING SCHEMATIC (TWIN VOLVO DIESEL) (4 OF 4)



Print# 09-603, 4 of 4, Revision #1



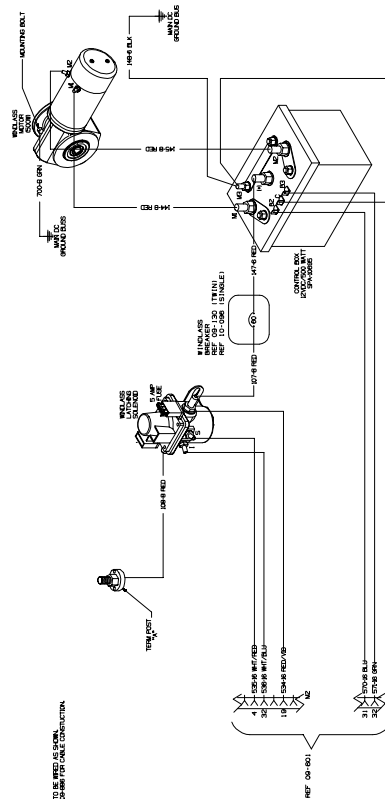
290 SLX • MAIN DC BREAKER PANEL WIRING DIAGRAM



NOTES:
 1) ALL WIRES AND CONNECTORS TO BE INSTALLED BY VENDOR, EXCEPT WHERE NOTED.
 2) WIRING SHOWN FOR INSTALLATION AND TROUBLE SHOOTING ONLY.
 3) WIRES TO BE LABELED AS SHOWN.
 4) REF. DWG. 98-060 FOR PANEL CONSTRUCTION.
 5) THE FEEDER CONNECTIONS TO THE BUS BARS SHALL BE THROUGH BOLTED AND SECURED INDEPENDENTLY OF ALL OTHER CONNECTIONS.

Print# 09-606, Revision# 3

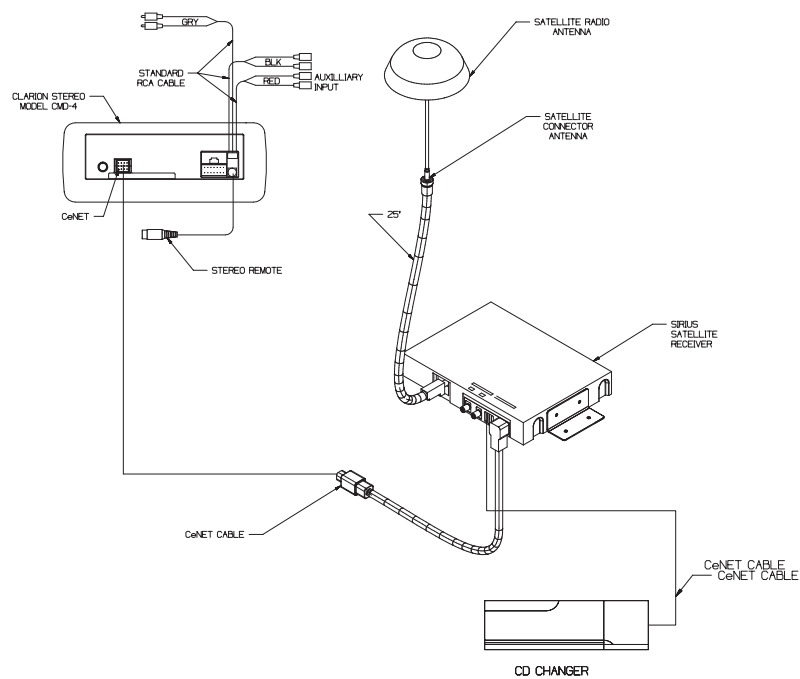
290 SLX • WINDLASS WIRING DIAGRAM (OPTION) (LOFRANS MARLIN)



