

Read This First!

240 Sundancer
Owner's Manual
Supplement

Sea Ray

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 31 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.

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For information call 1-800-SRBOATS, or fax 1-800-755-2890. Sea Ray international fax 404-817-2242.

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

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.

The specification measurements and locations are approximations and subject to variance.

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.

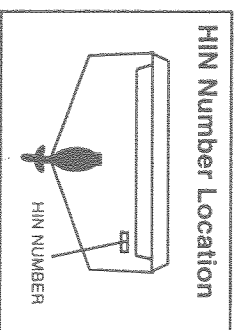
Fax: 1-800-755-2890 Domestic

Fax: 1-800-817-2242 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 | Sea Ray® Parts Manual | Engine Operator's Manual | Original Equipment Manuals | Owner's Packet Insert |
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| Accident Reporting | X | | | | X | X | X |
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| AM/FM Cassette Stereo | | | | | | X | |
| Anchoring | X | X | X | | | | X |
| Battery | X | X | | | X | | |
| Bilge Layout | | | | X | | | |
| Bilge Blower | X | X | | X | | X | |
| Bilge Pump | X | X | | X | | X | |
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| Carbon Monoxide | X | | | | | | |
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| Decals | | | | X | | | |
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| Dimensions | | X | X | | | | |
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The specification measurements and locations are approximations and subject to variance.

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| Electrolysis | X | | | | X | | |
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| Emergency Procedures | X | | | | | | |
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| • Required | X | | X | | | | |
| • Standard | | | X | | | | |
| • Optional | | | X | | | | |
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| Homologations (International) | X | X | | | | X | X |
| Hottlines | X | | | | | | |
| Identification Numbers | X | X | | | | | |

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|--|-------------------------------|---|------------------------------------|-----------------------------|--------------------------------|----------------------------------|-----------------------------|
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| Ignition Protection | X | | | | X | | |
| Impaired Operation | X | | | | | | X |
| Instrument Use & Operation | X | | | | | X | |
| Layout | | X | X | X | | | |
| Lifesaving Equipment | X | | | | | | X |
| Lifting | X | X | | | | | |
| Lightning Protection | X | | | | | | |
| Lights | X | X | | X | | | |
| Load Capacity | X | X | | | | | |
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| Maneuvering | X | | | | | | X |
| Monitors | | | | | | X | |
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| Personal Flotation Devices (PFD's) | X | | | | | X | X |
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| Propeller | X | X | | | | | |
| Propulsion | | | | | X | | |
| Registration | X | | | | | | X |
| Safety | X | | | | | X | X |

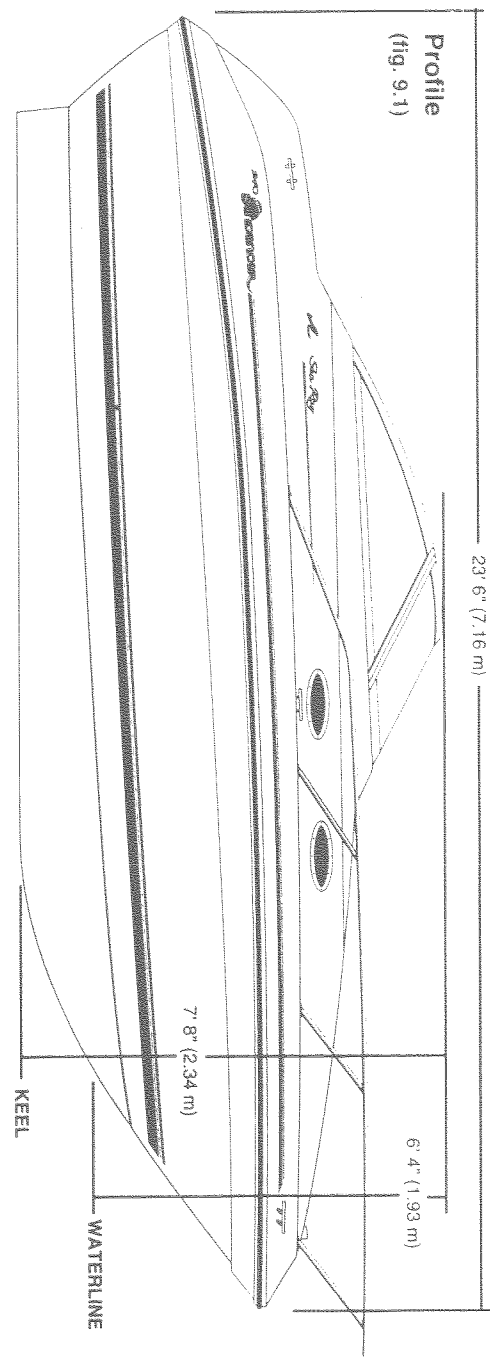
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| Trim Tabs | X | X | | X | | | |
| Troubleshooting | X | | | | X | | X |
| Upholstery | X | | | X | | | |
| Ventilation | X | X | | X | | | |
| Warning Labels | X | | | X | | | |
| Warranty | X | | | | | | X |

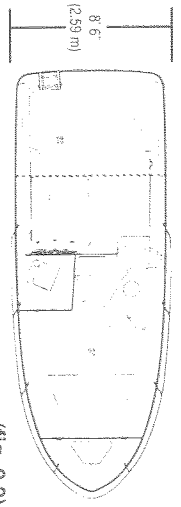
To replace any material from the Owner's Manual Packet, contact your Sea Ray® dealer.

