P.O. Box 1527, Greenville, NC 27835-1527 Greenville Blvd. NE, Greenville, NC 27834 919/752-2111 FAX: 919/752-4217

# **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

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<sup>\*</sup> WITH HARDTOP ADD 21"

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# **BOATING SAFETY**

# REQUIRED SAFETY EQUIPMENT

The U.S. Coast Guard requires that every boat has specific equipment on board. 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:

#### FIRE EXTINGUISHER

All Class two boats must be equipped with (2) fire extinguishers that are approved for marine use. They should be classified to extinguish Type B (gasoline, oil or grease) fires. Your fire extinguishers should be easily accessible, and each passenger should be aware of its location.

#### PERSONAL FLOTATION

Each passenger must have a U.S. Coast Guard approved personal flotation device. They should be stored where they can be reached easily and quickly. These flotation devices must be in good condition and the appropriate size for the intended wearer. Small children and non-swimmers should 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.

# HORN

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

#### VISUAL DISTRESS SIGNALS

Coast Guard-approved visual distress signals are now required when operating in U. S. waters and on the high seas. Some examples of visual distress signals include: flares, orange smoke, orange flag (day use only), and electric distress light (night use only).

# 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.

#### 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 the 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 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. The placard must include the following information:

- The discharge of plastic or garbage mixed with plastic into any waters is prohibited.
- 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, or 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.

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.

## **BOATING SAFETY TIPS**

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

- 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. Watch the weather. 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.
- Instruct at least one passenger on the fundamentals of operating your boat in case of an emergency.
- 4. Report any boating accident to the local authorities, whether or not you are involved.

# 

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 the 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.

5. Raise and lower your arms continually if you are having trouble and do not have a radio. Other signals include waving a shirt tied to a pole, repeatedly sounding your horn, flying your boat's ensign upside down, and lighting flares.

- 6. 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.
- 7. Turn off engines before swimmers enter or exit the boat. A shift lever in neutral could become engaged accidentally, seriously injuring swimmers.
- 8. Consult with people familiar with the boating area when venturing into unknown waters. Obtain a chart for new areas whenever possible.
- 9. Use only United States Coast Guard approved parts or parts that are certified for marine use.

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# 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.

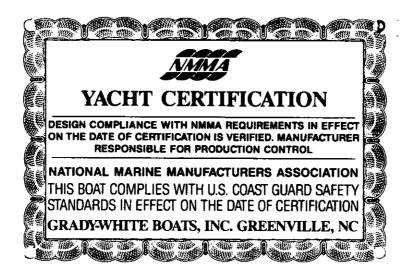
Carbon monoxide can accumulate very quickly in cabins and under canvas. If your boat is equipped with canvas that encloses the aft cockpit and the propulsion equipment, do not operate the boat with this canvas closed.

The 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, and be aware that the operation of other vessel's equipment may affect the carbon monoxide concentration on your vessel.

As a safety measure, Grady-White installs a carbon monoxide monitor in every 280 Marlin with a factory installed generator. This monitor serves as a warning system for exposure to poisonous carbon monoxide fumes. This CO monitor provides an extra measure of safety, but does <u>NOT</u> replace the need to regularly check the entire generator exhaust system.

#### **CERTIFICATION**

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



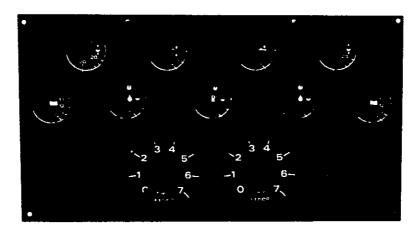


This label means that your Grady-White is certified by the National Marine Manufacturers Association (NMMA). With this tag, you are assured that your fuel system, lighting, ventilation, steering, flotation, capacities, and horsepower ratings are not only in compliance with the U.S. Coast Guard regulations,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

# **GAUGES AND SWITCHES**

# MERCURY AND OMC PRE-RIG GAUGES



#### **FUEL GAUGE**

The fuel gauge indicates the fuel level. 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.

# 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.

## TRIM GAUGE

The trim gauge indicates the angle of thrust of the lower unit of the engines. See the PERFORMANCE section of this manual (page 28) for trim adjustment recommendations.

#### VOLTMETER

The voltmeter indicates the battery charge. 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(s). 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, 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.

## WATER PRESSURE GAUGE (OMC PRE-RIG ONLY)

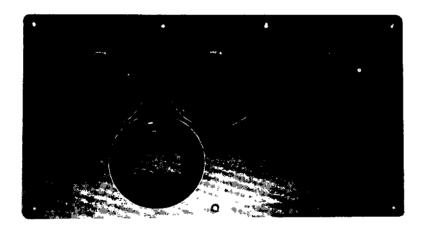
The water pressure gauge indicates the water pressure in the engine cooling system. Readings help determine if water pressure is too low for adequate cooling.

