

GRADY-WHITE BOATS

P.O. Box 1527, Greenville, NC 27835-1527
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WELCOME ABOARD!

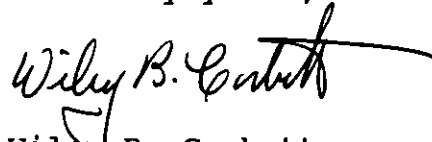
Congratulations! Welcome to the Grady-White "family" of proud and friendly boat owners.

The Grady-White you have purchased is the strongest, safest, and highest quality boat you can buy. It was built by dedicated craftsmen in the most modern boat-building facility in the United States. All of us at Grady-White Boats wish you many happy, carefree hours of boating in your Grady-White.

Your Grady-White boat meets or exceeds every safety standard of the U.S. Coast Guard and the National Marine Manufacturers Association's NMMA Certification Program. Your Grady-White's safety and seaworthiness, however, depends on your operation, maintenance and care of your boat. That's why we have put a great deal of time and thought into this owner's manual. It includes the precautions, facts and tips that will help make your boating safe and enjoyable. Please study this manual thoroughly!

My thanks to you for choosing Grady-White. All of us here at the factory are dedicated toward meriting your confidence in Grady-White Boats. Happy boating and welcome aboard.

Sincerely yours,



Wiley B. Corbett
President

SPECIFICATIONS

DEALER: _____

OWNERS NAME: _____

OWNERS ADDRESS: _____

MODEL: _____

BOAT SERIAL #: _____

STEERING: _____

ENGINE OPTION: _____

STEERING CABLE LENGTH: _____

ENGINE SERIAL #: _____

CONTROL CABLE LENGTHS: _____

DRIVE SERIAL #: _____

** APPROX. DRY WEIGHT
W/O ACCESSORIES): _____

TRANSOM PLATE SERIAL #: _____

FACTORY INSTALLED PROP (ALUM): _____

** OUTBOARD WEIGHTS DO NOT INCLUDE ENGINE

MODEL	CENTER- LINE LENGTH	BEAM AMID- SHIP	AVAIL. TRANSOM HEIGHTS		TRANSOM HULL DRAFT	O/B MAX H.P.	MAIN FUEL CAP. (GAL)	AUX FUEL CAP. (GAL)	FRESH WATER CAP. (GAL)	APPROX HEIGHT KEEL TO TOP OF W/
			(S-SGL)	(T-TWIN)						
175	17'5"	89"	20"S	88"	12"	140	48			69"
190	18'11"	96"	20"S	92"	14"	200	60			72.0"
209	20'4"	96"	25"S	94"	14"	230	82		10	85.88"
208	20'4"	96"	25"S	94"	14"	230	82		10	84.5"
225G	22'2"	96"	25"S	94"	15"	230	91		10	78"
226	22'2"	96"	25"S	94"	15"	280	91	56	10	89.13"
227	22'2"	96"		94"	15"		91		10	89.13"
228G	22'2"	96"	25"S	94"	15"	280	91	56	10	89.13"
230	23'5"	111"	25S/25T	106"	17"	350	91	56	10	96.25"
231	23'5"	111"		106"	17"		90	56	10	96.25"
232G	23'5"	111"	25S/25T	106"	17"	350	91	56	10	96.25"
244	24'1"	96"	25"S	94"	15"	300	91	56	10	91"
245	24'1"	96"		94"	15"		91		10	91"
246G	24'1"	96"	25"S	94"	15"	300	91	56	10	91"
246GT	24'1"	96"	25"T	94"	15"	300	107	56	10	91"
250	25'4"	108"	25"T	108"	18"	400	150	90	10	102"
251	25'4"	108"		108"	18"	400	150	90	10	102"
252G	25'4"	114"	25"T	108"	18"	400	150	52	32	107.5"
253GT	25'4"	114"	25"T	108"	18"	400	150	90	10	102"
254	25'4"	114"		108"	18"		150		32	107.5"
255	25'4"	114"	25"T	108"	18"	400	150	52	32	107.5"
280	28'0"	127"	25"T	114"	19"	500	156	150	41	117"

* WITH HARDTOP ADD 21"

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WARRANTY

SECTION A: BOATING SAFETY

REQUIRED SAFETY EQUIPMENT

The U.S. Coast Guard requires that every boat has specific equipment on board, which varies according to the size of the boat. There are also local agencies which require additional equipment, so find out if your local regulations require more equipment than the list of Coast Guard requirements below.

As your Grady-White is between 26 and 40 feet, it is classified as a Class 2 boat and requires the following safety equipment:

1. FIRE EXTINGUISHER

All Class 2 boats must have two (2) fire extinguishers on board. Each passenger should be aware of their location and have easy access to them.

2. PERSONAL FLOTATION

Each passenger (and skier) must have a U.S. Coast Guard approved personal flotation device. They should be stored where they can be reached easily and quickly. Small children and non-swimmers should wear these flotation devices at all times. Each Class 2 boat is also required to carry an approved Type 4 throwable flotation device, such as a ring buoy or boat cushion.

3. HORN

All Class 2 boats are required to carry a hand, lung, or power-operated horn that is audible for at least one mile.

4. VISUAL DISTRESS SIGNALS

Coast Guard-approved visual distress signals are now required when operating in U. S. waters and on the high seas. The Coast Guard pamphlet "Visual Distress Signals for Recreational Boats" lists the necessary equipment.

5. REGISTRATION NUMBERS

Federal and state laws require that a power boat be registered in the state where it is principally used. Both registration numbers and validation stickers must be displayed according to the regulations, and the registration certificate must be carried on board. The boat's serial number, required on the registration form, is found on the upper right hand corner of the transom.

6. LIGHTING

All Grady-White boats are equipped with navigational lights that meet the latest requirements for inland and international waters. If there is any doubt, or if requirements change, consult your dealer.

For more information on Coast Guard required safety equipment refer to the U. S. Coast Guard publication CG-290.

ADDITIONAL RECOMMENDED EQUIPMENT

In addition to required safety equipment, we also recommend the following:

VHF Radio	Mooring lines (2)
Anchor with chain and line	Tow line
Sea anchor	Drinking water and food
Spotlight or flashlight	First aid kit
Navigational charts of the area	Compass
Spare propeller and hardware	Boat hook

Tool kit including: adjustable wrench, slip-joint pliers, spark plug wrench and spark plugs, screwdrivers (slotted & Phillips), box end wrench set, hammer, roll of flexible wire, electricians tape, knife, spare fuses, and spare hydraulic fluid.

DISCHARGE REGULATIONS

The U.S. Coast Guard requires that any vessel that is 26 feet or more in length display one or more placards in prominent locations, so that they can be read by the crew and passengers. Each placard must be at least nine inches wide and four inches high, made of a durable material, and printed with letters that are at least 1/8 of an inch in height. The placard must include the following information:

1. The discharge of plastic or garbage mixed with plastic into any waters is prohibited.
2. The discharge of all garbage is prohibited in the navigable waters of the United States and in all other waters within three nautical miles of the nearest land.

3. The discharge of dunnage, lining, and packing materials that float is prohibited within 25 nautical miles of the nearest land.
4. Other unground garbage may be discharged beyond 12 nautical miles from the nearest land.
5. Other garbage ground to less than one inch may be discharged beyond three nautical miles of the nearest land.
6. A person who violates the above requirements is liable for a civil penalty of up to \$25,000, a fine of up to \$50,000, and imprisonment for up to five years for each violation.
7. Regional, state, and local restrictions on garbage discharge may also apply.

BOATING SAFETY TIPS

The following tips will add to your boating safety and convenience:

1. Advise someone on shore or the local Coast Guard as to the name of your launch site, your expected direction, and expected return.
2. Consult with people familiar with the boating area when venturing into unknown waters. Obtain a chart for new areas whenever possible.
3. Watch the weather. You should not attempt to go out when there are storm or small craft warnings. If you are caught in a storm, reduce speed, head into the wind/waves, and keep all gear and passengers close to the center line of the boat for stability. Head for the nearest shelter.
4. Instruct at least one passenger on the fundamentals of operating your boat in case of any emergency.
5. Keep your boat speed under control. Respect for other boaters and those on shore is common courtesy. In addition, the operator is responsible for any injury or damage caused by the boat's wake. Your wake could swamp or damage a smaller craft and endanger its passengers. Stay alert to areas having signs posted "No Wake Zone".
6. Be prepared to give assistance to other boats in distress.

7. Report any boating accident to the local authorities, whether or not you are involved.

IN CASE OF ACCIDENT

 If you are involved in a boating accident on the navigable waters of the United States, you are required by law to stop and render assistance. You are also required to identify yourself and your boat to the injured person or owner of the damaged property. If there is more than \$100 in property damage, an accident report must be filed with proper authorities within five days of the accident. If the accident results in death, disappearance, or injury requiring medical attention, an accident report must be filed within 48 hours. Report forms may be obtained through Coast Guard installations, most harbor patrol offices, and many sheriff and police stations.

8. If you develop trouble and do not have a radio, the regulation distress signal is continually raising and lowering your arms outstretched at your sides. Other signals include waving a shirt tied to a pole, repeatedly sounding your horn, or flying your boat's ensign upside down and lighting flares.
9. Become familiar with the handling characteristics, capabilities, and limitations of your boat.
10. Turn off engines before swimmers enter or exit the boat. A shift lever in neutral could become engaged accidentally, seriously injuring swimmers.
11. Since clean water and air are the responsibilities of everyone, carry a litter container on board and dispose of refuse properly. Become familiar with local laws regarding the discharge of waste.
12. Recommend boat shoes or tennis shoes to your passengers rather than street shoes or bare feet.

IMPORTANT!!

The fumes from the engine(s) contain carbon monoxide, which may be a health hazard and can be fatal if breathed over a prolonged period of time. Carbon monoxide is a gas formed by the combination of one molecule of carbon and one molecule of oxygen. Chemists refer to it as CO, its chemical formula, "C" for carbon and "O" for oxygen. CO is a colorless, odorless, and tasteless gas. Its weight is about the same as air, so it cannot be expected to rise or fall like some other gases, but will distribute itself throughout space.

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

A boat operator should be aware that CO is emitted from any boat's exhaust. The operation, mooring, and anchoring in an area containing other boats may be in an atmosphere containing CO that is not of the operator's making. An operator, likewise, needs to be aware of the effect of his actions on other boats. Of prime concern is the operation of an auxiliary generator with boats moored along side each other. Be aware of the effect your exhaust may have on other vessels. Also be aware that the operation of other vessel's equipment may affect the carbon monoxide concentration on your vessel.

CERTIFICATION

Close to the steering wheel, you will find a Coast Guard certification tag. This tag means your yacht complies with Coast Guard safety standards.



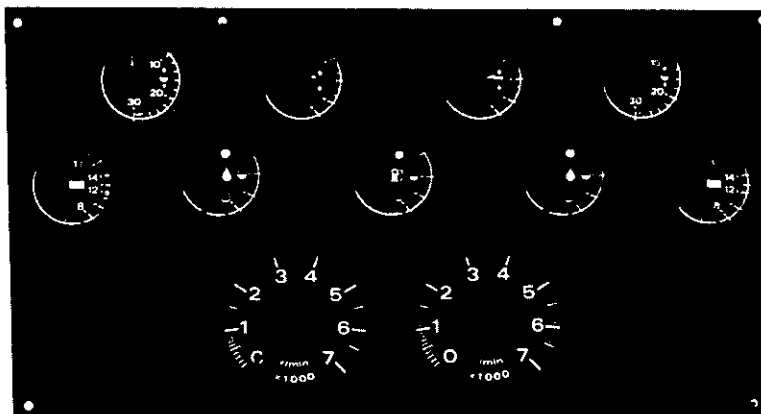
This tag, means that your Grady-White is certified by the National Marine Manufacturers Association. With this tag, you are assured that your fuel system, lighting, ventilation, steering, flotation, capacities, and horsepower ratings are not only in compliance with the U. S. Coast Guard regulations, but also meet the more stringent standards of the National Marine Manufacturers Association.

The National Marine Manufacturers Association is a national trade organization serving all elements of the recreational boating industry, including manufacturers of boating equipment. With this tag, you can have confidence in the quality of your boat.



SECTION B: INSTRUMENTS AND SWITCHES

MERCURY AND OMC PRE-RIG GAUGES



ENGINE WATER TEMPERATURE GAUGE

(ONLY WITH MERCURY PRE-RIG)

This gauge indicates the temperature of the cooling water circulating through your engine. When the temperature exceeds the recommended operating range indicated by your engine owner's manual, 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 first if you experience trouble.

ENGINE WATER PRESSURE GAUGE

(ONLY WITH OMC PRE-RIG)

This gauge indicates when the cooling system's water pressure is too low for adequate cooling. If the gauge registers outside the recommended operating range indicated by your engine owner's manual, immediately shut off your engine to prevent damage. If you experience trouble, first check your engine's intake on the lower unit.

WATER TEMPERATURE, OIL LEVEL, AND FUEL SYSTEM WARNING BUZZER (Not shown in diagram)

Located under the dash, your outboard has a factory installed warning buzzer for water temperature and oil level. In addition, OMC pre-rigs utilize a fuel system warning buzzer. Refer to the engine owner's manual for more information.

TRIM GAUGE

This gauge indicates the angle of thrust of the lower unit of the engine. See the PERFORMANCE section of this manual (page 34) for trim adjustment recommendations.

VOLTMETER

This meter indicates the battery charge when the engine is off and indicates the alternator output when the engine is running. With the ignition "on", 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 is normal when the engine is running. Readings over 15 volts may indicate regulator problems. Low or fluctuating readings may indicate loose connections, loose belts, or trouble in the regulator and alternator circuit. A voltage drop soon after the engine is shut down indicates a bad battery or a heavy load on the electrical system.

OIL QUANTITY GAUGE

OMC pre-rigs are equipped with an oil quantity gauge that indicates the oil level in the tank.

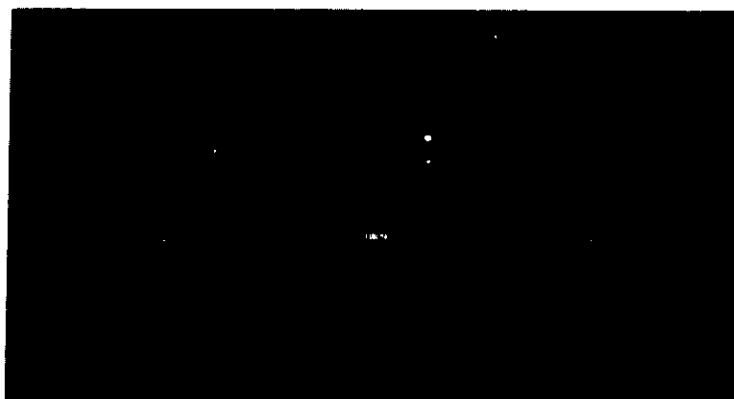
TACHOMETER GAUGE

The tachometer indicates engine revolutions per minute (RPM's). Consult your engine owner's manual for recommended operating RPM's.

FUEL GAUGE

This gauge, activated by the ignition, indicates the gas tank fuel level. To alternate readings between main and auxiliary fuel tanks, utilize the MAIN/AUX switch located on the switch panel. The sending unit senses the level of fuel and indicates this on the gauge. When reading this gauge, remember two things: (1) the accuracy of your gauge varies with the attitude of your boat in the water (trim or list) and (2) 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.

YAMAHA PRE-RIG GAUGES



DIGITAL SPEEDOMETER

SPEEDOMETER

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

TRIP METER

This feature indicates distance traveled since the meter was last set.

CLOCK

FUEL METER

This feature indicates the gas tank fuel level. To alternate readings between the main and auxiliary fuel tanks, utilize the MAIN/AUX switch located on the switch panel. The sending unit senses the level of fuel and indicates this on the gauge. When reading this gauge, remember two things: (1) the accuracy of your gauge varies with the attitude of your boat in the water (trim or list) and (2) 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.

OVERHEAT WARNING INDICATOR

This feature indicates when the temperature of the cooling water circulating through the engine is too high. When the temperature exceeds the recommended operating range indicated by your engine owner's manual, 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 first if you experience trouble.

BATTERY VOLTAGE INDICATOR

This feature indicates the battery charge when the engine is off and indicates the alternator output when the engine is running. With the ignition "on", 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 is normal when the engine is running. Readings over 15 volts may indicate regulator problems. Low or fluctuating readings may indicate loose connections, loose belts, or trouble in the regulator and alternator circuit. A voltage drop soon after the engine is shut down indicates a bad battery or a heavy load on the electrical system.