OTHER: IN GLASS TO BE WIPED AS SHOWN.
GETTING COLORS FOR CANE CONSTRUCTION

Print# 09-614, Revision# 4

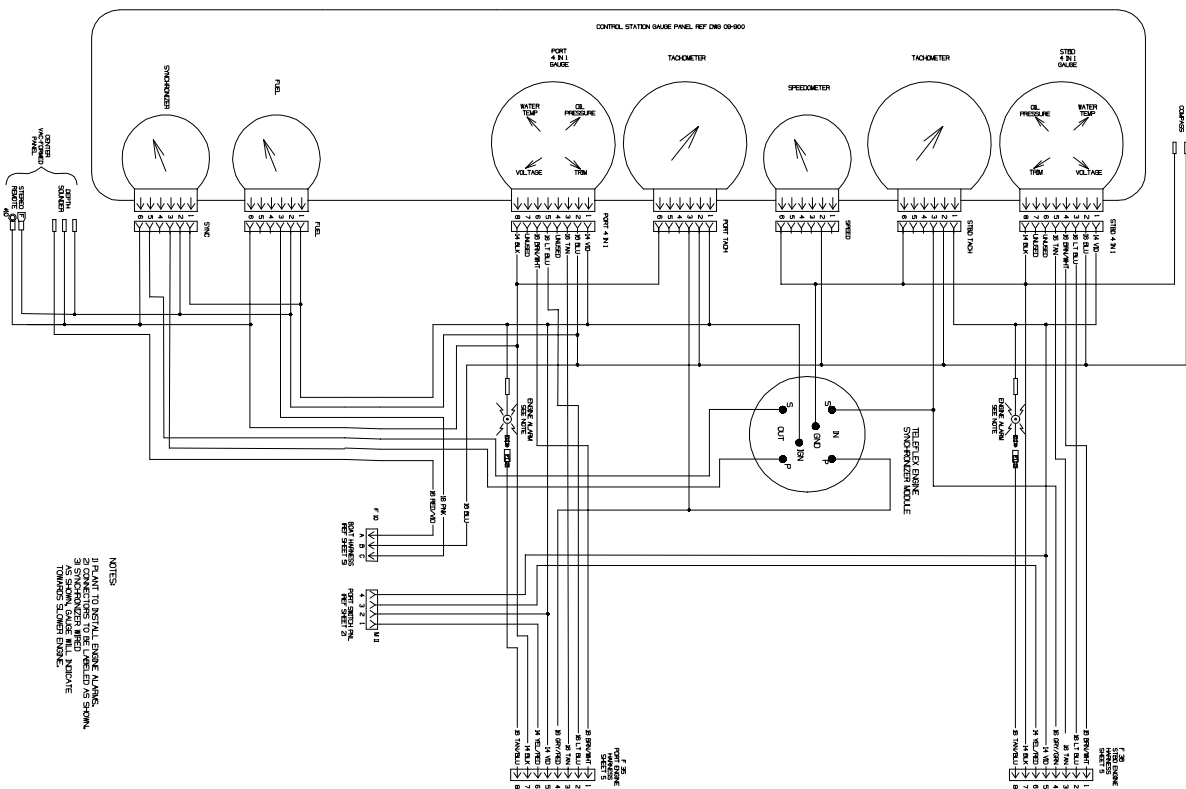
290 SLX • SATELLITE STEREO SYSTEM (OPTION)