GENERAL ARRANGEMENTS & DIMENSIONS



240 Sundancer SPECIFICATIONS

| | |
|--------------------------------|-----------------------|
| Overall Length..... | 23' 6" (7.16 m) |
| Beam | 8' 6" (2.59 m) |
| Draft (Stern Drive Down) | 33" (83.8 cm) |
| Draft (Stern Drive Up) | 20" (50.8 cm) |
| Dry Weight (Lbs.) | 4,300 (1,950 kg) |
| Fuel Capacity (Gallons) .. | 60 gal (227.1 liters) |
| Water Capacity (Gallons) .. | 57 gal (215.7 liters) |
| Dead Rise..... | 17° |



Sea Ray

(fig. 9.2)

HEIGHT DIMENSIONS

| | |
|---|----------------|
| Waterline To Top Of Dash Visor | 6' 4" (1.93 m) |
| Keel To Top Of Dash Visor | 7' 8" (2.34 m) |

The specification measurements and locations are approximations and subject to variance.

SUPPLEMENTAL GENERAL INFORMATION

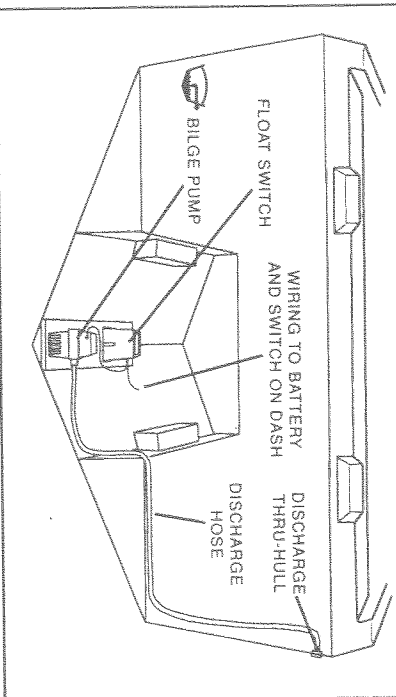
BILGE PUMPING SYSTEM

Your boat is equipped with an automatic electric bilge pump system.

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

Typical Bilge Pump Installation

(fig. 10.1)



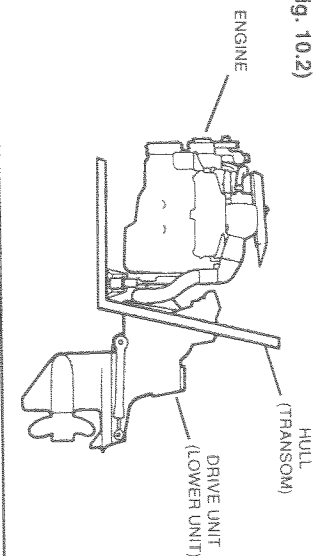
PROPULSION SYSTEM

The 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 stringers at the aft end of the hull and covered by a engine box. 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.

Stern Drive Engine

(fig. 10.2)

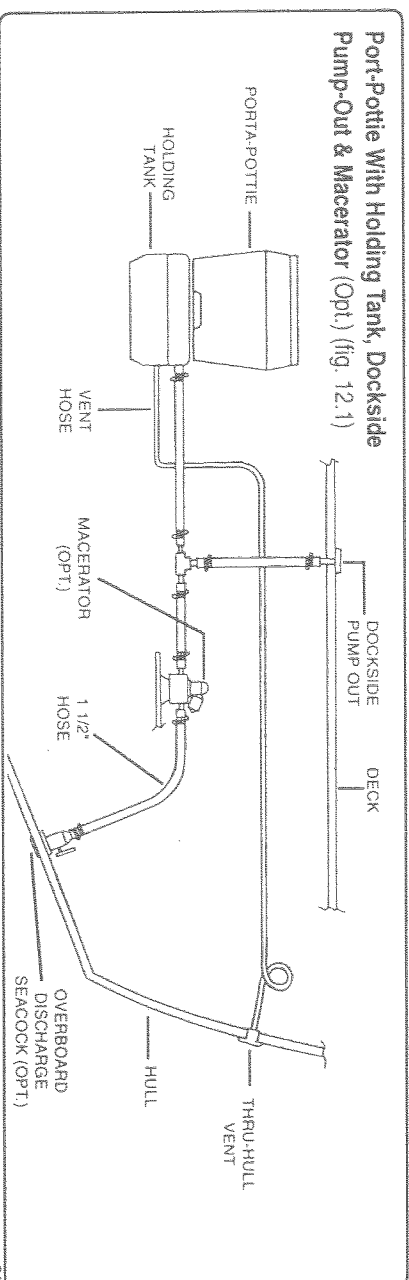


PROPELLERS

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.**

HEAD SYSTEM

The head system on your Sea Ray® Sport Boat utilizes the following items: Porta-Pottie, Holding Tank & Vent Hose. Your boat may be equipped with the dockside pump-out and macerator option. On the next few pages are descriptions of each system and option. You should be aware of which option(s) your boat is equipped and read the sections pertaining to it. The Owner's Packet in your boat contains information pertaining to your head system that should be carefully read.



The specification measurements and locations are approximations and subject to variance

SUPPLEMENTAL GENERAL INFORMATION

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

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 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 CFR 140.3).

PORTABLE SELF-CONTAINED HEAD

The portable self-contained head 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.

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

PORTABLE SELF-CONTAINED HEAD WITH DOCK-SIDE PUMP-OUT

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.

The holding tank can be emptied by a dockside sewage pump-out station (see "DOCKSIDE PUMP-OUT OPTION") or pumped directly overboard using the macerator option (see "MACERATOR OPTION").

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

DOCKSIDE PUMP-OUT OPTION

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").

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.