LOW FUEL WARNING INDICATOR

This feature indicates when the fuel level in the main fuel tank is becoming low.

DIGITAL TACHOMETER**REVOLUTIONS PER MINUTE (RPM's)**

Consult your engine owner's manual for recommended operating RPM range.

TRIM

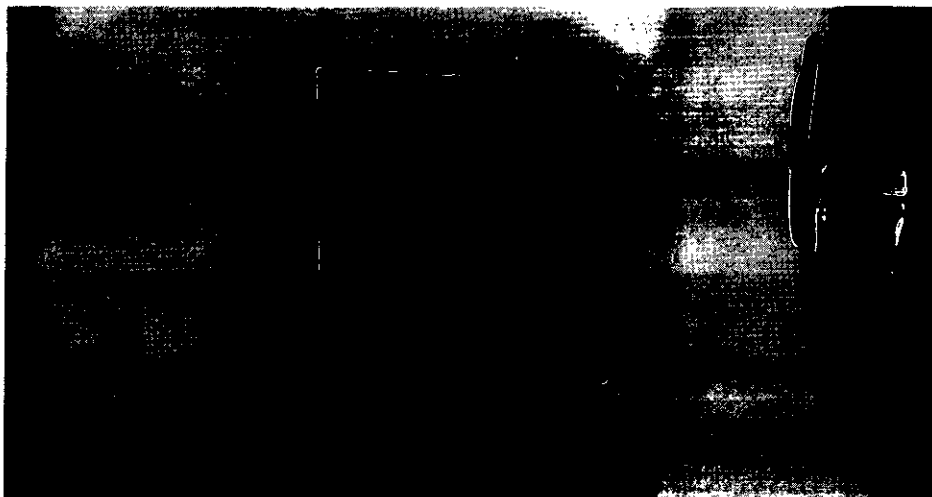
This feature indicates the angle of thrust of the lower unit of the engine. See the PERFORMANCE section of this manual (page 34) for trim adjustment recommendations.

OIL LEVEL WARNING LIGHT

Refer to your engine owner's manual for information regarding oil level and warning light.

SWITCHES**TRIM TAB SWITCH**

Trim tab switches control the trim tabs used for adjusting the attitude of the boat while running (see TRIM TABS in the PERFORMANCE SECTION, page 34).



TRIM/TILT SWITCH

The trim and tilt switches are located in the throttle control. The trim switch changes the angle of thrust of the engine (see the PERFORMANCE section, page 34). The tilt switch raises the drive unit for trailering.



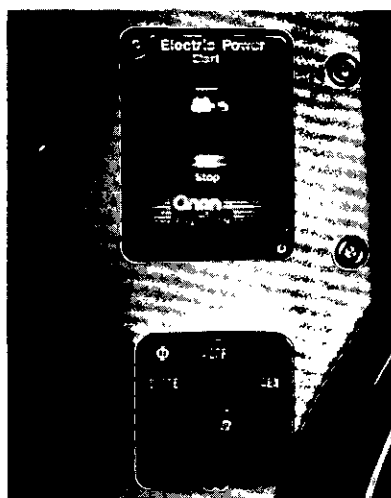
IGNITION SWITCH

The ignition switch is factory installed.

SPREADER LIGHTS SWITCH

The spreader lights are optional. This switch is located on the hardtop dome light.

GENERATOR START/STOP SWITCH AND AC TRANSFER SWITCH



On any 280 model with a generator option, there is a start/stop switch and a transfer switch. These switches are located in the cabin on the wire cover box.

START/STOP SWITCH

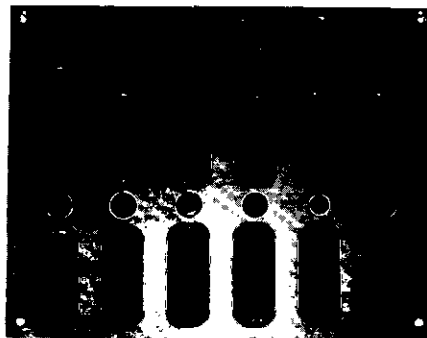
The start/stop switch permits you to start and stop your generator from the cabin. Note that there is another start/stop switch on the generator itself.

AC TRANSFER SWITCH

The transfer switch permits you to operate your AC accessories by shore power or by generator, and prohibits the operation of shore power and generator simultaneously.

CAUTION: The generator has limited output capabilities. With 3000 watts of generator power available, you will usually be able to use three of the five factory installed AC accessories at the same time without overloading the generator system (see wattage requirements below). Even if the combined wattage is greater than 3000 watts, remember that these are maximum values and that the full amount will not necessarily be used all at once.

Electric stove	1100 Watts
Microwave	1030 Watts
Hot water heater	1250 Watts
Air Conditioner	897 Watts - Running load 1497 Watts - Start-up
Battery charger	600 Watts

SWITCH PANEL

At the helm station you will find an accessory switch panel. Accessory switches are noted below.

COCKPIT LIGHTS

The cockpit lights, located in the cockpit area, are standard.

NAVIGATIONAL/ANCHOR LIGHTS

Your yacht is equipped with lights that meet international lighting regulations. The three position switch (NAV-OFF-ANCHOR) changes the lighting configuration to running lights or anchor lights. Note that this switch operates the gauge lights.

LIVEWELL WASH

The saltwater washdown system is standard.

LIVEWELL

The livewell system is standard. Note that the washdown pump may be used as a backup for the livewell pump in the event of pump failure. Refer to the drawing of the livewell/washdown system on page 59 of this manual.

HORN

The horn is standard.

WINDSHIELD WIPERS

The windshield wipers are standard.

BILGE PUMP

This 2-way switch serves as an overriding manual switch in case of failure of the automatic switch.

FUEL SWITCH

The 3-position switch (MAIN-OFF-AUX) gives you separate fuel quantity readings for each tank.

PRIMER PUMP SWITCH

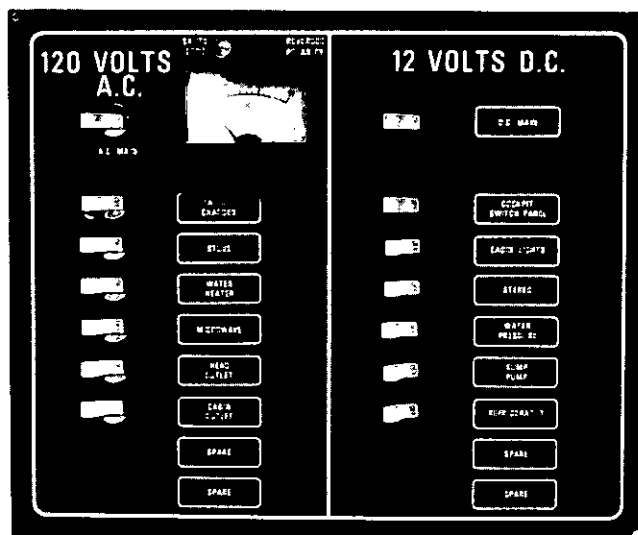
The primer pumps should be activated at the initial "start-up" time. The "up" position is for the starboard engine and the "down" position is for the port engine. Pumps should be left on until you hear them stop.

ACCESSORY

Switches labeled "Accessory" are blank switches that are available for non-factory installed accessories. In addition, fuses labeled "Accessory" are blank fuses that are available for non-factory installed accessories.

NOTE: See the ELECTRICAL SYSTEMS section (page 48) for recommended fuse amperages. Switch identification labels are available from your dealer for non-factory installed options.

AC/DC PANEL



Your AC/DC panel is located on the starboard main bulkhead in the cabin. AC powered auxiliary switches are noted below. The dockside power must be hooked to shore and the 30 AMP circuit breaker must be on for these switches to operate. The circuit breaker is located under the starboard gunwale just forward of the hookup.

AC POWERED AUXILIARY SWITCHES

MAIN POWER SWITCH

The main power switch must be in the "on" position in order to operate the auxiliary switches.

BATTERY CHARGER SWITCH

The 40 AMP battery charger is standard. A red light will shine when the battery charger is operating. Refer to the manufacturer's owner's manual for more information.

STOVE

The alcohol/electric stove is standard. Refer to the manufacturer's operator's manual for operating and safety instructions. CAREFULLY READ AND UNDERSTAND INSTRUCTIONS BEFORE OPERATING YOUR STOVE.

WATER HEATER SWITCH

The six gallon water heater is standard.

CAUTION! TO AVOID HEATING ELEMENT FAILURE, DO NOT TURN ON THE HOT WATER HEATER UNLESS IT IS FILLED WITH WATER.

MICROWAVE

The microwave is standard. An outlet has been designated for microwave use only. Read all instructions in the manufacturer's operating instructions manual before operating your microwave.

HEAD OUTLET SWITCH

The ground fault head outlet is standard. It is a dual element outlet and is equipped with a cover plate. See the diagram on page 52 for outlet locations and wiring specifications.

CABIN OUTLETS SWITCH

The two cabin outlets are standard. One outlet is designated for the microwave. The other outlet is ground fault and is located under the steps in the cabin. See the diagram on page 52 for outlet locations and wiring specifications.

DC POWERED AUXILIARY SWITCHES**MAIN POWER SWITCH**

The main power switch must be in the "on" position in order to operate the DC auxiliary switches.

COCKPIT SWITCH PANEL

This switch powers the auxiliary switches at the helm accessory panel.

CABIN LIGHTS

This switch activates the two dome lights and the four reading lights located in the cabin.

STEREO

The stereo is standard. See the wiring diagram on page 54.

WATER PRESSURE SWITCH

This switch activates the pressurized fresh water system for the galley, the head, and the cockpit rigging station.

SHOWER SUMP PUMP

The shower sump pump removes water from the shower floor. This unit is located under the cabin sole hatch.

REFRIGERATOR

The refrigerator is standard. Refer to the manufacturer's owner's manual for more information.

AIR CONDITIONER

The air conditioning system is optional. This system must be winterized if below freezing temperatures are possible. Refer to the manufacturer's owner's manual for instructions.

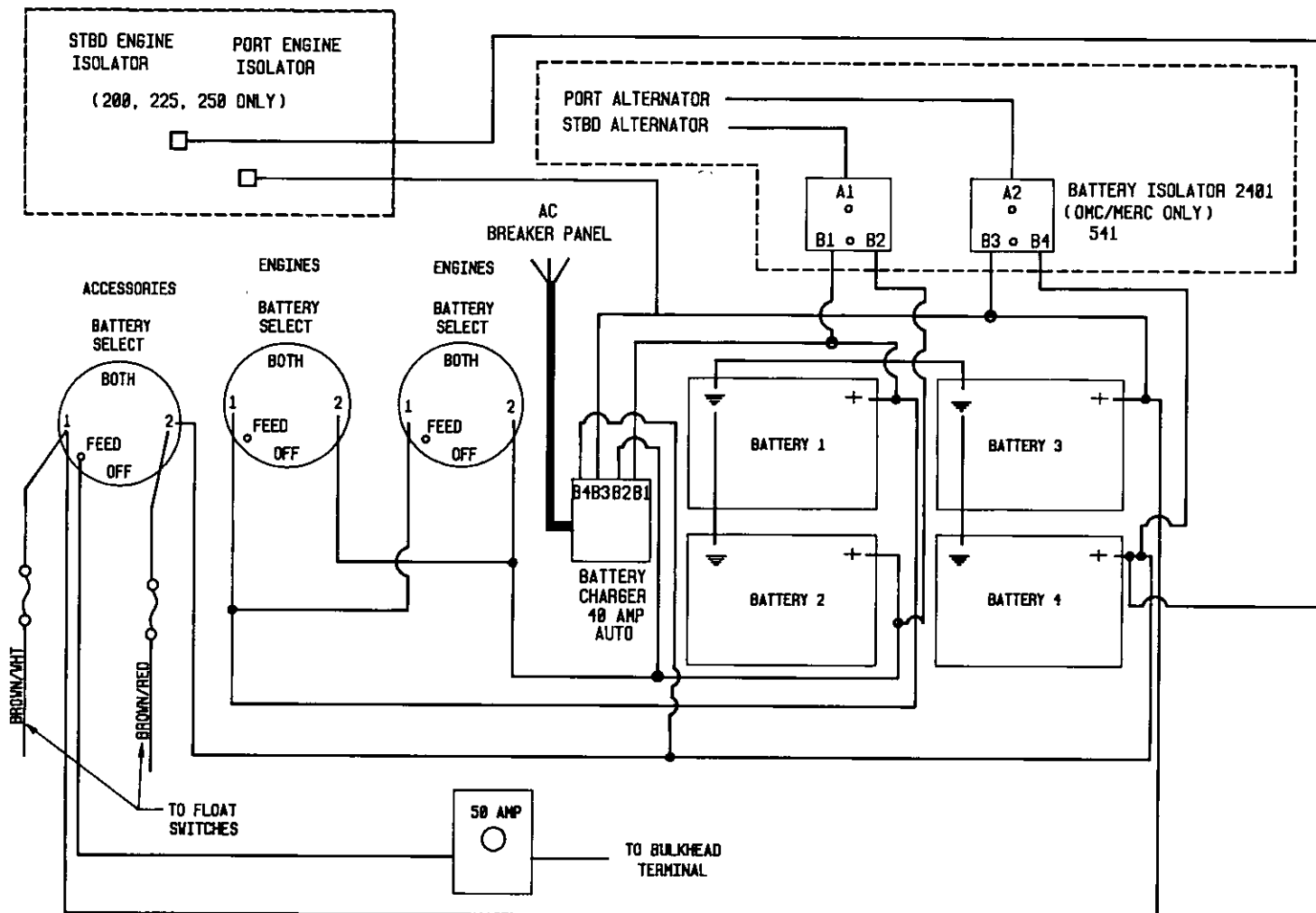
NOTE: The breakers located in the AC/DC panel use the same style switch for both AC and DC applications. Switches should always have the same ampere rating as the switch they are replacing.

BATTERY SELECT SWITCH

The battery select switches for the engines allow independent selection of either of the two batteries, both batteries, or neither of the batteries (disconnected). Operating with the engine battery select switches in the "BOTH" position is not recommended. The battery select switch for the accessories allows independent selection of either of the accessory batteries, both batteries, or neither of the batteries.

The engine battery select switches are wired so that in an emergency situation the engines can be started by either battery 1 or battery 2 by setting the engine select switches in position 1 or position 2.

280 OMC/MERC and 200/225/250 Yamaha Battery Select Wiring Diagram



SECTION C: MECHANICAL CONTROLS

HYDRAULIC STEERING

TILT STEERING

Tilt steering is available as an option in conjunction with hydraulic steering. This feature enables the operator to tilt the wheel up or down. Refer to steering system's owner's manual for information on oil levels with Tilt steering.

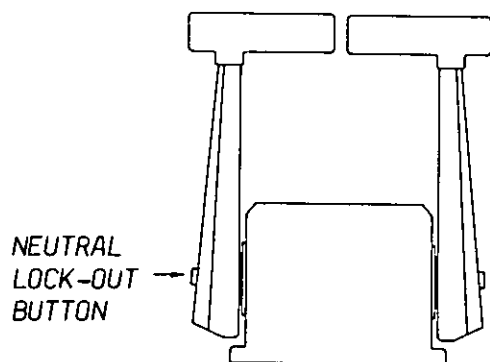
THROTTLE/SHIFT CONTROL

The throttle/shift control, located at the helm station, controls the flow of fuel to the engine and acts as a gear shift lever to control the forward and aft thrust of the propeller.

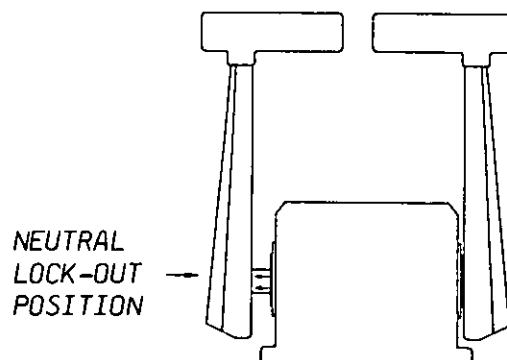
The vertical position of the throttle control is normally the neutral position. Move the control forward to engage the shifting mechanism, which creates a forward thrust of the propeller. Increase the forward movement to increase the fuel flow to the engine and increase the forward thrust.

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.

All controls have a safety mechanism that does not allow the engine to start when the control is in gear. In order to increase the flow of fuel to the engine while remaining in the neutral position, you may use the neutral lock out button in the control handle.



FOR MERCURY AND
YAMAHA ENGINES



FOR OMC ENGINES

You may reverse the shift mechanism in order to provide a "braking action", slowing the boat. This braking action causes a following wake which may rise above the transom and flood the boat if the boat is moving at too great a speed, so exercise caution. Propellers are designed for maximum forward thrust, so reverse thrust will not be as efficient.