Print# 09-615, Revision #1



290 SLX • DC WIRING SCHEMATIC (TWIN DIESEL) (OPTION)

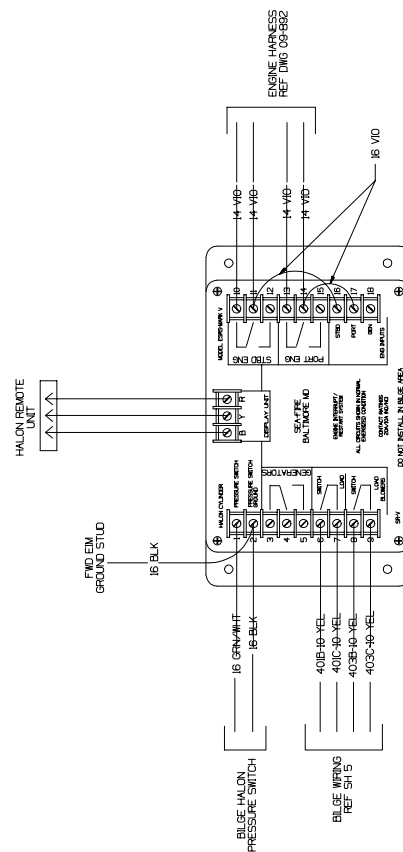


Print# 09-625, 1 of 5



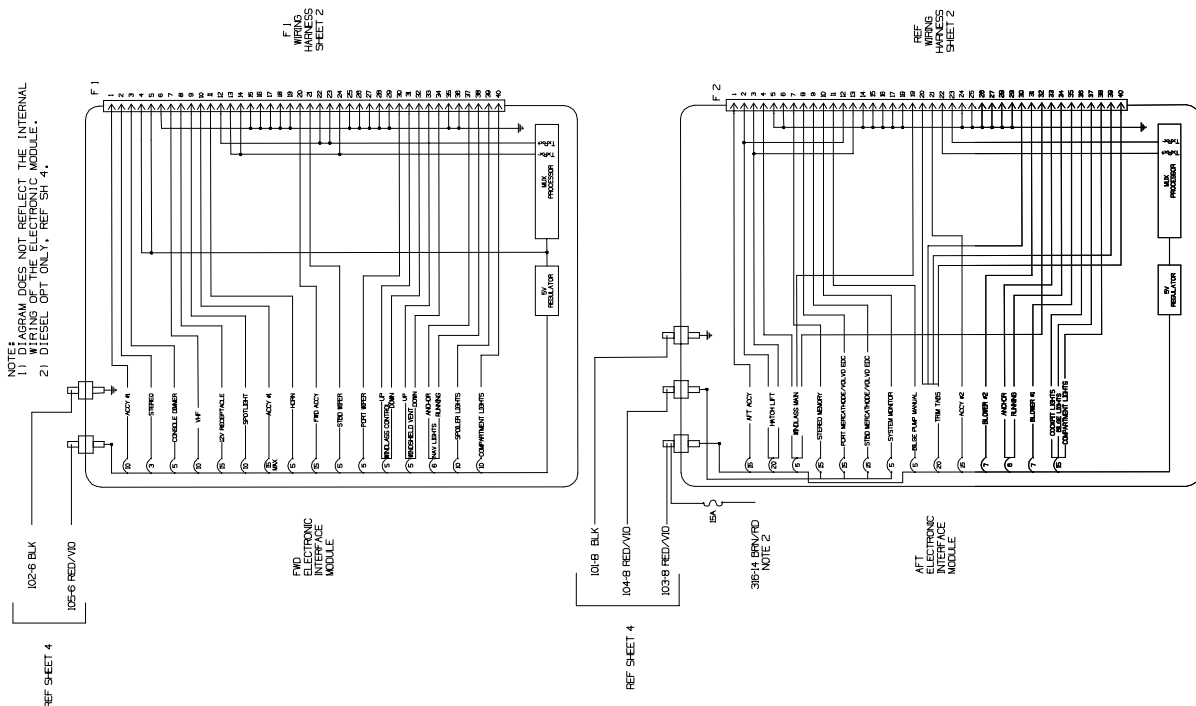
290 Select EX