The specification measurements and locations are approximations and subject to variance

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 pump-out. 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. Turn ON the "HEAD SYSTEM" breaker and open the waste discharge seacock located on the bilge floor.
2. Operate discharge switch located in the head.
3. When tank is empty, release the switch and close waste discharge seacock.

CAUTION

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

S U P P L E M E N T A L G E N E R A L I N F O R M A T I O N

FUEL SYSTEM

Your boat is equipped with a gasoline fuel system. A detailed drawing of the fuel system can be found in the *Parts Manual*. Fueling instructions and precautions can be found in the *Owner's Manual*.

EXHAUST SYSTEM

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

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

ENGINE COOLING SYSTEM

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

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

ELECTRICAL INSTALLATIONS

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

BATTERY

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

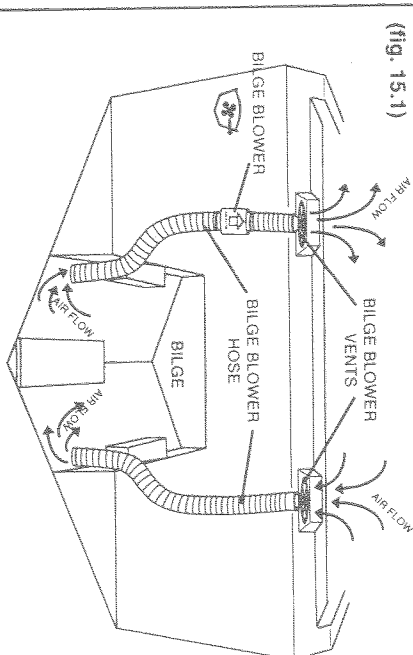
VENTILATION SYSTEM / BILGE BLOWER

Sea Ray® Sport 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 blower is located inside the port side of the transom.

REFER TO OWNER'S MANUAL AND OWNER'S PACKET FOR OPERATING INSTRUCTIONS AND SAFETY PRECAUTIONS.

Typical Bilge Blower Installation

(fig. 15.1)



The specification measurements and locations are approximations and subject to variance.

S U P P L E M E N T A L G E N E R A L I N F O R M A T I O N

STEERING SYSTEM

The boat is equipped with a power steering system.

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

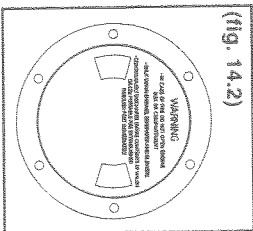
FIRE EXTINGUISHING SYSTEM

Your boat is offered with the optional halon fire extinguishing system. Models being exported may be equipped with the FM-200 fire extinguishing system. If your boat is not equipped with either of these options you must carry an approved fire extinguisher.

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

FIRE EXTINGUISHER DISCHARGE PORT

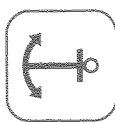
(fig. 14.2)



Inboard/Outboard sport boats not equipped with the automatic fire extinguisher option are equipped with a fire extinguisher discharge port. In the event of a fire, the access plate on the engine compartment can be removed to allow the operator to discharge a fire extinguisher into the engine compartment without having to open the engine box. Do not open the engine compartment immediately! This feeds oxygen to the fire and flashback could occur.

- In case of fire **DO NOT** open engine box or compartment.
- Shut down engines, generator and blowers
- Continuously discharge entire contents of portable fire extinguisher through port immediately.

ANCHORING



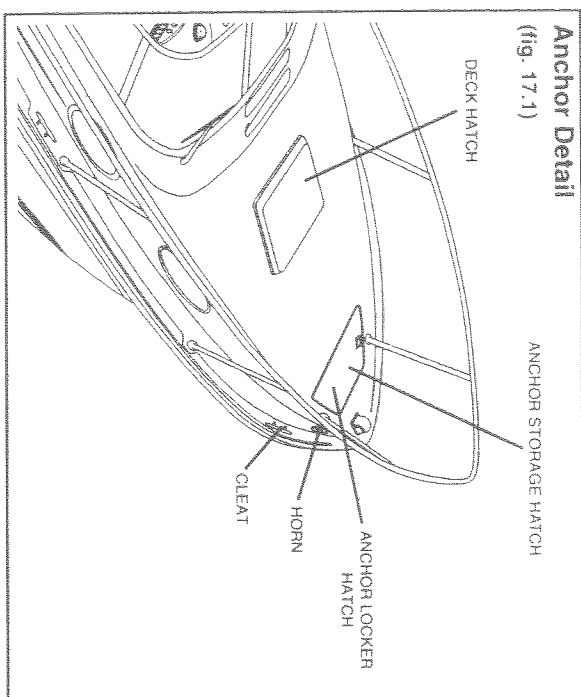
To anchor, bring the bow into the wind or current and put the engine in neutral. When the vessel comes to a stop, lower, do not throw, the anchor over the bow. The anchor line should be 5 to 7 times the depth of water.

ANCHORING ARRANGEMENT

Your boat is equipped with an anchor storage hatch with an anchor storage cradle inside. Stow the anchor in the cradle when not in use. Note: Before using the anchor be sure the anchor line is secured to the boat — to the bow eye or the bow cleat.

LIFE SAVING EQUIPMENT (Personal Flotation Device (PFD))

STORAGE: Your boat offers storage under the helm seat, the aft facing seat and the cockpit side storage area.



S U P P L E M E N T A L G E N E R A L I N F O R M A T I O N

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 (fishfinders, LORAN, etc.) and personal gear (fishing poles, skis, etc.) normally left aboard your boat.