CAUTION: ALLOW ENGINE RPM'S TO DECREASE BEFORE SHIFTING INTO REVERSE.

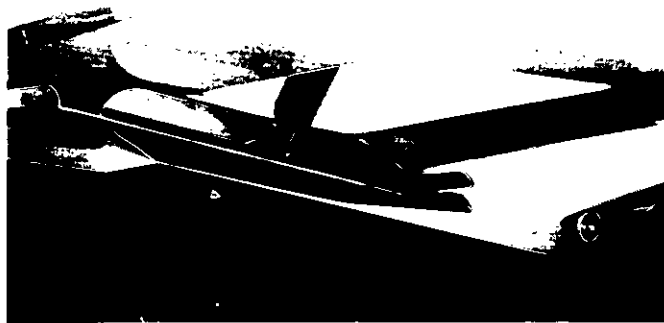
The control head at the helm should be cleaned and kept free of corrosion. Periodically check the mounting for loose screws. Also check the cable conduit for cracks, abrasions, or kinked or bent cable. See your dealer to replace damaged cable.

The cable ends and cable fittings should be checked periodically for loose brackets, corrosion, and loose, worn, or damaged fittings. Replace worn or damaged parts. Cable ends, fittings, and the control mechanism may be sprayed with a moisture-displacing lubricant. If your control has "quick disconnect" fittings, inspect the springs for corrosion. Should your throttle or shift cables need replacing, the data sheet at the front of this manual will indicate the lengths required.

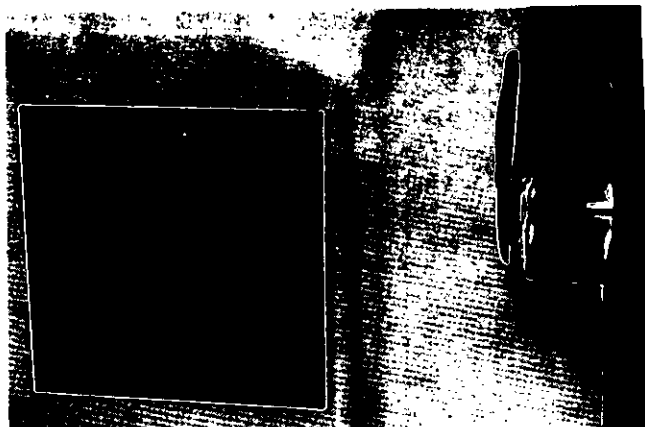
Many throttle controls are equipped with trim buttons in the handle. Refer to the PERFORMANCE section (page 34) for instructions on trim.

TRIM TABS

Trim tabs (shown below) are electrically-hydraulically operated and used to regulate the attitude of the boat while moving. They may also be used to adjust the boat's running angle in adverse seas or to compensate for unusual load conditions.



The trim tabs are operated by a two rocker switch panel and will aid in trimming the boat fore and aft for a smoother ride.



The switches are marked "bow down". Trim tabs in the extreme bow up positions will have no effect on the boat's 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, softening the ride. Experimentation with your 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 listing from side to side under varying weight conditions. Usually the list can be corrected by pushing the "bow down" switch position on the higher side. This will tend to lower the bow by pulling the high side to a level position. If your bow is already in a low position, you may correct list by pressing the lower switch position on the lower side. This will cause the low side to rise and level the boat. It will also gradually improve the running angle.

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 in order to avoid "plowing" water. With the tabs in the "bow down" position, you will be able to maintain a plane at the least possible RPM's.

When running in a following sea, the best performance is obtained with the tabs in the "bow up" position.

TRIM TAB PUMP LOCATION

The Trim Tab pump is located in the transom wall on the starboard inboard stringer. It is accessible through the aft rigging compartment door located on the aft cockpit wall or through the inspection plate in the motorwell. If removal or servicing of the pump is necessary, the most convenient method is to remove the motorwell lid.

NOTE: If motorwell lid is removed, it must be resealed with a marine grade silicone sealer.

TROUBLE SHOOTING

ENGINE CONTROL	
<p>SYMPTOM Engine starter does not engage when lever is in neutral position.</p>	<p>CHECK POINTS</p> <ol style="list-style-type: none"> 1. Neutral start switch not adjusted properly. 2. Neutral start switch is malfunctioning or stuck. 3. Dead battery or loose electrical connection. 4. Engine fuse. 5. Emergency kill switch engaged.
<p>Control becomes stiff, unusually hard to operate, jerky, or erratic.</p>	<ol style="list-style-type: none"> 1. Control cables are crushed, kinked or bent too sharply. 2. Cables are corroded at ends or are clogged internally. 3. Engine shift or throttle linkage not working properly. 4. Remote control mechanism is defective, faulty, or has been damaged internally. 5. Foreign objects interfering with throttle or shift mechanism at either control head or engine.
<p>Throttle and shift does not respond properly to control hand lever.</p>	<ol style="list-style-type: none"> 1. Cable ends and connection fitting not properly secured at the engine or control head. 2. Wear in the control mechanism or excessive backlash caused by too many bends in the push-pull cables conduit. 3. Control system not properly adjusted.
<p>Engine starter engages when remote control hand lever is in forward or reverse.</p>	<ol style="list-style-type: none"> 1. Neutral start switch not properly adjusted. 2. Neutral start switch malfunctioning or stuck in "closed" position. 3. Faulty wiring.

SECTION D: BOAT OPERATION

FUELING

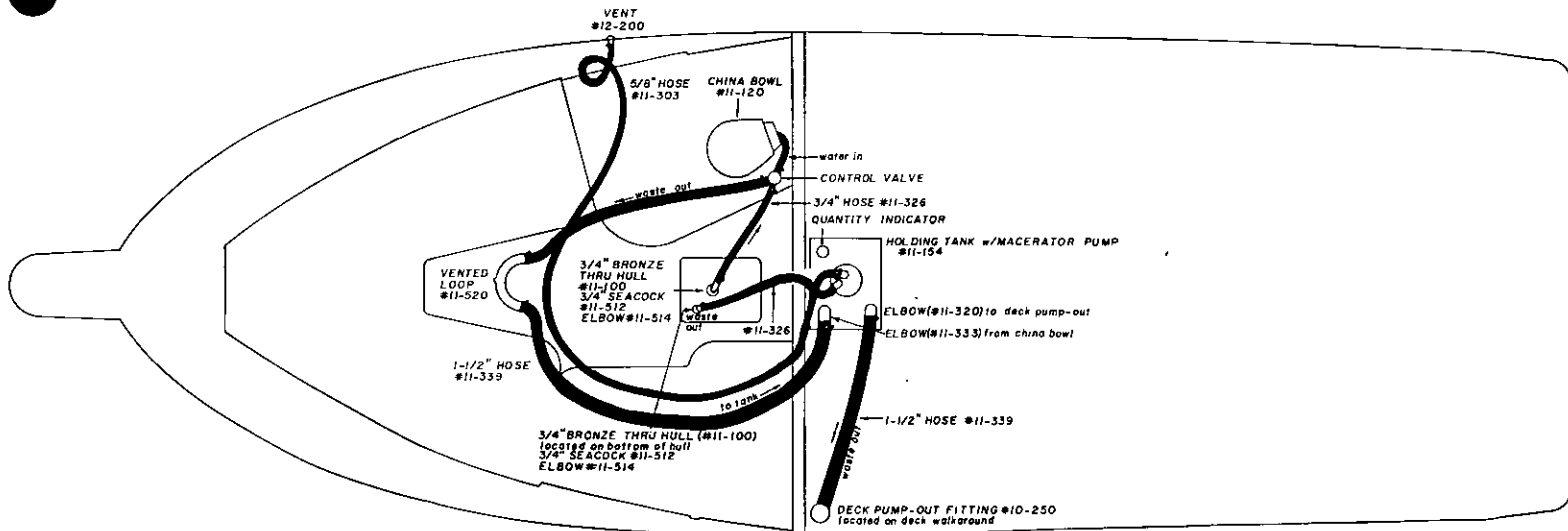
Safety during fueling requires common sense and caution. Please study the following procedure carefully, and ask your dealer if there is doubt about any procedure.

1. Check your engine owner's manual to make sure that you only take on the type of fuel specified by the manufacturer. Do not use gasoline containing alcohol. Always check the engine manual for the recommended type of oil and fill the oil tank completely.
2. Close all ports, hatches, windows, and engine compartments before fueling, to prevent gasoline fumes from accumulating.
3. Stop all engines, motors, and fans (including bilge pump), and turn off lights before fueling.
4. Extinguish all cigarettes and other lighted materials.
5. Constantly observe fuel flow to prevent overflow or spillage.
6. After fueling, wash and clean any areas with spilled fuel. Dispose of any rags, sponges, etc. used for cleaning. Do not carry these items on board.
7. After securing the fuel cap, ventilate all ports, windows, hatches, engine compartments, and closed areas.
8. Make sure gasoline was not spilled into the bilge.
9. Dual fuel tank installations utilize a manual switching valve for tank selection, located in the port side aft compartment. Select your first tank carefully, taking into consideration the distribution of your load as fuel is consumed. Performance will be affected by the type of engine and weight distribution.
10. On any model with a generator option, the fuel tank compartment is sealed with a removable compartment drain. This drain is located on the starboard side of the keel line drain tube in the aft bilge compartment. This plug should be removed periodically to drain any water accumulated in this area.
11. Avoid an empty fuel tank, even during storage, as condensation can develop and result in water in your fuel system.

HEAD OPERATING SYSTEM

Follow these instructions for operating the marine head flush knob:

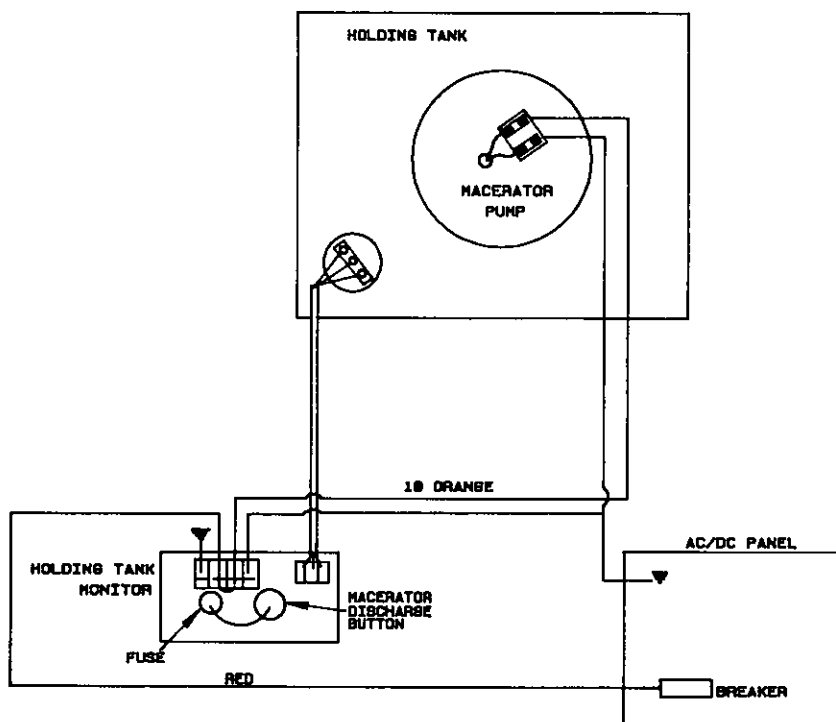
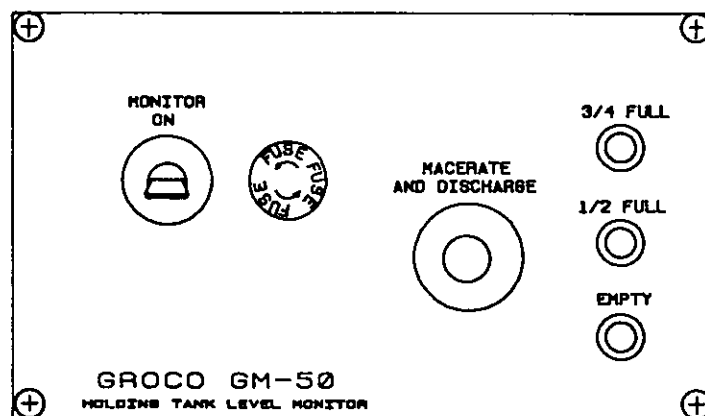
1. Make sure the water inlet seacock, located on the starboard side of the forward bilge, is open (the seacock handle should be in the vertical position).
2. To fill the toilet with water, pull the valve handle (located on the right hand side of the toilet) to the vertical position and pump the knob two or three times.
3. To flush the toilet, first leave the valve handle open in the vertical position and pump the knob two or three times to allow more water into the toilet. The toilet should then be flushed dry by closing the valve handle (returning it to the horizontal position) and pumping the knob until all the water is removed from the toilet bowl. The toilet should be left in the "flush dry" position when not in use.
4. If the boat is moored and unoccupied, the water inlet seacock should be closed (the seacock handle should be in the horizontal position).



PLUMBING

HEAD DISCHARGE BUTTON

To discharge the holding tank overboard, open the overboard seacock near the holding tank. Turn the monitor on at the control panel. Note that the monitor switch must be on in order to operate the discharge button. Press the discharge button until lights on the control panel indicate the tank is empty. After emptying the holding tank, the water inlet seacock handle should be closed (the seacock handle should be in the horizontal position). **IMPORTANT!** Overboard discharge must be sealed and secured in the closed position within the required offshore limits. Consult local authorities concerning specific regulations and how they may apply to your area.



WIRING

PROPELLER

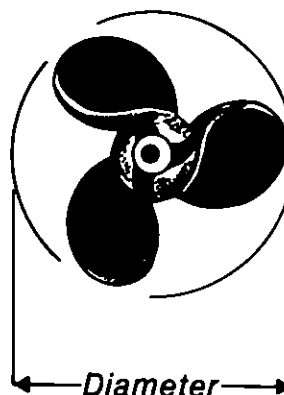
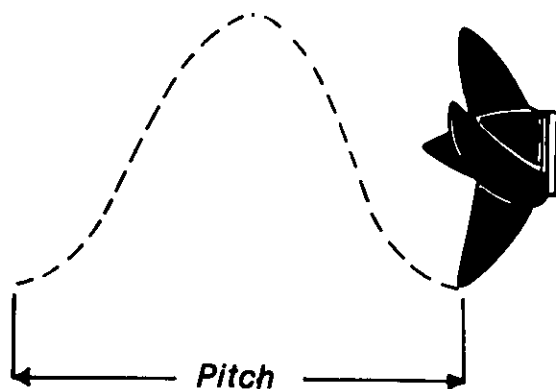
The condition of your propeller is a major influence on the performance of your boat. Your engine is equipped with the best size propeller for normal conditions. If you have unusual uses or weight conditions, you may require different propellers for different applications.

It is advisable to keep an extra propeller on board. A damaged propeller can affect your boat's top speed, cause vibrations or a sudden drop in RPM's, or increase your fuel consumption.

CAUTION: When replacing propellers, make sure you stay within the engine manufacturer's maximum and minimum RPM ranges. This information is printed in your engine owner's manual.

Cavitation occurs in all propeller driven boats under certain conditions. It is easily recognized by sudden increases in RPM's (revving) or a sudden drop in speed. This occurs when cavities, or air pockets, form around the propeller.

Cavitation is influenced by propeller design, speed, placement, and even water temperature. In most cases, a change in the drive angle (trim) will correct the problem. If the problem persists, you will need to experiment with different size propellers.



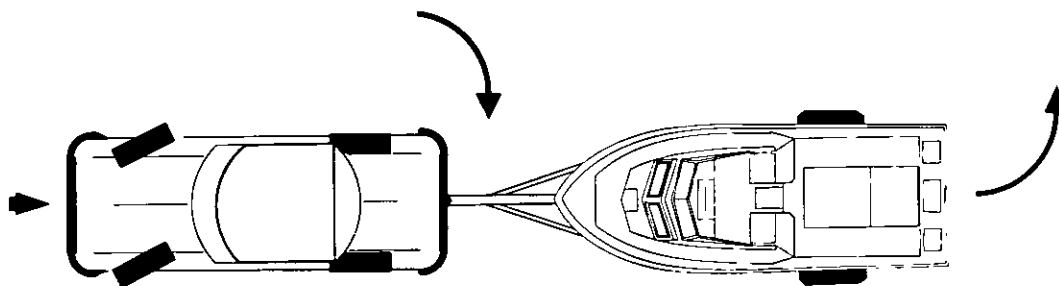
TRAILERING

The first time you take your new rig out on the road, take time to learn the driving characteristics by testing the acceleration, slowing, and stopping capabilities. Experiment in light traffic before attempting to tow at highway speeds.