290 SLX • DC WIRING SCHEMATIC (TWIN DIESEL) (OPTION)

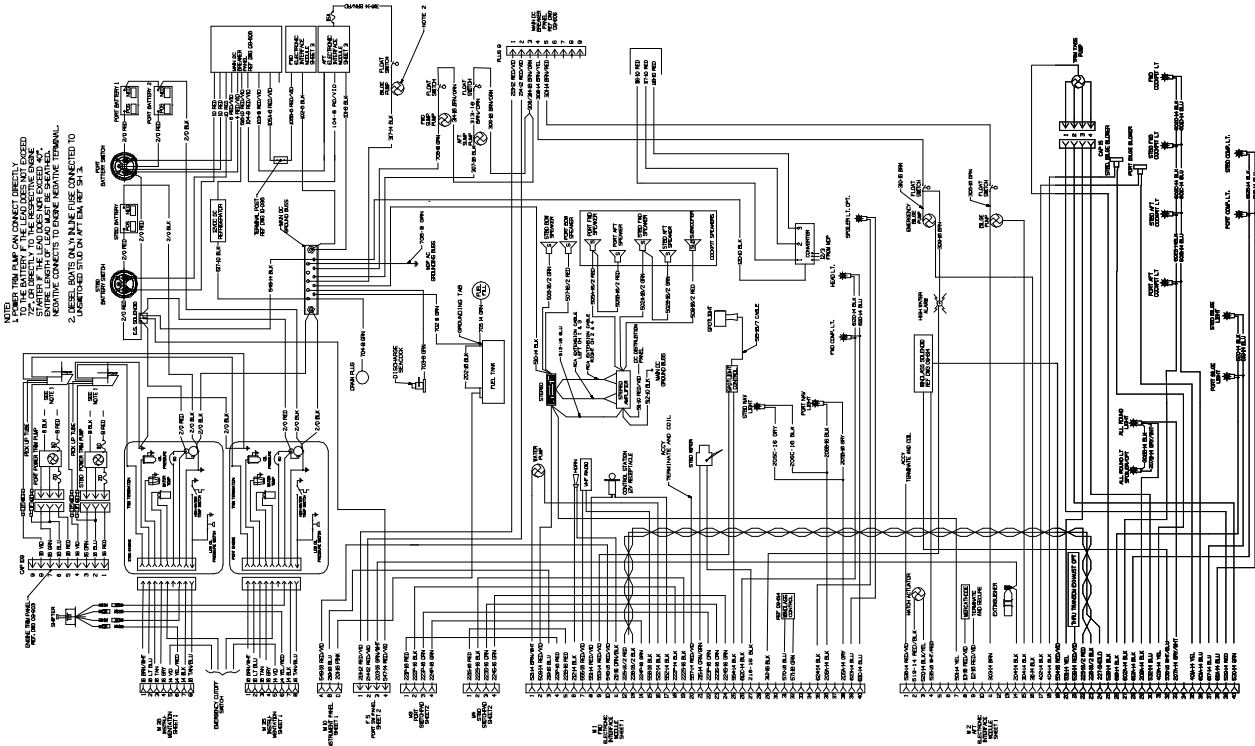


Print# 09-625, 3 of 5

290 SLX • DC WIRING SCHEMATIC (TWIN DIESEL) (OPTION)

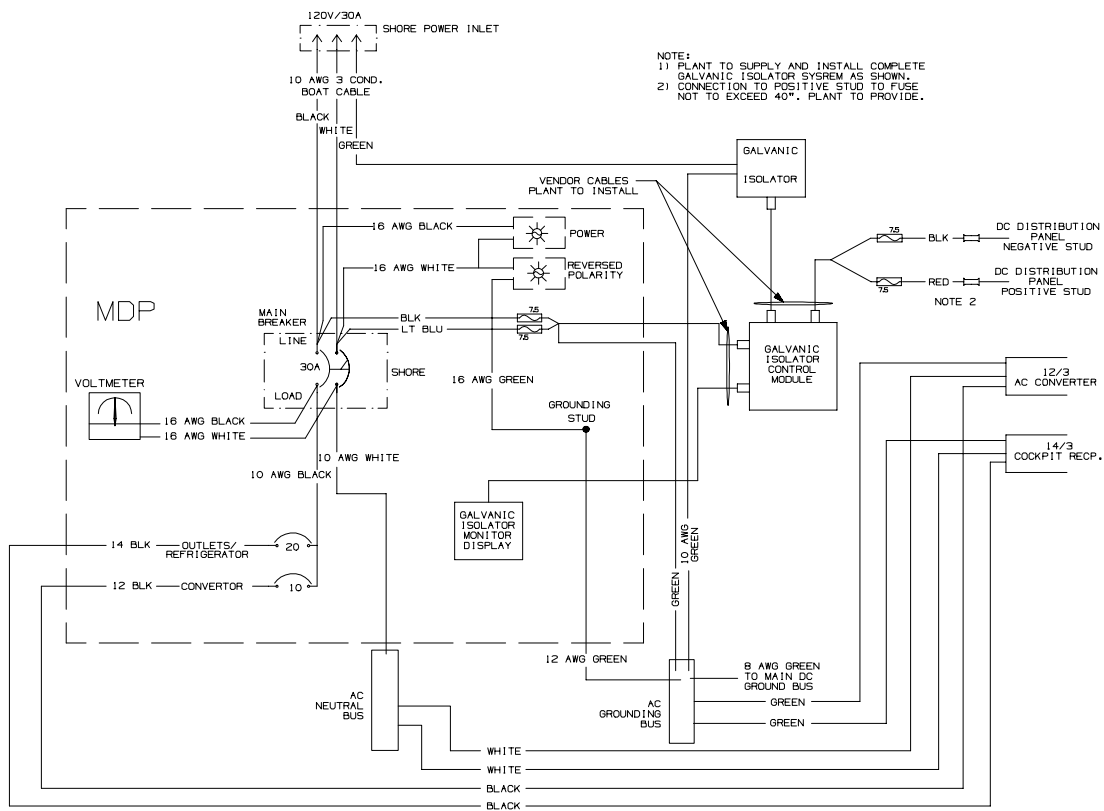


290 SLX • DC WIRING SCHEMATIC (TWIN DIESEL) (OPTION)



