GRADY-WHITE

Dear Grady-White Owner:

Welcome aboard!

Buying and owning a boat is a very special experience. Of all the many products you'll ever own we want your Grady-White experience to be the absolute best. That means providing the descriptions, explanations and technical support that you need to enjoy your Grady-White with confidence and security.

Your Grady-White exceeds all US Coast Guard safety standards and is built to standards certified by the National Marine Manufacturers Association (NMMA). Best of all, your boat is built to Grady-White standards, standards that have served our owners through some truly extraordinary conditions since our first models built in 1958.

The seaworthiness and safety of your Grady-White is highly dependent on the operation, maintenance and care of your boat, so please read this manual thoroughly and keep it around for reference. If you need further explanation or "hands-on" help, don't hesitate to ask the people at your Grady-White dealership; they have experience with the systems and operations of your boat. If for any reason you need additional help, please feel free to call us at the factory. We sincerely want to provide you with the help and information that will make your Grady-White experience delightful.

Thanks for choosing a Grady-White. All of us at the factory and at your dealership are dedicated to earning your confidence in Grady-White Boats. Again, welcome aboard.

Sincerely yours,

Kris Carroll
President
Grady-White Boats, Inc.

Grady-White Boats, Inc.
5121 Greenville Blvd. NE, Greenville, NC 227834 • P.O. Box 1527 • Greenville, NC 27835-1527
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Chapter 1: Consumer Information

OWNER'S PACKET

Your Grady-White has many features and accessories that have existing printed material provided by the various equipment manufacturers. This information is compiled in a package that we will reference throughout this manual as an "Owner's Packet." This Owner's Packet includes a Grady-White Owner's Manual and Engine Manual(s) to advise on operation, service, specifications, maintenance, warranty, and other useful facts. While reading your Grady-White manual, you will find other technical literature referenced as resources for detailed information. The Owner's Packet will also consist of operation guides, informative labels, and product warranties you will need to be acquainted with. Your Owner's Packet can also be used to retain instructions and data compiled on additional equipment and accessories installed after delivery.

Sportfish, Cruisers, Yachts Owner's Manual, a book published by the National Marine Manufacturer's Association (NMMA), has been included with your Owner's Packet as a supplement. This publication will be referenced in your Grady-White Owner's Manual to present additional instructions and information on basic boating.

WARRANTY INFORMATION

The Grady-White warranty is located on the next to last page of this manual. **Upon the purchase of your new Grady-White Boat, the dealer will fill out a warranty card.** This card will be kept on file at the dealership and at the Grady-White factory. A copy will be provided for your records and should be kept with other valuable documents for future reference. For questions regarding your warranty please contact your dealership.

DEALER'S RESPONSIBILITIES

Throughout the fabricating and assembly processes, your Grady-White has undergone a series of strict inspections. Subsequent to the final factory overview, your dealer must perform additional pre-delivery checks and approve your Grady-White for delivery.

DEALER RESPONSIBILITIES INCLUDE PROVIDING THE FOLLOWING:

- An orientation of the general operation of your Grady-White.
- A warranty card to be completed and signed by the dealer and the customer. This warranty card is to be sent to Grady-White Boats to validate the warranty.
- An explanation of safety issues regarding the use of containment systems and components.
- A complete Owner's Packet containing literature and information regarding your Grady-White and its separate warranted product's operation, installation, and maintenance instructions.
- A review of all warranties pointing out the importance of mailing warranty and registration to various manufacturers within the required time limits.
- Guidance on acquiring local and out of area service during and out of warranty periods.

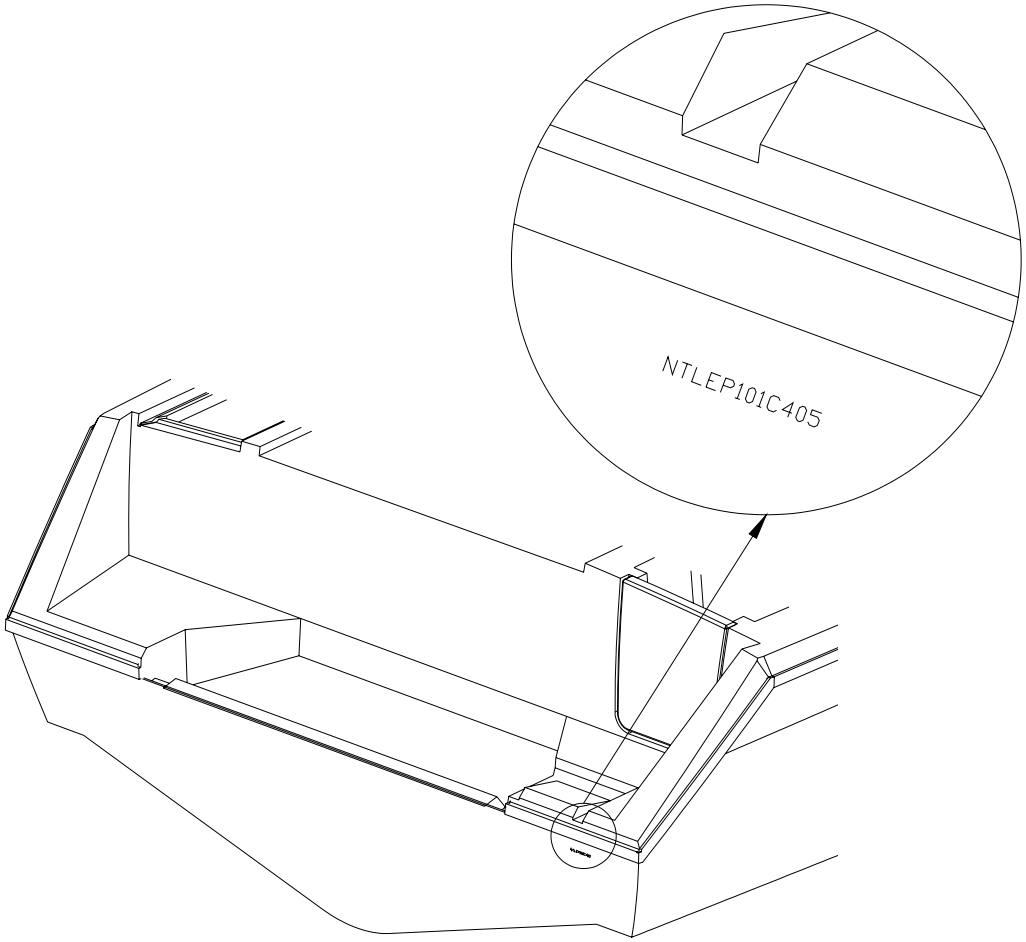
CONSUMER RESPONSIBILITIES

THE FOLLOWING ARE RESPONSIBILITIES OF THE GRADY-WHITE OWNER:

- Read and understand the express limited warranty.
- Study in detail all literature and instructions enclosed, and use all equipment in accordance.
- Examine the boat and confirm all systems are working suitably at the time of accepting delivery.
- Render proper maintenance and periodic servicing of the boat in accordance with suggestions in the Owner's Manual.
- Return the boat to the selling dealer for an engine inspection. Refer to the engine's owner's manual for the proper maintenance schedule.

Grady-White Boats has a permanent record of your boat which is retained under its "**H**ull **I**dentification **N**umber" (HIN). Data regarding equipment and accessories, as well as dealer/shipping information is documented. When contacting your dealer concerning warranties or service, please have all relevant information such as serial numbers (HIN) and model number available. This information is on your copy of the warranty card.

The "**H**ull **I**dentification **N**umber," located on the starboard side of the transom, is a significant source of identification and must be noted in all correspondence and orders. Failure to include the HIN only creates delay.



HAZARD WARNING LABELS

The hazard warning labels shown below are applied throughout this manual to alert the customer of potentially dangerous situations that can lead to death, personal injury, and/or product damage. We urge you to observe these warnings and comply with all safety recommendations.

⚠ DANGER
This symbol alerts you to imminently hazardous situations which *will* cause severe personal injury or death if the warning is ignored.

⚠ WARNING
This symbol alerts you to potentially hazardous situations or unsafe practices that *could* result in severe personal injury or death if the warning is ignored.

⚠ CAUTION
This symbol alerts you to potentially hazardous situations that *may* result in minor personal injury or cause product or property damage if the warning is ignored.

NOTICE
This symbol calls attention to installation, operation, or maintenance information which is important for proper operation, but is not hazard related.

Chapter 2: Safety

REQUIRED SAFETY EQUIPMENT

The US Coast Guard (USCG) requires that every boat have specific equipment on board. Check with local regulations on mandatory equipment apart from the list of Coast Guard requirements. See *Sportfish, Cruisers, Yachts Owner's Manual,* page 17, for details on the following required safety equipment.

- **Fire Extinguisher**
  Boats should be equipped with a marine approved fire extinguisher.
- **Personal Flotation**
  All passengers must have an USCG approved personal flotation device (PFD).
  Children and non-swimmers are advised to wear a PFD at all times.
- **Sound Signaling Device (Horn, Bell Or Whistle)**
  Your Grady-White is equipped with a horn that meets USCG requirements.
- **Visual Distress Signals**
  USCG approved visual distress signals are required on U. S. waters. See page 33 of the pamphlet *Sportfish, Cruisers, Yachts Owner's Manual* enclosed with this manual for more information.
- **Lighting**
  Grady-White boats are equipped with navigational lights that meet requirements for recreational vessels for inland and international waters.

ADDITIONAL RECOMMENDED EQUIPMENT

In addition to the required safety equipment, there are additional items that will provide an extra margin of safety and convenience for you and your passengers while boating. For an extended list of basic gear, tools and spare parts, reference page 18 of the pamphlet *Sportfish, Cruisers, Yachts Owner's Manual* enclosed with this manual.

Keep tools and spare parts in good condition. Replace parts removed from spare parts kit. Most importantly, use US Coast Guard approved or marine certified parts where applicable. Conditions found requiring corrective action should be worked on by a qualified repairman.

REGISTRATION NUMBERS

Federal and State laws require a powerboat to be registered in the State where it is primarily used. Registration numbers and validation stickers must be displayed according to regulations. The registration certificate must be on board when boating. The boat serial number or Hull Identification Number (HIN, *page 1–2*) is required on the registration form. The HIN is located on the upper right hand corner of the transom, and is the most important identifying factor. The HIN should be included in all documents and correspondence to provide you timely service.

EMERGENCY STOP SWITCH

Some Grady-Whites are equipped with an emergency stop switch. This is a safety feature that if used properly will shut the engine(s) down if the operator leaves or falls from the helm position. The ignition shutdown system includes a shut-off switch, switch clip, lanyard and lanyard clip. The lanyard clip is attached to the operator. If a situation arises where the boat should stop, a pull on the cord to release the clip from the shut-off switch will shut down the engine(s). To reset the emergency stop switch, simply reinstall the switch clip. The decision to use the emergency stop switch rests with the owner/operator. See page 72 in *Sportfish, Cruisers, Yachts Owner's Manual.*

EMERGENCY INFORMATION

While boating, unpleasant situations may develop. You should prepare yourself on how to cope with them whether they happen aboard your vessel or someone else's. Anticipate and game plan for specific situations such as fire, man overboard, collision, etc. to give you the confidence and ability necessary to handle an emergency. The key is to remain calm. For emergency procedures, see Section 4 in *Sportfish, Cruisers, Yachts Owner's Manual.*

- **Rendering Assistance**

  The owner or operator of a vessel is required by law to render all practical or necessary assistance to any person or vessel affected by collision, accident or casualty. **However, you are not required to endanger your vessel or passengers to render assistance.**

- **Accident Reporting**

  Report all boating accidents to your local authorities. Federal regulations require boat operators involved in an accident to submit a written report within 48 hours. **In the event of death or disappearance, notification is required immediately** by phone or radio in addition to the written report. These reports can be submitted to the State Boating Law Administrator. Forms can be obtained through the USCG, local harbor patrol offices, sheriff, and police stations.

- **Lightning Precautions**

  This awareness is included to ensure the safety of the owner and passengers. Always be mindful of the weather! When a lightning storm advances, certain safety precautions should be taken. Dock the boat and seek shelter on land. If this is not possible, seek refuge inside the boat until the storm has passed. **Stay out of the water!** Lightning will seek a ground when it strikes and may pass through metal components if it hits your boat. For this reason, avoid contact with metal parts of the boat under these conditions.

BOATING SAFETY TIPS

Safety is an important aspect of boating. Your safety as well as the safety of your passengers and vessel is your responsibility. The following precautions and the ones mentioned in section 1 of *Sportfish, Cruisers, Yachts Owner's Manual* will add to you and your passengers' boating safety and pleasure.

- Before operating your Grady-White **READ AND STUDY ALL OPERATION AND MAINTENANCE MANUALS.** It is important that you fully understand how to use your boat. Contact your Grady-White dealer for questions. Proper use and service will insure quality performance and longevity of your boat.
- A written float plan left with a **RESPONSIBLE** person can serve as valuable information should you not return as scheduled. Upon returning, your primary responsibility is to notify the person of your return.
- ***NEVER*** operate or allow anyone to operate your boat while under the influence of drugs or alcohol.
- **Individuals under the age of 16 should not be allowed to operate your boat. Inexperienced drivers should have constant and direct supervision.**
- Instruct at least one passenger on the fundamentals of basic boating and safe operation in the event of an emergency.
- While boating, passengers should be settled in a safe position. Use hand holds and rails for steadiness. Do not allow bow, transom or gunwale riding. The captain is ultimately responsible for their passenger's safety.
- Keep your boat speed under control. Respect for other boaters and those on shore are common courtesies. The boat's operator is responsible for injury or damage caused by the boat or the wake. Your wake could swamp a smaller craft and endanger its passengers. Stay alert for posted **"No Wake Zones"**.
- Become familiar with the handling personality and limitations of your boat.
- **Never allow swimmers/skiers to enter or exit the boat with engine(s) running.** A shift lever in neutral could become engaged accidentally. Also, exhaust fumes from the outboard engine(s) contain carbon monoxide gas. These fumes may concentrate in this area.
- Obtain information and a chart for new areas when possible.
- Clean water and air are responsibilities for all persons. Use litter containers on board and dispose of refuse properly. See *"Pollution Regulations" on page 3–3*.
- Know and obey the **"Rules of the Road"**. See *Sportfish, Cruisers, Yachts Owner's Manual,* beginning on page 19, for a better understanding of right of ways, signals and waterway markers.

LOADING CAPACITY

Though overloading is a primary cause of many boating accidents, improper loading is equally hazardous. Boaters should know the amount of weight on board and evenly distribute the weight.

In the helm area you will find a metal Coast Guard Capacity Information Tag indicating the maximum weight and person capacity for your boat. This tag will also designate the maximum horsepower limit for an outboard. You and your passengers will be in jeopardy and your warranty void if any of these stipulations are exceeded.

The capacity plate indicates maximum load under normal conditions. The capacity plate does not release the operator from the accountability of rational judgment. Allow yourself an extra margin in rough waters and adverse conditions by reducing the boat's capacity. Maintain a watch on weather conditions.

Example: 22 Seafarer Capacity Plate

This label means that your Grady-White is certified by the NMMA (National Marine Manufacturers Association). This tag assures you your fuel system, lighting, ventilation, steering, flotation, capacities and horsepower ratings are not only in compliance with the US Coast Guard regulations, but meet the more stringent standards of the NMMA. The NMMA is a national trade organization serving all elements of the recreational boating industry as well as manufacturers of boating equipment. With this tag, you can have complete confidence in the safety of your Grady-White.

CARBON MONOXIDE

⚠ WARNING

(CO) is produced by all gasoline engine(s) and generator sets.
Avoid brain damage or death from carbon monoxide.
Keep cockpit and cabin areas well ventilated.
Avoid blockage of exhaust outlets.
Signs of exposure include headache, nausea, dizziness and drowsiness.

Carbon Monoxide, commonly written (CO), is a colorless, odorless gas emitted from any boat's exhaust. The gas is similar in weight to the air we breathe. Therefore, it cannot be expected to rise or fall, but will accumulate in confined spaces.

Carbon monoxide is **poisonous**, and potentially **fatal** if breathed over an extended period of time. Symptoms of CO poisoning include dizziness, nausea, headache, sleepiness, vomiting, throbbing in the temples, muscular twitching, and an inability to think clearly. **If you or anyone else experience these symptoms, immediately get away from fumes and into an area where plenty of FRESH air can be consumed. If any symptoms from above persist, seek medical attention.**

Carbon monoxide can accumulate in cabins and under canvas. If your boat is equipped with a canvas that encloses the aft cockpit and propulsion equipment, do not operate the boat with this canvas closed.

Outboard engine exhaust fumes contain carbon monoxide. These fumes may concentrate at the motorwell area. Do not board your vessel with the engine(s) running. Also, do not occupy the motorwell area with the engine(s) running.

Operators need to be aware of the influence of other boats on their vessel as well as the effects they have on neighboring crafts. Of primary concern is the operation of an auxiliary generator with boats moored along side each other. This situation creates an atmosphere which is filled with CO, and extremely dangerous.

⚠ WARNING

***BE AWARE* of the significance your exhaust may have on other vessels. Likewise, *BE AWARE* that the operation of other vessel's equipment may influence the carbon monoxide concentration on *your* vessel.**

⚠ WARNING

Exhaust fumes from engine(s) contain (CO). Boats with canvas deployed are more likely to collect exhaust fumes. Avoid brain damage or death from (CO). Keep cockpit and cabin areas well ventilated. Signs of exposure include headache, nausea, dizziness and drowsiness.

SUGGESTED BOATING CLASSES AND READING MATERIAL

Like a car, boats must be operated according to safety rules and traffic regulations. Although we include some basic boating tips in this manual, a thorough review of the safety rules and regulations for boating is beyond the scope of this text.

We support the work of the United States Coast Guard Auxiliary and the United States Power Squadrons. We urge you to exercise the opportunity to attend any instructional classes sponsored by these organizations. Reference page 8 of *Sportfish, Cruisers, Yachts Owner's Manual* for training options, and page 23 for information on charts and maps. For further knowledge on boating, we advise that you review the following publications:

- **Piloting, Seamanship And Small Boat Handling**

  (Chapman)*
  Motor Boating and Sailing
  Post Office Box 2319 -- F.D.R. Station
  New York, New York 10022
  *Available on CD ROM

- **Pleasure Boating And Seamanship**

  US Coast Guard Auxiliary
  306 Wilson Road Oaklands
  Newark, Delaware 19711

- **Boatman's Handbook**

  by Tom Bottomly
  Motor Boating and Sailing
  Post Office Box 2319 -- F.D.R. Station
  New York, New York 10022

FOR MORE INFORMATION ON BOATING SAFETY COURSES IN YOUR AREA CALL:

- Boating Education Hotline 1-800-336-BOAT (2628)
- Us Coast Guard Boating Hotline.....1-800-368-5647
- Contact Your Local Coast Guard.

Chapter 3: General Information

FUELING

⚠ WARNING

Safety during fueling requires *CAUTION* and *COMMON SENSE*.

Please study the following precautions carefully. Consult your dealer if you have any questions. Prior to your initial fill-up, check your engine manual to confirm the type of fuel specified by the manufacturer. Never use fuels containing alcohol. The alcohol can deteriorate the rubber materials used to make up your fuel system. Methanol based fuels absorb water, making fuel more corrosive to the metals in tanks and carburetors.

- **Before Fueling**
  - •Shut down all engines.
  - •Turn battery select switch(es) to "OFF" to insure that all fans, lights, etc. are off.
  - •Close all ports, hatches, windows and engine compartments to prevent fumes from accumulating in closed areas.
  - •Extinguish cigarettes and all other lighted materials.
  - •Have a fire extinguisher near.
- **During Fueling**
  - •Observe all safety regulations for the safe handling of fuel.
  - •Keep the fuel supply nozzle in contact with the fuel tank opening to prevent any static sparks.
- **After Fueling**
  - •Secure the fuel cap, and check fuel lines and connections for leakage. Wash and clean up any spilled fuel. Dispose of clean up rags or sponges on shore. Do not store these clean up rags in the boat.
  - •After fueling ventilate all ports, windows, hatches and other closed areas. Conduct a "sniff test" to make certain all fumes are vacant before using the battery select switch(es).
  - •Select your first tank cautiously. Take into consideration the distribution of your load as fuel is consumed. Performance will be influenced by weight distribution. If your boat is equipped with two fuel tanks use the fuel select valve (see *"Fuel Select Valve" on page 3–3*) to select the proper tank.

See warnings and check list in Section 6, page 37 of the *Sportfish, Cruisers, and Yachts Owner's Manual*. Reference *"Fuel Tank Compartment" on page 6–7* for more information on cleaning the fuel storage area.

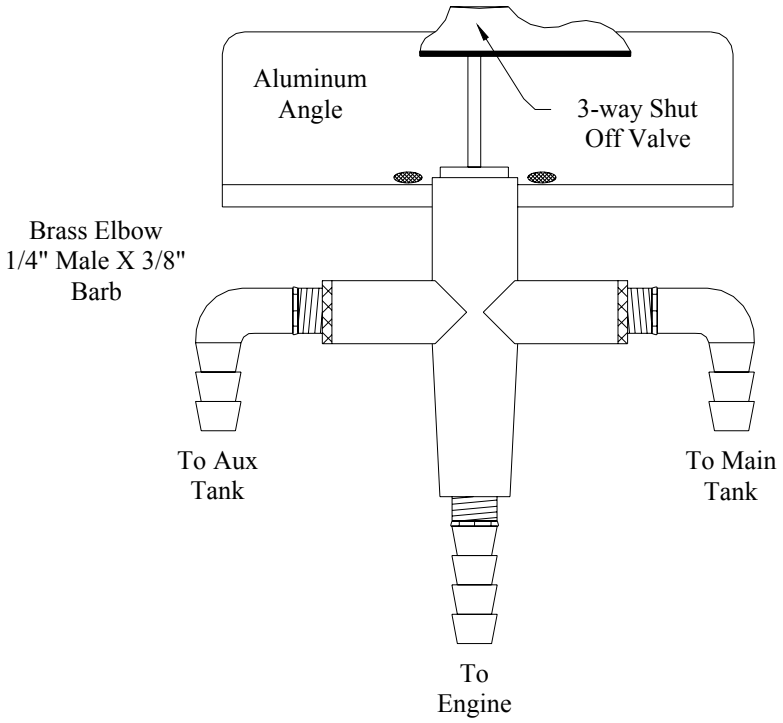
FUEL SYSTEM

After fueling, inspect the fuel hoses, connections, and tanks for tightness, signs of leaks. and deterioration. Annually conduct a more detailed inspection of fuel system components, especially those hidden from routine inspection. Replace deteriorated hoses, clamps, connections or fittings immediately.