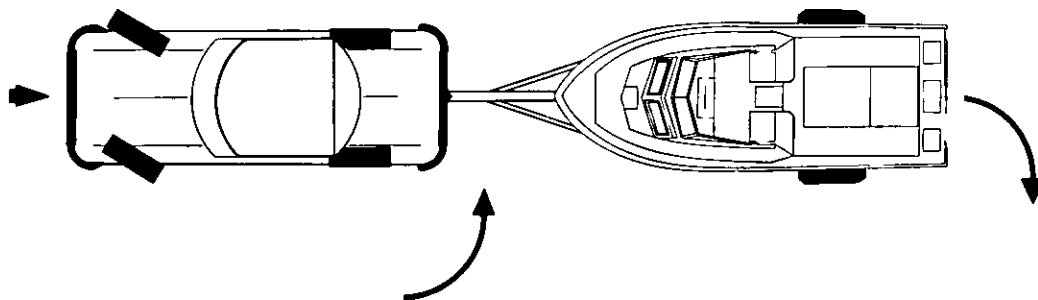
NOTE: Remember to test your trailer's braking system if it is so equipped.

Check the following prior to trailering your boat:

1. Hitch is tight and secure.
2. All nuts and bolts are securely tightened and the safety chain properly secured.
3. Winchlocks and tilt mechanism in correct positions.
4. Tires are properly inflated and in good condition (including spare).
5. Signal, stop, and other lights operating properly.
6. Gear on boat is properly secured for travel.
7. Tie down straps are secure.
8. Wheel bearings properly greased (each year).
9. All cabin windows and doors secured.
10. All canvas tops and side curtains are taken down and secured to prevent damage or loss in transit.
11. All lines are properly secured.
12. Mooring cover removed. (Damage to canvas during transit is not covered in warranty).



BACKING TO RIGHT



BACKING TO LEFT

One rule we always observe at Grady-White is the "30 mile check". Each time you trailer your boat, you should stop and check your rig after 30 miles of running. Be sure to check your trailer hitch, safety chains, tie downs, turn signals, brake lights, tire pressure (build-up is normal because of heat), and wheel bearings. Some warmth in your wheel bearings is expected, but if they are hot to the touch, there may be a problem. Let them cool and drive slowly to a service station for inspection.

The adjustment and balance of your boat on your trailer largely determines the trailerability of your boat. Swaying while trailering is usually caused by a tail-heavy load. A rule of thumb is that the tongue weight on the hitch ball should be between 5-10% of the total weight of your boat, motor, and trailer. 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 section. Your dealer should be responsible for adjusting your trailer properly.

LAUNCHING

Prior to initial launch, familiarize yourself with this manual and all aspects of your boat. At the launch, go through a pre-launch check list. The check list should be suited to your particular needs, but the following items should be included:

1. Study the boat ramp and check for hazardous conditions.
2. Make sure drain plug is in place.
3. Have a launch rope attached.
4. Have the proper safety equipment on board.
5. Make sure all seacocks are closed.
6. Tilt engine to "up" position.
7. Remove tie down strap.
8. Make sure engine drain and freeze plugs are closed.
9. Check wheel bearings to make sure they are cool.
10. Make sure trailer winch is locked before removal of the safety chains.
11. Make sure trailer hitch is locked.

After the pre-launch check, back your trailer slowly into the water, preferably keeping the axle hubs above water (unless your trailer is a submersible model). If your vehicle is 4-wheel drive, engage 4-wheel before backing onto the ramp. Set the hand brake of your car and place chocks under the rear wheels. Attach a bow line securely to the boat, release the winch cable, and give the boat a firm push. After the boat is clear of the trailer and secured to the dock, move the trailer to the parking area.

PRE-START CHECK LIST

Go through the following check list before starting your engine:

1. Check the bilge for excess water and leaks.
2. Turn on the bilge pump to remove any excess water, and leave the pump on stand-by.
3. Check oil tank level, battery cable connections, and electrolyte level.
4. Check steering for freedom of movement and tightness.
5. Check navigation lights.

STARTING

1. Lower the drive unit to the "down" position. Be sure the propeller is free of any obstruction.
2. Set the control lever in the neutral position.
3. Engage the neutral lock out button in the control handle and pump the control throttle forward 2 or 3 times.
4. Set control throttle slightly forward of straight up, and turn the ignition key to start.
5. Adjust the throttle to 1200 RPM's and check instruments. If the oil pressure gauge does not respond immediately, shut off the engine. If the oil pressure is normal, check the area again for fumes or leakage. Test steering response and throttle response at the dock.

PERFORMANCE

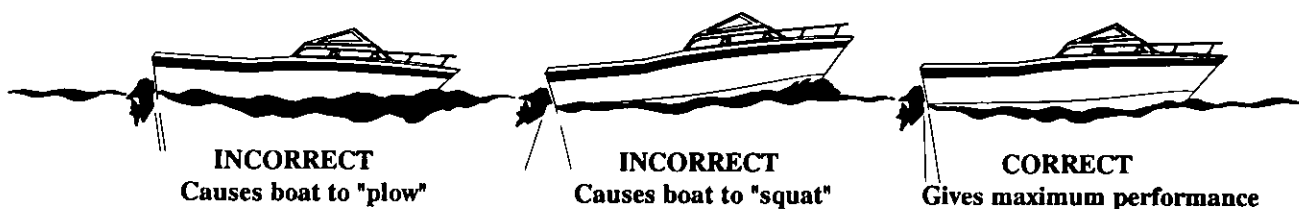
Keep your hull clean for maximum performance. Detailed recommendations for hull cleaning are included in the MAINTENANCE section (Section E, page 38).

Your outboard is equipped with power tilt and trim mechanisms. The purpose of the tilt is to raise the engine for launching, loading, or trailering your boat.

Trim refers to both the weight distributions inside the boat and to the angle of thrust of the drive unit. The proper weight distributions of passengers and gear can affect performance. The angle of thrust of the drive unit either forces the bow up or down. A drive unit trimmed too far in (forward) will cause the bow to nose downward or "plow". A drive unit trimmed too far out (aft) will cause the bow to ride too high. Adjust the trim so that the angle of thrust is parallel to the water at full throttle at a normal running attitude.

When the angle of thrust is too far out (aft), the engine noise may rise indicating that the propeller is cavitating. Adjust the engine trim in (forward) to correct the problem. The boat may also tend to "porpoise" in maximum bow up position as well. This can be corrected by adjusting the engine trim in and trimming the bow down.

(Example of trimmed boats)



For a smoother ride when running into heavy seas, the bow should be adjusted so that the entry point into the water is slightly forward of the helm location. When running in a following sea, the bow should be trimmed up higher to prevent the boat from plowing into the seas. As sea conditions change, experiment with the trim to find the best performance for your particular boat and load.

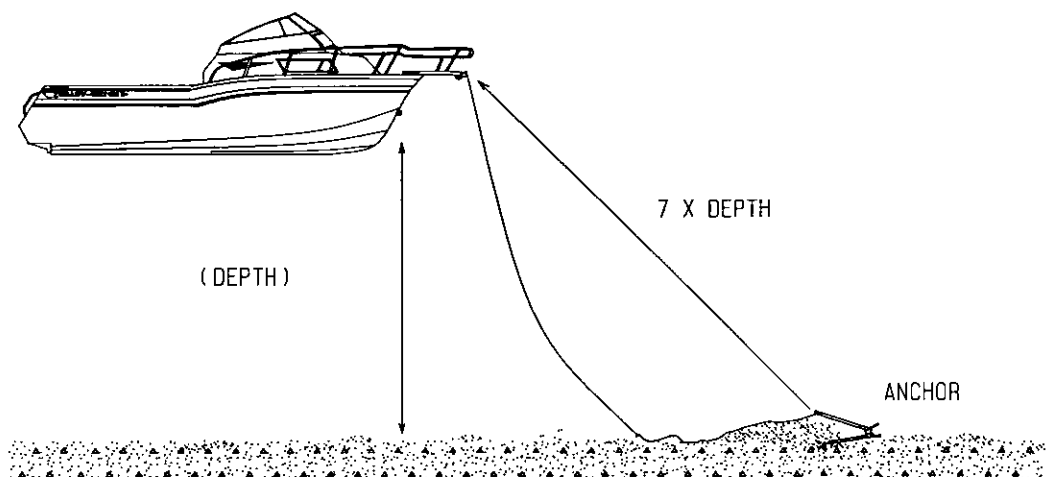
VERY IMPORTANT

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.

ANCHORING

The size of your boat along with the type of lake, sea, or river bottom in your boating area should determine the size and type of anchor. The recommended anchor line length is 4 to 7 times the depth of the water. In strong winds and currents, this length should be increased.

A 3 to 4 foot length of chain between the anchor and the anchor line will help prevent the line from chaffing on rough obstacles below the surface and will also help hold anchor flukes down for more secure anchoring.



To anchor, head the boat into the wind or current to stop forward motion. Make sure your anchor line is secured to a cleat and runs under the bow rail. Lower the anchor into the water until it reaches the bottom. Feed out anchor line slowly as the wind or current forces the boat backward, reversing engine if necessary. Before stopping engines, make sure anchor is secure.

To raise anchor, reverse the procedure by driving the boat slowly to the point directly above the anchor and pull straight up. If the anchor is difficult to raise, you may tie off the anchor line while directly over the anchor and slowly motor forward to "free" the anchor from the bottom.

Even while anchored, your boat will swing with the wind, so do not anchor close to other boats or objects. In addition, remember that it is illegal to tie your boat to navigational aids, such as buoys and markers.

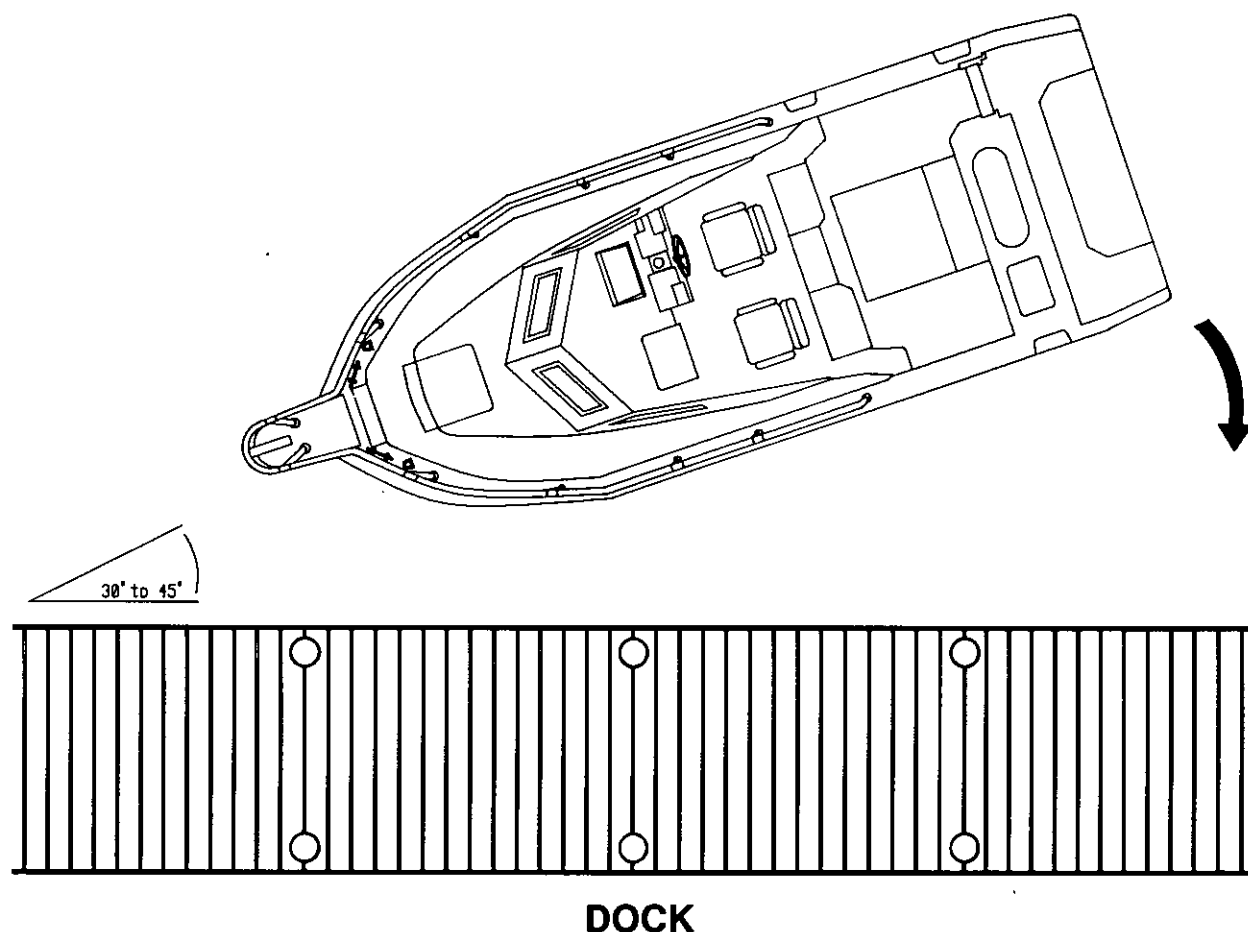
WARNING: Never anchor off the stern of the boat, especially in strong winds or currents. The weight of the stern and flat surface to the seas can easily cause water to enter over the transom, swamping the boat.

DOCKING

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. Before bringing your boat to the dock, consider the wind and how it may be used to your advantage. Approach the dock at a 30 to 45 degree angle at a slow speed. Before the bow reaches the dock, shift the engine to neutral, turn the steering wheel toward the dock, and shift the engine into reverse. The boat will slow and the stern will swing toward the dock.

Slowing and stopping your boat requires some practice. As you slow the throttle, the boat will slow down. The length of time to come to a complete stop will vary with wind and current. In addition, the judgment of distance and momentum on the water is a skill that improves greatly with practice.

When pulling away from the dock, push the stern clear of the dock to make sure you have enough room to maneuver. You can then ease away without bumping the stern against the dock.



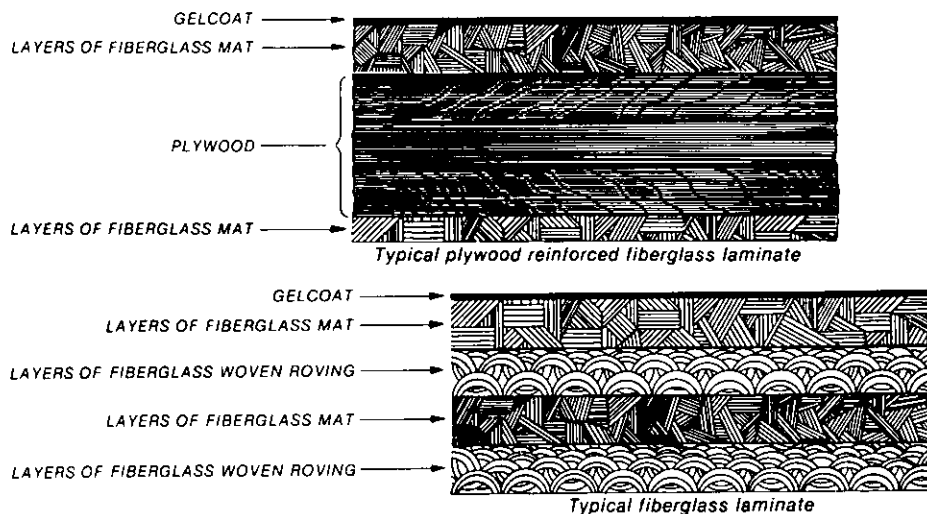
SECTION E: MAINTENANCE AND SERVICE

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 insures a proper fiberglass-to-resin ratio and a uniform thickness, which together result in a much stronger boat than those constructed of "chopped glass". This is an expensive process, but insures that your Grady-White is the strongest, most durable fiberglass boat possible.

Proper maintenance of your boat is not only a source of pride but is the key to maintaining your boat's value. A few simple steps will keep your fiberglass Grady-White looking showroom bright for years.

FIBERGLASS FINISH

The outer skin, or gelcoat, of your Grady-White is a thin layer of resin with a finished color pigment. It is an integral part of the hull laminate. This tough, durable outer layer makes routine maintenance relatively simple.