Print# 09-625, 5 of 5

290 SLX • AC WIRING DIAGRAM (120V)



Print# 09-630, Revision# 2

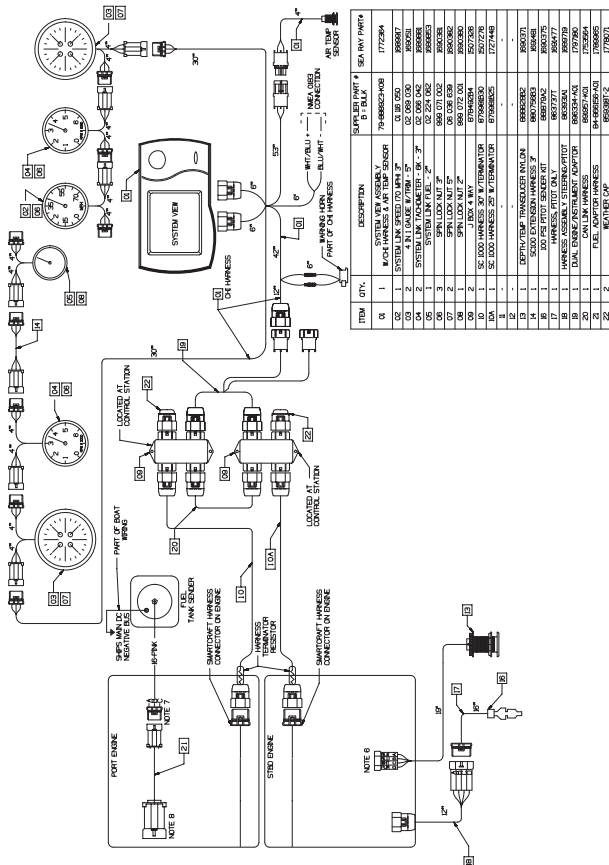


[illegible]

90 Select EX

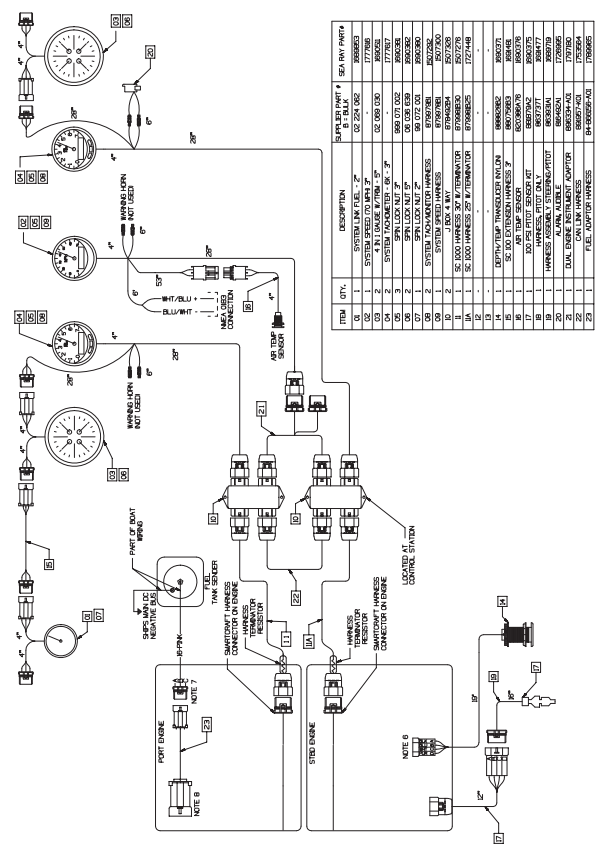
[illegible]