TROUBLE SHOOTING

List of Reference Manuals and Drawings

PERFORMANCE: Refer to the owner's manual.

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

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

Repair and Parts Facilities

To find a Sea Ray® dealer in your area, call: Sea Ray®
Customer Service: 1-800-SRBOATS
FAX: 1-800-755-2890 Domestic
FAX: 1-404-817-2242 International

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.

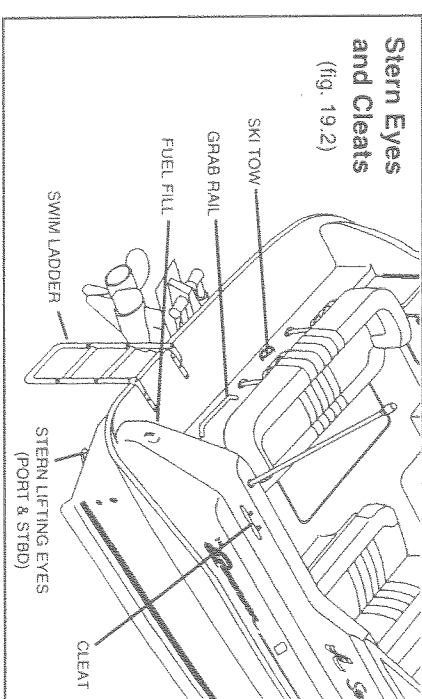
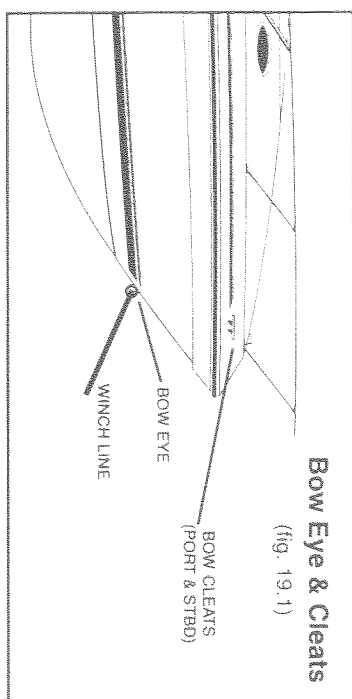
DOCKING / LIFTING / TRAILERING

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.

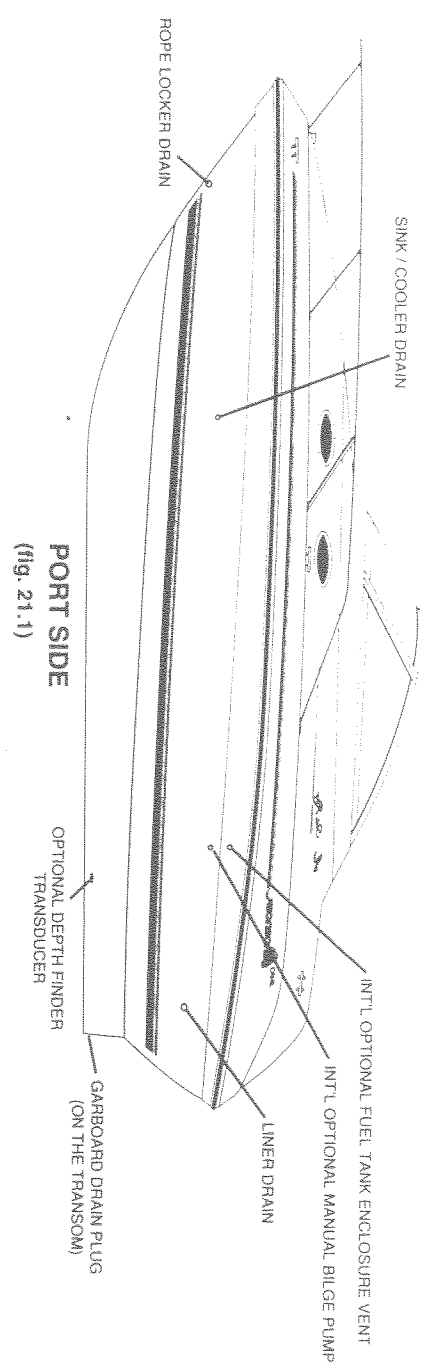
For long term storage use flat, wide belt-type slings and spreaders long enough to keep pressure from gunwales. Do not place slings where they may lift on underwater fittings.