The gelcoat of your Grady-White is the finest available. The best method of routine upkeep is the same as maintaining the finish of an automobile. The best method of cleaning the boat is with a mild household detergent and plenty of fresh water. A coat of wax (either automobile or boat wax) will maintain the smooth, glossy finish and protect the boat's surface. Do not wax surfaces that may be walked on, as they will become quite slick.

Though gelcoat is a very durable material, it can still be subject to scratches, blistering, and spider web-like cracks (crazing) over years of use. It is elastic enough, however, to withstand strong blows while flexing with the hull's movement. Gelcoat problems are cosmetic and will not affect the structural integrity of your boat.

If you store your boat in the water for more than a few days at a time, the bottom of the boat below the waterline should be painted with anti-fouling paint to protect it from marine growth, barnacles, and blistering, which inhibit performance. Since anti-fouling paint slowly dissolves to prevent marine growth, inspection and cleaning of the boat bottom at least once per season is advisable. Repaint whenever necessary.

GELCOAT REPAIR

Many gelcoat imperfections can be repaired using the following procedure:

1. Obtain the original colored gelcoat from your dealer and a small amount of M.E.K. (catalyst), which when mixed with the gelcoat will cause it to harden. You may also wish to obtain acetone, which is the most suitable cleaning agent for gelcoat.

WARNING! M.E.K. (Methyl ethyl ketone peroxide), gelcoat, and acetone are flammable and hazardous if not handled properly. Follow instructions on the containers carefully. After gelcoat is catalyzed, it may become hot in the mixing container and catch on fire. Before disposal, submerge gelcoat in water until cool.

2. If the surface to be repaired is flat, lightly sand this surface (removing all glossy areas) so that the new gelcoat will adhere to the surface. If the area to be repaired is cracked, the crack should be routed out with a small instrument. Tape off all adjacent areas around the damaged area. Any crack extending past the gelcoat surface and into the fiberglass will need a more extensive repair. We suggest you consult your dealer for additional instructions.
3. A small amount of gelcoat should be tested with the catalyst before mixing the material for your repair. You will then be able to understand how the chemicals react. Pour approximately 1/2" of gelcoat into a small cup with approximately 1.5% M.E.K. (about 3 to 5 drops) and stir thoroughly. Spread a small amount of the mixture on a test surface and measure the time it takes to harden. Hardening time should be from 15 to 45 minutes. Too little M.E.K. will lengthen the hardening time. Too much M.E.K. will cause the patch to become rubbery and cure improperly. It is best to be under catalyzed. When you obtain the proper mixture in a test, you are ready to mix a new batch for actual repair, using the same ratio of M.E.K. to gelcoat.

4. Apply to the defective area using a small stick (a medical tongue depressor or popsicle stick works well). The mixture should be applied in a thin layer, bringing the patch up to the level of the original surface. Too much material will require extra sanding.
5. When the patch has hardened, any raised area should be sanded carefully with 220 grit sandpaper bringing it level with the original surface. As you approach the finished surface, use 400 or 600 grit sandpaper that has been dampened with water. The water will reduce scratching. Wrapping the sandpaper around a small block of wood will help keep the sanded area level.
6. Remove the tape around the patch and you will notice that it has a dull finish. Any good automotive buffing compound applied with a power buffer will bring a luster to the surface.

INTERIOR MAINTENANCE

Your interior vinyl upholstery may be cleaned with a mild solution of household detergent and fresh water. Commercially available cleaners for vinyl also work well. Be sure to follow the instructions on the label.

Your cabin cushions may be cleaned with upholstery cleaner or removed and dry cleaned. DO NOT MACHINE-WASH THESE FABRICS!

Since the seams of your upholstery are not water proof, your upholstery should be stored in the cabin or covered when not in use.

CANVAS

Follow these steps to maintain your boat's top and other canvas:

1. Dry all canvas before storing to prevent mildew.
2. Wash canvas periodically with a heavy-duty detergent and warm water. Do not use petroleum-based or ammonia cleaners on canvas or clear vinyl as they will yellow.
3. Lubricate the snap buttons and zippers with petroleum jelly or paraffin and they will be much easier to operate.

4. Clean clear vinyl thoroughly with denatured alcohol, and then apply a protective layer of clear wax. Do not use paste wax as it will turn vinyl yellow. This process should be repeated as necessary to maintain the protective wax coating.
5. The top, front, and side panels must be removed and rolled up for storage. This procedure is necessary to prevent the front and side vinyl pieces from cracking. NEVER FOLD THESE PIECES!
6. Never trailer your boat with the canvas up. All canvas should be stored and secured before trailering.

Though your Grady-White boat's canvas is made using the highest quality vinyl and latest sewing techniques, your boat's canvas will not be completely leak proof. The seam holes in your canvas may stretch and tend to leak water. However, you can correct much of this problem by rubbing paraffin over the seams.

Although your boat is equipped with canvas, remember that it is basically an "open" vessel.

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

TEAK

Teak is used in many Grady-Whites, because of it's beauty and it's need for little maintenance. Richly supplied with natural oils, teak weathers well. Without protection, however, the teak will weather after repeated exposure.

One of two things may be done to return the teak back to it's natural color. If your teak is slightly weathered, it may be cleaned with detergent or a commercial teak cleaner and then oiled with a lemon based furniture polish. If the teak is severely weathered, you may need to sand it down until all the gray is removed. Then rub in three or four coats of tung oil, allowing each coat to dry thoroughly.

Once your base coat is dry, all you need to do to protect your teak is apply the lemon-based furniture polish when cleaning your boat after each use.

DURATRIM

In the cockpit areas of your boat, duratrim is used for trim work. This material has an appearance similar to teak, but requires almost no maintenance. Maintenance of your duratrim should include regular cleaning with soapy water and an application of a surface protector, such as PENETROL®, once or twice per season. Never sand your duratrim!

HARDWARE

Even though your hardware is made of laboratory grade 316 stainless steel, it needs regular cleaning to maintain it's "less staining" properties. Use a mild solution of soap and water to clean your stainless after using your boat. If a stronger cleaner is needed, add a small amount of vinegar to the solution. Stains and discoloration may be removed with a non-abrasive metal cleaner.

You should NOT try to remove stainless steel stains with an acidic solution, such as a household cleaner. In fact, where acid rain is a problem, you should rinse your boat with fresh water after each rainfall.

The real key to maintaining your stainless steel is to keep it clean. Try to remove all salt or dirt from your stainless on a regular basis. Also, remember to rinse your hinges on baitwells and fishboxes regularly. In addition, to avoid sticking and rusting, hinges may need a small amount of penetrating oil.

HARDWARE MOUNTING

When drilling mounting holes in boat surfaces, be sure each hole is sealed properly. Sealing will prevent water leakage, which is especially important in fiberglass areas that have been reinforced with plywood. A hole sealed improperly allows water inside the fiberglass, which leads to saturation of the plywood reinforcement.

BATTERY

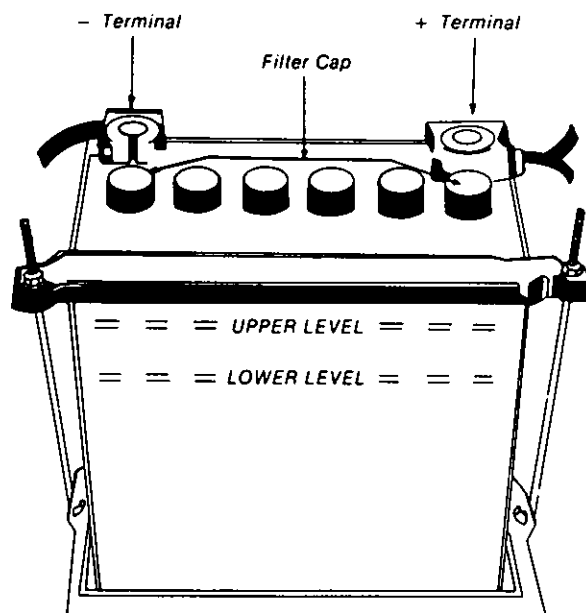
No matter what type of power your boat uses, your batteries are extremely important. They should be secured in a non-metallic tray to avoid electrolyte spills. Battery terminals should be covered by an insulated boot.

Check the fluid level in each battery cell at least once a month. Fill the battery to the upper level with distilled water as shown in the illustration below. Never overfill the batteries.

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. Be careful not to let any of the baking soda/water mixture enter the battery.

Check the battery each month when not in use by using a battery hydrometer, which measures the specific gravity. The meter should read between 1250 and 1280.

Never disconnect the battery when the engines are running as damage to the charging system could result.



The battery contains sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote: EXTERNAL — Flush with water. INTERNAL — Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Call physician immediately. Eyes: Flush with water and get prompt medical attention. Batteries produce explosive gases. Keep sparks, flame, cigarettes away. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries.

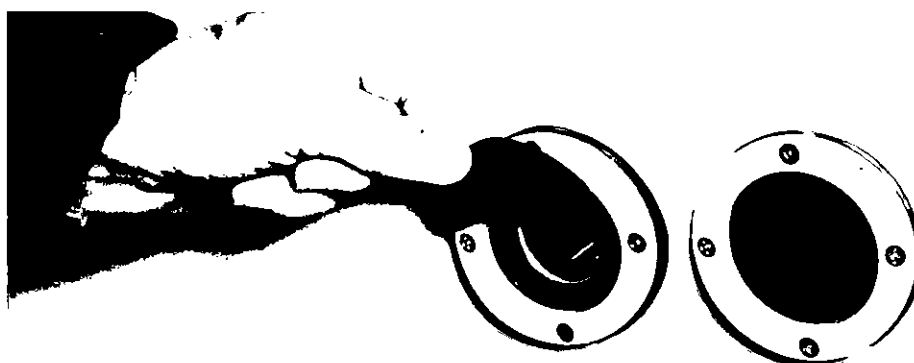
KEEP OUT OF REACH OF CHILDREN.

Remember when disconnecting and reconnecting battery cables that the black cable must be connected to the negative terminal, and the red cable must be connected to the positive terminal of the battery. Reversing this procedure will immediately damage your system.

SCUPPERS

Your Grady-White has a self-bailing cockpit, meaning that water on the cockpit floor drains through overboard drains, rather than into the bilge. The aft side of the drains (scuppers) and the stern drains have an external scupper flap assembly (as shown below), which restricts the flow of water back into the boat.

Inspect the flaps periodically to make sure they are free of debris. The scupper flaps will need periodic replacement.



RIGGING COMPARTMENTS

Your boat has a rigging compartment located aft of the gas tank compartments. This compartment is functional for rigging ignition protected pumps, transducer mounting pads, and for better access to rigging components located aft of this compartment.

WARNING! This compartment is NOT to be used for portable fuel tanks as this compartment does not have sufficient ventilation.

The rigging hatch and mounting screws must be sealed with silicone sealer after rigging is complete. If the lid is removed, it must be resealed to insure watertight integrity.

ENGINE

Your dealer should provide an outboard owner's manual to assist you with routine maintenance.

STEERING

HYDRAULIC

The 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 cause air to be introduced 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 steering system for oil leaks. An unchecked leak, in time, will result in unresponsive steering and/or possible loss of steering.

All moving mechanical linkages, sliders, etc. must be greased as needed with a high quality marine grease.

Refer to steering manufacturer's owner's manual for specification recommendations and additional maintenance requirements. If owner's manual is missing, contact the steering manufacturer for a copy.

NOTE: 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 an authorized dealer.

STORAGE

If your boat is out of use for the winter, special attention should be paid to areas that may be damaged by freezing temperatures. Even if you live in a warm climate, you should inspect your boat on an annual basis.

Use the following check list for winter storage:

1. There are detailed instructions in your engine owner's manual regarding the procedures for winterizing the engine. Follow these important instructions carefully and your engine should survive the most severe weather conditions.

2. 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 in addition to the anti-fouling paint. This debris will harden as it dries, so scrub the bottom immediately after the boat is removed from the water.
3. If you are storing your boat on a trailer or cradle, make sure that it fully supports the keel, chines and under the transom.
4. Raise and block the trailer axle to prevent tire deterioration. This is an excellent time to lubricate and pack the wheel bearings per manufacturer's instructions.
5. Remove the bilge drain plug and open all valves and seacocks to keep the bilge dry. Drain all tanks, water lines, and pumps to prevent freeze damage. If desired, the fresh water system may have a nontoxic antifreeze added. This antifreeze can be purchased at most marine dealerships or camping dealers. In warmer climates, draining will help prevent water stagnation. Store your boat with the bow elevated to help drainage.
6. If you are sure your fuel does not contain alcohol, keep your fuel tanks full during storage or periods of infrequent use to prevent condensation of water vapor and subsequent engine malfunction. Additives are also available to inhibit condensation. Fuels containing alcohol will absorb humidity, and the resulting condensation will separate from the fuel as the temperature drops during winter months, causing corrosion. Fuel tanks should be empty during storage if fuel contains alcohol. This is a good time to have your fuel filters changed, if they have not been changed recently.
7. Check the electrolyte level in your batteries and fully charge the batteries before storing. A strong battery loses its charge much more slowly than a weak battery. Ideally, you should disconnect the batteries and cover the terminals with some sort of grease to prevent corrosion. Store batteries in a cool, dry area on a wood board. Do not store batteries on concrete, because the cold, moist surface will drain batteries.
8. When possible, cabin cushions and other cushions should be taken indoors for dry storage to prevent mildew.

9. Pull all of your electronics and store them inside. Your compass should be covered for the winter, as ultraviolet rays from the sun will "cloud" the compass and make it difficult to read.
10. The head should have all water removed from the lines.

SECTION F: ELECTRICAL SYSTEMS**ACCESSORY WIRING COLOR CODE AND FUSE SIZES**

<u>ACCESSORY</u>	<u>WIRE SIZE AND COLOR</u>	<u>FUSE/ BREAKER</u>	<u>LOCATION</u>
Bow Light	16 Ga. Gray	15.0	Accessory Panel
Mast Light (forward bulb)	16 Ga. Gray/Red Stripe	15.0	Accessory Panel
Mast Light (aft bulb)	16 Ga. Gray/Black Stripe	15.0	Accessory Panel
Panel Lights	16 Ga. Dark Blue	15.0	Accessory Panel
Cabin Lights	16 Ga. Dark Blue	10.0	Fuse Block
Cockpit Lights	16 Ga. Dark Blue	10.0	Accessory Panel
Spreader Lights	16 Ga. Dark Blue/Wht Stripe	10.0	Accessory Panel
Bilge Pump (Forward):			
Rule 1500	16 Ga. Brown/Black Stripe	7.5	Accessory Panel
Auto Float Switch (forward)	16 Ga. Brown/Red Stripe in line		Near Battery
Bilge Pump (Aft):			
Rule 1500	16 Ga. Brown	7.5	Accessory Panel
Auto Float Switch (Aft)	16 Ga. Brown/White Stripe in line		Near Battery
Shower Sump Pump			
(float switch)	16 Ga. Brown/Orange Stripe	4.0	Fuse Block
Water Pressure Pump	12 Ga. Orange/Red Stripe	2.5	Fuse Block
Washdown & Livewell Pump	12 Ga. Orange/Brown Stripe	15.0	Accessory Panel
Bilge Blower	16 Ga. Yellow	10.0	Accessory Panel
Horn	12 Ga. Orange/White Stripe	15.0	Accessory Panel