If you are experiencing fuel flow problems, there is a simple method to determine if the problem is in your fuel system or your engine. Connect a six-gallon portable tank to your engine. If the problem persists, the likely cause is with the engine itself. If the problem goes away, the source must be in the boat's fuel system. One component that should be inspected if a restriction occurs is the anti-siphon valve. If fuel does not flow properly through this part it must be cleaned and/or replaced. ***Do not*** remove the anti-siphon valve and replace with a regular barb.

FUEL SELECT VALVE

If your boat is equipped with dual fuel tanks, you will have a manual fuel select valve installed. This valve allows you to choose from which tank fuel will be consumed. Remember, as the fuel is consumed and the fuel load redistributes the performance will be influenced. Select the tank that allows the best performance for your boat.

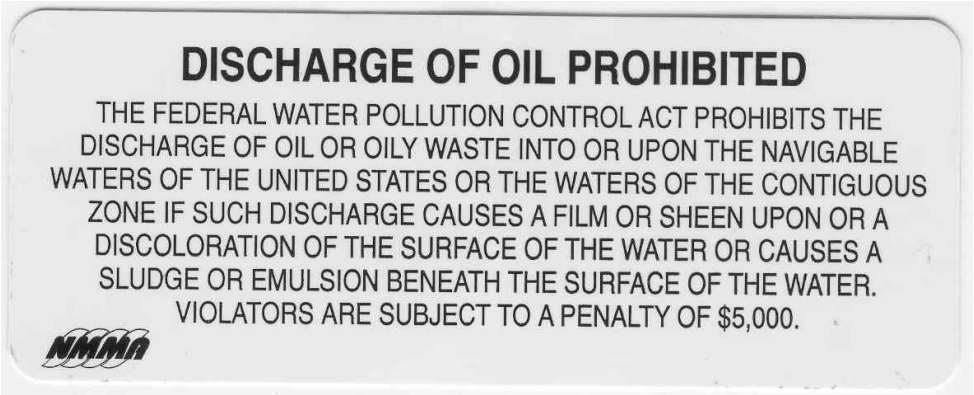


POLLUTION REGULATIONS

The U.S. Coast Guard defines restrictions on the discharge of oil or hazardous substances and plastics or garbage in the “Federal Requirements for Boating and Boating Safety”. You should have received this pamphlet when you registered your boat. Detailed below is a summary of those regulations. You should read the pamphlet and become familiar with any local restrictions where you operate your vessel. Passengers or crew members aboard your boat should also be notified of these regulations.

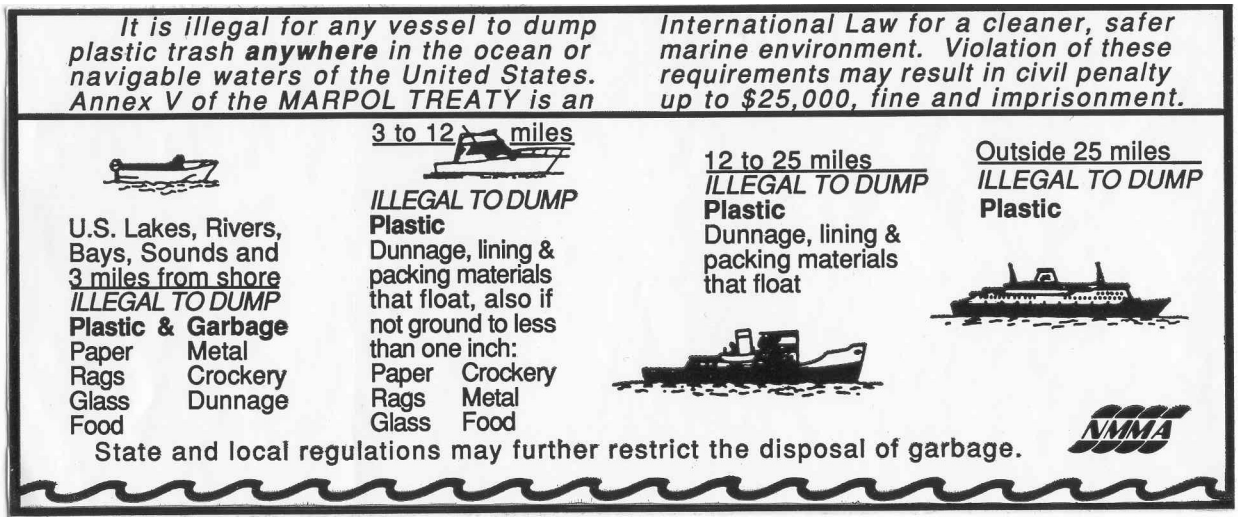
Discharge of Oil or Hazardous Substances

The Federal Water Pollution Control Act prohibits the discharge of oil or hazardous substances, which may be harmful, into or upon U.S. navigable waters. Vessels 26 feet in length or over must display a placard at least 5” x 8”. The placard should state the following:



Disposal of Plastics or Garbage

The MARPOL ANNEX V is the Act to prevent pollution from ships and other vessels. Federal regulations prohibit the discharge of plastic garbage anywhere in the marine environment. Plastic includes, but is not limited to: synthetic fishing nets, ropes, lines, straws, six pack holders, styrofoam cups and lids, bottles, buckets and plastic bags. These regulations also restrict the disposal of other types of garbage within specified boundaries from shore. Any vessel 26 feet and over must display the placard below or a similar version which details the regulations. The placard must be at least 4” x 9” and should be available from your dealer.



TRAILERING

The adjustment and balance of your boat on the trailer determines how easily your boat may be transported. The tongue weight on the hitch ball should be 5-10% of the total weight of your boat, motor and trailer. Tail-heavy loads cause swaying while trailering. The rollers and/or bunkers of your trailer should be adjusted so that the weight is distributed evenly across the stern and forward throughout the keel sections. Your dealer can help adjust your trailer properly.

Practice maneuvering the trailer; the trailer always backs in the opposite direction of the vehicle. To maneuver the trailer, turn the steering wheel in the direction you want the trailer to go. Familiarize yourself with this manual and all aspects of your boat prior to initial launch. At the launch site, go through a pre-launch checklist. The list should be suited to your specific needs.

Trailering and relative information can be found on page 94 in *Sportfish, Cruisers, Yachts Owner's Manua*l.

PREDEPARTURE

See the checklist on page 35 in *Sportfish, Cruisers, Yachts Owner's Manual* before starting out.

CASTING OFF & APPROACHING THE DOCK

Unlike an automobile, the stern of your boat reacts first when turning. A turn to the right will swing the stern to the left and vice-versa. Remember that turning your boat away from an object, such as a dock, will tend to swing the stern toward that object. Reference procedures for casting off and approaching the dock on page 42 of *Sportfish, Cruisers, Yachts Owner's Manual.*

ANCHORING

Some factors that determine the size and type of anchor most suitable for your boat include the size of your boat and the type of lake, sea or river bottom in your boating area. *Sportfish, Cruisers, Yachts Owner's Manual* has a list of tips concerning anchoring starting on page 46.

NOTICE
It is illegal to tie your boat to navigational aids such as buoys and markers.

⚠ WARNING
Never anchor off the stern of the boat especially in strong winds or currents. The weight of the stern and flat surface to the seas can easily cause water to enter over the transom and swamp the boat.

TOWING

In the event of a mishap or power loss you may need to tow a boat or be towed. You should not tow a boat larger than your own. Always use safety and good judgement when towing. Never tow a boat if you are not equipped with the proper lines. Passengers should never grasp a towline. It should be secured to the boat. See page 30 in *Sportfish, Cruisers, Yachts Owner's Manual.*

Before towing a boat, make a bridle and tie it securely to the pad eyes on the transom with enough slack to clear the engines. Pad the line wherever it comes into contact with the boat to prevent chafing. Attach a tow line to the bridle so that it can slide from side to side to prevent too much pressure on a single pad eye. The tow line should then be attached to the bow eye or to a bridle on the towed boat. The tow line should be a minimum of twice the length of the towing boat, the longer the better. Do not try to run in too close when passing the towline to the other boat. Send either a light line or attach the towline to a life preserver to be pulled in. Be aware of the other boat's propeller.

The towed boat should always have someone at the wheel since the boat may swing off course. Start the tow off slowly; a steady pull at a moderate speed should be used. It is important to keep the slack out of the propeller area. Watch the action of the towing boat. If excessive slack develops in the towline and contact is obvious, turn in either direction to avoid hitting the stern.

⚠ WARNING

As a precaution, passengers on both boats should stay clear of the towline; lines under stress could snap and fly in either direction causing injury.

SHALLOW WATER

Most boats that become grounded can be floated off with engine(s) tilted to reduce the draft at the transom. With motors tilted, try rocking the boat from side to side to break the suction of mud from the keel. Move passengers or heavy objects from the point where the boat is grounded. Do not lower or start the engine(s) until the boat is clear of the ground. Refer to page 53 in *Sportfish, Cruisers, and Yachts Owner's Manual*.

⚠ CAUTION

Do not lower or start engines if the propeller is in mud or sand. Wait until the boat is refloated to avoid damage to the cooling system of your engine.

Be mindful of water level fluctuations when boating in water with tidal changes. If you are grounded on an incoming tide, you can wait until the tide is high enough to refloat your boat. However, on an outgoing tide, quick action should be taken to refloat your boat. If this is not possible, set an anchor to keep the boat from becoming driven further aground. Set the anchor to counter the action of the wind or current. The anchor, in some cases, can also be used to pull the boat free.

Many inland areas have rocks and stumps which could crack or puncture a fiberglass hull. Be familiar with the boating area, and use caution in shallow water.

WINDLASS

Anchoring can be less laborious if your boat has a windlass accessory. If your boat is equipped with a windlass, reference your windlass Operation Manual for instructions.

GENERAL INFORMATION ON BOAT HANDLING

The best method of learning how to handle and obtain the best performance from your boat is to practice and experiment. After several hours of operation, you should experiment with the throttle settings to discover the setting that will be the most comfortable and economical range for your particular load conditions.

We suggest that you make a speed and RPM chart to obtain the most economical operation. Operate the boat at various speeds and check the fuel consumption. Compute the amount of operating time remaining when the fuel gauge has only one bar remaining on the display. Make a log of this type of information and have it available when using your boat. Other statistics you may want to determine could include the following:

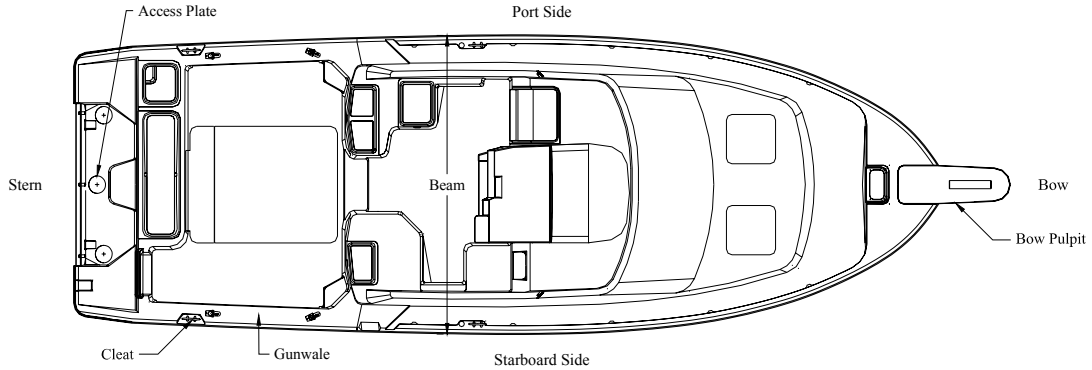
- Minimum speed for effective steering.
- Turning radius at different speeds.
- Response to steering at low speeds.
- Accelerating and deceleration rates.
- Time and distance to bring the boat to a stop at different speeds.
- Control of the boat using both engines in close quarters.

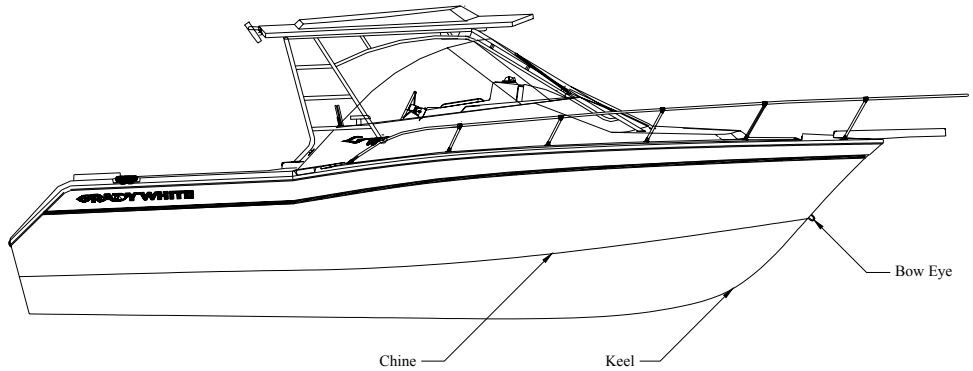
Also read the section in *Sportfish, Cruisers, Yachts Owner's Manual* beginning on page 49 for information on safe operating speed.

TWIN ENGINE BOATS

Twin engines boats are easier to maneuver than single engine crafts. However, they still require practice to ensure comfortable operation. The boat will run ahead or backward in a straight line when both engines are working together at the same speed. The engines also can be used to steer to port as well as starboard. Moving ahead on one engine will cause the bow to swing away from the running engine side and to move forward at the same time. Backing up with one engine will cause the bow to swing toward the running engine side and the boat to move backward. Running one engine ahead and one engine astern will cause the boat to turn end-for-end in little more than its own length. Running both engines in the same direction at different speeds will cause the boat to move in the direction dictated by the faster engine but its influence will be modified by the slower engine.

COMMONLY USED NAUTICAL TERMS





Abeam - a line perpendicular to a boat's keel

Access Plate - a removable, watertight cover that provides quick entry to enclosed areas for maintenance or visual inspection.

Aft - toward the rear or stern of the boat

Beam - the greatest width of the boat

Bilge - the lower interior area of the hull

Bow - the forward section of the boat

Bow Eye - a U-shaped hull fitting used to attach the trailer winch to the boat

Bulkhead - vertical partition in the boat

Chine - point where the topside and bottom of the boat join

Cleat - deck fitting with arms or horns on which lines are fastened

Deck - upper structure which covers the hull

Draft - depth of water required to float a boat

Fathom - a depth measurement equal to six feet

Freeboard - distance measured between waterline and deck

Gunwale (Gunnel) - point where the deck and hull join

Hatch - an opening in the deck to provide access below

Headroom - vertical distance between the floor and over head structure or canopy ceiling

Hull - major component that provides a watertight platform buoyant enough to float a craft and its load

Keel - the major longitudinal member of a hull -the lowest external portion of the boat

Knot - a measurement of speed equal to nautical miles per hour

Lee - the side that is sheltered from the wind

List - a tilt or lean to one side

Port - a term designating the left side of the boat when facing forward

Scupper - holes permitting water to drain overboard from deck and cockpit

Sheer - curve or sweep of the deck as viewed from the side

Starboard - a term designating the right side of the boat when facing forward

Stern - rear of the boat

Stringer - longitudinal members fastened inside the hull to add rigidity and strength

Wake - the movement of water created by a moving boat

Windward - side facing the direction of the wind (against the wind)

Chapter 4: Performance

PERFORMANCE FACTORS

Maximum performance is dependent on many factors and cannot be guaranteed. These factors will vary with changing conditions. Some of these factors are listed below. Reference the trouble-shooting guide on page 65 in *Sportfish, Cruisers, Yachts Owner's Manual* for additional suggestions on adjusting performance.

Engine Efficiency

Engines operate most efficiently at the RPM confirmed in the engine operating manuals, assuming your boat is equipped with the correct engine(s), the engine(s) are properly tuned, and the drive system(s) are in good condition. Efficiency will decrease if normal care and maintenance is not performed. Neglecting the engines will cause power to drop and speed to decrease. In addition, expensive repairs may become necessary. Be sure to follow all instructions in the engine operation manual(s).

Weather Conditions

Weather conditions sway engine performance. Barometric pressure and humidity affect horsepower. A change of weather could amount to a 10% loss in horsepower on some hot days.

Load Distribution

A decrease in performance will be noted when gear, equipment, passengers, and fuel are added. This extra load will affect the performance of your boat according to the distribution of the weight. Another type of extra load that could affect performance is the accumulation of water in the bilge. Keep the bilge dry to eliminate this type problem.

Marine Growth

Maximum performance is obtained only when your hull bottom is clean. Marine growth on the bottom of the boat will increase resistance and decrease speed. These conditions will also increase fuel consumption. Reference *"Cleaning" on page 6–1* for more information on cleaning your hull bottom.

Trim

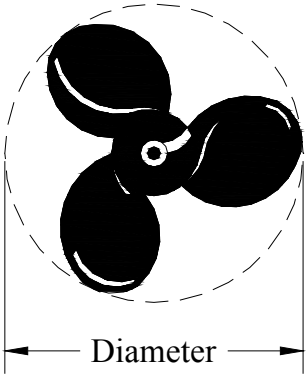
Most outboard models are equipped with power tilt and trim mechanisms. The purpose of power tilt is to raise the engine(s) for launching, loading or trailering. Power trim may be used to adjust the boat's planing performance and running attitude. See power trim, page 52 and 72, in *Sportfish, Cruisers, Yachts Owner's Manual*.

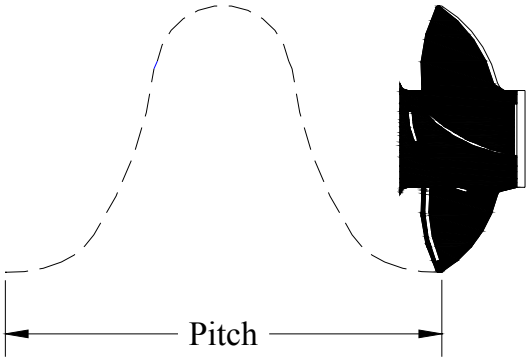
Trim refers both to the weight distributions inside the boat and to the angle of thrust of the drive unit. The angle of thrust of the drive unit forces the bow up or down. The trim tabs on your boat also control the trim of the boat, similar to the power trim. Refer to the Trim Tabs section in Chapter 8 for additional information.

Propeller

The condition of your prop has a major influence on the performance of your boat. Your engine(s) should be equipped with the best size prop for normal conditions. Unusual uses or weight conditions may require special props. A damaged prop can affect your boat's top speed, cause vibrations, create a sudden drop in RPMs or even increase fuel consumption.

⚠ CAUTION
Stay within the engine manufacturer's maximum and minimum RPM ranges when replacing props. This information is located in your engine manual. If your boat does not have a tachometer, consult your dealer for propeller changes.





Diameter = 14 **Pitch = 14**

Diameter and pitch are the two basic dimensions of a propeller. Diameter is the distance across the circle made by the blade tips as the propeller rotates. Pitch is the theoretical (not accounting for slippage) forward distance the propeller would move in one revolution. An example of a propeller dimension would be 14 X 17 for a propeller having a diameter of 14” and a pitch of 17”.

PROPULSION SYSTEM – OUTBOARD

The engine manufacturer supplies all vital information concerning your engine(s) in the Operation and Maintenance Manual(s). Details of important engine functions such as the lubrication system, cooling system, and alarm/monitoring system are outlined in these manuals. Your familiarization with this engine reference material will result in the proper usage and service essential for safe and enduring engine performance. These manuals are included with the Owner's Packet.

⚠ DANGER

Do not inhale exhaust fumes! Exhaust contains carbon monoxide — a dangerous gas which is potentially lethal.

⚠ WARNING

Do not attempt to service any engine or drive component without being totally familiar with the safe and proper service procedures. Certain moving parts are exposed and can be dangerous.

⚠ CAUTION

Do not paint the outboard motors with anti-fouling paints designed for boat hulls. Many of these paints can cause severe damage to the engines.

ENGINE WARRANTY

A warranty registration card is included with all engine manuals. It should be completed and returned to the engine manufacturer as soon as possible.

STEERING

Most outboard engines are equipped with an adjustable rudder trim tab. This trim tab should be adjusted to balance the steering at the speed which you travel most frequently. Variations in speed, boat load or engine trim will cause the steering to pull in one direction. If the boat pulls to the left, adjust the trim tab to the left and vice-versa.

- **Hydraulic Steering**

  Hydraulic steering systems (not to be confused with power steering) require regular preventative maintenance for continued safe and reliable operation. The oil level in the helm pump must be maintained within acceptable operating levels. A low oil level will allow air to get into the steering system and result in unresponsive steering. The oil level should always be within 1/2 inch from the base of the fill hole, located on the front top portion of the helm pump. Check the entire steering system regularly for oil leaks. Unobserved leaks over a period of time will result in unresponsive steering and possibly loss of steering.