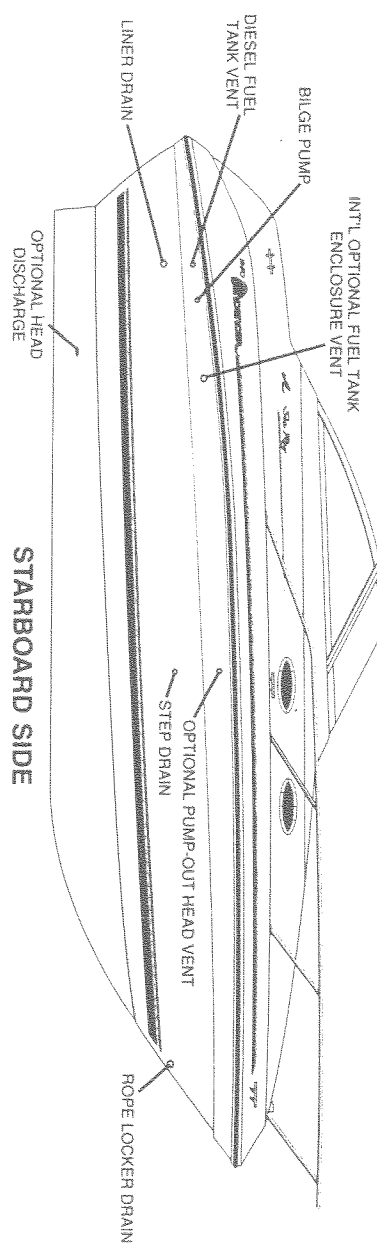
DASH LAYOUT



LOCATION OF THROUGH-HULL FITTINGS



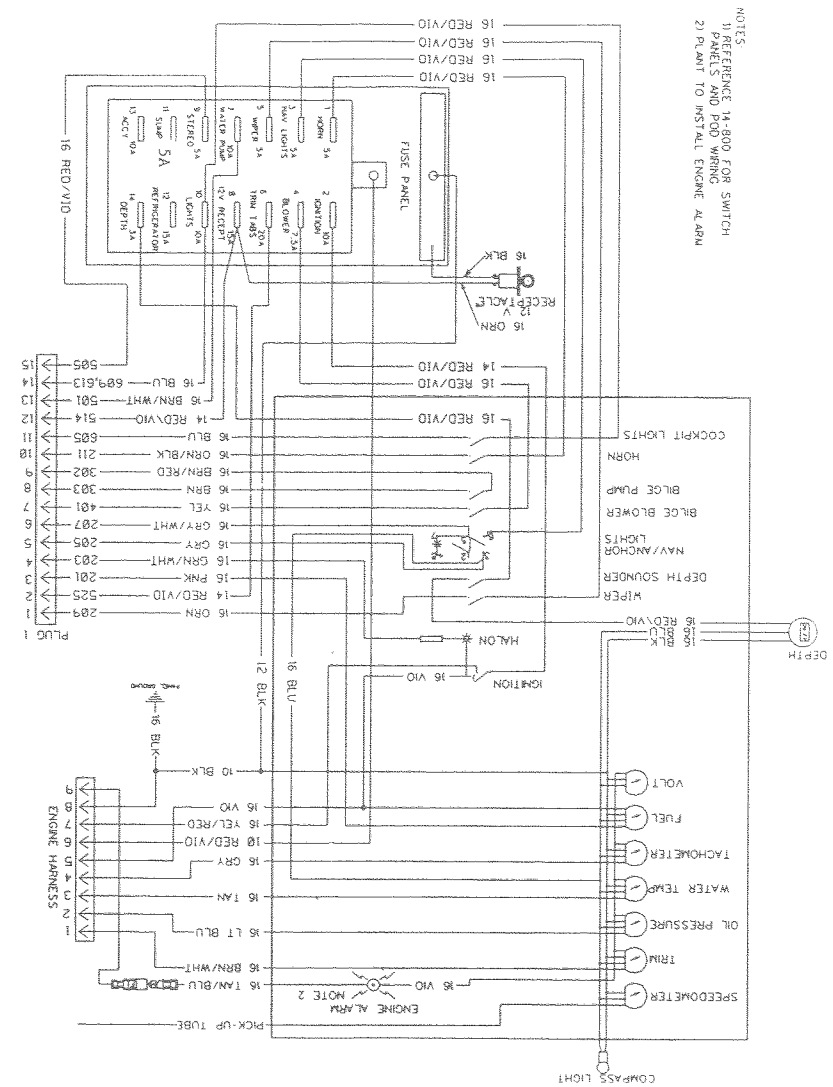
PORT SIDE
(fig. 21.1)



STARBOARD SIDE
(fig. 21.2)

The specification measurements and locations are approximations and subject to variance.

D.C. WIRING SCHEMATIC



NOTES:
1) REFERENCE 14-800 FOR SWITCH
PANELS AND POD WIRING
2) PLANT TO INSTALL ENGINE ALARM

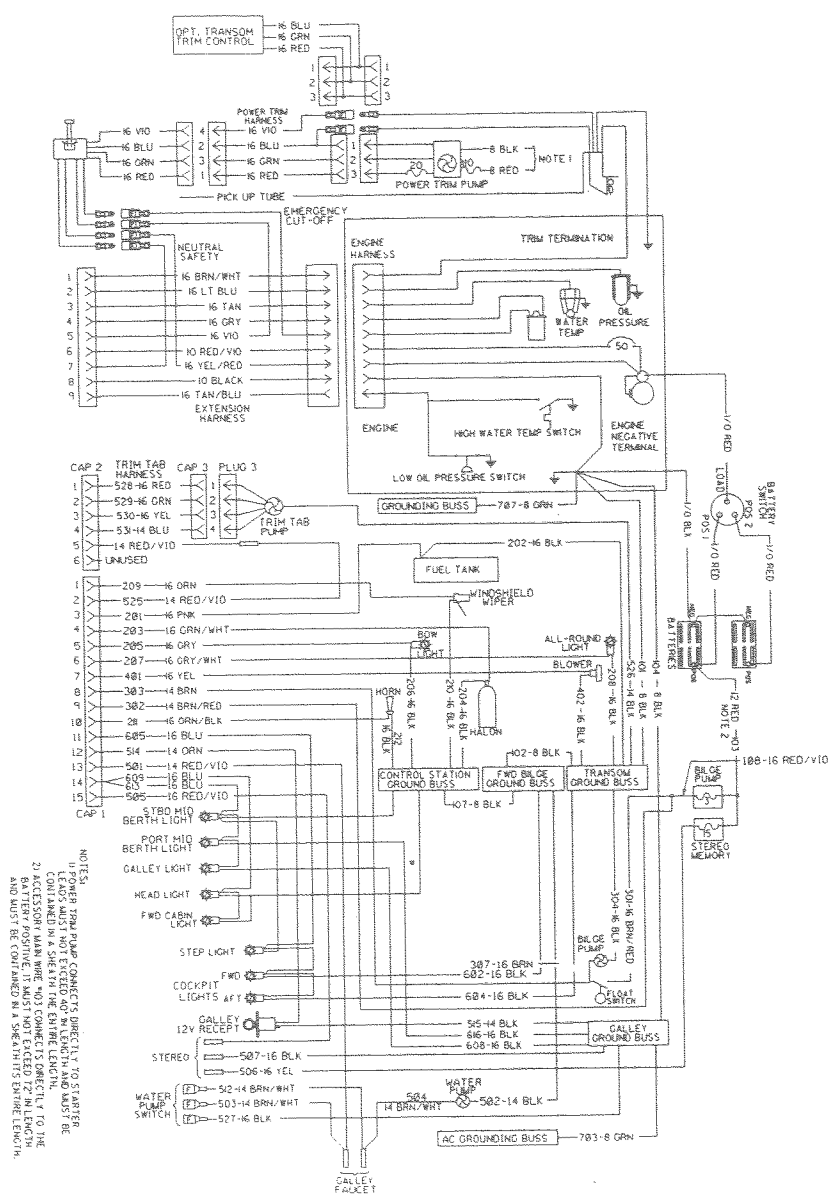
Print No. 09-601, 1 of 2, Revision 3
The specification measurements and locations are approximations and subject to variance