## WATER TEMPERATURE GAUGE (MERCURY PRE-RIG ONLY)

The water temperature gauge indicates the temperature of the cooling water circulating through your engine. When the temperature exceeds the recommended operating range for your engine, immediately shut off your engine to prevent damage. Overheating is often caused by obstruction of your engine's water intake on the lower unit. Check the water intake first if you experience trouble.

WATER TEMPERATURE, OIL LEVEL, AND FUEL SYSTEM WARNING BUZZER
Your Grady-White has a factory installed warning buzzer,
located under the dash, for water temperature and oil level.
In addition, OMC pre-rigs utilize a fuel system warning
buzzer.

## YAMAHA PRE-RIG GAUGES



#### DIGITAL SPEEDOMETER

#### 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 engines. 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, 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.

#### CLOCK

#### FUEL METER

This feature indicates the gas tank fuel level. 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.

#### LOW FUEL WARNING INDICATOR

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

#### 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 water intake first if you experience trouble.

## SPEEDOMETER

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

#### TRIP METER

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

# DIGITAL TACHOMETER

### OIL LEVEL WARNING LIGHT

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

#### 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 28) for trim adjustment recommendations.

#### FUEL MANAGEMENT GAUGE

#### **ECONOMIZER**

The economizer feature on the fuel management gauge gives readings in gallons per hour and miles per gallon.

#### SYNCHRONIZER

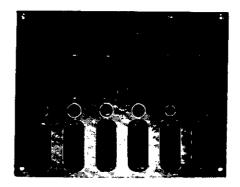
The synchronizer tells the operator when the engines are running at the same RPM's.

#### TOTALIZER

The totalizer feature displays the amount of fuel consumed since it was last set. To reset the totalizer, press the SET and MODE buttons together.

Remember that the fuel management gauge displays information on one engine at a time.

#### SWITCH PANEL



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

## BILGE PUMP

This two-way switch serves as an overriding manual switch in the event of failure of the automatic switch in the bilge.

#### COCKPIT LIGHTS

The cockpit lights provide illumination for the cockpit area.

#### FUEL

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

#### HORN

The horn meets the requirements of the United States Coast Guard's emergency sound signaling device.

#### LIVEWELL

This switch activates the livewell. 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 62 of this manual.

## LIVEWELL/WASHDOWN

This switch activates the livewell/washdown system.

## 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 or anchor lights. Note that this switch operates the gauge lights.

## PRIMER PUMP SWITCH

The primer pumps should be activated at the initial "startup" time. The "up" position is for the starboard engine and the "down" position is for the port engine.

#### WIPERS

This switch activates the windshield wipers.

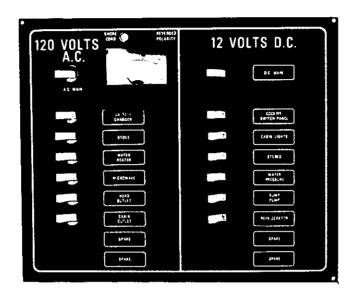
#### **ACCESSORY**

Switches labeled "Accessory" are blank switches, and fuses labeled "Accessory" are blank fuses. Both are used for non-factory installed accessories.

NOTE: Most accessory switch panels have indicator lights and fuse holders for each switch. (See page '42, 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 in the aft part of the cabin on the starboard side. The AC/DC panel wiring diagram is found on page 46. AC and DC powered switches are noted below.



### AC POWERED AUXILIARY SWITCHES

Dockside power must be hooked to shore and the circuit breaker (located under the starboard gunwale just forward of the hookup) must on for these switches to operate.

## MAIN POWER SWITCH

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

#### BATTERY CHARGER SWITCH

A red light will shine when the battery charger is operating.

## STOVE

Refer to the manufacturer's operator's manual for safety instructions. CAREFULLY READ AND UNDERSTAND THESE INSTRUCTIONS BEFORE OPERATING YOUR STOVE.

#### WATER HEATER SWITCH

This switch activates your six-gallon water heater. TO AVOID HEATING ELEMENT FAILURE, DO NOT TURN ON THE HOT WATER HEATER UNLESS IT IS FILLED WITH WATER.

#### MICROWAVE

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

#### HEAD OUTLET SWITCH

The ground fault head outlet is a duplex receptacle and is equipped with a cover plate. See the diagram on page 45 for outlet locations and wiring specifications.