  All moving mechanical linkages, sliders, etc. must be greased as needed with a high quality marine grease. Refer to the steering manual for specific recommendations and additional maintenance requirements.

  Any slow or sudden change in the “feel” of your steering system indicates an immediate need for a thorough inspection. All repairs and replacements to steering systems should be made only by a qualified marine technician.

- **Tilt Steering**

  This feature enables the operator to tilt the wheel up or down. Refer to the steering system's manual for information on oil levels with hydraulic tilt steering.

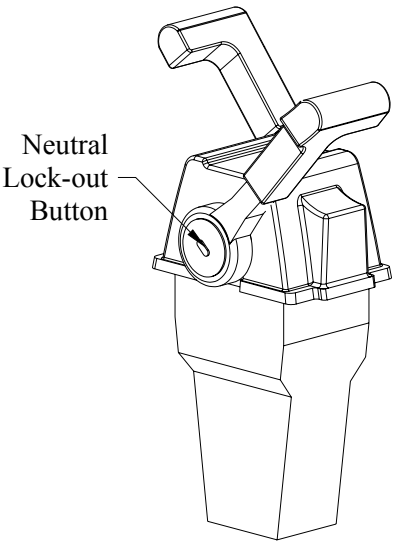
THROTTLE/SHIFT CONTROL

The throttle/shift controls located at the helm station control the flow of fuel to the engine. They also act as gear shift levers to control the forward and aft thrust of the propellers.

The middle position of the throttle control is the neutral position. Move the control forward to engage the shifting mechanism which creates a forward thrust of the propeller. Advance the forward movement to increase the fuel flow to the engine and boost the forward lunge.

Move the control lever aft of the neutral position to reverse the shift mechanism and create a reverse thrust of the propeller. Increase the aft movement to increase the reverse thrust. Remember that propellers are designed for maximum forward thrust; so, reverse thrust will not be as efficient.

All controls have a neutral safety mechanism. This mechanism will not allow the engine to start when the control is in gear. You may use the neutral lock out feature on the control handle to increase the flow of fuel to the engine while remaining in the neutral position.



Reverse the shift mechanism to stop a boat that is moving forward. This change in direction will provide a “braking action” and slow the boat.

⚠ CAUTION

The braking action causes a wake which may wash over the transom and flood the boat if the vessel is moving too fast. Allow engine RPMs to decrease before shifting into reverse.

If your throttle or shift cables need replacing, use the same style and length as the original equipment.

Chapter 5: Instrumentation and Switches

YAMAHA INSTRUMENTATION PANEL

Grady-White installs full Yamaha Command Link instrumentation on pre-rig boats. The instruments are powered by the ignition key(s) and will operate when the ignition switch(es) is in the "on" position.

DIGITAL SPEEDOMETER AND FUEL MANAGEMENT

- **Fuel Level**

  This feature indicates the gas tank(s) fuel level. Remember two things when reading this gauge:

  - The accuracy of your gauge varies with the attitude of your boat in the water (trim or list).
  - The fuel pickup tube inside the gas tank is not capable of withdrawing all of the fuel from the tank.

  For these reasons, never operate your boat at extremely low fuel levels.

- **Fuel Economy**

  This feature indicates the engine's fuel economy in miles per gallon.

- **Fuel Consumption**

  This feature indicates the fuel consumption in gallons since the feature was last reset. For twin engine applications, this may be monitored individually or as a total.

- **Fuel Flow**

  This feature indicates the fuel flow through the engine(s) in gallons per hour.

- **Low Fuel Warning Indicator**

  This feature indicates the amount of fuel in gallons per hour flowing through the engines. Each engine may be monitored separately or a total amount displayed.

- **Speedometer (excluding V8 engines)**

  This feature indicates boat speed in miles per hour, knots per hour, or nautical miles per hour.

- **Trip Distance Meter**

  This feature indicates the distance traveled in miles or nautical miles since the meter was last set.

DIGITAL TACHOMETER

- **Revolutions Per Minute (RPM)**

  This feature indicates the RPM using 100 RPM intervals. Consult your engine Owner's Manual for the recommended operating RPM range.

- **Trim Position**

  This feature indicates the angle of thrust of the lower unit of the engine. See *"Trim" on page 4–1* for adjustment recommendations.

- **Battery Voltage Indicator**

  This feature indicates the battery charge when the engine is off and indicates the alternator output when the engine is running. A reading of 12 or 13 volts is normal indicating a fully-charged battery. Readings below 11 indicate a weak battery which may not start the engine. A reading of 13 to 15 volts when the engine is running is normal. Readings over 15 volts may indicate regulator problems. Low or fluctuating readings may indicate loose connections or trouble in the regulator and alternator circuit.

- **Cooling Water Temperature with Warning**

  This feature indicates the temperature of the cooling water circulating through the engine and warns you when the temperature exceeds the recommended operating range indicated by your engine owner's manual. Should you receive this warning, immediately shut off your engine to prevent damage. Overheating is often caused by obstruction of your engine's intake on the lower unit. Check the intake strainer first if you experience trouble.

- **Hour Meter**

  This feature records the cumulative number of hours the engine has been in use.

- **Tripped Hour Meter**

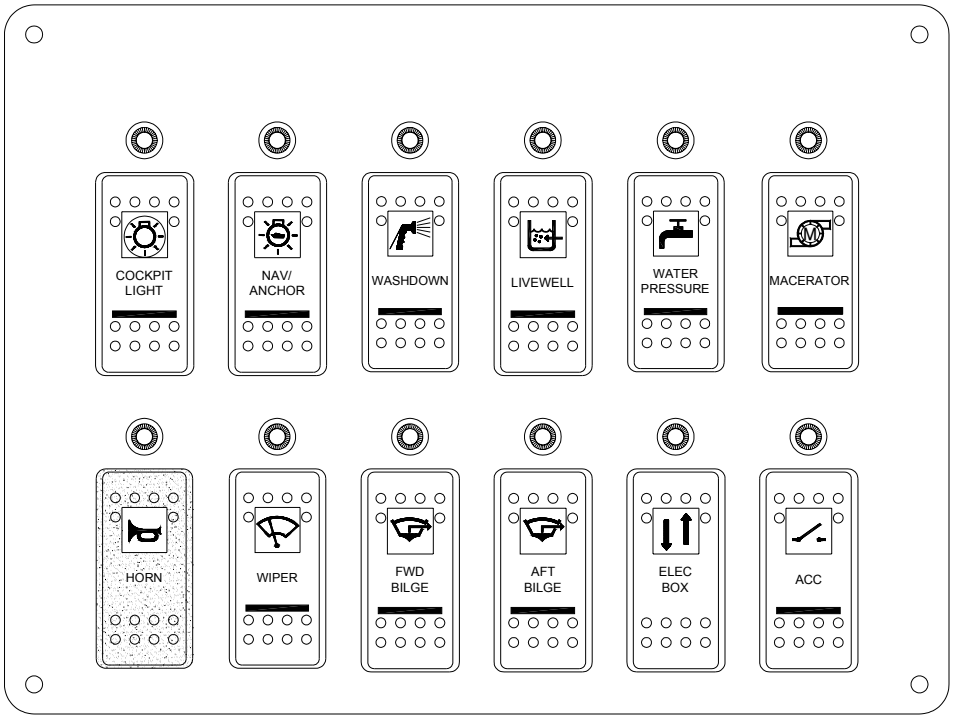
  This feature indicates the number of hours the engine has been in use since it was last set.

- **Oil Pressure with Warning**

  This feature indicates the engine oil pressure with a warning for low oil pressure. Refer to your engine owner's manual for information regarding engine oil and oil pressure.

SWITCH PANEL

At the helm station you will find an accessory switch panel. Not all boats are equipped with the same accessories. Consult your dealer for specific information or questions on the accessories included on your boat. More detailed descriptions of switch functions are located in Chapter 8 of this manual.



This represents a generic switch panel layout. Actual panels will differ depending on the boat model and optional accessories installed during manufacturing.

Chapter 6: Maintenance and Service

GENERAL

The amount of maintenance required to keep your boat operating properly and to maintain the appearance is dependent on how the boat is used, amount of usage, salt or fresh water, geographic location, etc.

Your hull and deck are constructed by the “hand lay-up method” using the highest quality fiberglass mat and woven roving. This method of construction ensures a proper fiberglass-to-resin ratio and uniform thickness resulting in a much stronger boat than those constructed of “chopped glass”. This process ensures your Grady-White is the strongest, most durable fiberglass boat possible.

Keep the bilge area clean and dry. Leaks found early and corrected will less likely cause damage. Do not allow grease, grime, and dirt to build up.

While proper maintenance of your boat is a source of pride, it is also key to maintaining your boat's value. A few simple steps will keep your fiberglass Grady-White looking showroom bright for years.

EXTERIOR FIBERGLASS FINISH

The exterior finish of your Grady-White is a thin layer of resin with a finished color pigment called gel-coat. It is used for cosmetic purposes and makes routine maintenance relatively simple. Although gel-coat has a hard smooth surface, it does contain microscopic pores that will allow surface discoloration if not kept clean.

Maintenance

Normal exterior finish maintenance of your Grady-White is similar to the care you would give your automobile. Do not use caustic, highly alkaline cleaners or those containing ammonia. These cleaning agents may darken gel-coat. The resulting stain is a chemical reaction and can be removed with a rubbing compound followed by waxing. Also, using common household bleach (chlorine) may damage the gel-coat finish just like bleach can damage clothing with colors. Bleach impacts solid colors by causing blushing or fading and for this reason should not be used on gel-coat.

Cleaning

The best way to prevent discoloration and soil build-up is to hose the boat with fresh water after each outing or on a regular basis. This build-up is the result of use and environmental pollutants. Clean the boat regularly with a mild household detergent and plenty of fresh water. Avoid strong detergents, citrus based cleaners, or bleaches. These products are potentially harmful to the appearance and durability of your boat’s gel-coat. Always read the label before using any cleaning product to make sure it says safe for use on fiberglass finishes. Use a sponge on smooth surfaces and the deck. A brush can be used on the nonskid areas. Rinse away all grime and residue.

Finish/Waxing

Gel-coat can lose its gloss due to constant exposure to the natural environment and pollutants. It will require special attention to restore the original gloss and color. See a local dealer for advice on wax for your boating region. The wax film will seal the pores as well as enhance the looks of your boat. **DO NOT wax surfaces that may be walked on; they will become slippery.** While waxing your boat, inspect the surface for any damage. Have the damage corrected as soon as possible.

Gel-coat will age or dull naturally. Discolorations are shallow in depth. Factors that will affect the rate of discoloration are: the sun, pollution, old wax accumulation, and the salt content of water. Polishing compound (fine abrasive) or rubbing compound (coarse abrasive) is recommended for use on fiberglass finishes to remove scratches and stains or restore severely weathered surfaces. These products can be applied by hand or mechanical means. The process below will help restore fiberglass finishes:

- Clean the affected area with a good detergent.
- Remove stubborn stains or discoloration by gently wet sanding the affected areas with 600 grit "wet or dry" sandpaper. **ALWAYS SAND IN ONE DIRECTION.** Use plenty of water and sand curves in the same direction. Dry the area to make sure all the discoloration has been removed. Repeat this process if necessary.
- Buff using a polishing compound suitable for fiberglass, an electric buffer (1750-1800 RPM), and an 8-inch lamb's wool pad.

⚠ CAUTION
Keep buffer moving. Do not allow it to rest in one spot. Heat build up will quickly distort the surface.

- When buffing is complete, wash away compound with clear water and dry the area.
- Once the area is clean it may be waxed. This will enhance the gloss while providing a seal to retard staining or soil accumulation.

⚠ CAUTION
Compounding too often or excessive compounding can wear away the gel-coat.

Repairing

Though gel-coat is a very durable material, it is susceptible to scratches, blistering, and web-like cracking (crazing) over time. It is elastic enough to withstand strong blows while flexing with the hull's movement. Gel-coat problems are cosmetic and will not effect the structural integrity of your boat.

Some gel-coat damage and imperfections such as nicks and scratches can be repaired by obtaining a color match patch kit. This kit can be purchased through your Grady-White dealer. Acetone, the most suitable cleaning agent for gel-coat, can also be acquired through your dealer. Instructions are included in the patch kit.

⚠ WARNING

M.E.K.P. (Methyl ethyl ketone peroxide), gel-coat and acetone are flammable and hazardous chemicals that must be handled properly. Follow instructions carefully. After the gel-coat is catalyzed, it will soon heat up and put off fumes. When finished with catalyzed chemicals, or if they start to build up heat, submerse completely in water until cool.

BOTTOM PAINT

If your boat is left in the water for more than a few days at a time, the hull bottom below the waterline should be painted with anti-fouling paint to protect it from marine growth and barnacles that hinder performance. Since anti-fouling paint slowly dissolves, yearly inspection and cleaning of the hull bottom to prevent marine growth is advised. Repaint when necessary. To help prevent blistering, use an epoxy barrier coat to be applied in conjunction with the anti-fouling paint.

GRADY DRIVES

Moisture may enter the engine bracket. Any moisture entering the bracket should drain to the bottom. The drain plug should be removed periodically to drain the bracket. The Grady Drive is made of aluminum. Therefore, use the proper type of bottom paint.

CANVAS

Grady-White's canvas is made using the highest quality vinyl and latest sewing techniques. The canvas will not be completely leak proof. The seam holes in your canvas may stretch and tend to leak. However, you can correct this problem by applying *Apseal® or Uniseal™ to the seams.

Please understand that Grady-White does not warrant the fit and design of the canvas to be entirely watertight.

Maintenance

To maintain your boat's top and other canvas follow these guidelines:

Fabric should be cleaned regularly to prevent the buildup of soil and soil penetration of the fabric. Simply brush off any loose dirt, hose down canvas and clean with a mild solution and warm water. Do not use petroleum-based or ammonia cleaners on canvas or clear vinyl as they will yellow. For heavily soiled fabric, remove the top from the frame. Soak the fabric in a solution of 1/2 cup of Clorox™ and 1/4 cup of Ivory or Lux soap per gallon of warm water. Let soak until mildew and stains can be brushed out with a common kitchen brush. Rinse thoroughly with cold water until all soap is removed. Allow fabric to air dry completely. **DO**

NOT STEAM PRESS OR DRY IN AN ELECTRIC OR GAS DRYER. This will damage the canvas fabric. Water repellent was applied to your canvas during manufacturing. The repellent may have diminished after extended cleaning. Re-treatment of the fabric is recommended. Do not use wax-based products. Use a water based repellent like *Apseal® or Uniseal™. Scotchguard® is effective for short-term use only.

Snaps And Zippers

To protect the snaps and zippers on your boat's canvas and cushions from corrosion and binding, Grady White includes a snap/zipper assist tool and a tube of lubricant (E-Z Snap™) in your owner's packet. The lubricant, manufactured by IOSSO (part number 10909), should be applied per the manufacturer's directions during the initial use of your canvas and cushions. The lubricant should be reapplied every 3 months or sooner depending on your boating environment and usage. The snap/zipper assist tool included in your owner's packet should be used whenever you remove the canvas, cushions, or operate the zippers to prevent damaging or tearing the material. Contact your dealer if you need to replace your assist tool or reorder the lubricant.

Vinyl

- Clean clear vinyl thoroughly with denatured alcohol and apply a protective layer of clear wax. **Do not** use paste wax, as it will turn the vinyl yellow. This process should be repeated as necessary to maintain the protective wax coating.
- Store and secure canvas before trailering.
- Dry all canvas before storing to prevent mildew.
- Remove the top, front, and side panels. **Roll** them for storage. This is necessary to prevent the front and side vinyl pieces from cracking. **NEVER FOLD THESE PIECES!**

Storage

Consider the following steps when putting your folding top canvas option in the stored position:

- Fold the top and zip it into the canvas cover provided.
- Pivot the covered top into the stowed position on the foredeck. The canvas cover is equipped with a strap on each side and an eyelet in each strap. Place the eyelets over the male fasteners located on the port and starboard foredeck.
- Twist the male fastener 90 degrees to engage.

⚠ CAUTION
Secure the folded top when in the stowed position to prevent damage or the loss of your canvas.

UPHOLSTERY

Your exterior vinyl upholstery may be cleaned with a mild solution of household detergent and fresh water. Commercial cleaners for vinyl also work well. Since the seams of your exterior upholstery are not waterproof, your upholstery should be stored in the cabin or covered when not in use. Exterior cushions will trap moisture between themselves and the gel coat. If a cushion is not removed to allow the moisture to dry, blistering of the gel coat may occur. Cockpit bolsters may be removed if you desire. These bolsters clip onto brackets mounted to the deck structure. Screws are then installed through the underside of the bolster to hold them in place. Most cabin cushions are removable and may be dry-cleaned or steam cleaned. Some cabin cushions are of a Herculon-type fabric and may be cleaned with upholstery cleaner.

⚠ CAUTION
Do not machine wash cabin fabrics.

DURATRIM/POLYETHYLENE/PLEXIGLAS/VINYL

In the cockpit area of your boat, duratrim, plexiglass, and vinyl are used for trim and polyethylene is used for the toe rails and rod racks. Routine maintenance for duratrim and vinyl should include regular cleaning with soapy water and the application of a surface protector at least twice per year. Polyethylene can be cleaned with products such as 409 or any spray and wipe cleaner. Plexiglas, used to cover your instruments radio box and also as interior storage doors, can be maintained by use of a glass cleaner and a soft cloth.

SCUPPERS

Grady-White boats have self-bailing cockpits meaning water on the cockpit floor drains by gravity through large aft scuppers and **not** into the bilge. The aft drains (scuppers) have an external scupper flap assembly that restricts the flow of water back into the boat. Inspect the flaps periodically to make sure they are free of debris. The scupper flaps may need periodic replacement if the rubber becomes damaged or no longer seals properly in the thru-hull.

CAULKING/GASKET

Deck fittings, bow rails, window, hatches, etc. have been caulked or gasketed with the highest quality material to ensure a waterproof joint with the boat. However, the working action of normal use will tend to flex the joint and eventually break down the seal between them. Periodically inspect the caulking or gaskets for leaks. Recaulk or replace the gaskets necessary, or have your dealer do the repair.

HARDWARE/HARDTOP FRAME/STAINLESS STEEL RAILS

The hardware on your Grady-White is made of laboratory grade 316 stainless steel and needs regular cleaning to maintain its “less staining” properties. The key to maintaining your stainless steel is to keep it clean with a mild solution of soap and **FRESH** water. Remove salt or dirt from your stainless steel on a regular basis.

HARDWARE MOUNTING

Ensure all holes are sealed properly when mounting hardware in the boat surface. Sealing will prevent water leakage. This is crucial in fiberglass areas that have been reinforced with plywood. A hole sealed improperly allows water inside the fiberglass leading to saturation of the plywood reinforcement.

MAINTENANCE PROCEDURE FOR ANODIZED ALUMINUM COMPONENTS

(Lean Bars, Rod Holders, T-Top and Hardtop Frames, Outriggers, Etc.)

Due to the nature of anodized aluminum and the harsh exposure conditions of the marine environment, it is important to follow a required maintenance procedure. Failure to follow a preventative maintenance procedure will most likely result in aluminum pitting.

These parts must be washed periodically with a very mild soap and water solution. Grady White recommends washing with a mild soap (such as Ivory Liquid) after each use and every two to three weeks if stored in an outside marine environment. Strong cleaners and soaps must not be used. Never use abrasive cleaners or products that contain chlorine bleach. These products can remove the anodized coating.

Give special attention to the upper tubes of a hardtop or T-top frame. The area just below the top is shielded by the canvas or fiberglass top and does not receive the natural rinse that rainwater provides. Failure to thoroughly clean and maintain this area will allow contaminates that attack the anodized aluminum to remain on the frame.

For maximum protection, coat parts with a non-abrasive metal protector. The best protectors will displace moisture, remove contaminates, and leave a wax film protecting the anodized aluminum. Follow the application guidelines for the product you choose. A sample of one metal protector has been provided with your boat.

METAL PROTECTORS:

Boeshield T-9	Aluma Guard	Premier Polish
PMS Products Inc.	Rupp Marine, Inc.	Aquatech
76 Veterans Dr.	Unit 1104761 Anchor Ave.	6726 Netherlands Drive, Suite 200
Holland, MI 49423	Port Salerno, FL 34992	Wilmington, NC 28405
800-962-1732	561-286-5300	800-853-7760

⚠ CAUTION

Do not use abrasive cleaning products, pads, steel wool or steel brushes. These products will damage the finish.

FUEL SYSTEM MAINTENANCE

To determine whether a fuel flow problem is in your fuel system or your engine, follow this simple method. Connect a six-gallon portable tank to the engine and operate the engine. If the problem persists, the likely cause is with the engine itself. If the problem goes away, the source must be in the boats' fuel system. One component that should be inspected if a restriction occurs is the anti-siphon valve. If fuel does not flow properly through this part, it must be cleaned and/or replaced. **DO NOT** remove the anti-siphon valve and replace it with a regular barb.

Do not use fuels containing alcohol. Alcohol, particularly methanol, will absorb water. That makes fuel more corrosive to metals in tanks and carburetors. It also shortens the durability of elastomers such as hose and gaskets.

After fueling, inspect the fuel hoses, connections, and tanks for tightness, signs of leaks, and deterioration. Annually conduct a more detailed inspection of fuel system components, especially those hidden from routine inspection. Replace any fittings, deteriorated hoses, clamps or connections immediately.