290 SLX • SMARTCRAFT SYSTEMS DIAGRAM



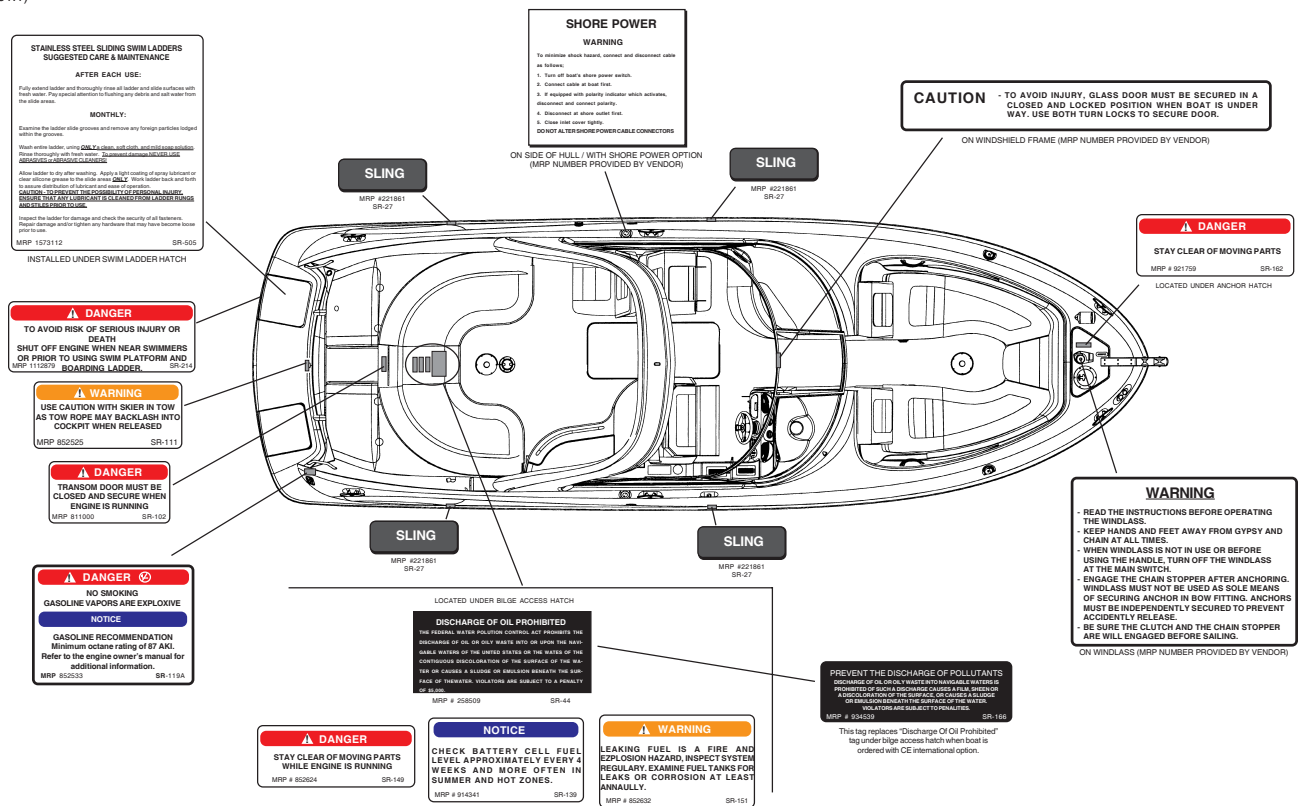
Print# 09-710, 2 of 3, Revision #4

290 SLX • SMARTCRAFT SYSTEMS DIAGRAM



Print# 09-710, 3 of 3, Revision #3

Main Deck
(fig.61.1)



Safety Label Locations (Continued)

Main Deck
(fig.62.1)

WARNING

A wide variety of components used on this vessel contain or emit chemicals known to the State of California to cause cancer and birth defects and other reproductive harm.

EXAMPLES INCLUDE:

- Engine and generator exhaust
- Engine and generator fuel, and other liquids such as coolants and oil, especially used motor oil.
- Cooking fuels.
- Cleaners, paints, and substances used for vessel repair.
- Waste materials that result from wear of vessel components.
- Lead from battery terminals and from other sources such as ballast or fishing sinkers.

TO AVOID HARM:

- Keep away from engine, generator, and cooling fuel exhaust fumes.
- Wash areas thoroughly with soap and water after handling the substances above.

California Health & Safety Code §§ 25249.5-13

MRP 1798064
CALIFORNIA RESIDENTS ONLY
THE ABOVE WARNING IS ATTACHED TO THE STEERING WHEEL PRIOR TO DELIVERY OF ANY BOATS SOLD IN THE STATE OF CALIFORNIA IN ACCORDANCE WITH CALIFORNIA HEALTH & SAFETY CODE §§ 25249.5-13.

CE

0609

IMC1

B

Sea Ray Boats

290 SLX

MAXIMUM

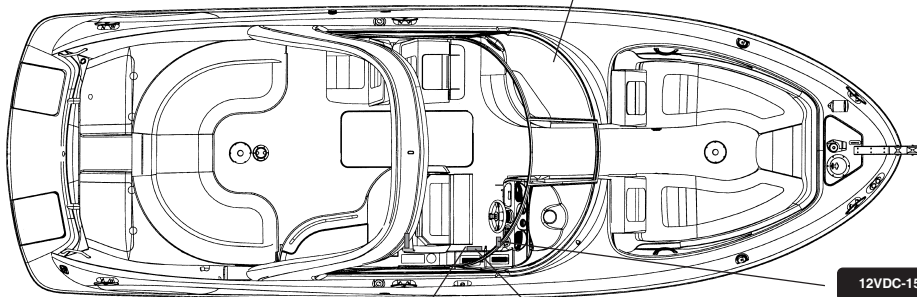
10 + = 1180 kg

This tag replaces "Yacht Certification" tag on dash when boat is ordered with CE international option.