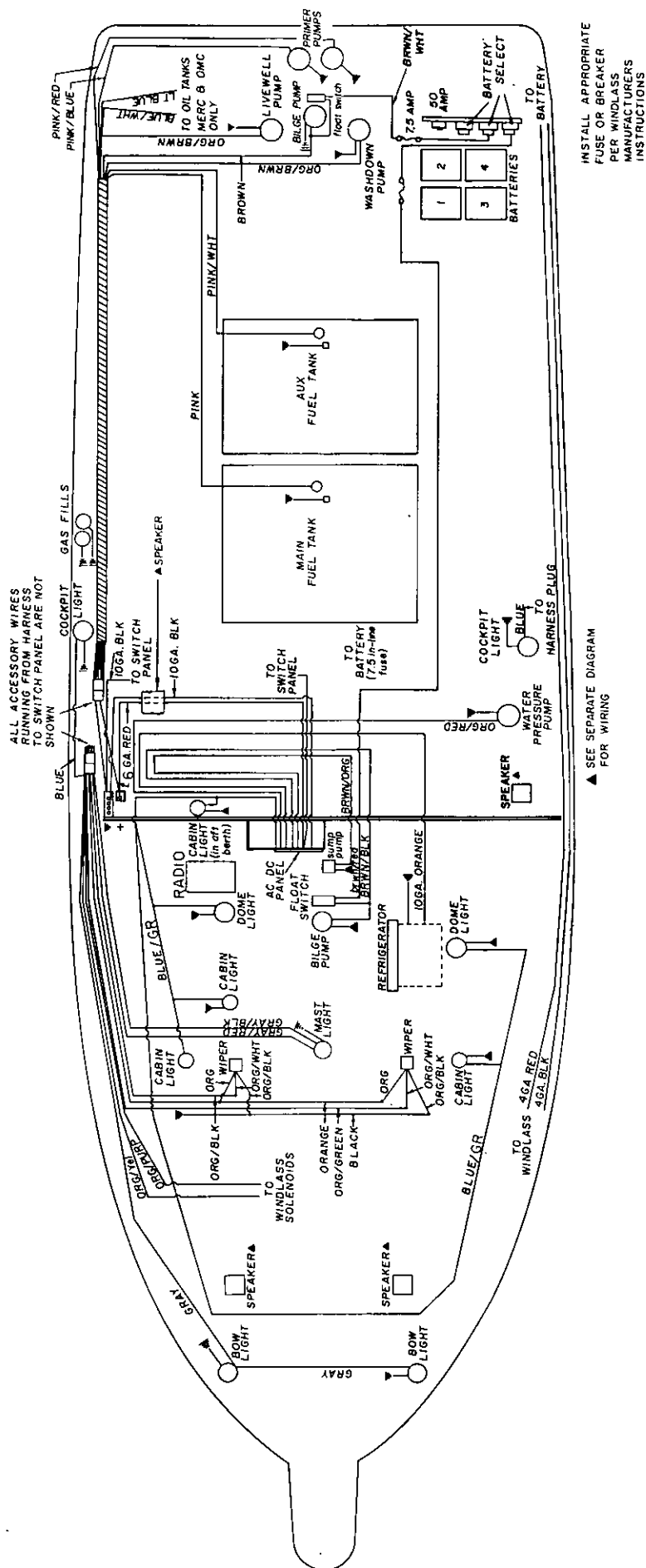
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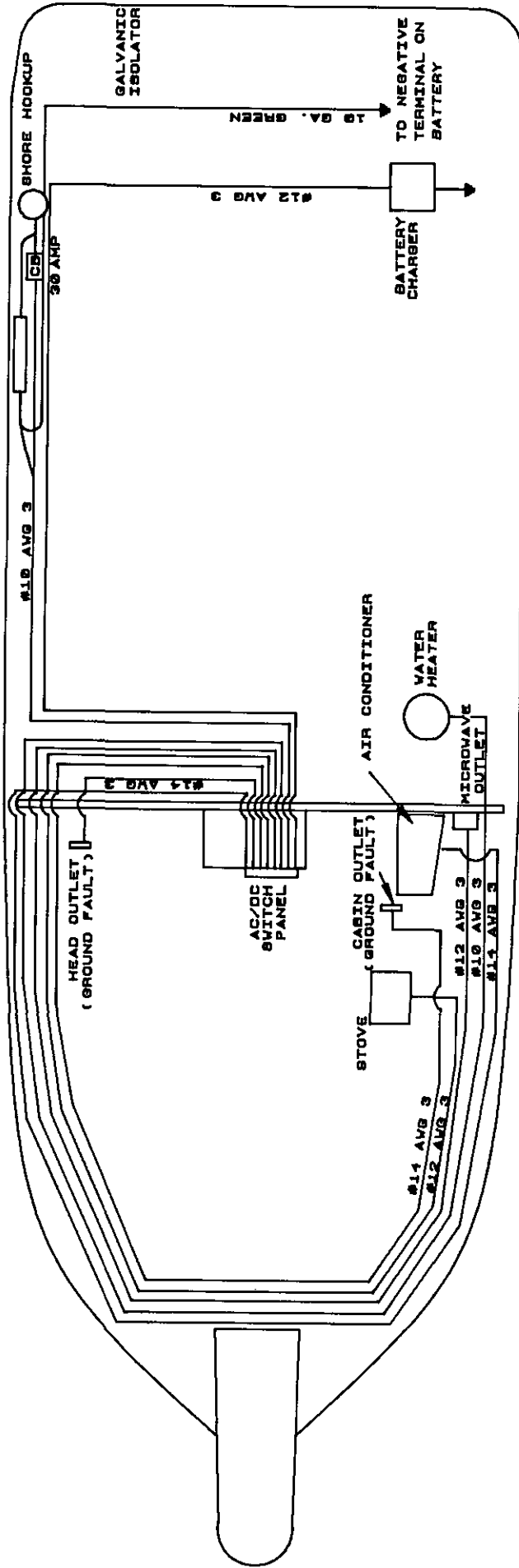
<u>ACCESSORY</u>	<u>WIRE SIZE AND COLOR</u>	<u>FUSE/ BREAKER</u>	<u>LOCATION</u>
Windshield Wiper (actuator)	16 Ga. Orange/Green Stripe	5.0	Accessory Panel
Port Starboard	16 Ga. Orange/Black Stripe	5.0	Accessory Panel
Windshield Wiper (position)	16 Ga. Orange		
Windlass Solenoids	14 Ga. Orange/Purple Stripe	*	Accessory Panel
	14 Ga. Orange/Yellow Stripe	*	Accessory Panel
Windlass Power Lead	4 Ga. Red	*	Near Battery
	4 Ga. Black	*	Near Battery
Accessory	16 Ga. Orange	10.0	Accessory Panel
Accessory Grounds (Ind)	16 Ga. Black	N/A	
Accessory Grounds Mains	10 Ga. Black	N/A	
Hydraulic Trim Tabs	16 Ga. Harness (Supplied)	20.0	Fuse Block
Main Fuel Tank (Sender)	16 Ga. Pink	2.0	Accessory Panel
Auxiliary Fuel Tank (Sender)	16 Ga. Pink/White Stripe	2.0	Accessory Panel
Accessory Panel Power Lead	10 Ga. Red circuit breaker	40.0	Near Battery
Ignition Switch Power Lead	10 Ga./16 Ga. Red in line	20.0	Ignition
Electric Primer Pump	16 Ga. Pnk/Red Stripe in line	5.0	Ignition
Trim Junction Box	10 Ga. Red in line	50.0	Near Battery
VHF (Hardtop Radio Box)	10 Ga. Red/White in line	20.0	Near Battery
**CO Monitor	16 Ga. Red/Black in line	1.0	Near Battery

*Refer to windlass manufacturer's recommended fuse and breader sizes.

**Standard only with generator option.



ACCESSORY WIRING DIAGRAM



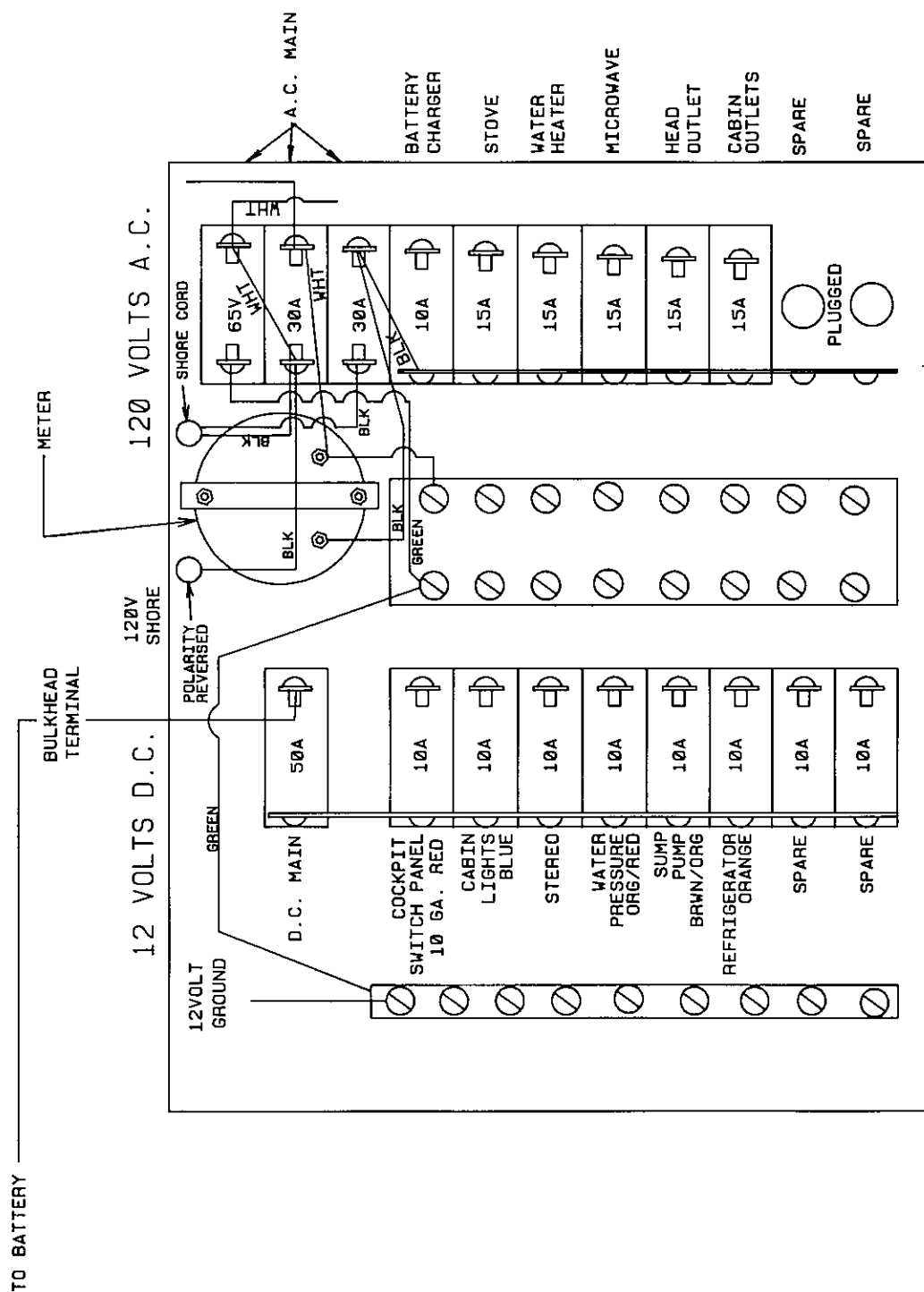
WARNING!

TO MINIMIZE SHOCK AND FIRE HAZARDS:

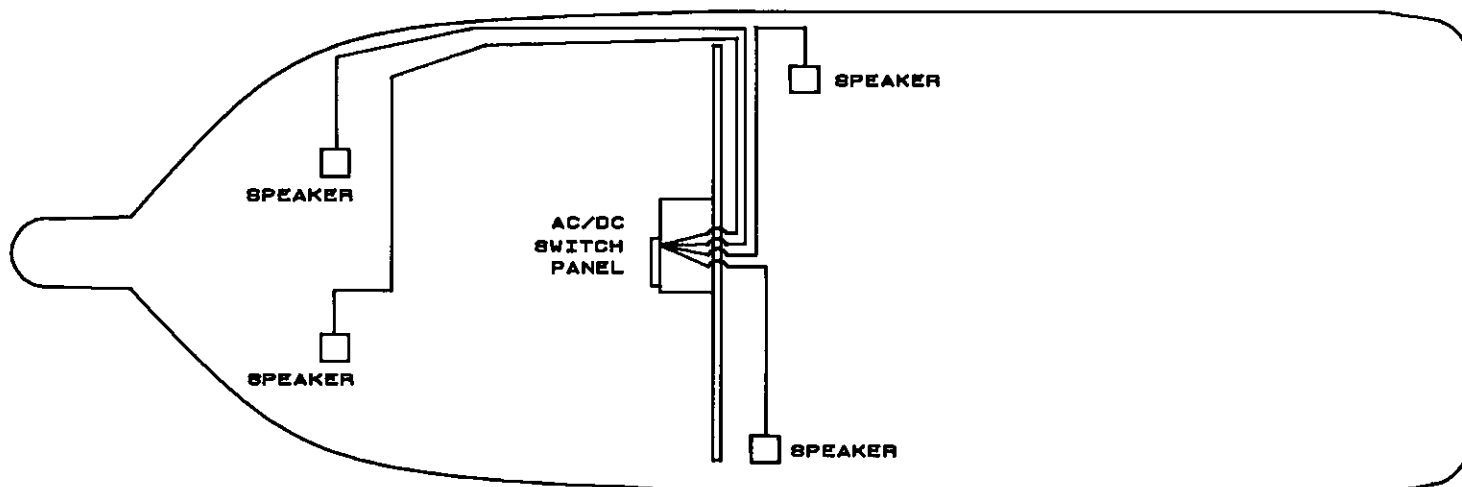
- (1) Turn off the boat's shore connection switch before connecting or disconnecting shore cable
- (2) Connect shore-power cable at the boat first.
- (3) Disconnect shore-power cable at shore-outlet first.
- (4) Close shore-power inlet cover tightly.

DO NOT ALTER SHORE POWER CABLE CONNECTORS.