FUEL TANK COMPARTMENT

The fuel tank compartments need to be rinsed periodically especially when used in a salt-water environment. Dirt accumulation attracts salt, creating salt crystals. Salt crystals can corrode most metal surfaces if left untreated over a period of time. To help protect your fuel tank from rust and corrosion, rinse the compartment with **FRESH** water. Remove the access plates from fuel tank lids and inspect this area for leaks or unsecured lines.

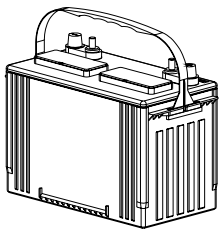
The access plates on your fuel tank lids keep the fuel compartments sealed. Over time, the opening and closing of these plates causes the o-rings to wear-out. Replace these o-rings as necessary to maintain the watertight integrity of the plates.

BATTERIES

Proper battery power is essential to the operation of your vessel. For this reason, Grady-White has carefully chosen a battery with cranking ability and reserve capacity sufficient to meet your needs. The factory installed Deka Marine Master 27M6 battery is a maintenance free battery. This battery utilizes an exclusive demineralized electrolyte and maintenance free calcium alloy grids. These features reduce water loss and extend the life of the battery. However, this battery is maintenance accessible in the unlikely event a charging malfunction occurs. If your boat is equipped with batteries not installed at the factory, consult with the battery manufacturer for proper care and maintenance instructions and the engine manufacturer for appropriate battery specifications. Grady-White recommends the Deka 27M6 product for all replacement applications. Batteries must be secured in a non-metallic tray to contain electrolyte spills. An insulated boot should cover battery terminals. Keep terminals clean by scrubbing them with a stiff brush and a mixture of baking soda and water. Afterwards, apply a light coat of grease or corrosion preventative.

Batteries contain sulfuric acid, a harmful and potentially volatile chemical. When handling batteries, exercise caution and follow these guidelines.

- Avoid contact between skin, eyes, or clothing and sulfuric acid.
- Protective gloves, eye wear, and clothing should be worn when servicing to minimize risk to yourself.
- Batteries produce explosive gases. Keep sparks, flames and cigarettes away. Ventilate when charging or using in an enclosed space.
- Keep out of reach of children



This is not a complete set of guidelines. It is your responsibility to safely maintain your batteries and avoid injury. Use good judgement and remain alert to prevent an accident. In the event of an accident or exposure to electrolyte, immediately seek prompt medical advice or attention.

⚠ WARNING

Do not allow any electrically conductive material to make contact with both the positive and negative terminals at the same time (i.e. a hand tool used when disconnecting and reconnecting battery cables). A short of this nature can cause severe burns and create dangerous sparks which could result in personal injury and/or property damage.

⚠ CAUTION

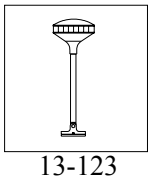
When disconnecting and reconnecting battery cables, the black cable must be connected to the negative terminal and the red cable must be connected to the positive terminal. Reversing these connections will immediately damage your system.

Never disconnect the battery when the engine is running. This can cause damage to the charging system. When replacing your battery, use the same brand and type as the factory installed battery. If this is not available, reference your engine Owner's Manual for recommended battery type and required performance specifications.

LIGHT BULB REPLACEMENT GUIDE

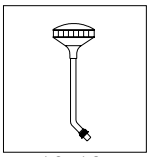
The following chart provides identification of replacement light bulbs for your Grady-White. All of the lights shown may not be used on every model boat. If you have difficulty finding replacement bulbs under the part numbers listed, contact your Grady-White dealer for further assistance. Always use the specified replacement bulb. Improper substitution my result in electrical malfunction, insufficient lighting, boat damage or personal injury.

The following are Registered Trademarks: Attwood, GE, Guest, Perko, Phillips, Scandvik, and Sylvania.



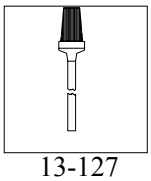
13-123

Reduced Glare Hardtop Mast Light
Light Manufacturer: Perko
Replacement Bulb #: Perko 71 DP CLR



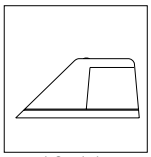
13-125

Top Mount Light (Windshield)
Light Manufacturer: Perko
Replacement Bulb #: Perko 338 DP2 CLR "Reduced Glare"



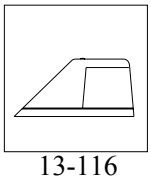
13-127

Stern Pole Light
Light Manufacturer: Perko
Replacement Bulb #: Perko 337 012 DP



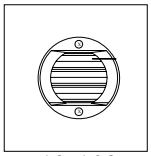
13-115

Combination Bowlight Light
Manufacturer: Attwood
Replacement Bulb #: Attwood 912717
GE 2641L



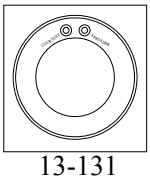
13-116

Separate Bowlight Light
Manufacturer: Attwood
Replacement Bulb #: Attwood 912717
GE 2641L



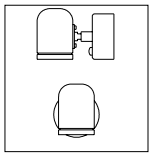
13-103

Cockpit Light
Light Manufacturer: Attwood
Replacement Bulb #: Attwood #90



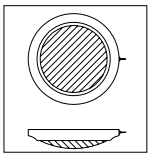
13-131

Night Vision Dome Light
Light Manufacturer: Guest
Replacement Bulb #: Guest P-13650
GE 912



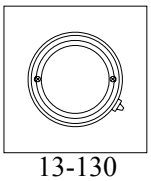
13-156

Reading Light (Cabin)
Light Manufacturer: Daniel R. Smith
Replacement Bulb#: G4 14V 10W T3 Xenon



13-117

Dome Light (large cabin)
Light Manufacturer: Daniel R. Smith
Replacement Bulb #: G4 14V 10W T3 Xenon

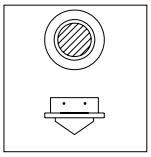


13-130

Dome Light (small cabin)
Light Manufacturer: Perko
Replacement Bulb #: Perko 337-013 DP

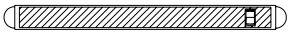
13-106

Recessed Light
Light Manufacturer: Daniel R. Smith
Replacement Bulb#: GX5.3 12V 10W 36d MR16c



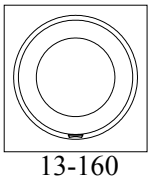
13-105

Recessed Light
Light Manufacturer: Daniel R. Smith
Replacement Bulb#: G4 14V 10W T3 Xenon



13-153

Rail Light (Galley & Head)
Light Manufacturer: Scandvik
Replacement Bulb #: THHC Lighting XELOGEN G4F1210XH



13-160

Night Vision Dome Light (360 only)
Light Manufacturer: Daniel R. Smith
Replacement Bulb #: 12V 10W Halogen Bulb

ACCESSORY WIRING COLOR CODE – FUSE/BREAKER SIZE

Accessory	Wire Size & Color	Amperage	Fuse/Breaker Location
Lights			
Aft Pole Light	14 ga. Gray/White	10.0 w/ bow light	Accessory Panel
Bow Light	14 ga. Gray	10.0	Accessory Panel
Cabin Lights	16 ga. Blue/Green	10.0	Fuse Block
Cockpit Lights	16 ga. Blue/Yellow	10.0	Accessory Panel
Console Lights (Interior)	16 ga. Blue/Green	5.0	Fuse Block
Livewell Light	16 ga. Blue/Red	w/ Livewell Pump	Accessory Panel
Mast Light	14 ga. Gray/Red	w/ Bow Light	Accessory Panel
Panel Lights	16 ga Dark Blue	w/ Nav Lights	Accessory Panel
Spreader Lights	14 ga Dark Blue/ White	10.0	Hardtop or T-top Fuse Block
Pumps			
Bilge Pump (Aft excluding 226 & 228):			
Rule 1500	16 ga. Brown	8.0	Accessory Panel
Auto Float Switch (Aft)	16 ga. Brown/White	7.5 or 8.0	Near Battery or in Battery Select Box
Bilge Pump (Forward) (226 & 228 Aft also):			
Rule 1100	16 ga. Brown/Black	6.0	Accessory Panel
Auto Float Switch (Forward)	16 ga. Brown/Red	5.0 or 6.0	Near Battery or in Battery Select Box
Rulemate 1100 (Integrated Float) - 257 & 283	16 ga. Brown/Black & Brown/Red	6.0	Battery Select Box & Accessory Panel
Head - Head Pump (Marine Electric)	10 ga. Red/Gray or Red	25.0	Fuse Block
Head - Control Panel, Holding Tank, & Macerator (Marine)	10 ga. Orange/Red	20.0	Fuse Block
In-line Macerator Pump	10 ga. Orange/Gray	20.0	Accessory Panel
Livewell Pump			
Sentry 1100 GPH	16 ga. Orange/Brown	6.0	Accessory Panel
Sentry 800 GPH	16 ga. Orange/Brown	5.0	Accessory Panel
Shower Sump Pump (Float Switch)	16 ga. Brown/Orange	3.0	Fuse Block
Washdown Pump	12 ga. Orange/Brown	15.0	Accessory Panel
Water Pressure Pump	12 ga. Orange/Blue	15.0	Accessory Panel

Miscellaneous			
12 Volt Accessory Outlets	**10 ga. Red/Orange**	**15.0**	**Fuse Block**
Accessory Negatives (Branch)	**1 Black**	**N/A**	**N/A**
Accessory Negatives (Mains)	**4, 6, or 10 ga. Black**	**N/A**	**N/A**
Accessory Panel Power Lead	**4, 6, or 10 ga. Red**	**40.0 / 50.0**	**Near Battery or in Battery Select Box**
Anchor Windlass (232 & up)	**6 ga. Red**	**35.0**	**At helm near switch (all but 306); in console rigging area (306)**
Positive to Switches (306 only)	**14 ga. Red**	**5.0**	**In-line @ Solenoid**
Down (306 only)	**14 ga. Green/Orange**	**N/A**	**N/A**
Up (306 only)	**14 ga. Blue/Orange**	**N/A**	**N/A**
Constant 12V	**16 ga. Red/Pink**	**10.0**	**Near Battery or in Battery Select Box**
Electronics Box Ram (273,283,306)	**16 ga. White**	**5.0**	**Accessory Panel**
Fuel Grounds	**16 ga. Green**	**N/A**	**N/A**
Fuel Tank Sender (Auxiliary)	**16 ga. Pink/White**	**N/A**	**N/A**
Fuel Tank Sender (Main)	**16 ga. Pink**	**N/A**	**N/A**
H-top or T-top Negative (Main)	**10 ga. Black/Blue**	**N/A**	**Negative Buss**
H-top or T-top Power Lead (Main)	**10 ga. Red/Blue**	**N/A**	**Fuse Block / Hot Block**
Horn (180, 185, 208, 209, 222, 257, 273, 283, 306)	**12 ga. Orange/White**	**5.0**	**Accessory Panel**
Horn (225, 226, 228, 232, 258, 282)	**12 ga. Orange/White**	**10.0**	**Accessory Panel**
Hydraulic Trim Tabs	**14 ga. Orange**	**20.0**	**Fuse Block**
Refrigerator	**10 ga. Orange/Yellow**	**15.0**	**Fuse Block**
Seakey Float (282, 283, & 306 only)	**16 ga. White/Red**	**N/A**	**N/A**
Stereo	**16 ga. Red**	**10.0**	**Fuse Block**
VHF (HT Radio Box) Power Lead	**10 ga. Red/White**	**10.0**	**In-line Near Battery**
VHF Negative	**10 ga. Black/White**	**N/A**	**N/A**
Windshield Wiper (Actuator)			
Port	**16 ga. Orange/Green**	**Dual = 10.0**	**Accessory Panel**
Starboard	**16 ga. Orange/Black**	**Single = 5.0**	**Accessory Panel**
Windshield Wiper (Position)	**16 ga. Orange**	**w/ motor**	**Accessory Panel**
1 Wire gauge is the same as the gauge of the power wire to the corresponding component.			

Chapter 7: Winterization and Storage

GENERAL

Boats stored during the winter or for an extended period of time require some routine maintenance. The boat and its systems should be checked for maintenance and repairs prior to and during the storage process. Arrange repairs during the storage period.

Avoid costly damage and delay when launching your boat by having it stored and winterized properly. This information is presented as a general guide; the actual storage should be performed by a professional and qualified dealership. See page 61, in *Sportfish, Cruisers, Yachts Owner's Manual* for a checklist on winterizing and storage.

BOAT STORAGE

To avoid personal injury and property damage, it is advised to take extra precautions when lifting or moving the boat for storage. Grady-White Boats are equipped with stern lifting eyes and a bow towing eye. These eyes are provided for moving and temporary lifting. For permanent lifting, you will need to have or add a bow lifting ring option. Eyes should be inspected regularly to insure structural integrity.

⚠ WARNING

The boat should not be stored by using the pad eyes, unless the boat is equipped with a bow lifting ring. Pad eyes should be inspected periodically if used for lifting.

While transporting a boat by a lift or fork lift, the structure should remain as close to ground level as possible. If slings are necessary for lifting or transporting, they should be in proper condition and tied together to prevent any movement (separating or slipping) which could cause damage to the boat. If fork lifts are used to move the boat, the forks should be padded, contoured to match the hull bottom, and in a secure location under the hull in alignment with the stringers. The forks should be long enough to prevent the boat from rocking forward and aft causing it to become unbalanced. Always verify the fork lift's capacity to ensure it is sufficient for the weight of the boat. Other conditions that should be considered before hauling, transporting, or storing your boat include overhead lines, ground conditions (frozen or soft), and storm conditions that may arise.

When storing your boat on the trailer, raise and block the trailer axle to prevent tire deterioration. This is an excellent time to lubricate and pack the wheel bearings per the manufacturer's instructions.

Make sure the keel, chines and transom are fully supported. Indoor storage is beneficial particularly if your climate produces freezing weather. The storage unit should not be airtight, but should be ventilated. Ventilation is extremely important both around and through the boat.

For outdoor storage, a canvas cover should be used to prevent "sweating". One method is to build a frame over the boat to support the canvas. It should be a few inches wider than the boat so the canvas will clear the rails and allow passage of air. The cover should be fastened securely so that winds cannot remove it or cause it to chafe the boat. A poor covering job will eventually cost more than the price of a well-made cover.

⚠ WARNING

Boats covered with plastic shrink wrap during storage must leave the fuel fill and vent fitting outside of the enclosure to prevent the trapping of dangerous fumes or spillage from thermal expansion.

CLEANING AND LUBRICATING THE BOAT

Clean and wax your boat before storage. If you store your boat in the water, there may be a layer of growth on the bottom. As it dries, this debris will harden. Clean, scrub and scrape the bottom promptly when the boat is removed from the water. Remove all marine growth and other foreign matter from the hull. Clean the inside of hull openings, thru-hull fittings and scupper drains. Inspect the hull for damage. Remember to avoid harsh cleaners, citrus solutions and bleaches; these could have harmful effects on your boat's gel-coat and metal components.

Check cleats and rails for corrosion and tightness. Clean stainless steel as directed under *"Hardware/Hardtop Frame/Stainless Steel Rails" on page 6–5*. Use a quality metal preservative like T-9™ on metal surfaces to prevent salt-water damage. Check for loose silicone, hinges and unseated gaskets. Replace or tighten where necessary. Heavy seas pounding and twisting the hull can cause leaks in your windows, doors and hatches. Check hinges for corrosion. Lubricate hinges as necessary.

The T-9™ metal protection product was developed by Boeing™ Aviation for long-term protection of aircraft. It works by coating and penetrating fasteners and fixtures, displacing moisture and drying to a clear wax film that lubricates and protects metals for months. T-9 can be used to protect deck hardware, engines, electronics, and fishing tackle.

DRAINING & WATER SYSTEM

If the boat is stored out of water, remove the garboard drain plug to keep the bilge dry. Store your boat with the bow elevated for drainage.

Drain all water tanks, lines, and pumps to prevent freeze damage. The fresh water system may be drained by running any faucet until the tank is empty. When empty turn the water pump off to prevent damage. Residual water will not damage the tank. If desired, the fresh water system may have a non-toxic antifreeze for potable water systems added. To drain other lines, close seacocks and run the pumps until the lines are dry. Open the seacocks after lines are dry. Draining will help prevent water stagnation in warmer climates.

HEAD SYSTEM

Empty toilet and holding tank making sure all water is cleared. Reference Owner's Packet for manufacturer's information on winterization. Water should be removed from deck pump-out lines.

Drain portable heads. Remember to drain the upper and lower tanks. Water should be removed from deck pump-out lines.

BATTERIES

Fully charge the battery before storing. A weak battery loses its charge more rapidly than a strong battery. After charging is complete and the battery has cooled, check the electrolyte level in your battery. Ideally, you should disconnect the battery and cover the terminals with grease to prevent corrosion.

ENGINES

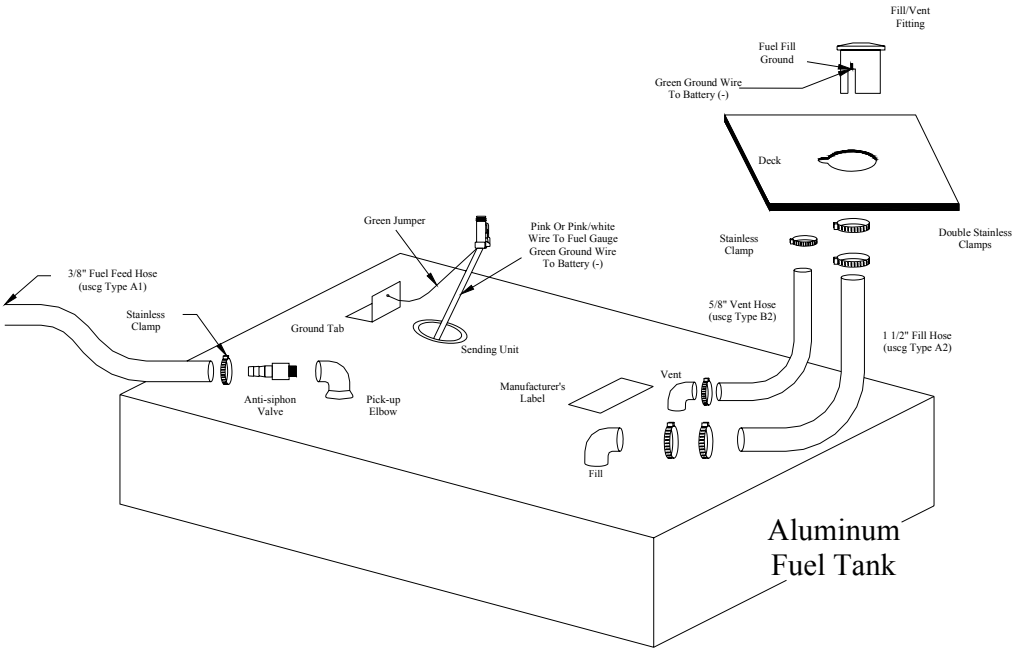
See your engine Operator's Manual regarding the winterizing procedures. Follow instructions carefully, and your engine may survive any severe weather conditions. Change all filters. Check hoses and clamps. If you have developed any vibrations during the season, look for loose engine bolts, bent shafts or bent propellers.

FUEL SYSTEM

The compartments that house the fuel tank(s) should be rinsed with fresh water to keep salt crystals from forming and corroding the fuel tank(s). After rinsing, make sure all water is drained from the compartments.

Do not use fuel that contains alcohol as it will absorb humidity. The resulting condensation will separate from the fuel as winter temperatures drop. An accumulation of this condensation can lead to corrosion. There are fuel additives available to inhibit condensation. Keep tanks full but do not overfill.

This is also a good time to have your fuel filters/water separators replaced.



STORAGE CHECKLIST

In addition to winterization guidelines the following checklist can be used as a guide for storing your boat. Additional details should be added as needed for your personal application.

- Remove all loose items and personal effects.

- Remove any detachable and valuable equipment such as electronics. Store all electronics inside. Your compass, if built in, should be covered for the winter. Ultraviolet rays from the sun will cloud the compass and make it difficult to read.
- Winterize all equipment as directed in the manufacturer's manuals.
- Store cushions indoors to prevent mildew.
- Clean the exterior and interior of the boat. Remove all grease, oil, salt spray, etc.
- Remove garbage. Clean storage areas, fish boxes, and livewells. Prop fishbox lids open.
- Lubricate hinges, valves, the backs of electrical panels, and other surfaces that will rust.
- Check underwater items. Hardware should be in good condition and tight.
- Inspect electrical systems and have any repairs performed.

GETTING BOAT OUT AFTER STORAGE

Before placing your boat in the water for the boating season, have the hull bottom sanded and reapply anti-fouling bottom paint if necessary. Leave as much equipment and personal effects as possible off the boat until after launch and final check.

PRIOR TO LAUNCHING

Start your own personalized list of items to check and perform prior to placing your boat in the water. The following list will give you some ideas and suggestions:

- Check all gear and replace if necessary.
- Check thru hull fittings for cleanliness, damage, and tightness.
- Check prop installation and tightness.
- Clean battery terminal posts with a wire brush or bronze wool. Install batteries, attach cables, and tighten. Apply grease to post to exclude air and acid.
- Check all wire connections for contact corrosion and tightness.
- Check hull valves for easy operation and for condition of hose.
- Check operation of bilge pumps in manual and automatic modes.
- Check operation of all DC circuits.
- Check the hose and lines on the fresh water system; install drain plug and close drain valves.
- Perform maintenance on engines according to the manufacturer's manuals prior to returning them to service.
- Check all engine and steering control cables and linkage for operation. Lubricate cables and linkage as necessary.

AFTER LAUNCHING

- With the boat in the water, check all sources of possible leaks stem to stern.
- Fill fuel system; thoroughly check the fuel system including lines, fittings, connections, valves, and filters for leaks.
- Fill fresh water system and check for leaks.
- Check operation of toilet (reference manufacturer's manual).