KEY TO ELECTRICAL SYMBOLS

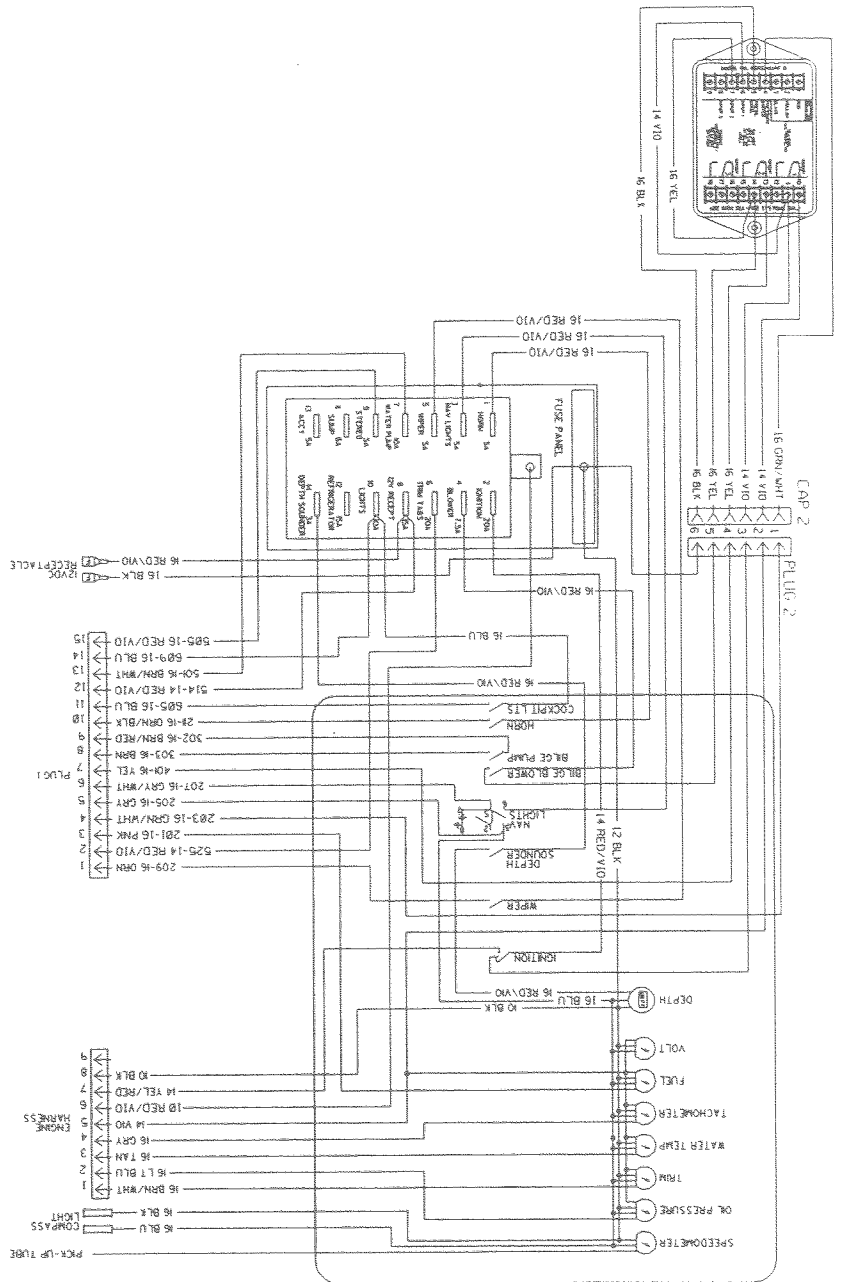
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|--|----------------------------|--|---------------------------|--|---------------------------|--|---------------------------------|--|---------------------|--|---------------------|--|--------------------|
| | LIGHT | | BATTERY | | SPOTLIGHT | | STARTER | | COIL | | HORN | | WATER TEMP. SENSOR |
| | GAUGE | | FLOAT SWITCH | | CIRCUIT BREAKER | | 2 CIRCUIT IDENTIFICATION SWITCH | | VARIABLE RESISTOR | | SPOT SWITCH | | SPT SWITCH |
| | POWER TRIM & TRIM TAB PUMP | | FUSE | | MALE PUSH ON CONNECTOR | | FEMALE PUSH ON CONNECTOR | | MALE PLUG | | FEMALE CAP | | SPEED PICK UP |
| | SPEED ELECTRONIC | | WIRE CROSSING NO SPLICING | | WIRES CROSSING | | SPLICED | | GROUND | | ANTENNA | | RADIO |
| | DEPTH/SPEED LOG | | 12V RECEPTACLE | | SHIFT / THROTTLE CONTROLS | | TRIM ANGLE SENSOR | | LIQUID LEVEL SENDER | | ALARM HORN | | TEMP. ALARM |
| | TIDE GAUGE | | TIDE METER | | TIDE SWITCH | | PUMP | | SPEAKER | | OIL PRESSURE SENDER | | BLOWER |
| | HALON | | 2 POSITION BATTERY SWITCH | | HORN METER | | 2 CIRCUIT PUSH BUTTON SWITCH | | ALARM METER | | ALARM SWITCH | | ALARM METER |
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NOTES:

- 1) ALL WIRE IS AMERICAN WIRE GAUGE (AWG) STANDARDS
- 2) THE CONNECTOR SIZE IS DETERMINED BY THE GAUGE OF THE WIRE THE CONNECTOR IS USED ON.
- 3) QUICK CONNECT TERMINALS TO BE .250 UNLESS OTHERWISE INDICATED. TAB THICKNESS IS .013"
- 4) TERMINALS ARE TO BE TIN PLATED COPPER WITH NYLON INSULATION AMP, ETC OR EQUIVALENT.

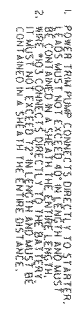


WIRING DIAGRAM (DIESEL OPTION)



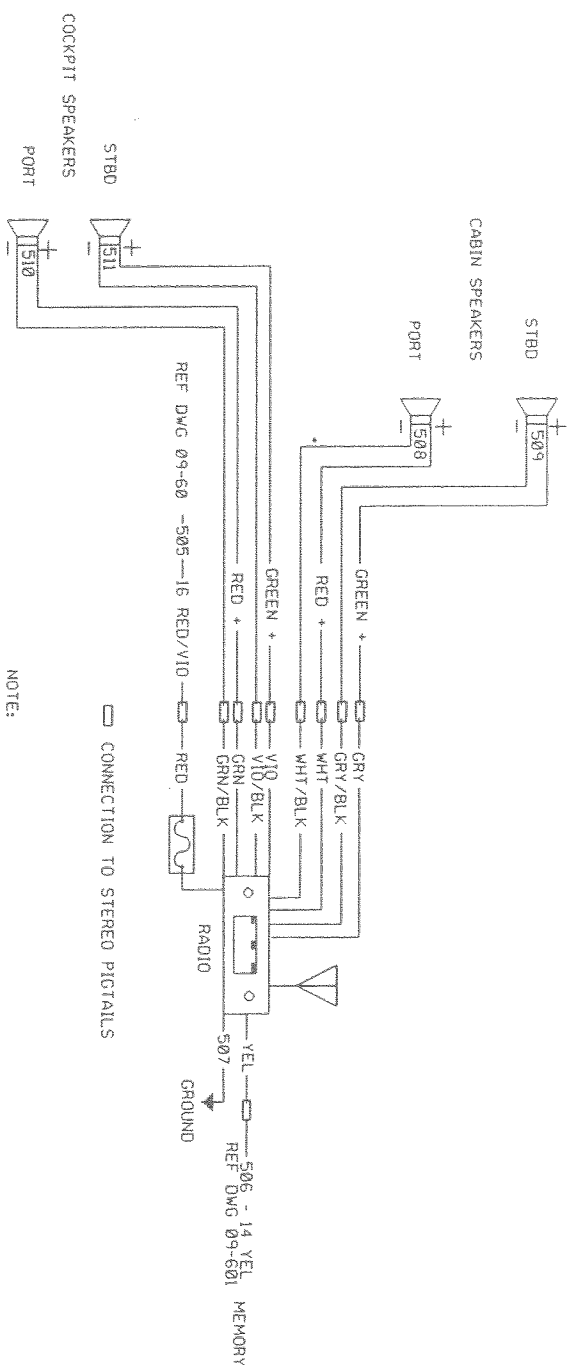
Print No. 09-602, 1 of 2, Revision 2
The specification measurements and locations are approximations and subject to variance.

WIRING DIAGRAM (DIESEL OPTION)



1. POWER TRIM PUMP CONNECTS DIRECTLY TO STARTER. LEADS MUST NOT EXCEED 40 IN LENGTH AND MUST BE CONTAINED IN A SHEATH THE ENTIRE LENGTH.
2. WIRE #103 CONNECTS DIRECTLY TO THE BATTERY. IT MUST NOT EXCEED 72 IN LENGTH AND MUST BE CONTAINED IN A SHEATH THE ENTIRE DISTANCE.