#### CABIN OUTLETS SWITCH

There are two cabin outlets. One is designated for the microwave, and the other is a ground fault receptable and is located under the steps in the cabin. See the diagram on page 45 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 activates the auxiliary switches at the helm accessory panel.

#### CABIN LIGHTS

This switch provides power for the two dome lights and the four reading lights located in the cabin.

#### **STEREO**

This switch activates the stereo.

# WATER PRESSURE SWITCH

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

#### SHOWER SUMP PUMP

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

#### REFRIGERATOR

Refer to the manufacturer's operating manual for operation and safety instructions.

## AIR CONDITIONER

This switch operates the optional air conditioner. This system must be winterized if below freezing temperatures are possible. Refer to the manufacturer's operating manual for instructions.

### OTHER SWITCHES

#### AC TRANSFER SWITCH (280 MARLIN)

The transfer switch is located in the cabin on the wire cover box. This switch permits you to operate your AC accessories by shore power or by generator, and prohibits the operation of shore power and generator simultaneously.

# GENERATOR START/STOP SWITCH (280 MARLIN)

The start/stop switch is located in the cabin on the wire cover box. This switch permits you to start and stop your optional generator from the cabin. Note that there is another start/stop switch on the generator itself.

#### BATTERY SELECT

The 280 Marlin is equipped with three battery select switches and four batteries. Two battery select switches and two batteries are designated for the engines. The remaining select switch and batteries are used for the accessories. See the battery select switch wiring diagram on page 46.

The 252 Sailfish is equipped with three batteries, two select switches, and one ON/OFF switch. The select switches and two batteries are designated for the engines. The ON/OFF switch is used for accessories.

As your boat is equipped with twin engines, a battery select switch should be connected to each engine. Either engine may be started by either battery by selecting battery #1 or battery #2 on the switches. In normal use, select battery #1 on one switch and battery #2 on the other so that both batteries will be charged equally.

WARNING: Never turn the battery select switch to OFF with the engine running as this could damage the charging system.

The 280 Marlin accessory battery select switch is connected to two batteries. Accessories are powered by the battery that is chosen on the select switch.

# **STEERING**

# 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 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.

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.

### 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.

# **BOAT OPERATION**

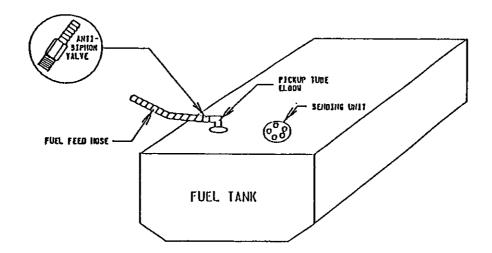
#### FUELING

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 use on the type of fuel specified by the manufacturer. Do not use gasoline containing alcohol. If you operate an outboard with an oil injection system, 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, in order 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. Keep the fuel supply nozzle in contact with the fuel tank opening in order to prevent a static spark.
- 6. Observe fuel flow at all times to prevent overflow or spillage.
- 7. Secure the fuel cap after fueling and ventilate all ports, windows, hatches, and closed areas.
- 8. Wash down and clean off any spilled fuel. Dispose of any rags, sponges, etc. used for clean-up. Do not carry these items on board.
- Keep the fuel tank as full as possible, especially during storage, as condensation can develop and result in water in your fuel system.
- 10. Select your first tank carefully, taking into consideration the distribution of your load as fuel is consumed. Performance will be affected by the weight distribution in your boat.

## FUEL SYSTEM MAINTENANCE

If you are experiencing fuel flow problems, an easy method of determining if the problem is in your fuel system is to connect a six gallon portable tank to your engine. Also, inspect the anti-siphon valve (pictured below) to make sure fuel is flowing properly. The manual shut off valve should be closed when servicing the fuel system to avoid spilling fuel into the bilge.



Do not use fuels containing alcohol. Alcohol, particularly methanol, will absorb water, which makes fuel more corrosive to metals in tanks and carburetors, and shortens the life of elastomers, such as hoses and gaskets.

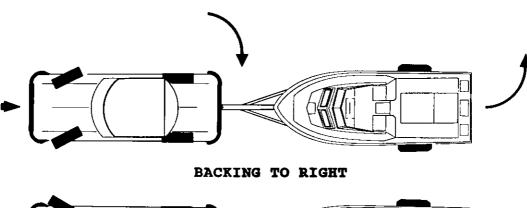
After fueling, inspect the fuel lines, connections, and fuel tanks for tightness, signs of leaks, and deterioration. At least annually, conduct a more thorough inspection of fuel system components, especially those hidden from routine inspection. Replace any deteriorated hoses, clamps, connections, or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

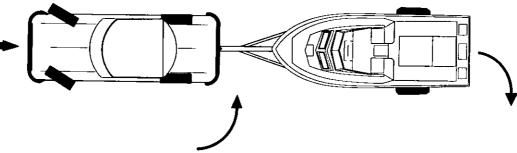
#### TRAILERING

The adjustment and balance of your boat on your trailer determines how easily your boat may be transported. Swaying while trailering is usually caused by a tail-heavy load. The tongue weight on the hitch ball should be 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.