- Check safety equipment including flares, fire extinguisher and first aid kits. Replace items as necessary.
- Test run engines as directed in manufacturer's manual.

Chapter 8: 232 Gulfstream

Specifications

Beam-amidship	9’ 3”
Bridge Clearance	6’5”
Bridge Clearance W/ Hard Top	8’8”
Keel To Top Of Windshield Bar	8’ ¼”
Centerline Length	23’ 5”
Fresh Water Capacity	10 Gallons
Fuel Capacity	150 Gallons
Hull Draft	17”
Engine Shaft Length	25”
Transom Width	8’ 10”
Dry Weight	Single - 4538 Lbs
	Dual – 4605 Lbs
Steering Type	Hydraulic Tilt
Steering Hose Length	24’
Control Cable Length	Single – 22’
	Dual – Port – 22’
	Dual – Stbd – 24’
Maximum Capacities	
Persons	16 (or 1380 Lbs.)
Weight	2800 Lbs.
Maximum. HP	400 HP

Optional Features

ACCESSORIES

- Anchor windlass (must have bow pulpit)
- Bow lifting ring
- Bow pulpit
- Cockpit bolsters
- Cushions - auxiliary berth cushions
- Electronics flush mount kit
- Hardtop w/radio box, storage net, spreader lights & side mounted rod holders (4)
- Hardtop top mounted rod holders
- Head - marine head w/electric flush & 10-gallon holding tank
- Head - marine head w/macerator, 10-gallon holding tank & pump out
- Head - portable
- Head - portable w/deck pump out
- Head - portable w/in-line macerator
- Outrigger kit - 15-ft. radial hardtop mounted (w/hardtop option only)
- Rod storage - folding cabin rack (6)
- Seating - deluxe helm chair II
- Seating - foredeck cushions
- Sirius satellite radio system
- Stereo/CD system w/MP3/auxiliary audio connections - satellite ready
- Swim platform w/ladder (full width)
- Swim platform w/ladder (small port side)
- Windshield washer - freshwater (starboard)

CANVAS

- Hardtop drop curtain
- Hardtop front & side curtains

Operation Of Standard Features

SWITCH PANEL

At the helm you will find an accessory switch panel. Refer to the *"Accessory Wiring Color Code – Fuse/Breaker Size" on page 6–10* for overcurrent protection amperage ratings for each circuit. Consult your dealer for specific information or questions on the accessories included on you boat.

- **Aft and Forward Bilge Pumps**
  These two-way switches serve as manual switches for each bilge pump. These switches operate independently of each other. Two circuit breakers located above each switch provide over-current protection at the panel for each bilge pump circuit.
- **Cockpit Lights**
  The cockpit lights provide illumination in the cockpit. A circuit breaker located above this switch provides over-current protection for this circuit.
- **Horn**
  This momentary switch activates a horn which meets the requirements of the USCG for sounding devices. A circuit breaker located above this switch provides over-current protection for this circuit.
- **Livewell**
  This switch activates the livewell pump and light. A circuit breaker located above this switch provides over-current protection for this circuit.
- **Navigational/Anchor Lights**
  This three-position switch (NAV-OFF-ANC) changes the lighting configurations to running or anchor lights. A circuit breaker located above this switch provides over-current protection for this circuit.
- **Trim/Tilt**
  The trim/tilt switch is located on the throttle control. Trim changes the angle of thrust of the engine(s) (reference *"Trim" on page 4–1*). Tilt raises the drive unit for trailering.
- **Trim Tab**
  These switches control the hydraulic trim tabs used for adjusting the attitude of the boat. See *"Trim Tabs" on page 8–8* for more details.
- **Washdown**
  This switch activates the washdown system. A circuit breaker located above this switch provides over-current protection for this circuit.
- **Water Pressure**
  This switch activates the pressurized fresh water system. A circuit breaker located above this switch provides over-current protection for this circuit.
- **Windshield Wiper**
  This switch powers the windshield wipers. A circuit breaker located above this switch provides over-current protection for this circuit.

- **Accessory**
  Switches and breakers labeled "ACC" are blank. They may be used for non-factory installed accessories. See *"Accessory Wiring Color Code – Fuse/Breaker Size" on page 6–10* for recommended breaker amperages. Switch labels are available from you dealer for non-factory installed options.

NOTICE
Use anti-corrosion spray on the back of panels and on exposed wires to prevent the rust of corrosion that could lead to an electrical system failure.

AUXILIARY FUSE PANEL

The auxiliary fuse panel located under the dash provides a source of power for electronics in addition to the accessory switches located in the dash. Your model utilizes the automotive type fuse.

MAIN CIRCUIT BREAKER

There is a 50 amp circuit breaker located in the panel beneath the battery select switches. This is the main breaker protecting the wiring supplying power to the accessory switch panel. This breaker may be manually tripped by moving the arm to the off position. If this breaker is tripped, moving the arm back to the on position will reset it.

ACCESSORY OUTLET - 12 VOLT

A 12-volt outlet is installed in both the port and starboard deckwing inserts on the vertical surface in front of cupholders. These outlets provide easily accessible power supplies for accessories such as cellular phones and spotlights.

NOTICE
These outlets cannot be used with a cigarette lighter.

COMPASS

The compass is located at the helm station in direct view of the operator when navigating the boat. Following the instructions in the compass manual included in the "Owners Packet" will help you make compensation adjustments.

BATTERY SELECT SWITCH

Boats that are equipped with two batteries use a select switch to indicate which battery will be used. The switch is labeled "1", "2", "Both," and "Off". In normal use, alternate between the battery "1" and battery "2" positions. The battery that is selected will provide power to the engine and accessories. In an emergency situation when neither battery will start the engine, the select switch allows you to combine the power of both batteries by selecting "Both." However, once the engine(s) is started, you should return the switch to the "1" or "2" position. See *"Battery Wiring with Select Switch – Single" on page 8–24* for a diagram.

On twin engine boats with two select switches, a switch should be connected to each engine. Either battery may start either engine by selecting position "1" or position "2" on the switches. In normal use, select position "1" on one switch and position "2" on the other so that both batteries will be charged simultaneously. The DC accessories on the boat will always be controlled by the starboard switch. See *"Battery Wiring with Select Switches – Dual" on page 8–25* for a diagram.

⚠ CAUTION
Never turn the battery select switch to the "OFF" position with the engine running or the charging system could be damaged.

SEACOCKS

Ball valve seacocks are installed on the inlet thru hulls for the livewell and washdown systems, and on the inlet and discharge thru hulls for the head system. It is necessary for the seacocks to be in the open position to operate the systems. The open position is identified by the orientation of the handle. If the handle is in line or parallel to the body of the valve, the seacock is in the open position. If the handle is perpendicular to the body of the valve, the seacock is in the closed position. Remote arms are installed on the seacocks for the livewell and washdown systems. The open position can be obtained by pulling up on the remote arm attached to the seacock handles. Pushing down on the remote arm closes the seacock.

NOTICE
All seacocks should be in the closed position if not in use or if the boat is unattended to prevent the taking on of water if a plumbing component fails.

LIVEWELL - RAW WATER

To operate the livewell, open the seacock located in the port aft bilge using the remote seacock arm labeled livewell. The livewell pump is screwed directly into this seacock. The livewell switch at the helm should be in the on position. Place the livewell standpipe in the drain located at the bottom of the livewell. Screw it down until the black flange makes contact with the flange on the drain fitting. Water will enter through a plenum along the side of the livewell and be distributed through a series of holes arranged vertically along the plenum. The water will rise to a depth even with the strainer on the standpipe and drain overboard. To evacuate debris and bait waste from the bottom of the box while the livewell is in operation, unscrew the standpipe approximately three turns to expose two 3/8” holes located in the threads of the standpipe base. This will allow a small amount of water to escape through these holes and remove any waste that has settled in the bottom of the livewell. See *“Livewell Layout” on page 8–19* for a layout diagram.

NOTICE
If the livewell seacock is left open and the pump is not on, the boats forward motion through the water will gradually fill the box. To prevent this inadvertent filling, close the seacock when the livewell is not in use.
Under certain conditions, placing the outboard engine(s) in reverse will ventilate the water under the boat and create an air lock in the livewell pump. To prevent this situation from occurring, it is recommended the livewell be turned off prior to any high RPM or continuous reverse operation. If the livewell pump becomes air-locked, correct this situation by turning the pump off for 20 seconds.

WASHDOWN OPERATION

To operate the washdown, open the seacock located on starboard side of the aft bilge using the remote seacock arm labeled washdown. Depress the washdown switch on the accessory switch panel. This system will now be pressurized at the washdown faucet outlet. This faucet may be used alone or with a hose. A hose with a spray nozzle attached may be used intermittently without turning the switch off in the same fashion as a home yard hose with a nozzle. The washdown pump has an internal pressurization switch that will maintain water pressure as needed until the switch is turned off at the switch panel. The pump is mounted to the transom in the aft starboard rigging area. See *"Livewell/Washdown System" on page 8–20* for a system diagram.

BILGE PUMP/FLOAT SWITCH

Your boat is equipped with automatic float switches adjacent to the bilge pumps. A float switch will enable the bilge pump to come on automatically if a significant amount of water accumulates in the bilge. These switches are wired directly to the batteries. They function independently of the battery select switch(es), and can activate the bilge pump with the battery select switch(es) in the "off" position. Batteries should be inspected frequently to ensure proper operation. The bilge pumps are also equipped with switches at the helm. When the switch is in the "on" position, the pump will run continuously. When a switch is in the "off" position, the pump is off unless activated by the float switch.

⚠ CAUTION
To prevent damage to the bilge pump, do not run it dry for a prolonged period of time.

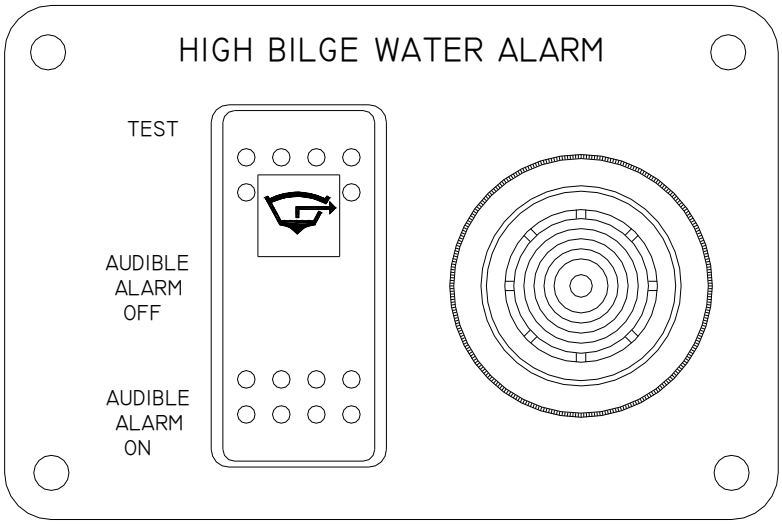
BILGE PUMP LOCATION

The 232 had two bilge pumps. The first one is located in the aft rigging area just forward of the transom. It may be accessed by opening the rigging door behind the folding aft seat. The second is in the cabin under the floor access plate.

HIGH BILGE WATER ALARM

Your boat is equipped with a high bilge water alarm. Although some residual accumulation of water in the bilge is normal, this alarm will alert you if water reaches a high level that could impair operation of the boat or be damaging to equipment. It is activated by a float switch located in the forward rigging compartment bilge. This float switch is separate from the bilge pump system and only activates the high bilge water alarm. The alarm panel (pictured below) provides both audible and visual alert signals. This panel is located inside the cabin on the aft bulkhead. When activated, the red light on the switch will be on and a high pitched tone similar to that of an in home smoke detector will sound. This is the recommended position to leave this switch. With the audible alarm off, the red light will be the only indication of a high water situation.

Should the high bilge water alarm activate, immediately investigate to determine the source of water entry. Also, confirm your bilge pumps are working properly. If the situation cannot be quickly resolved, contact your dealer and remove the boat from the water.



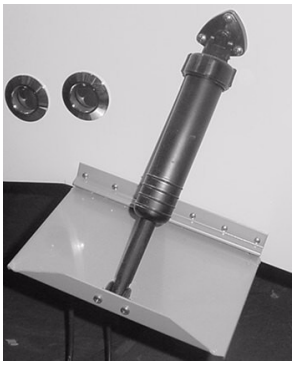
COCKPIT SHOWER

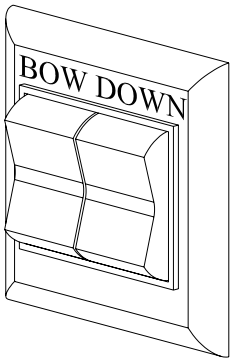
To operate the cockpit shower, the water pressure switch located on the accessory panel must be in the “on” position. Open the flap and pull the shower wand from the recessed deck fitting. Depress the button on the back of the wand to spray water. To reinstall the shower wand, gently feed the hose down through the deck and replace the flap on the fitting. The water pressure pump is located beneath the port helm seat behind the two drawer unit.

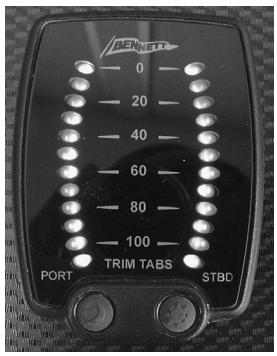
TRIM TABS

Trim tabs are electrically and hydraulically operated. The trim tab system consist of a hydraulic pump, a two-rocker switch panel, a trim tab position indicator panel, and an auto-retract device. The rocker switch controls the pump which lowers and raises the trim tabs. The indicator panel keeps you constantly aware of the trim tab's position. The auto-retract device causes the pump to raise the tabs every time the ignition switch is turned off

Trim tabs are used to regulate the attitude of the boat while moving. They are operated by a two-rocker switch panel and will aid in trimming the boat fore and aft for a smoother ride. Trim tabs can improve the ride of your boat by adjusting where the water is hitting the keel line. In a slight chop, the waves may be hitting the keel of your boat around the helm area causing an uncomfortable ride. By adjusting the trim tabs and lowering the bow, the waves will hit the keel at a more forward point and soften the ride. Experimenting with trim tabs in various sea conditions will help you determine the best positions for your boat under different load conditions.







Trim tabs are also useful in correcting a port or starboard running list. If the boat is listing to the port side, press the starboard trim tab switch toward "bow down". Press the port trim tab switch toward "bow down" to correct a starboard list. This will tend to lower the bow by pulling the higher side to a level position. If your bow is already in a low position, you may correct a listing condition by pressing the trim tab switch toward "bow up". This will cause the low side to rise and level the boat. The running angle will also gradually improve.

The switches are marked "bow down" only. Trim tabs in the extreme "bow up" positions will have no effect on the boat's ride. Trim tabs in the extreme "bow down" position will cause the boat to come on plane with minimum bow rise. Unless you are operating at low speeds or with considerable cockpit weight you will likely want to raise the tabs slightly when underway to avoid "plowing" water. With the tabs in the "bow down" position, you will be able to maintain a plane at the least possible RPMs.

NOTICE
Most drive units are equipped with an adjustable rudder trim tab. This trim tab should be adjusted to balance the steering at the speed which you travel most frequently. Variations in speed, boat load, or changes in the drive unit trim will cause the steering to pull in one direction. If the boat pulls to the left, adjust the trim tab to the left and vice versa.

Trim Tab Pump Location

The trim tab pump is located in the starboard aft rigging area. The hydraulic fluid should be checked on a seasonal basis.

Operation Of Optional Features

HARD TOP

If your boat is equipped with a hard top, do not use the top for storing heavy or large items such as a raft. The frame for the top is designed for continual use with antennas, radar, and outriggers. The additional weight caused by larger items such as a raft may cause damage to the frame structure.

OUTRIGGERS

Outriggers allow you to spread the lines trolled from your boat and decrease the chance of entanglement.

- **Advantages**

  Advantages of outriggers include: offering bait throughout a larger area behind the boat, placing bait out of the wake zone, automatic drop back following strikes (which allows for fish to completely accept bait), and a reduction in unnecessary twisting action characteristic of artificial bait.

- **Instructions**

  For proper installation and use, reference the instruction sheet included in your boating package.

- **Care And Maintenance**

  Outriggers should be washed with fresh water, mild soap, and a soft cloth. Never use acidic or abrasive cleaners to clean your outriggers.

  A periodic waxing of your outriggers is suggested if your boat is frequently exposed to salt water. The wax will provide a protective coating and seal the pores of the metal. A non-abrasive high quality marine or automotive wax is recommended. Before storage, clean and wax the outriggers.

  Grease all threads, bolts, and tubes where one section is inserted into another during assembly. Once a year, disassemble and regrease all applicable surfaces.

  A periodic check for stretched or worn spreader wires on the outrigger poles is advised. If wires are stretched, they should be re-tensioned to provide even support.

STEREO

The stereo is a marine Sirius ready AM/FM receiver with CD player. It is located inside the cabin with speakers in the forward cabin area and the cockpit. The unit can be remotely operated with the touch pad mounted at the helm station. An auxiliary audio input panel is also part of the stereo system. This panel may be used to listen to any external audio device (such as an mp3 player) using either standard RCA cables or an 1/8" phono cable. Refer to the stereo's Operation and Maintenance manual in your Owner's Packet for specific instructions on using this unit. See *"Stereo System Layout" on page 8–18* for a stereo layout diagram.

SIRIUS SATELLITE RADIO

The Sirius satellite radio includes the Sirius satellite tuner and antenna which provides access to many channels of digital entertainment. The antenna is installed on the forward bow area away from any structure that may cause signal interference. The tuner is installed inside the wire cover box behind the stereo. The tuner is controlled by the Sirius ready stereo installed on your boat.

You may activate your subscription to Sirius online at siriusradio.com or by calling toll-free 1-888-539-SIRIUS. If you choose to call, a Sirius operator will walk you through the initial setup process. You will need the ESN number for your tuner, a major credit card, your boat in a location where the antenna is not blocked from receiving signal, and the Sirius tuner tuned to channel 184. You will find the ESN number attached to the warranty card for the tuner included in the owner's packet. You may also obtain this number using your Sirius ready stereo by following a few simple steps:

1). Press the TU/SR button repeatedly until "SIRIUS" appears.
2). Hold the MENU button until "MENU" appears.
3). Use the AM/FM buttons to scroll through the option until "ESN XXXXXXXXXXXX" appears.
4). Write the number down and press MENU to exit.

For more information, refer to the tuner's owner's manual and quick start guide included in your owner's packet.

WINDSHIELD WASHER SWITCH

A valve located in the forward wall of the deckwing controls your windshield washer. Water may be sprayed on the windshield by opening this valve with the fresh water system pressurized (the water pressure switch on the accessory panel must be in the on position). This water comes from your fresh water tank.

HEAD OPERATION INSTRUCTIONS

Portable Head Operation

1. The upper fresh water reservoir must be filled with water prior to use.
2. Compress the bellows pump located on the left corner of the toilet a few times to add water to the bowl.
3. **Flush** the toilet by pulling the slide valve handle out (located on the front of the toilet).
4. Compress the bellows pump until the bowl is rinsed.
5. Close the slide valve handle by pushing it in fully.

Portable Head With Deck Pump-out

For flushing instructions, follow the steps outlined under *"Portable Head Operation"*. To empty the portable head reservoir by use of a deck pump-out follow the instructions below.

1. Remove the cap from the deck pump-out fitting located in the port walkaround.
2. Connect a vacuum hose from a pump-out station to the deck fitting and run until the reservoir is empty. Replace the cap on the deck pump-out fitting.

Portable Head With In-line Macerator

For flushing instructions, follow the steps outlined under *"Portable Head Operation"*. There are two ways to empty the portable head reservoir with this type of set-up. The waste may be vacuumed out through the deck fitting or discharged through a seacock in the hull bottom. The macerator pump is located beneath the port helm seat behind the two drawer unit.

- **To vacuum through deck fitting follow the instructions below.**

1. Locate the Y-valve mounted under the lower cabin step. Place the Y-valve handle in the deck pump-out position (handle pointed up).
2. Follow the steps outlined under *"Portable Head With Deck Pump-out"*.

- **To discharge through the macerator and seacock follow these instructions.**

1. Locate the Y-valve mounted under the lower cabin step. Place the Y-valve handle in the overboard discharge position (handle pointed down).
2. Open the head discharge seacock (handle in the vertical position). This seacock is located under the lower cabin step.
3. Turn "ON" the head pump switch at the helm and discharge until the reservoir is empty. Close the discharge seacock (handle in the horizontal position).

NOTICE
Overboard discharge seacock must be sealed and secured in the closed position in accordance with the laws in your boating area.

See *"Portable Head Layout" on page 8–21* for layout diagram.

Marine Head (W/ Hand Pump) Operation

1). Open the marine head inlet seacock. This seacock is in the forward bilge and is control by the remote seacock arm labeled “Head Inlet.” It can be accessed through the access door on the aft wall inside the cabin.

2). Position the wet/dry bowl selector in the wet bowl setting. Fill the toilet with water by pumping the handle several times.

3). **Flush** the toilet by pumping the handle several more times in the wet bowl position. The contents of the bowl are discharged into the holding tank.

4). Move the bowl selector to the dry bowl position and pump the handle until almost all of the water is removed. Leave the toilet in the dry bowl position when not in use.

Electric Marine Head Operation

1). Open the marine head inlet seacock. This seacock is in the forward bilge and is control by the remote seacock arm labeled “Head Inlet.” It can be accessed through the access door on the aft wall inside the cabin.