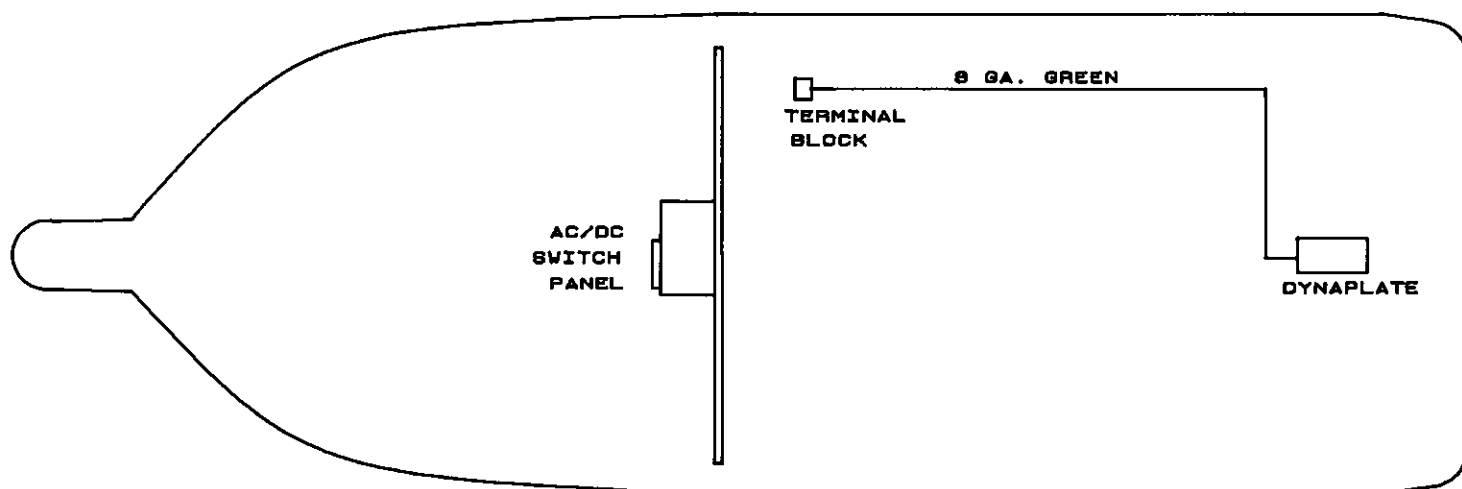
AC CURRENT WIRING DIAGRAM



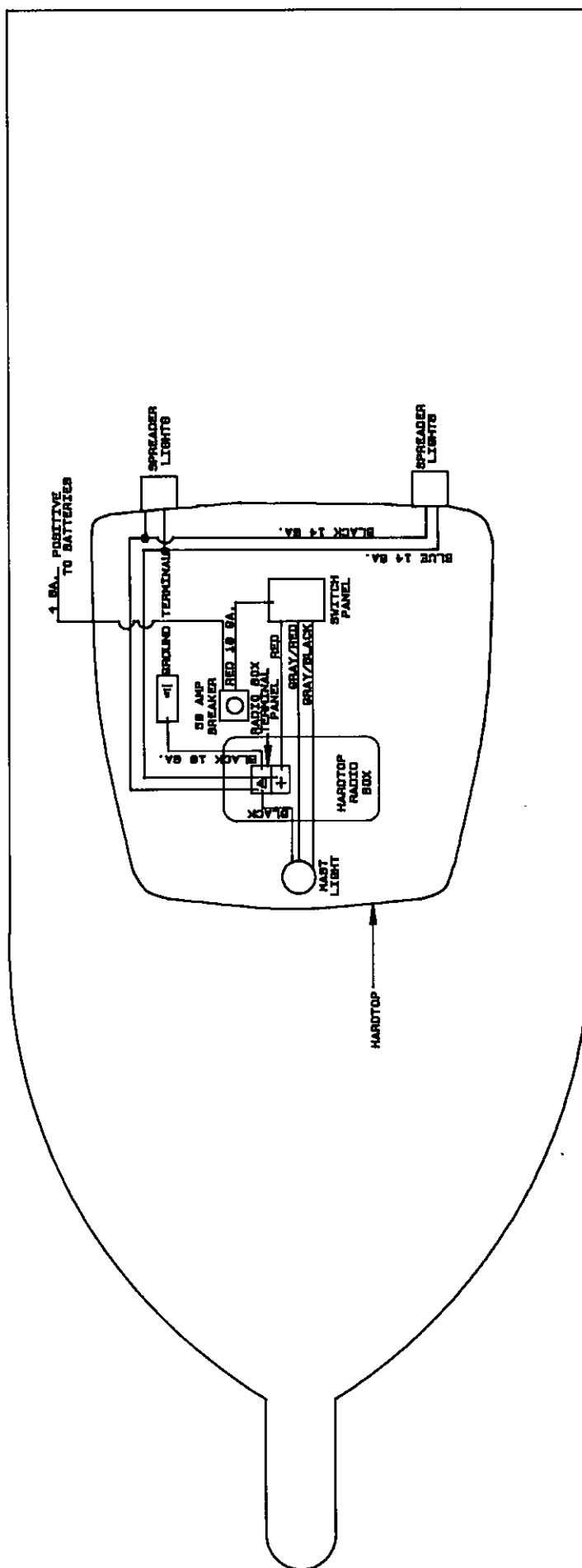
STEREO WIRING DIAGRAM AND DYNAPLATE WIRING DIAGRAM



STEREO WIRING DIAGRAM



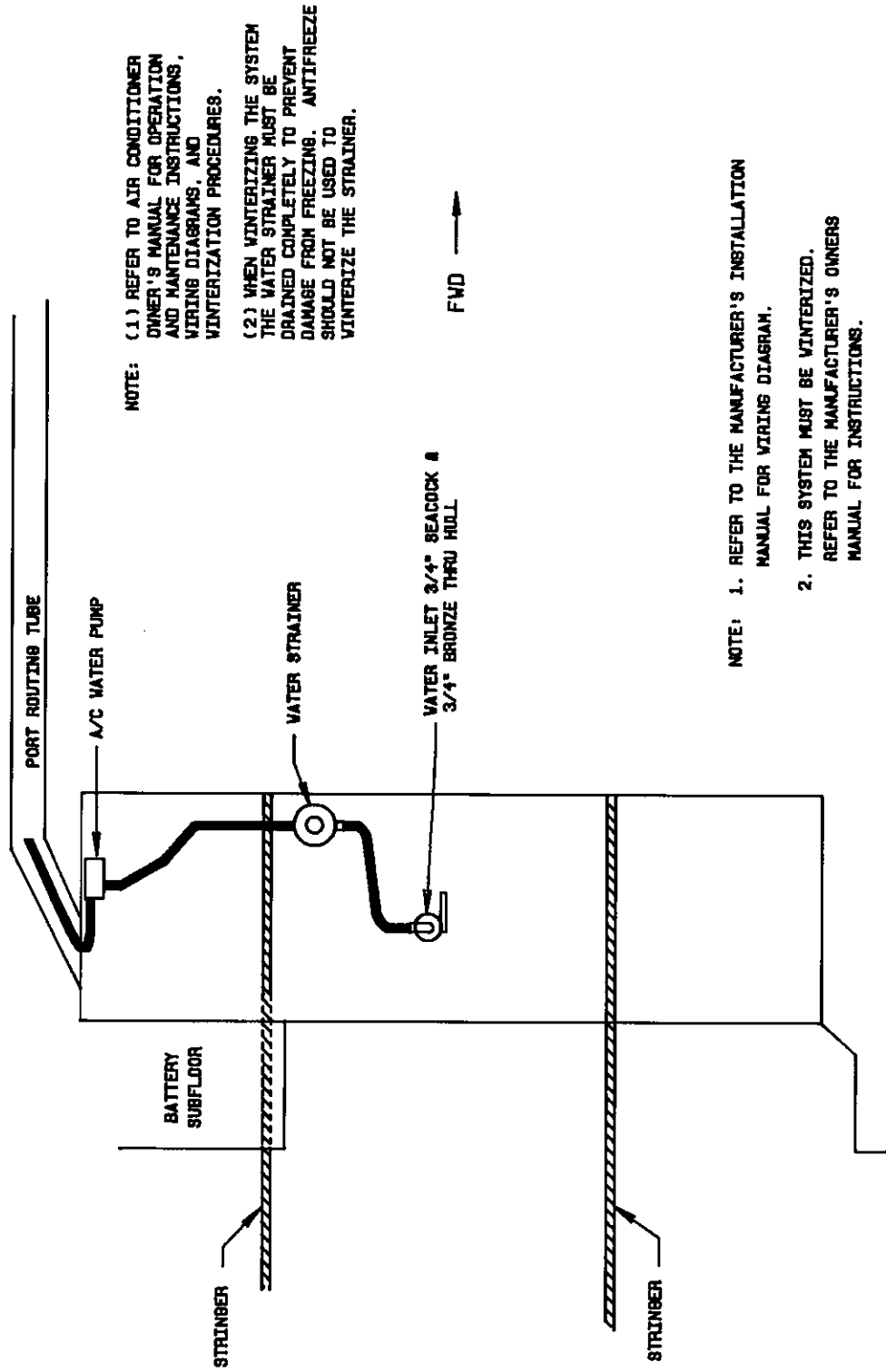
DYNAPLATE WIRING DIAGRAM



HARDTOP WIRING DIAGRAM

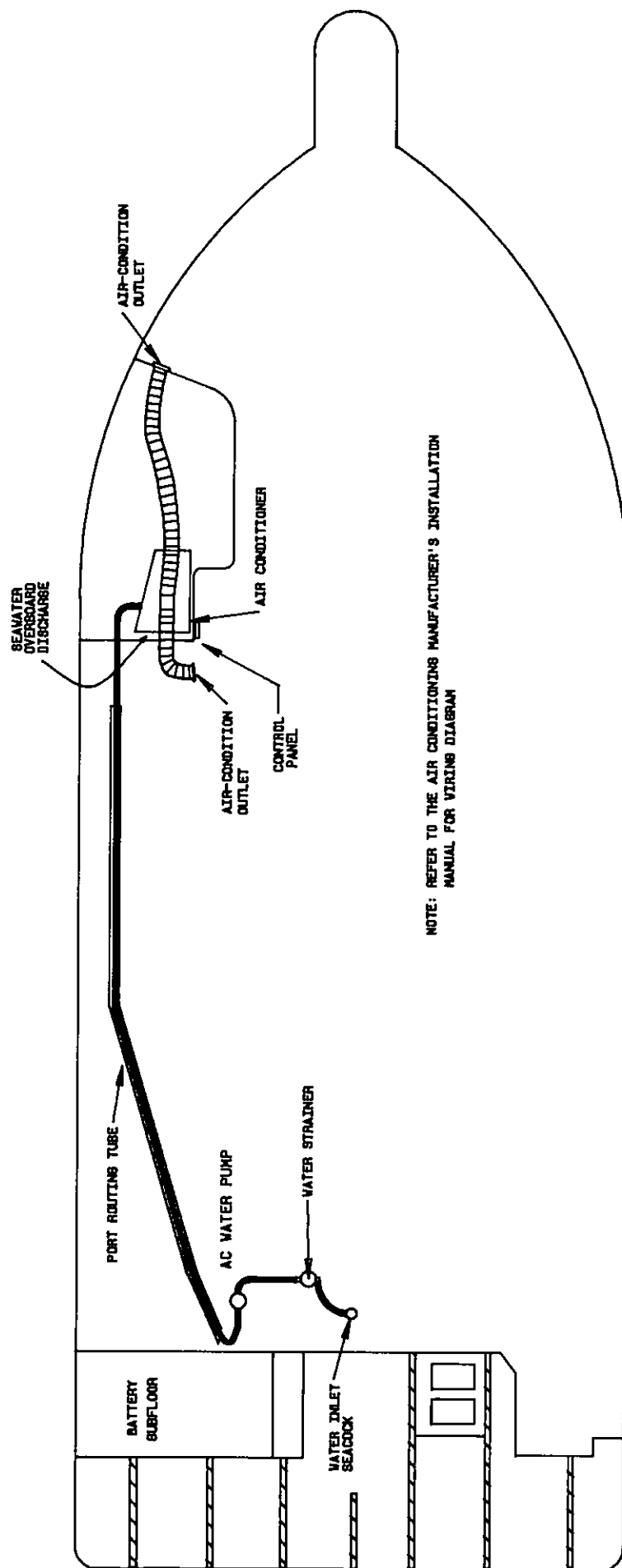
SECTION G: AIR CONDITIONING SYSTEM

PORT



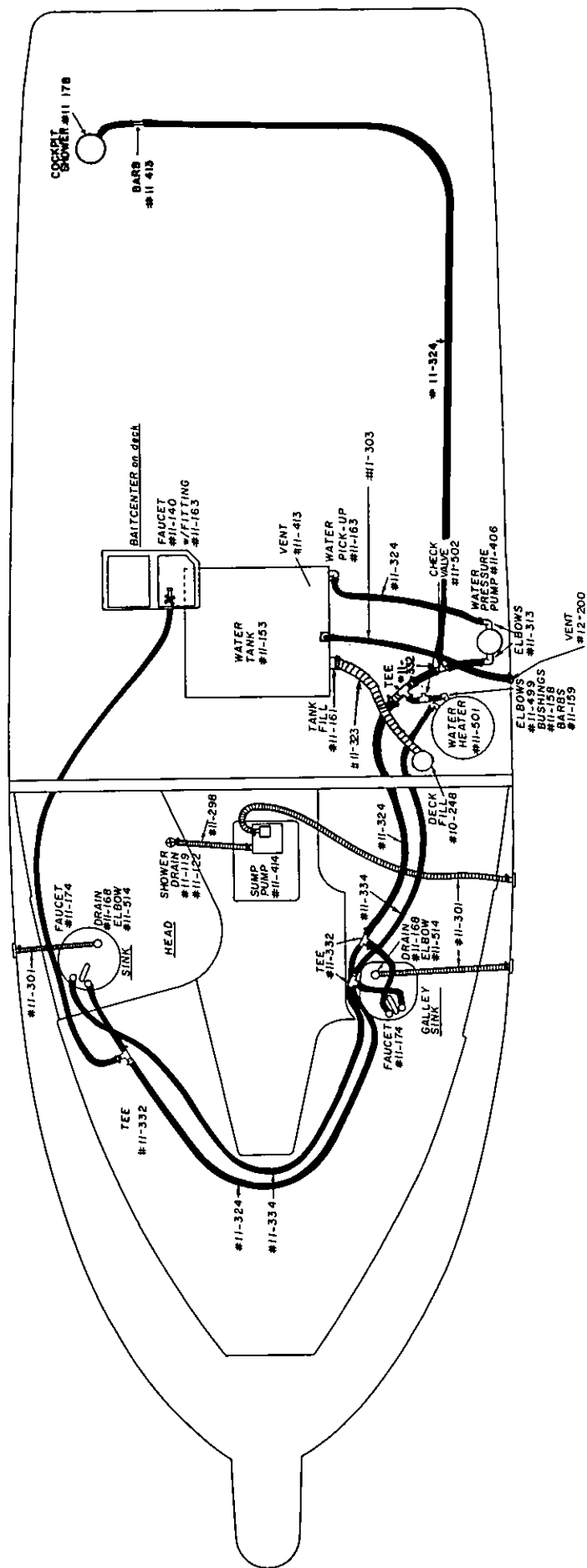
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AIR CONDITIONING ASSEMBLY