NOTICE
THIS BOAT IS EQUIPPED WITH AN OPTIONAL DIRECT OVERBOARD DISCHARGE VALVE. DISCHARGING OF SEWAGE DIRECTLY OVERBOARD IS FOR USE WHERE APPROVED ONLY.
MPR 852575 SR-135
LOCATED INSIDE HEAD (OPTIONAL EQUIPMENT)

DANGER
LEAVING WINDOW OPEN COULD INDUCE EXHAUST FUMES INTO CABIN RESULTING IN SEVERE PERSONAL INJURY OR DEATH.
MPR 852566 SR-135
LOCATED INSIDE HEAD



12VDC-15A MAX
MPR 324756 SR-47

DANGER

AVOID COLLISIONS

- Maintain Look-out as required by the "Rules of the Road".
- Steer clear of obstacles including weather and light conditions.
- At all times proceed at a Safe Speed so that you can take proper and effective action to avoid hazardous conditions. Such actions are considered under the control of the operator.

AVOID COLLISIONS

In all powerboat collisions and obstructions, carbon monoxide gas (CO) from engine exhaust can result in CO poisoning which may be fatal or life threatening. To prevent carbon exposure and reduce the possibility of accumulations of CO in the cabin and cockpit of the boat, the operator should ensure adequate ventilation. Reduce carbon monoxide exposure by opening all windows, doors, and side windows. Do not use charcoal or kerosene heaters in the cabin and cockpit areas. The following conditions tend to increase the accumulation of CO in and about the boat and require the operator's immediate attention:

1. Operation at slow speeds or dead in the water.
2. Operation with engine exhaust valves closed.
3. The utilization of canvas tops, side curtains and back curtains.
4. Controlling engine conditions with mechanical valves.
5. Operation of engine and generator mounted spaces or alternators.
6. Any knowledge of fuel exhaust outlets.

Indications of excessive exposure to CO concentrations may include nausea, dizziness and drowsiness.

DO NOT USE Gas Heats, Heating Ladders or Stair Platforms in the cabin or cockpit areas.

WARNING: CO should be cleared when engine is running. SR-135

This tag is used on boats with gasoline engines.

DANGER

AVOID COLLISIONS

Boaters must not be lulled by the "Rules of the Road". Visibility can be limited by high boat trim, engines, persons, gear, weather and light conditions. Proceed at a Safe Speed so that you can take proper and effective action to avoid hazardous conditions. Such actions are considered under the control of the operator.

AVOID RISK OF INJURY OR DEATH. SHUT OFF ENGINE PRIOR TO ENTERING SWIM PLATFORM OR BOARDING LADDERS.

MPR 987727 SR-187

This tag is used on boats with diesel engines.

DANGER

TO AVOID RISK OF SERIOUS INJURY OR DEATH

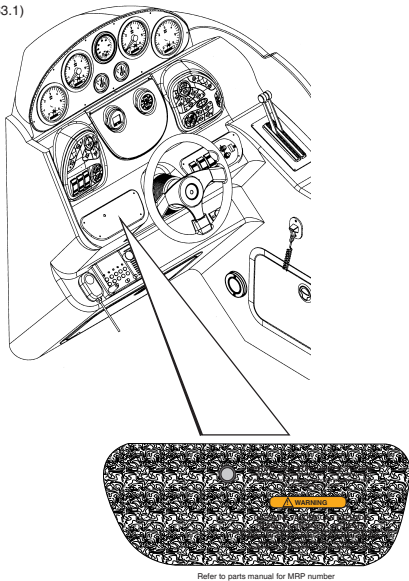
SHUT OFF ENGINE WHEN NEAR SWIMMERS OR PRIOR TO USING SWIM PLATFORM AND BOARDING LADDERS.