2). **Flush** the toilet by turning the flush control knob clockwise on the pump beside the bowl. Turn the flush control knob counter clockwise to remove most of the water from the bowl. The contents of the bowl are discharged into the holding tank.

Emptying Marine Head Holding Tank By Overboard Discharge

1). Open the marine head discharge seacock. This seacock is in the forward bilge and is control by the remote seacock arm labeled “Head Disc.” It can be accessed through the access door on the aft wall inside the cabin.

2). Press the level/sleep button on the tank level monitor.

3). Press and hold the empty button for 3 seconds to activate the pump. The pump will run until the tank is empty.

4). Close the discharge seacock.

NOTICE
Overboard discharge seacock must be secured in the closed position in accordance with the laws in your boating area.

Emptying Marine Head Holding Tank Through Deck Pump-out

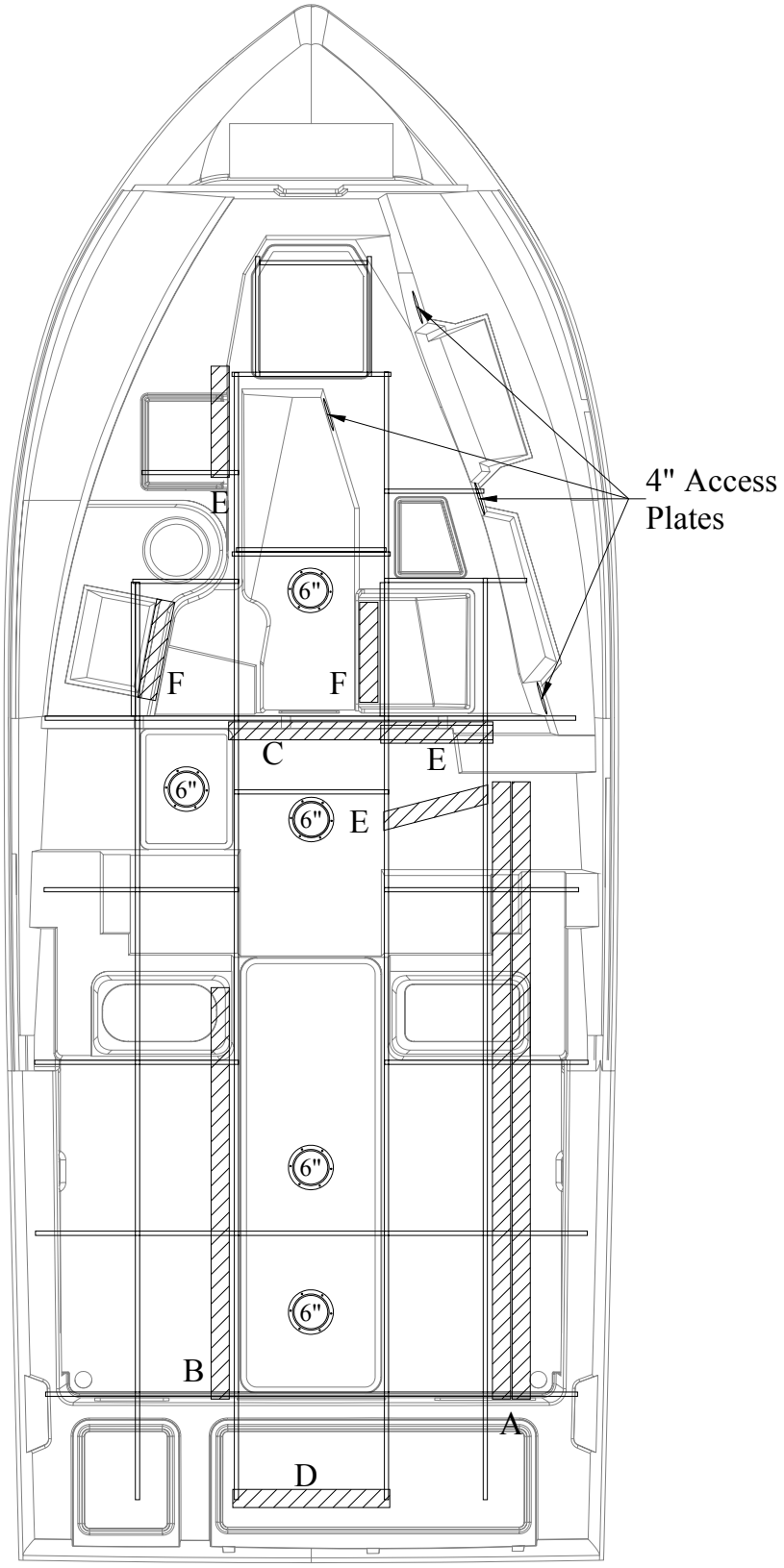
1). Remove the cap from the deck pump-out fitting located in the port walk around.

2). Connect a vacuum hose from a pump-out station to the deck fitting and run until the tank is empty. Replace the cap on the deck pump-out fitting.

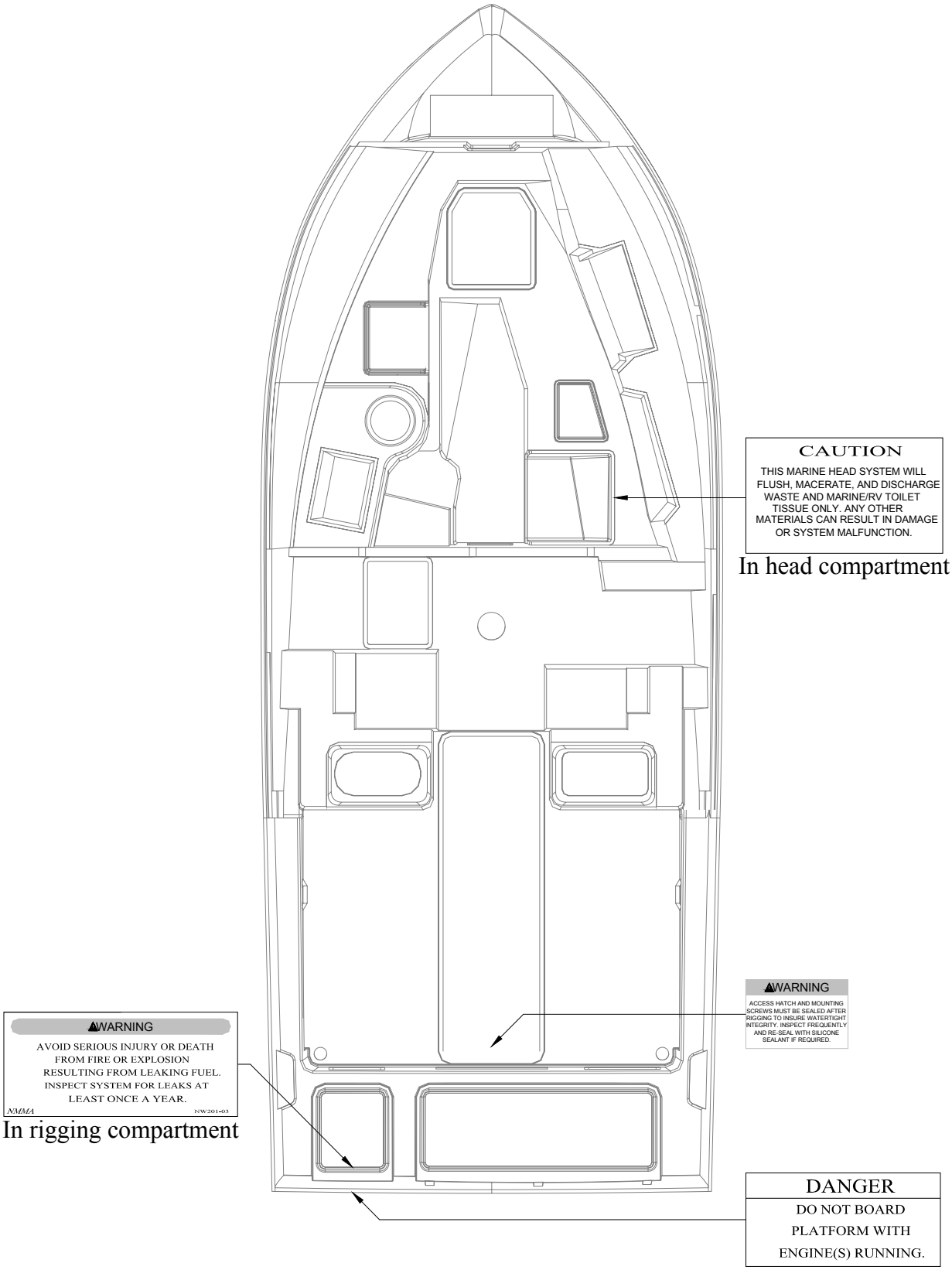
See *“Marine Head Layout” on page 8–22* for a layout diagram.

Access Plate And Rigging Tube Locations

#	Description
A	3" x 111"
B	3" x 74"
C	3" x 47"
D	3" x 28"
E	3" x 20"
F	3" x 18"

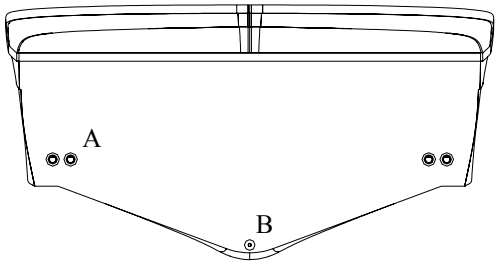


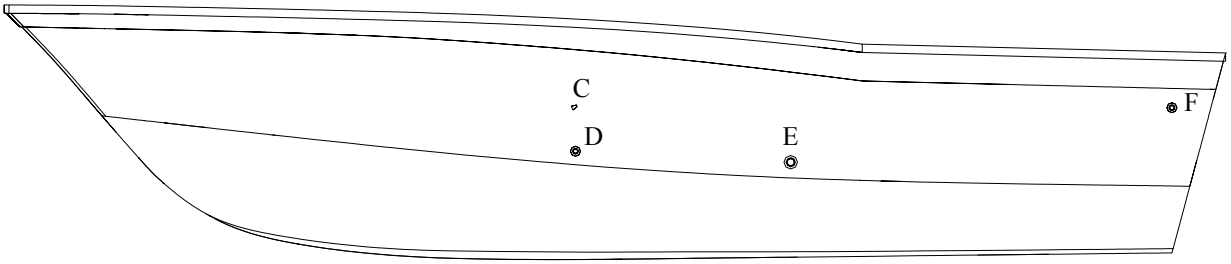
Safety Labels And Location

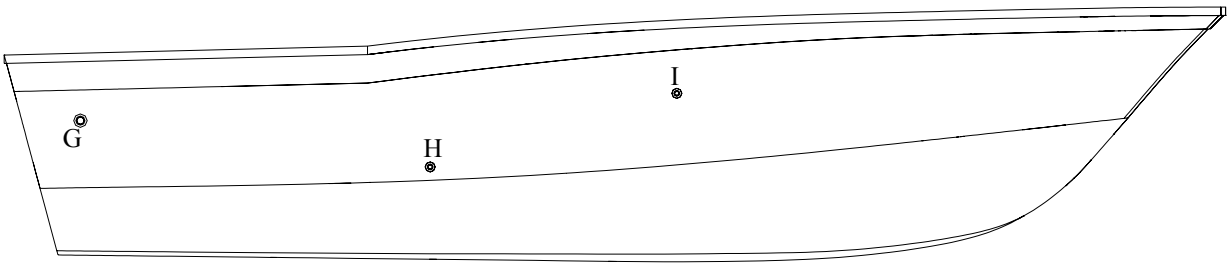


Thru Hull Detail

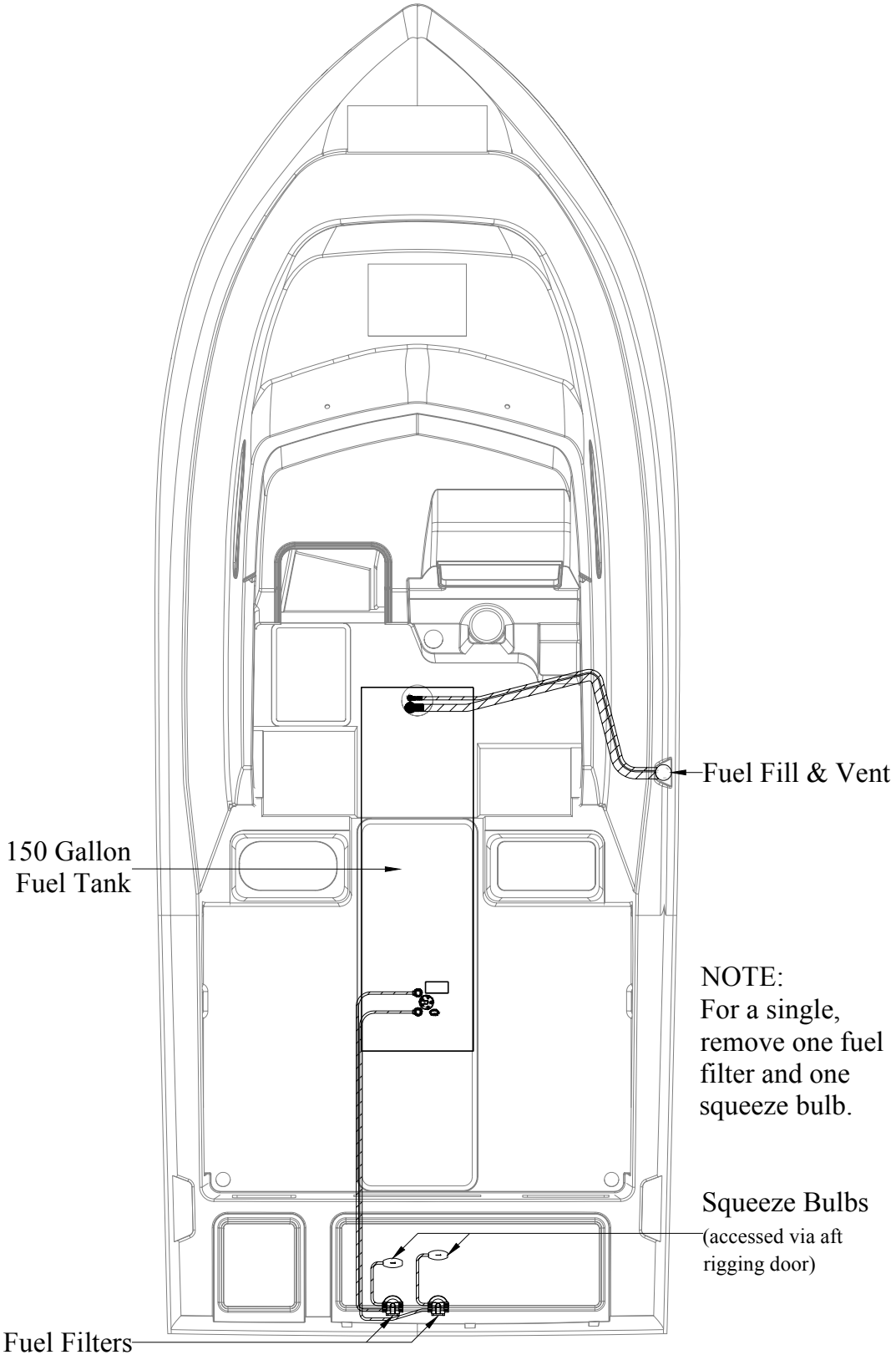
#	Description
A	Scupper
B	Garboard
C	HH/HM/MH Vent
D	Cabin Sink/Icebox
E	Livewell Drain
F	Aft Bilge
G	Aft Box
H	Fishbox
I	Fwd Bilge