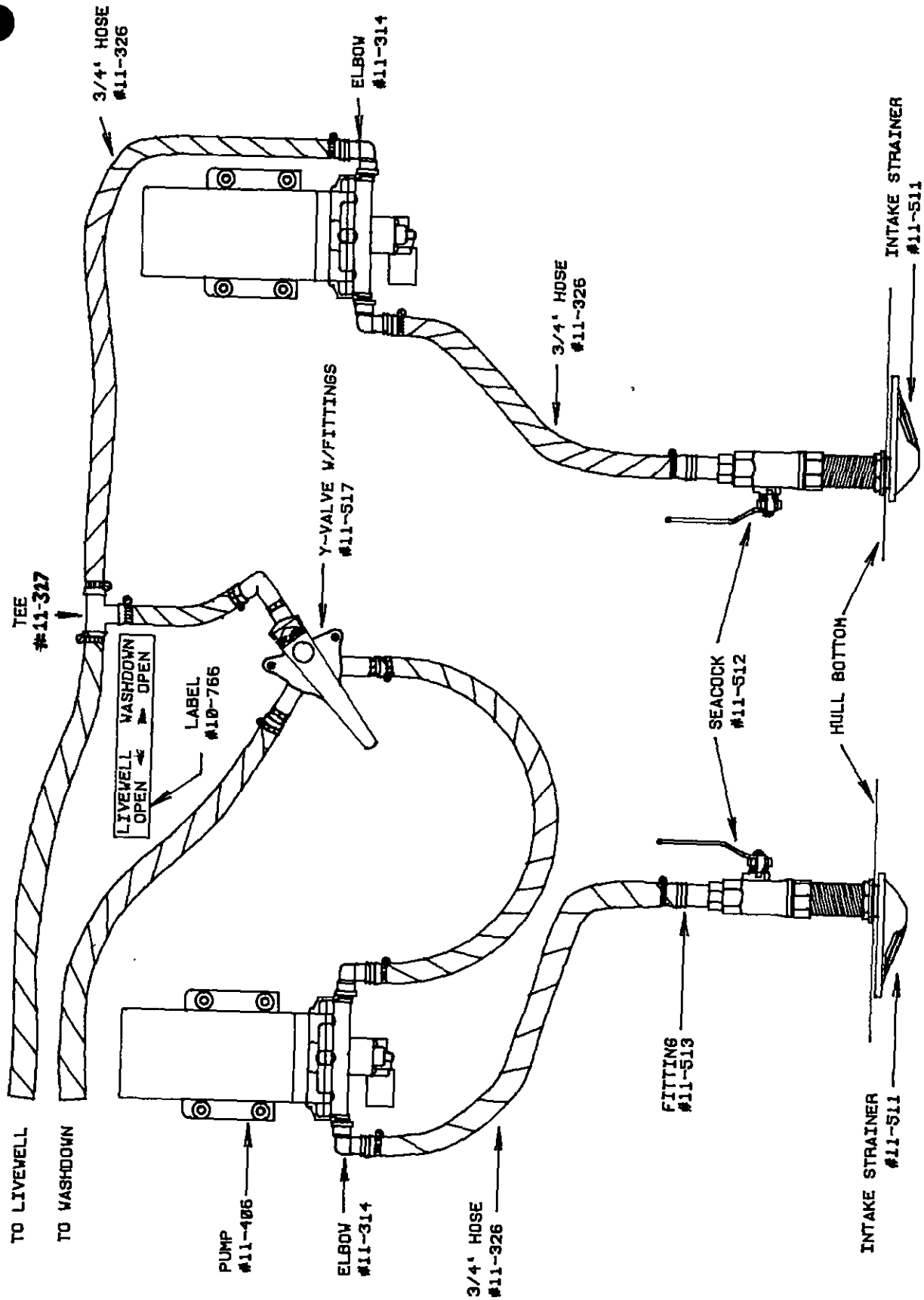


AIR CONDITIONING LAYOUT

SECTION H: WATER SYSTEMS

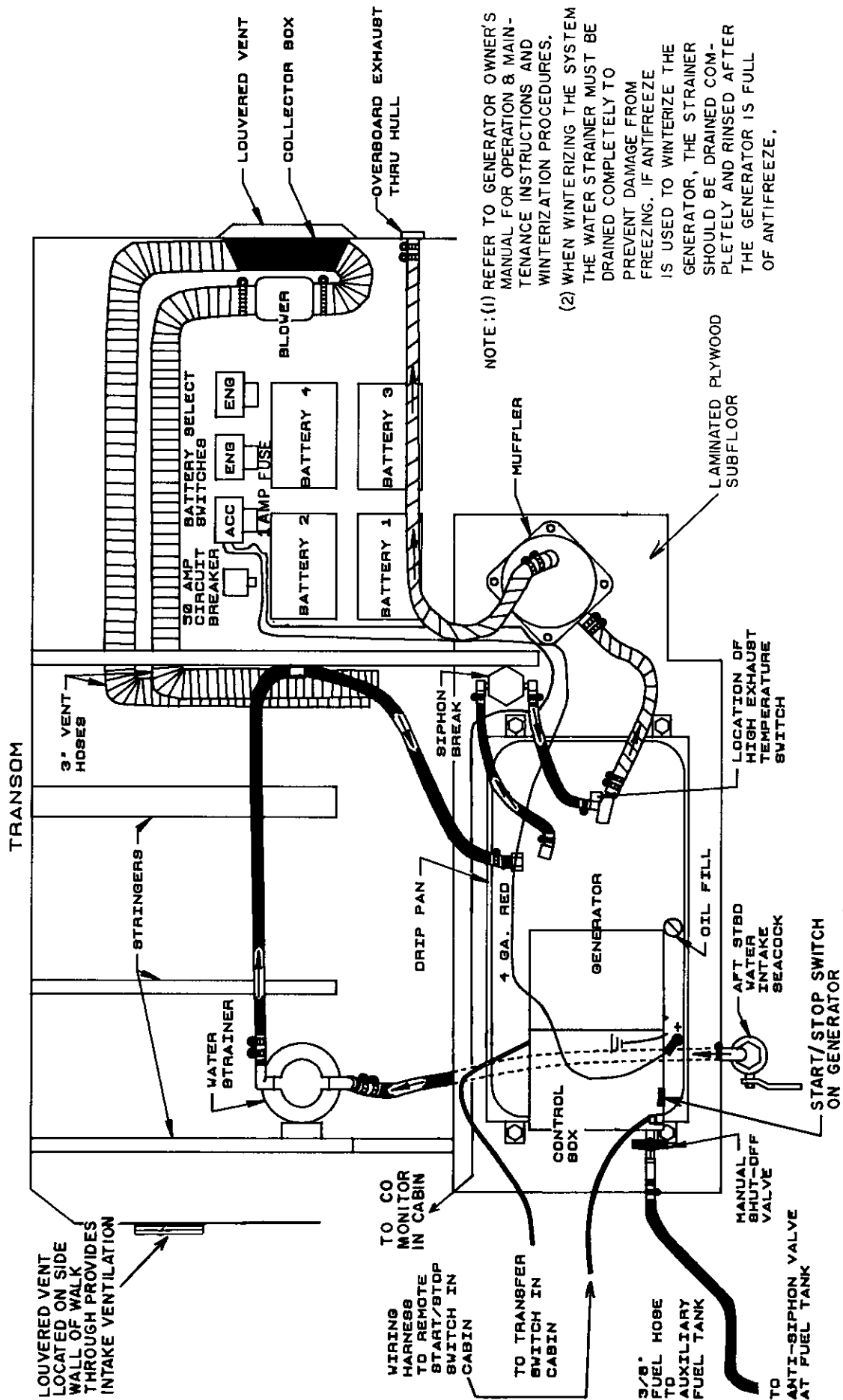


FRESH WATER SYSTEM (PRESSURIZED)

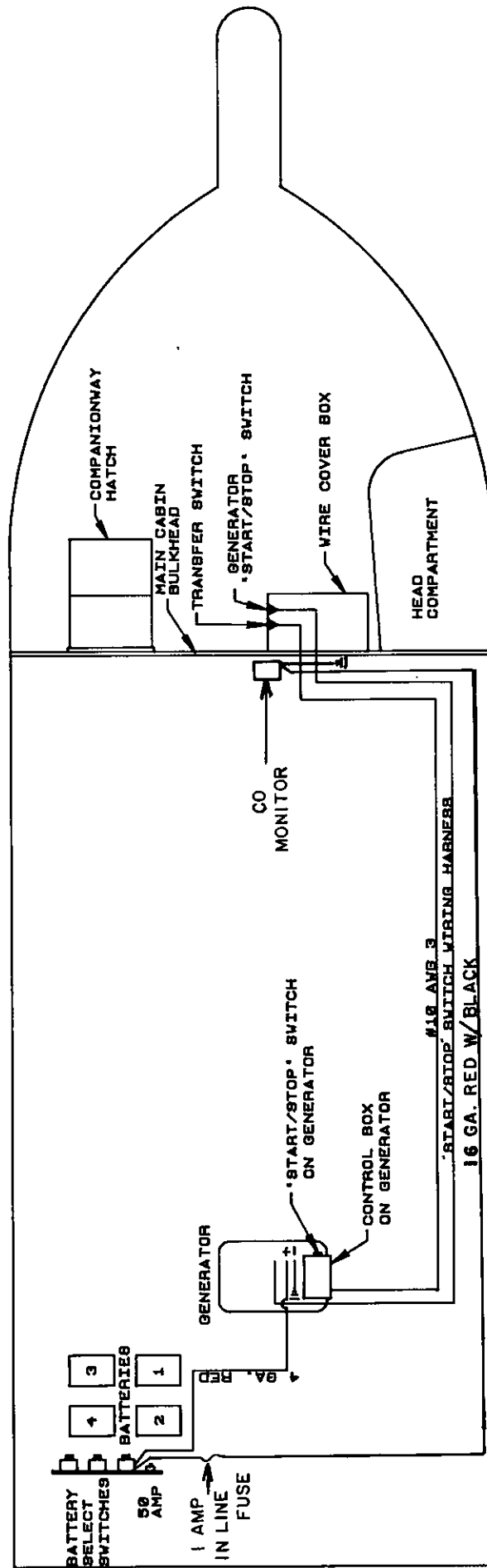


LIVEWELL/WASHDOWN SYSTEM

SECTION I: GENERATOR SYSTEM



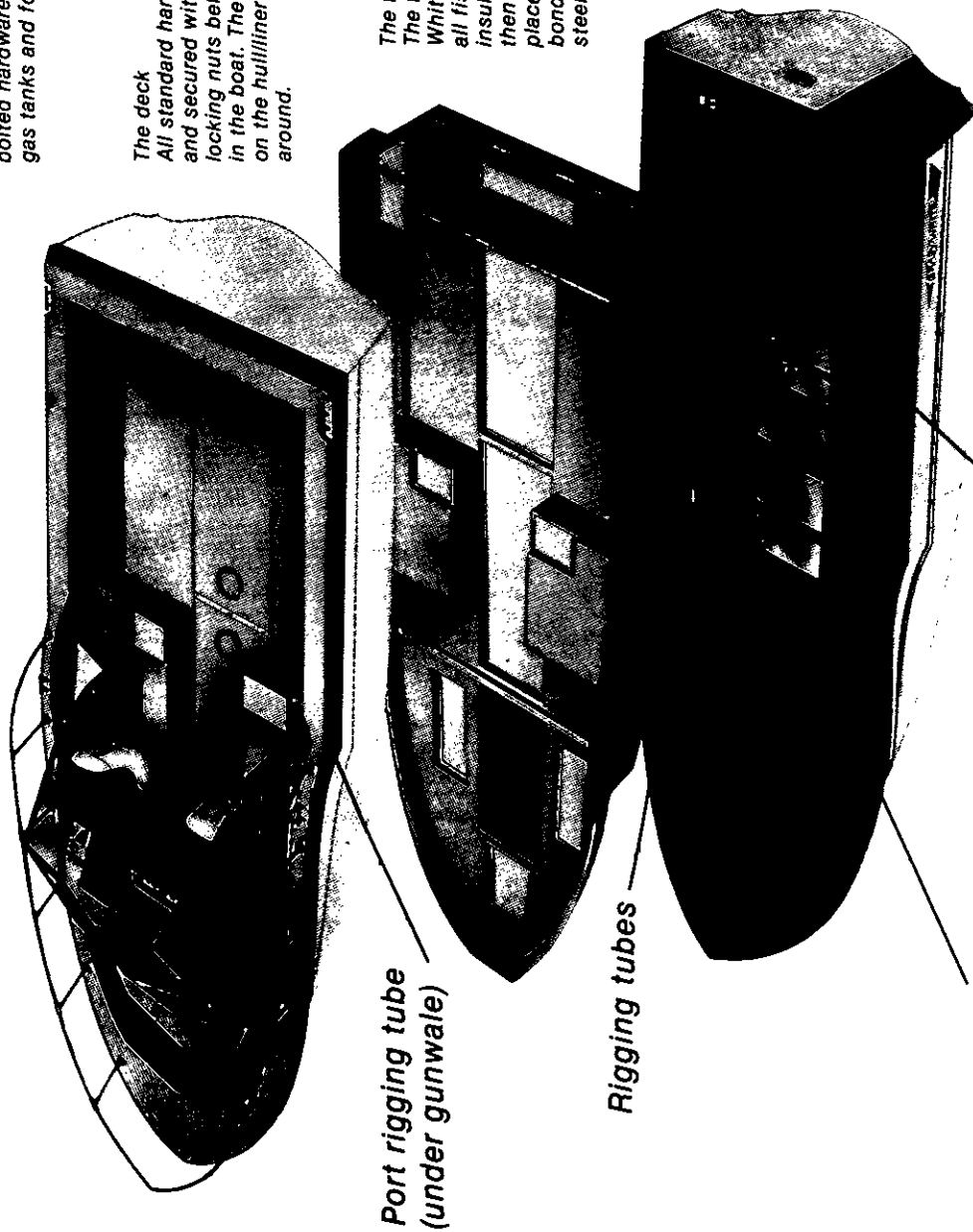
GENERATOR ASSEMBLY



GENERATOR WIRING

SECTION J: GENERAL CONSTRUCTION

Grady-White Construction
Most Grady-Whites are built in three separate fiberglass pieces, the hull, the deck and the fiberglass liner as shown below. These three pieces are bonded together after installation of standard through-bolted hardware, electrical systems, gas tanks and foam floatation.



The deck
All standard hardware is mounted and secured with through bolts and locking nuts before being installed in the boat. The deck is then placed on the hull/liner and secured all around.

The fiberglass liner
The fiberglass liner of your Grady-White is removed from its mold then all fishboxes and ice boxes are insulated with foam. The liner is then placed in the hull, the deck placed over both, and all three are bonded then secured with stainless steel screws all around.

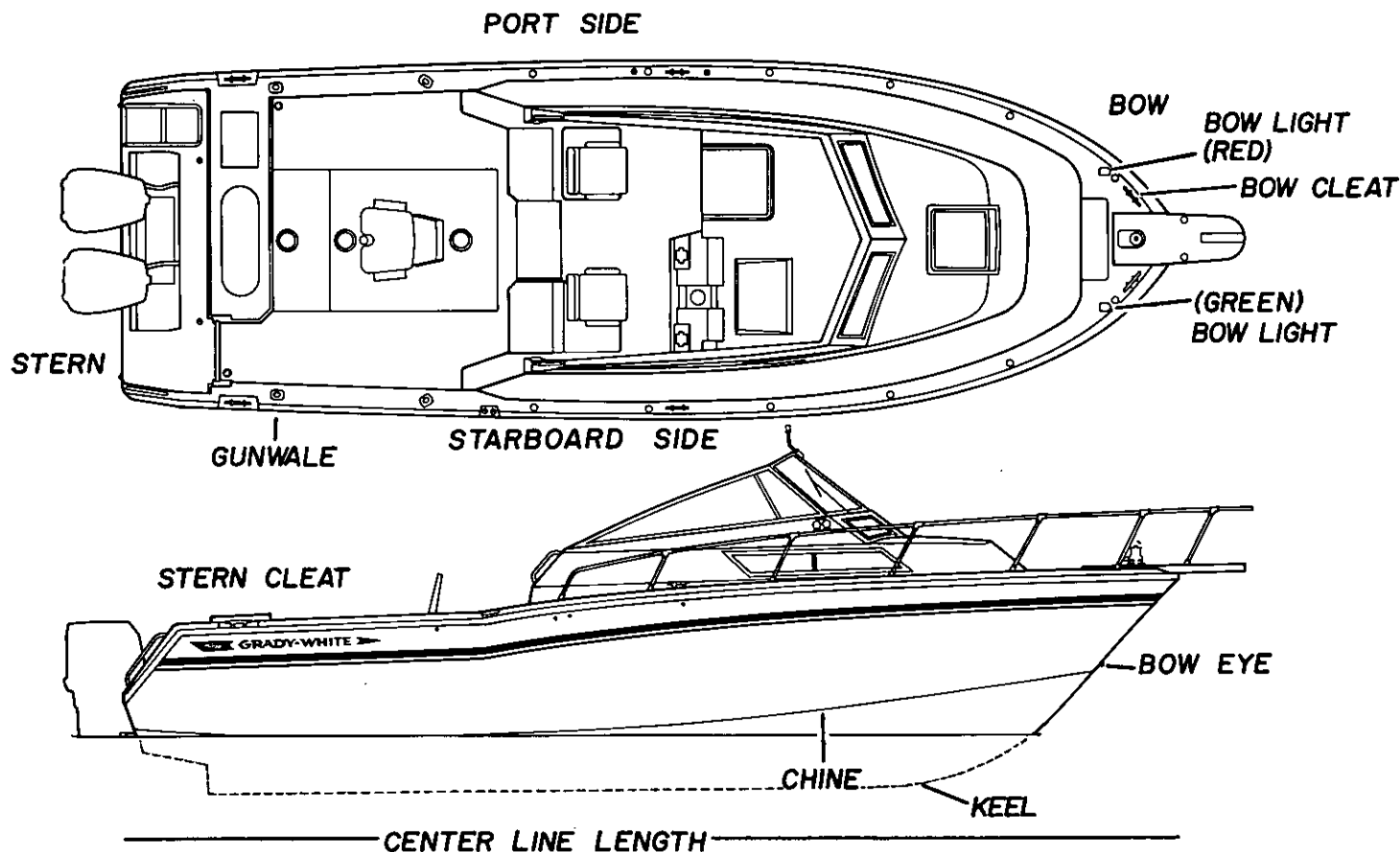
The hull
The wooden stringer system in your Grady-White is encapsulated in resin and fiberglass then fiberglassed into place while the hull is still in its mold. This gives your hull permanent strength and shape. Foam floatation is sprayed into strategic cavities between the stringers to add floatation, strength and sound absorption.

Floatation

HULL/DECK/LINER LAYOUT

Rigging tube for Tournament Series only

COMMONLY USED NAUTICAL TERMS



abeam — object 90 degrees to center line on either side of boat

abaft — a point on a boat that is aft of another

aft — toward the rear or stern of the boat

beam — the greatest width of a boat

bilge — the lower interior area of the hull

bow — the fore part of a boat

bulkhead — vertical partition in a boat

chine — meeting juncture of topside and bottom of boat

chock — deck fitting, used as guides for mooring or anchor lines

cleat — deck fitting with arms or horns on which lines may be made fast

deck — upper structure which covers the hull

draft — depth of water required to float boat

fathom — six feet

freeboard — height of topside from water line to the deck

gunwale (or gunnel) — meeting junction of hull and deck

hatch — an opening in the deck to provide access below

head — a toilet or toilet area in a boat

headroom — vertical distance between the deck and cabin or canopy top

hull — the basic part of a boat; a watertight vessel that provides buoyancy to float the weight of the craft and its load

keel — the major longitudinal member of a hull — the lowest external portion of a boat

knot — unit of speed in nautical miles per hour

lee — the side that is sheltered from the wind

port — opening in a hull to admit light and air or lateral directions — term designating left side of the boat

port light — a hinge or sliding port in a boat hull

scupper — holes permitting water to drain overboard from deck or cockpit

sheer — curve or sweep of the deck as viewed from the side

starboard — lateral direction term designating right side of the boat

stern — the aft end of a boat

stringer — longitudinal members fastened inside the hull for additional structural strength

wake — disturbed water that a boat leaves behind as a result of the motion

windward — toward the direction from which the wind is blowing

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 address 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 manufacturers expense.

FIVE YEAR HULL 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.**

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. **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:

1. Damage caused by abuse, negligence, vandalism, lack of maintenance, improper storage or accident.
2. Any statements, representations, or warranties given by dealer or other third persons other than those provided within this warranty.
3. Any unit which is part of a rental fleet, used for racing or commercial purposes.
4. The following consequential damages: a) loss of time; b) inconvenience; c) towing charges; d) expenses for travel, lodging, telephone, and gasoline; 3) loss or damage to personal property or loss of revenue; f) loss of use of the boat.
5. This warranty specifically does not apply to engines, outdrives, propellers, controls, mechanical 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.
6. 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 owner 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 BOATS, INC.
P.O. Box 1527
Greenville, N.C. 27834

Customer Service: (919) 752-2111
Monday-Friday
8 am. to 5 pm. (EST)