MPR 111320 SR-114

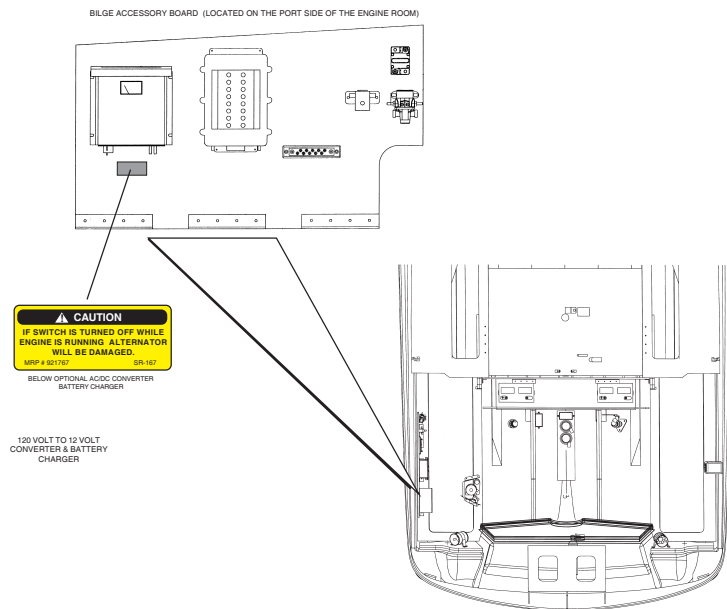


SAFETY LABEL LOCATIONS (CONTINUED)

Dash Area
(fig.63.1)

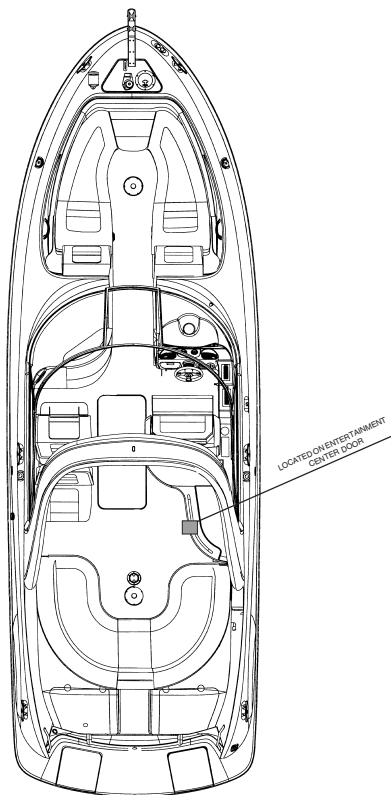


Engine Compartment
(fig.63.2)



SAFETY LABEL LOCATIONS (CONTINUED)

(fig. 64.1)



Save Our Seas

It is *illegal* to dump plastic trash anywhere into the ocean or navigable waters of the United States. Violation of these requirements may result in civil penalty up to \$25,000, a fine of \$50,000 and imprisonment for up to five years.

PLASTIC - Includes but is not limited to: plastic bags, styrofoam cups and lids, sixpack holders, stirrers, straws, milk jugs, egg cartons, synthetic fishing nets, ropes, lines, and bio or photo degradable plastics.

GARBAGE - Means paper, rags, glass, metal, crockery (generated in living spaces aboard the vessel-what we normally call trash), and all kinds of food, maintenance and cargo-associated waste.

"Garbage" does not include fresh fish or fish parts, dishwater, and gray water.

INSIDE 3 MILES
(and in U.S. Lakes, Rivers, Bays and Sounds)
PLASTICS
DUNNAGE, LINING AND PACKING MATERIALS THAT FLOAT
ANY GARBAGE EXCEPT DISHWATER/GRAYWATER/FRESH FISH PARTS

3 TO 12 MILES
PLASTICS
DUNNAGE, LINING AND PACKING MATERIALS THAT FLOAT
ANY GARBAGE NOT GROUND TO LESS THAN ONE SQUARE INCH

12 TO 25 MILES
PLASTICS
DUNNAGE, LINING AND PACKING MATERIALS THAT FLOAT

12 TO 25 MILES
PLASTICS

DUNNAGE - Material used to block and brace cargo, and is considered a cargo associated waste.

DISHWATER - Means the liquid residue from the manual or automatic washing of dishes and cooking utensils which, have been pre-cleaned to the extent that any food particles adhering to them would not normally interfere with the operation of automatic dishwashers.

GRAYWATER - Means drainage from a dishwasher, shower, laundry, bath, and washbasin, and does not include drainage from toilets, urinals, hospitals, and cargo spaces.

MRP # 532820

SR-61



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 Transportes - Spain
9. EC Directive - European Community

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