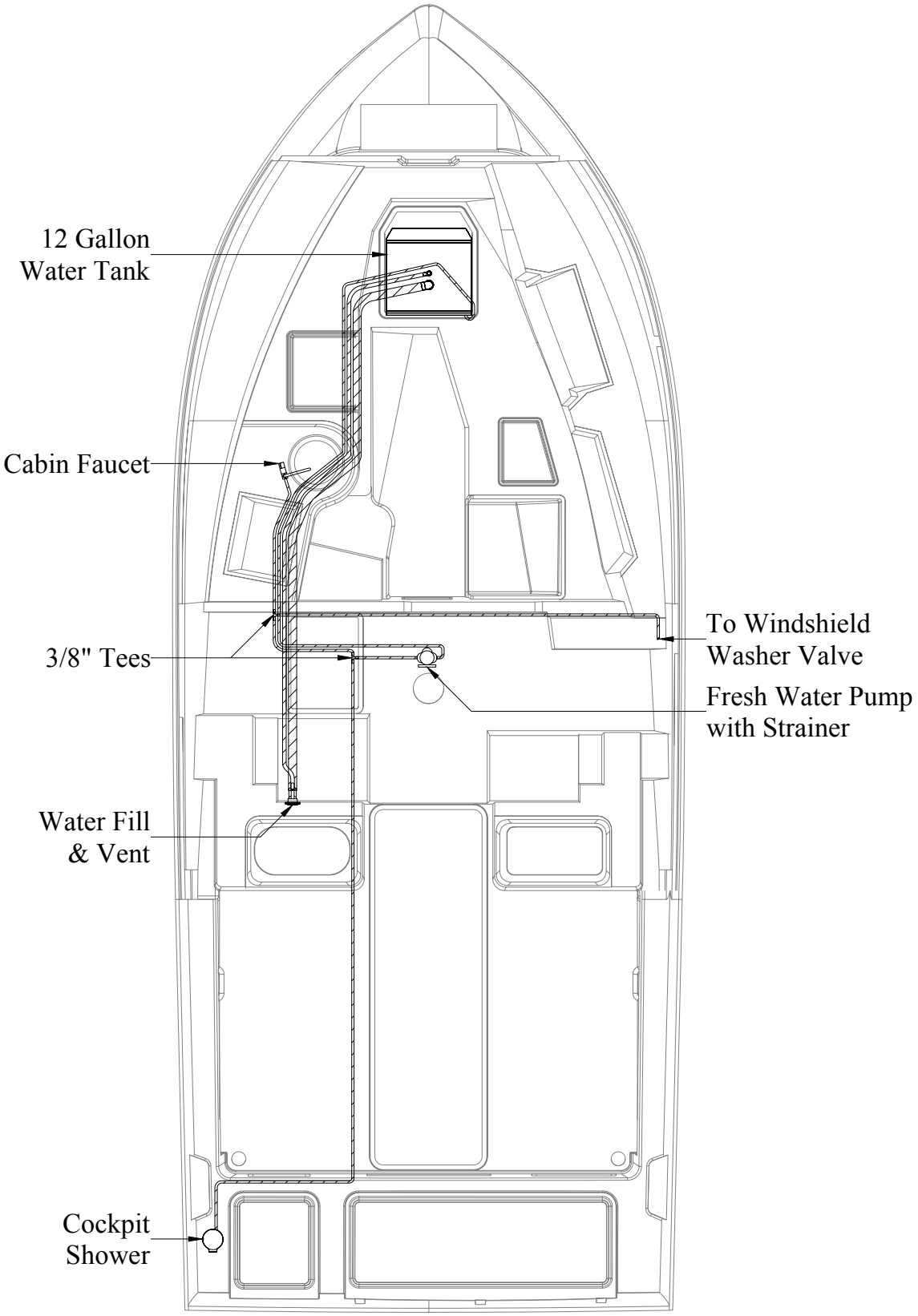




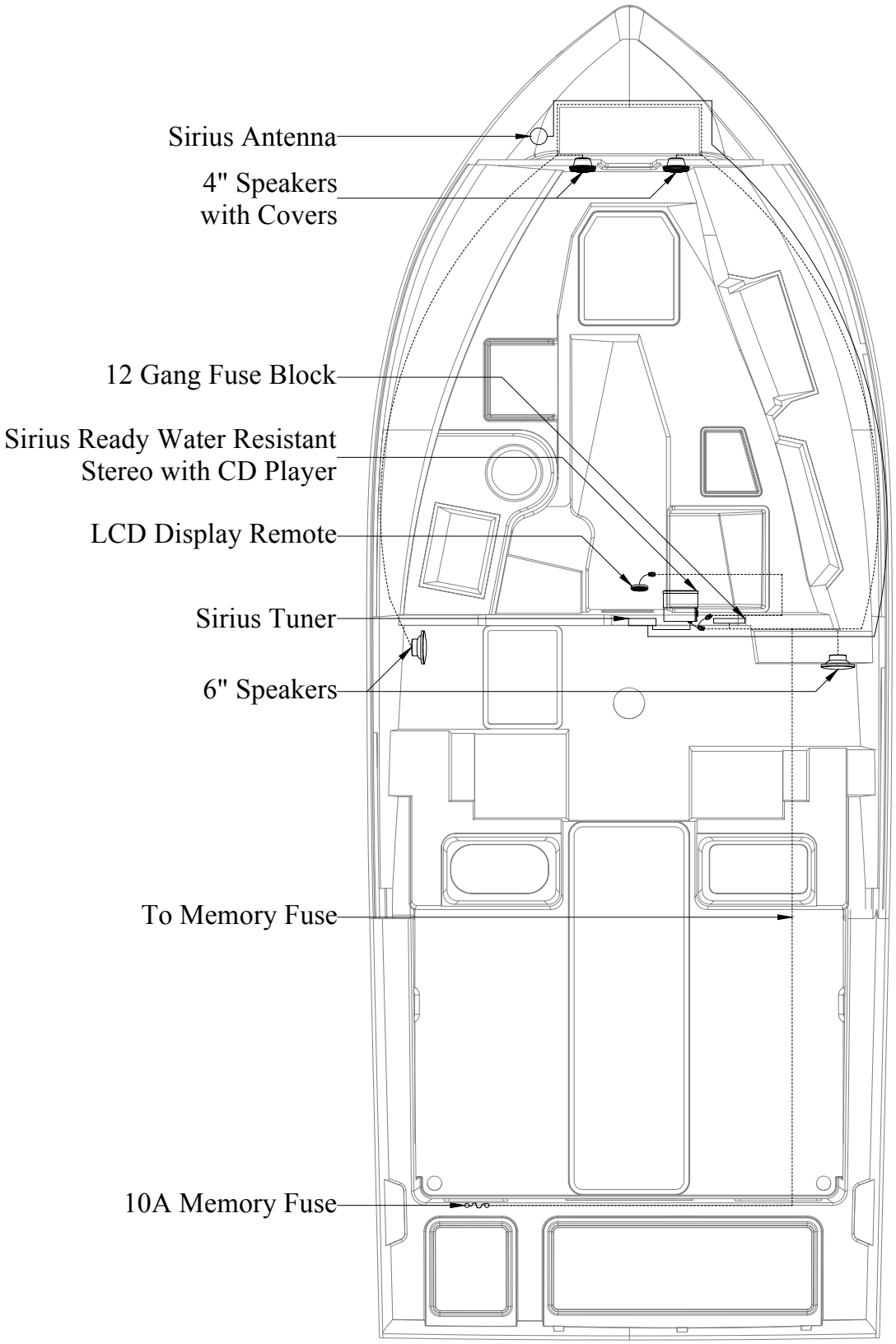
Fuel System Layout



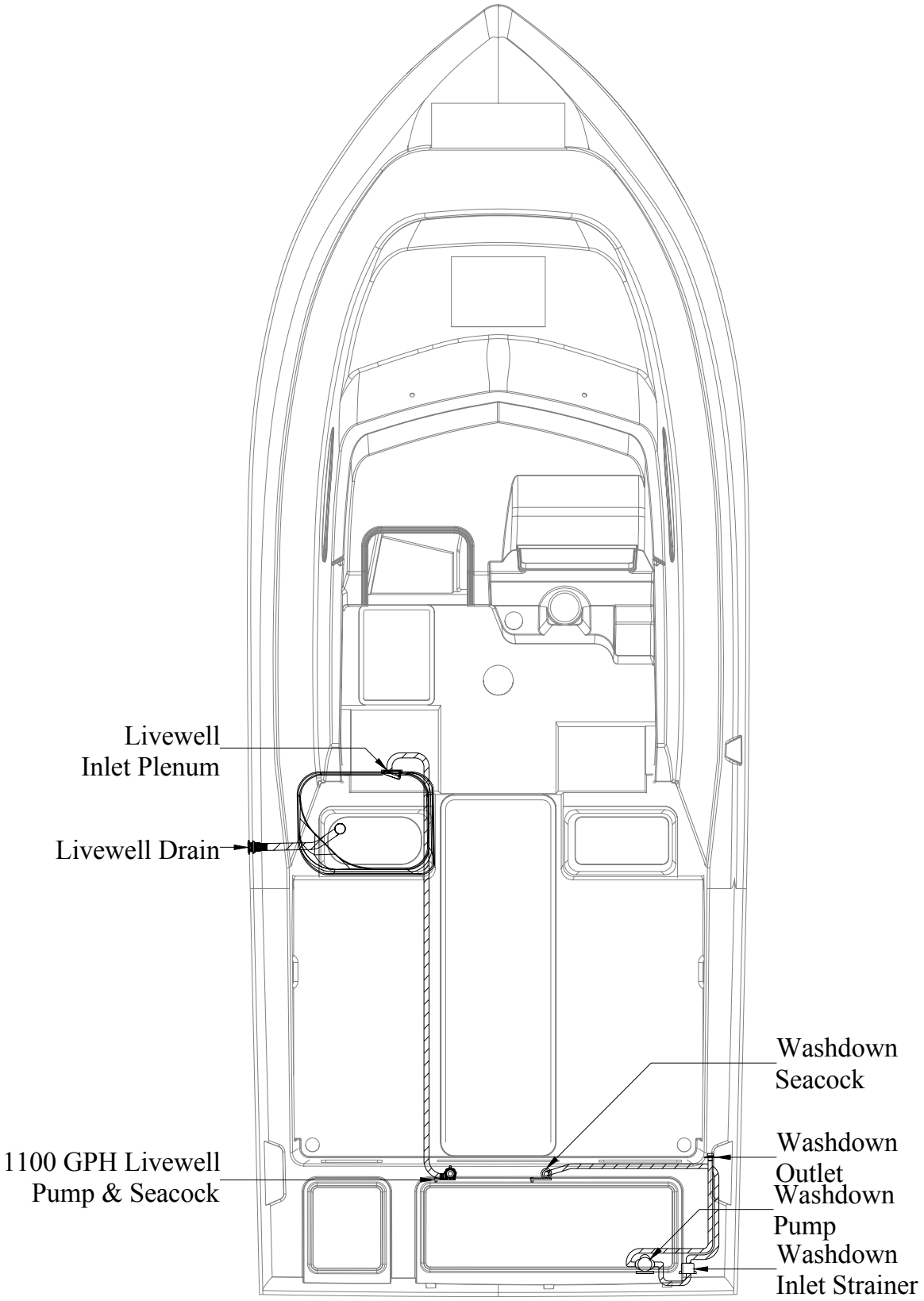
Fresh Water System With Cockpit Shower



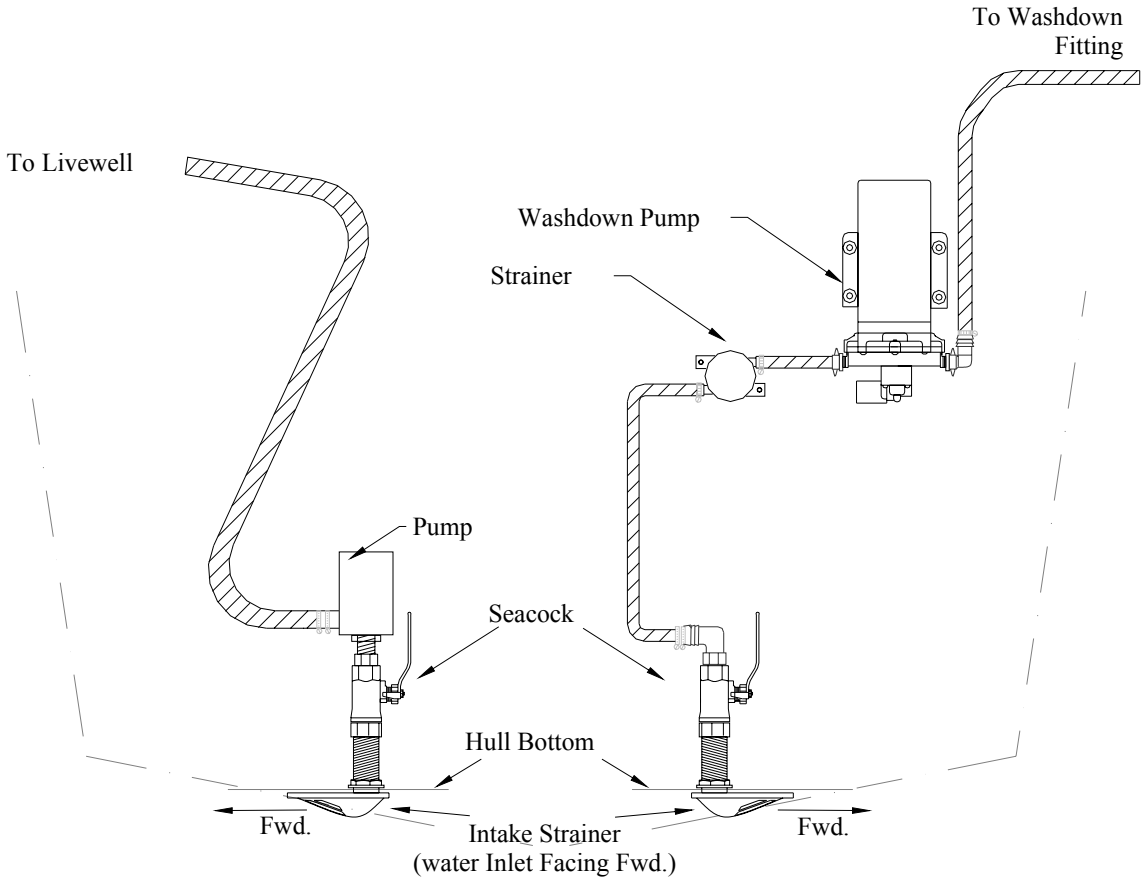
Stereo System Layout



Livewell Layout

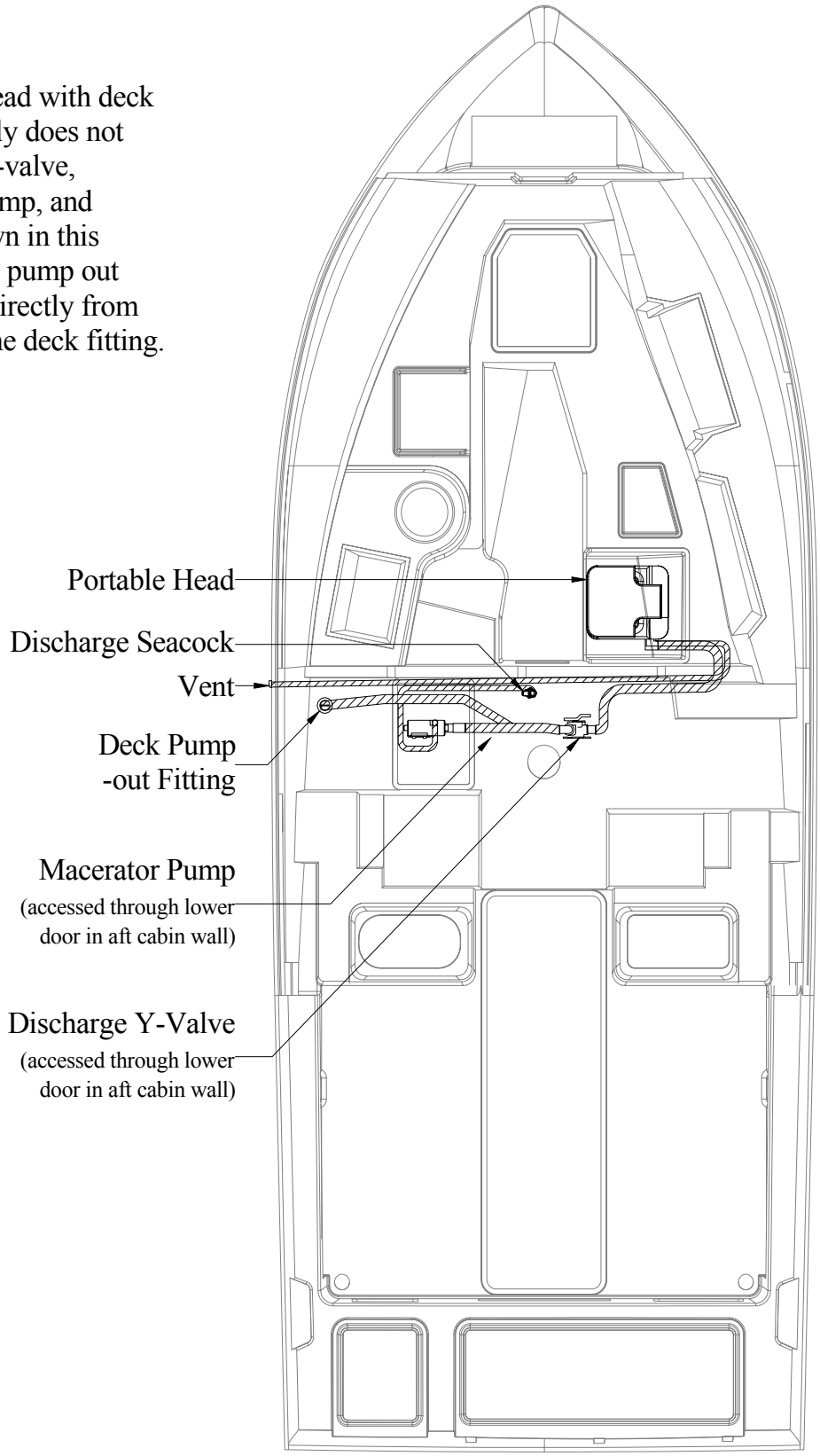


Livewell/Washdown System

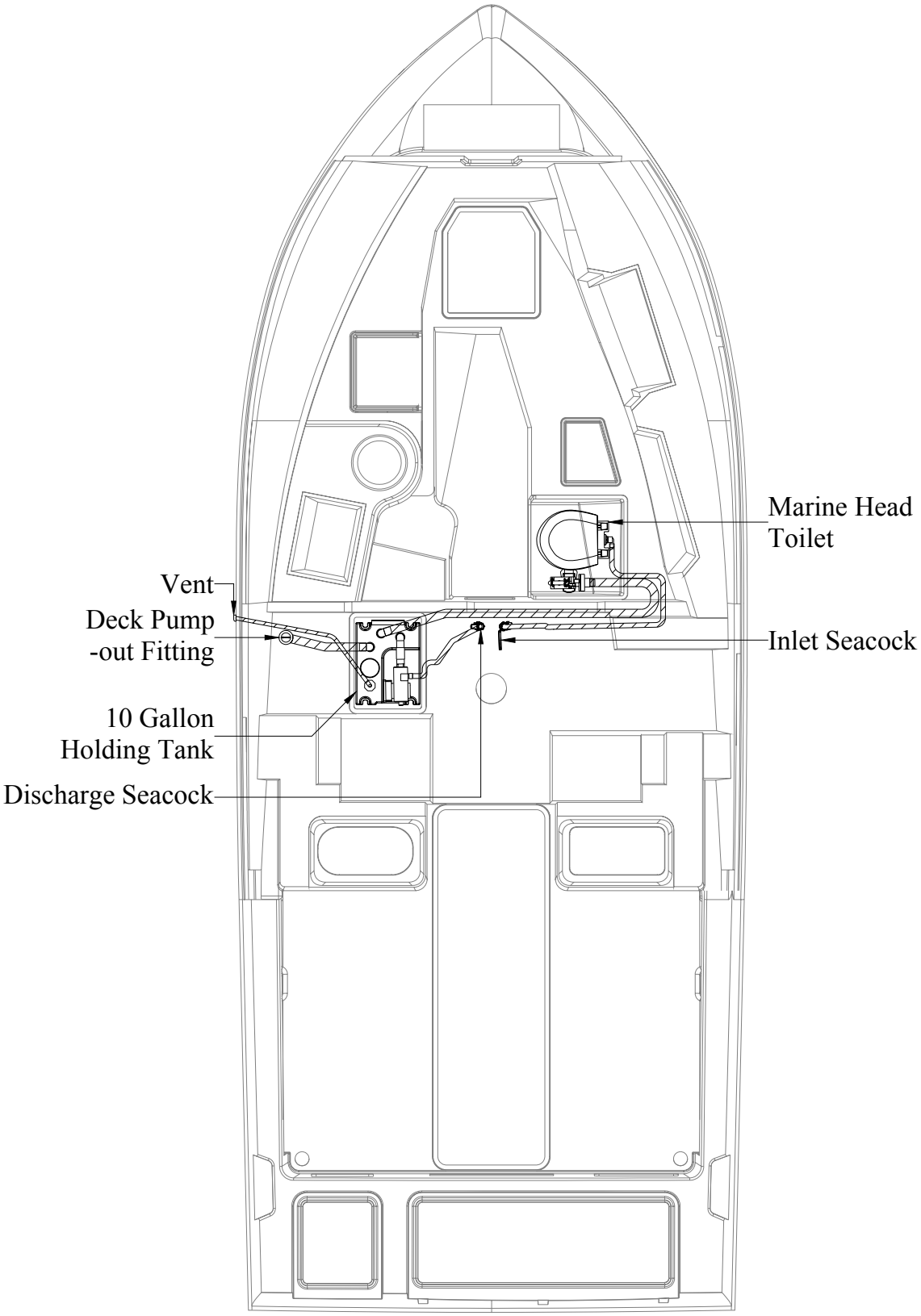


Portable Head Layout

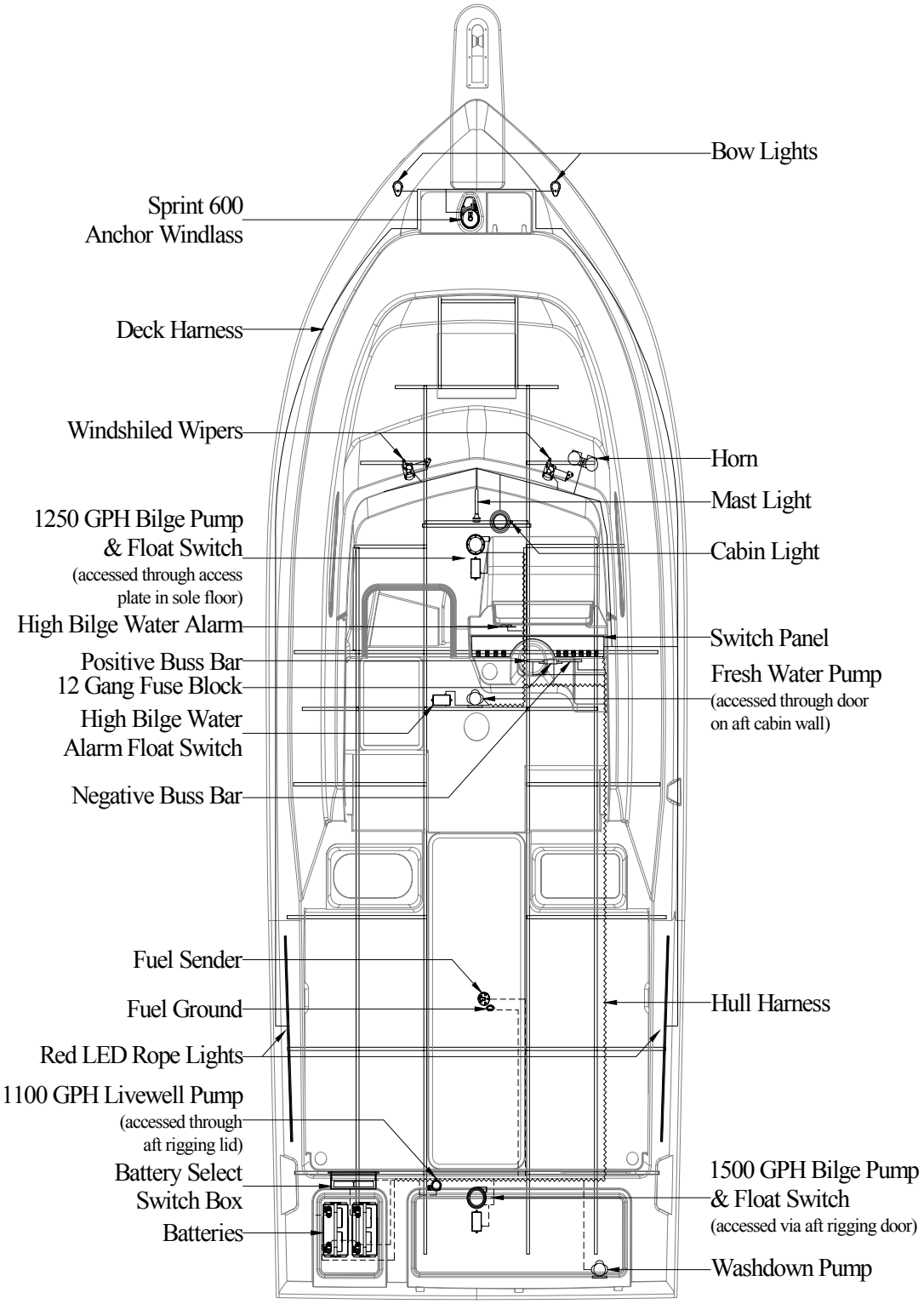
NOTE:
A portable head with deck pump-out only does not include the y-valve, macerator pump, and seacock shown in this drawing. The pump out hose routes directly from the head to the deck fitting.