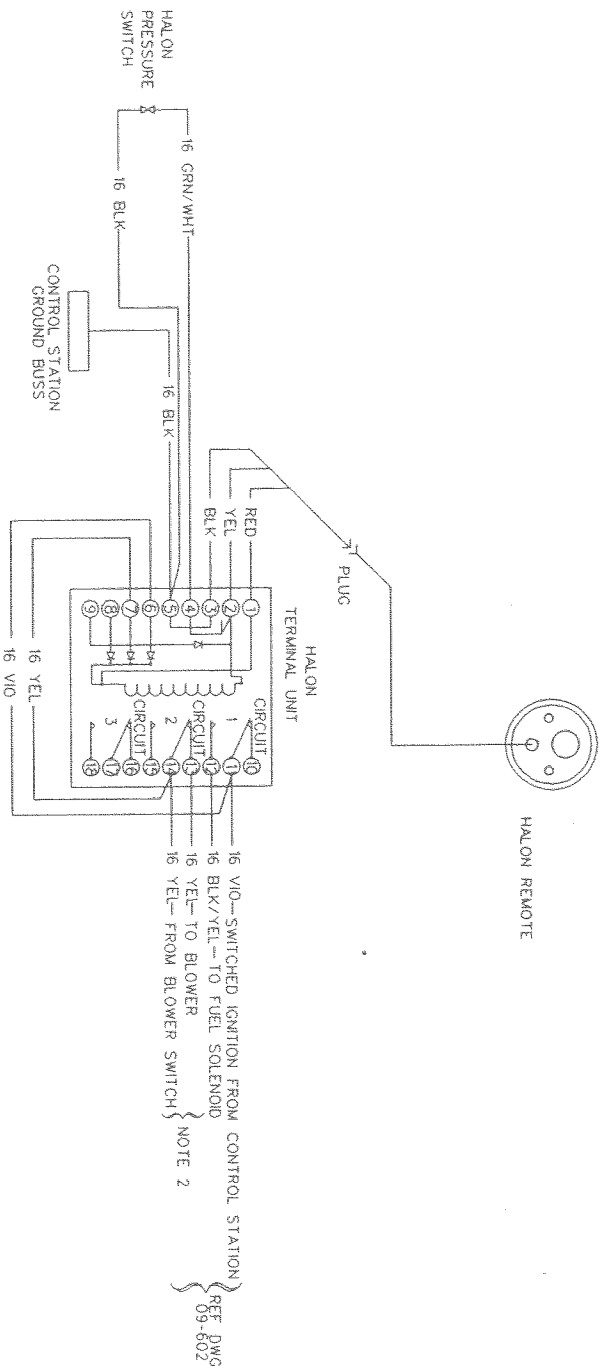
STEREO WIRING (4 SPEAKERS)



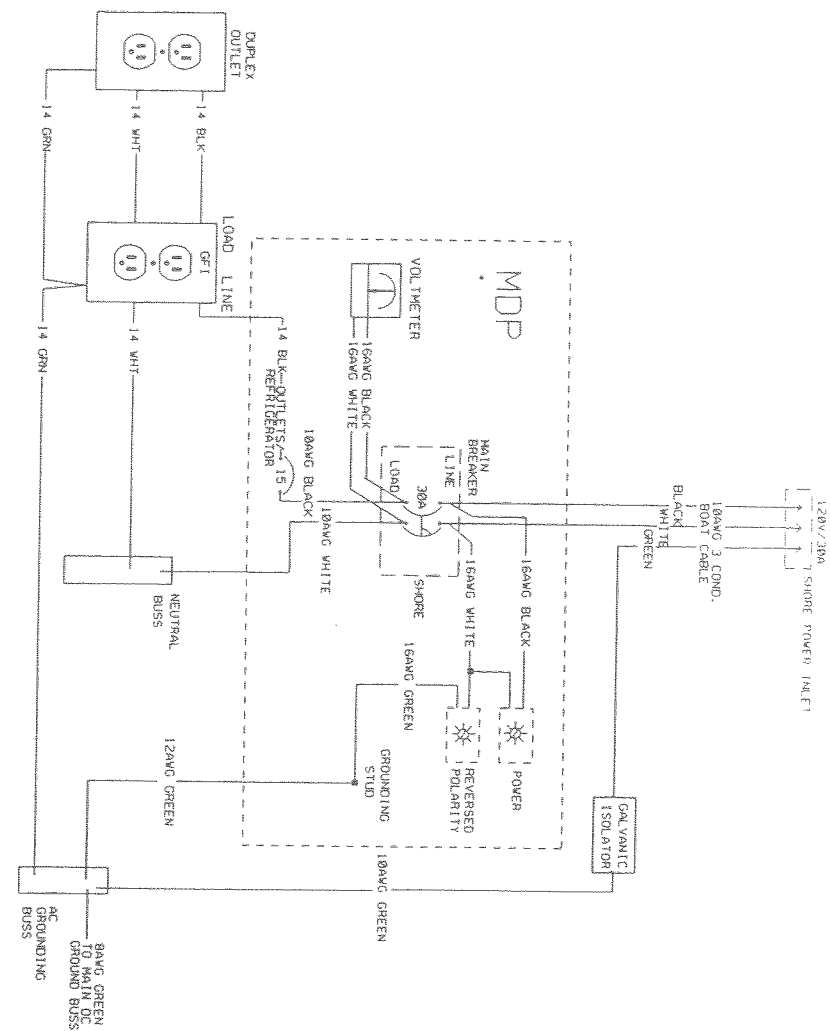
Print No. 09-611, Revision 0
The specification measurements and locations are approximations and subject to variance.

AUTOMATIC FIRE EXTINGUISHER WIRING FOR MERCURUISER DIESEL ENGINE (OPTION)

- NOTES:
- 1) CIRCUITS SHOWN IN ENERGIZED POSITION
 - 2) BLOWER WIRES MUST BE INTERRUPTED AND TERMINATED ON THE TERMINAL UNIT



AC WIRING DIAGRAM (OPTION)



The specification measurements and locations are approximations and subject to variance

Environmental Waste Management

AC WIRING DIAGRAM 220 VAC / 50 HZ (OPTION)