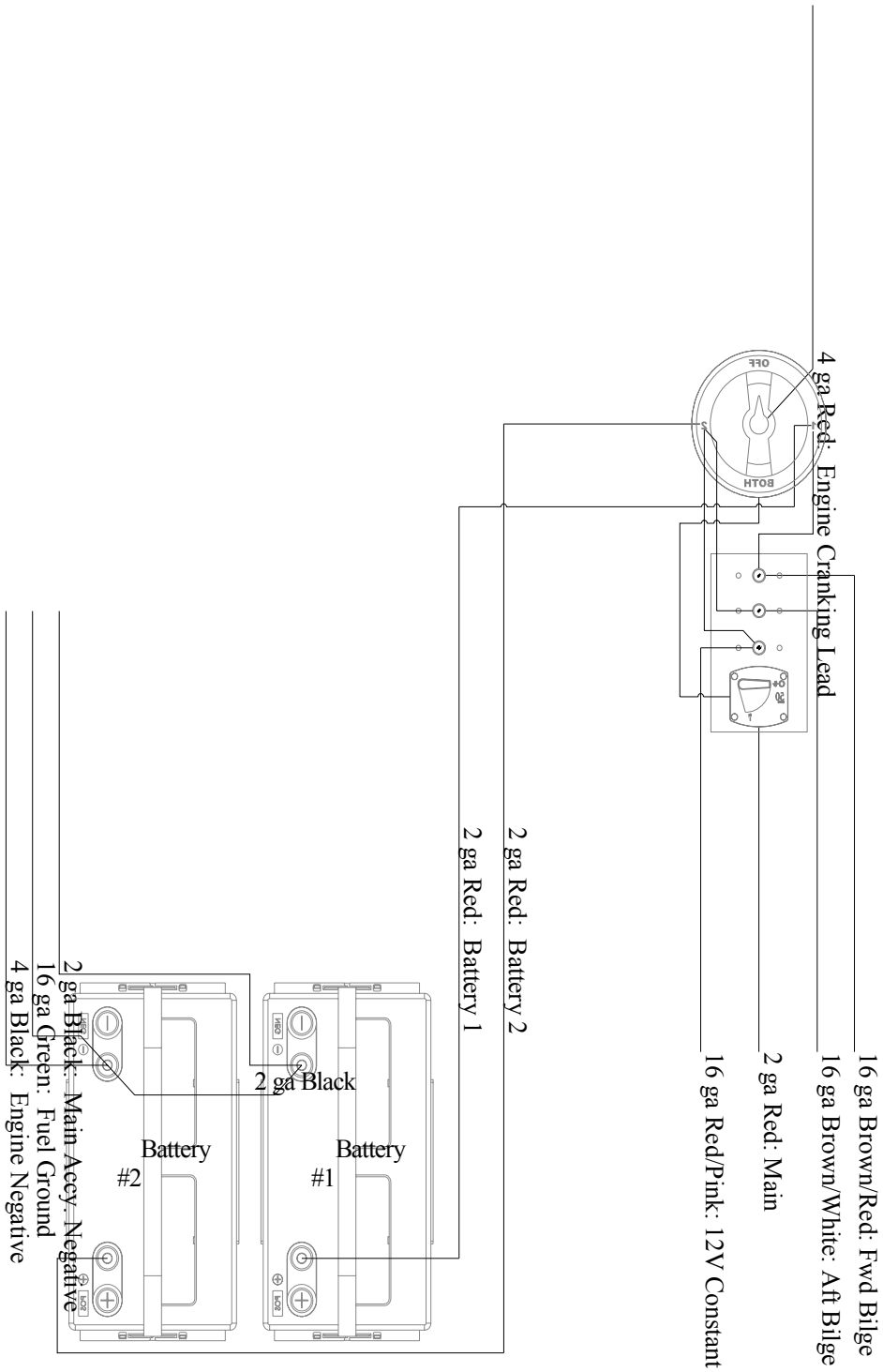
Marine Head Layout



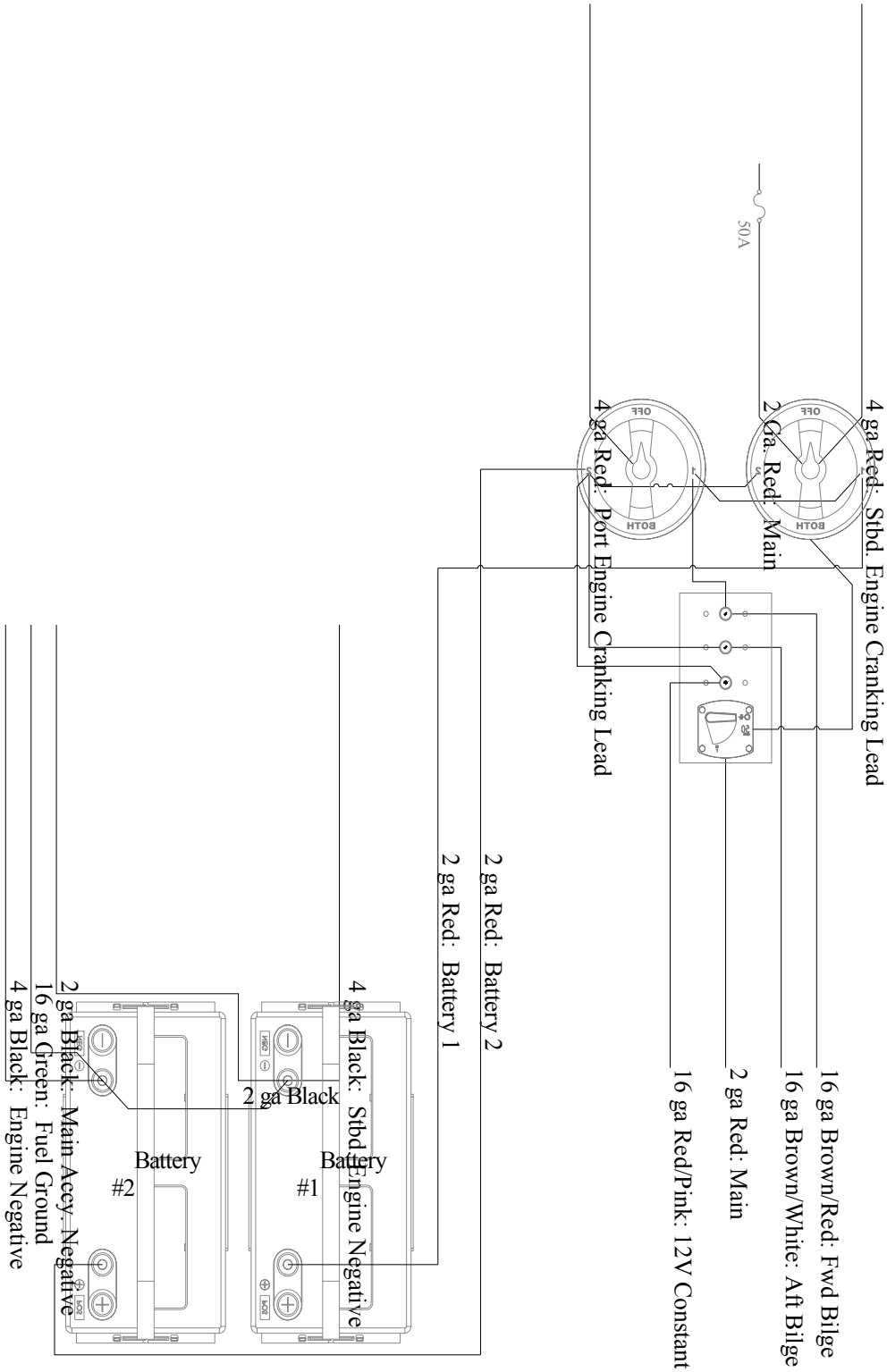
Accessory Wiring



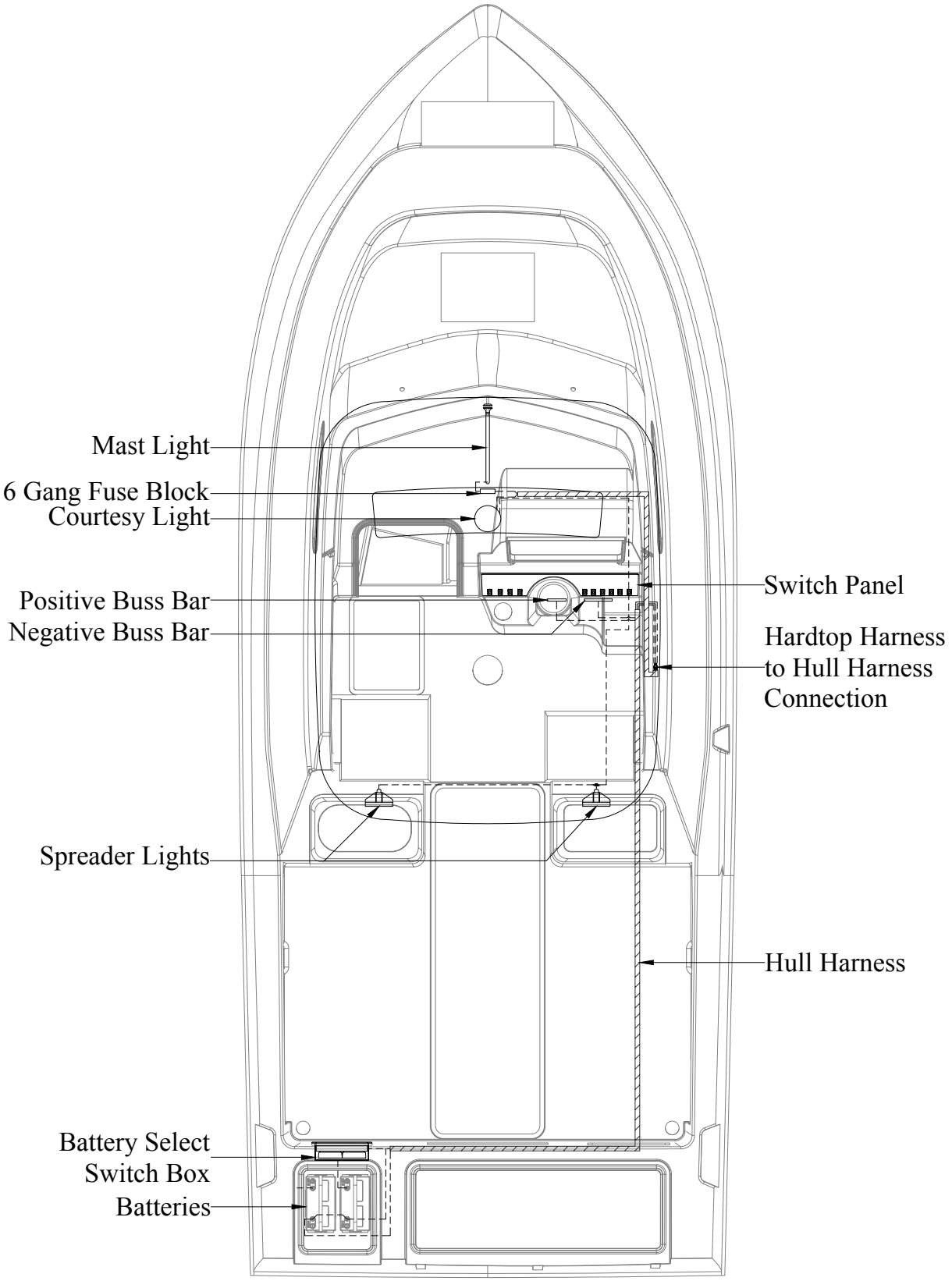
Battery Wiring with Select Switch – Single



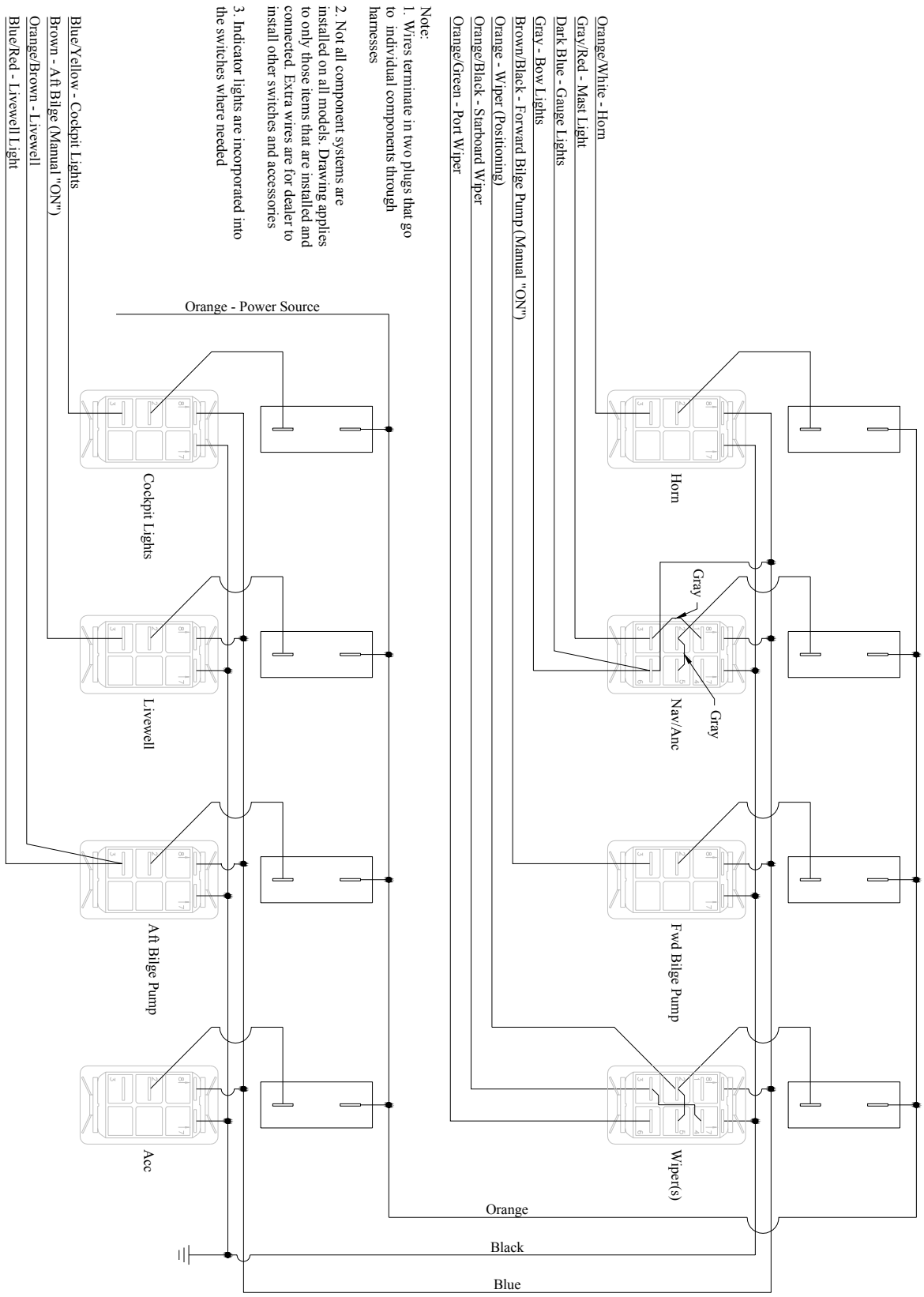
Battery Wiring with Select Switches – Dual



Hardtop Wiring



Typical Outboard Switch Panel Wiring



Chapter 9: Limited Warranty

REGISTRATION OF PURCHASE:

The "Federal Boat Safety Act of 1971" requires all boat manufacturers to maintain a record of all first retail purchasers and their current addresses for the purpose of notification in case of defective parts or equipment or in case of non-compliance with standards or regulations set forth by this act. Under the act, failure to complete and return your factory warranty card for our records will waive your right to notification of defect and/or repair at manufacturer's expense.

FIVE YEAR HULL TRANSFERABLE WARRANTY

Grady-White warrants to the original retail purchaser of each new Grady-White boat that under normal use the hull will be free from structural defects for a period of five years from the date of delivery to the original retail purchaser. Any structural defects covered by the warranty will be repaired free of charge at either the Grady-White factory in Greenville, North Carolina, or at an authorized Grady-White dealer location as elected by Grady-White. Transportation to and from the point of repair will be the responsibility of the owner with all repairs subject to prior written authorization by Grady-White Boats, Incorporated. NO BOAT IS TO BE SENT TO THE GRADY-WHITE FACTORY WITHOUT SUCH WRITTEN AUTHORITY.

The Five Year Hull Structural Warranty is transferable to the second and subsequent owners for the remainder of the five (5) years from the date of delivery to the original purchaser. There is no fee involved in the transfer of warranty to the new owner. The Grady-White Boats Transferable Warranty Form must be completed and returned to Grady-White at the time of sale. Upon receipt of this form, Grady-White will update it's records to reflect the new ownership and warranty coverage will be provided for the remainder of the five (5) years.

ONE YEAR MATERIAL AND WORKMANSHIP WARRANTY

Grady-White further warrants to the original retail purchaser of each Grady-White boat that under normal use, it will be free from defects in workmanship and material for a period of 12 months from the date of delivery to the original retail purchaser. Necessary repairs under this warranty will be made free of charge at Grady-White's factory in Greenville, North Carolina, or at an authorized Grady-White dealer as elected by Grady-White. Transportation to and from the point of repair will be the responsibility of the owner with all repairs subject to prior written authorization. NO BOAT OR PART THEREOF IS TO BE SENT TO THE GRADY-WHITE FACTORY WITHOUT SUCH WRITTEN AUTHORITY.

Exclusions

- This warranty specifically does not include the following:
- Damage caused by abuse, negligence, vandalism, lack of maintenance, improper storage, or accident.
- Any statements, representations, or warranties given by dealer or other third persons other than those provided within this warranty.
- Any unit which is part of a rental fleet, used for racing, or commercial purposes.
- The following consequential damages: a) loss of time; b) inconvenience; c) towing charges; d) expenses for travel, lodging, telephone, and gasoline; e) loss or damage to personal property or loss of revenue; f) loss of use of the boat.

- This warranty specifically does not apply to engines, outdrives, propellers, controls, steering, bilge pumps, and any other part expressly warranted by the manufacturer thereof. In addition, also excluded are gel coat cracking, gel coat crazing, gel coat blistering or fading, chrome, windshields, glass breakage, all vinyl upholstery and canvas, instruments and gauges, and leakage around windshields, windows, hatches, and other apertures.
- Any boat which has been overpowered according to the maximum Grady-White recommended engine horsepower specifications on the capacity plate affixed to the boat.

WARRANTY CLAIM PROCEDURES

Upon the discovery of a defect, the owner is to promptly contact the Grady-White dealer from whom the original retail purchaser purchased the boat who will effect the corrective action under this warranty upon prior written authorization from Grady-White Boats, Incorporated.

THESE WARRANTIES ARE EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES. DURATION OF ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE SHALL BE LIMITED TO AND COINCIDENT WITH THE DURATION OF THESE EXPRESSED WARRANTIES.

THIS WARRANTY SHALL NOT BE VALID UNLESS THE FACTORY WARRANTY POSTCARD IS PROPERLY EXECUTED AND MAILED WITHIN 10 DAYS OF THE PURCHASE OF YOUR GRADY-WHITE BOAT.

GRADY-WHITE

Transferable Warranty Form

(Not for original owner use *)

*** Note: For second owner's use in transferring remainder of 5 year hull structural warranty.**

Please complete the following:

Hullid: _____

Boat Model: _____

Name: _____

Address: _____

City: _____ ***State:*** _____ ***Zip:*** _____

Home Phone: _____ ***Work Phone:*** _____

Last 4 digits of your Social Security Number (to be used for customer identification number): _____

Dealership or Previous Owner: _____

Date Purchased: _____

About Your Boat

1. ***What type of power is your boat equipped with?*** ☐ Single OB ☐ Dual OB ☐ Inboard/Outboard
2. ***What engine brand does your boat have?*** ☐ Johnson ☐ Mercury ☐ Evinrude ☐ Yamaha ☐ Volvo ☐ Other
3. ***Engine horsepower (total if twin power)*** _____
4. ***Is your new Grady-White the first boat you've ever owned?***

   ☐ Yes → Please skip to question 5a
   ☐ No → ***Please tell us about your previous boat:***
   Builder's name: _____ ***Length:*** _____
   Why did you sell this boat? _____

5a. In which of the following ways do you use your Grady-White? (Please mark all applicable in column A.)

5b. In which <u>one</u> way do you use your Grady-White <u>most often</u>? (Please mark <u>one</u> only in column B.)

	A Ways Use	B One Way Use Most Often
Casual cruising	☐	☐
Casual fishing	☐	☐
Serious offshore fishing	☐	☐
Socializing/entertaining	☐	☐
Watersports	☐	☐
Other:	☐	☐

6. ***Which of the following most influenced your selection of a Grady-White boat? (Please pick three or fewer reasons.)***

About Grady-White

- Grady-White's overall reputation ☐
- Previous experience with a Grady-White ☐

About the boat itself

- Cockpit layout ☐
- Hull design/ride ☐
- Resale value ☐
- Safety/seaworthiness ☐
- Styling ☐
- Other: _____ ☐

7. ***How would you rate the overall value received from your Grady-White?***

☐ Excellent ☐ Good ☐ Fair ☐ Poor

8. ***How likely would you be to consider buying each of the following brands of boats in the future?***

	Definitely Consider	Might Consider	Would Not Consider	Don't Know
• Boston Whaler	☐	☐	☐	☐
• Century	☐	☐	☐	☐
• Grady-White	☐	☐	☐	☐
• Hydra-Sport	☐	☐	☐	☐
• Mako	☐	☐	☐	☐
• Pursuit	☐	☐	☐	☐
• Searay	☐	☐	☐	☐
• Wellcraft	☐	☐	☐	☐
• Other:_____	☐	☐	☐	☐

9. ***Which of the following magazines do you subscribe to or read often?***

☐ Boating ☐ Fisherman Magazine ☐ Motorboating & Sailing ☐ Sportfishing
☐ Boating World ☐ Florida Sportsman ☐ Power & Motoryacht ☐ Wall Street Journal
☐ Boats U.S. ☐ Offshore ☐ Saltwater Sportsman ☐ Other _____

10. ***What is your age?*** ☐ Under 25 ☐ 25-34 ☐ 35-44 ☐ 45-54 ☐ 55-64 ☐ 65 or older

11. ***Which of the following best describes your educational background?***

☐ Some High School ☐ Some College or Technical ☐ Some Post-Graduate Work
☐ High School Graduate ☐ College Graduate ☐ Post-Graduate Degree or More

12. ***What is your total annual household income?***

☐ Under $30,000 ☐ $75,000 - $99,999 ☐ $150,000 - $174,999
☐ $30,000 - $49,999 ☐ $100,000 - $124,999 ☐ $175,000 - $199,999
☐ $50,000 - $74,999 ☐ $125,000 - $149,999 ☐ $200,000 or more

13. ***Does your family own a second home, where you most often do your boating?*** ☐ Yes ☐ No

If yes, where is your second home? _____ _____
City State

Thank you for completing this questionnaire.
When we receive this information, you will automatically begin receiving our AnchorLine Newsletter.
Please return this form to:
Grady-White Boats, Customer Relations Dept., P.O. Box 1527, Greenville, NC 27835-1527