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 (including spare) are properly inflated and in good condition.
- 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 wind damage/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 LEFT

## LAUNCH AND RECOVERY

#### LAUNCHING

Prior to initial launch, familiarize yourself with this manual and all aspects of your boat. At the launch site, 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. Make sure the drain plug is in place.
- 2. Attach a launch rope.
- 3. Make sure the proper safety equipment is on board.
- 4. Tilt engine or drive unit to the "up" position.
- 5. Remove the tie down strap.
- 6. Close the engine drain and freeze plugs.

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). Set the hand brake of your car and place chocks under the rear wheels. Attach a bow line to the boat, release the winch cable, and give the boat a firm push. When the boat is clear of the trailer and secured to the dock, move the trailer to the parking area.

# PRE-START CHECK LIST

- 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 engine oil level, battery cable connections, electrolyte level, and all drive belts for wear and proper tension.
- 4. Check steering for freedom of movement.
- 5. Make sure navigation lights are in working order.

#### 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. Engage the neutral lock out button in the control handle and pump the control throttle forward 2 or 3 times.
- 3. Set control throttle slightly forward of straight up and turn the ignition key to start.
- 4. Check all instruments. If the oil pressure gauge does not respond immediately, shut off the engine.
- 5. Test steering and throttle response at the dock.

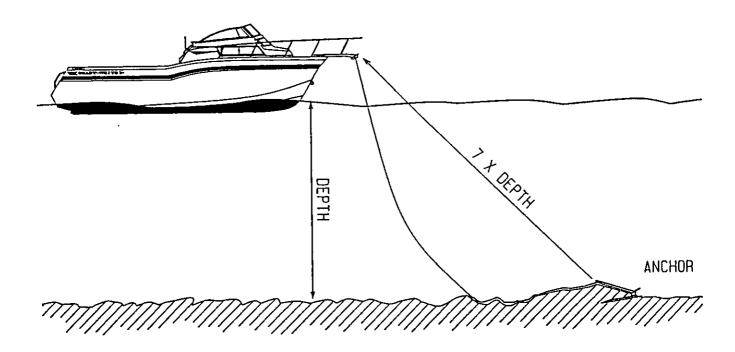
#### RECOVERY

- 1. Secure the boat to the dock or boarding platform.
- 2. Make sure all equipment has been unloaded and all people are off of the boat.
- 3. Back trailer into position in the same manner as launching.
- 4. Use the bow line to maneuver the boat into position for loading.
- 5. Load and secure the boat onto the trailer.
- 6. Move the trailer and boat away from the ramp and remove the drain plug to allow water to drain from the boat.
- 7. Complete cleanup and other precautionary measures before towing.

#### ANCHORING

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

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, and will also help hold anchor flukes down for more secure anchoring.



To anchor, head the boat into the wind or current to stop the 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 the anchor line slowly as the wind or current forces the boat backward. Reverse engine if necessary. Before stopping engines, make sure anchor is secure.

To retrieve the anchor, slowly drive the boat to the point directly above the anchor and pull upward on the anchor line until anchor is retrieved. If the anchor is difficult to raise, 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, and swamp 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.

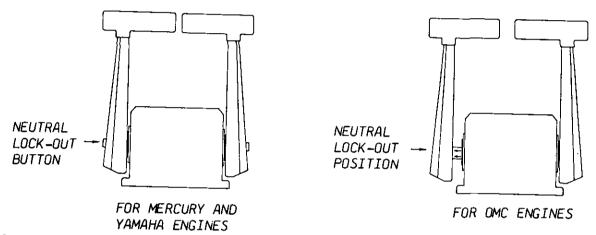
When pulling away from the dock, push the stern clear of the dock to make sure you have enough room to maneuver. You can then get underway without bumping the stern against the dock.

Slowing and stopping your boat requires some practice. The length of time required to come to a complete stop will vary with wind and current. Judging the distance and momentum of the water is a skill that improves greatly with practice.

# 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. Remember that propellers are designed for maximum forward thrust, so reverse thrust will not be as efficient.



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.

As the boat is moving forward, you may reverse the shift mechanism to provide a "braking action" which will slow the boat.

CAUTION: 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. 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 corrosion, loose brackets 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.

# PERFORMANCE

Maximum performance is only obtained when your hull bottom is clean. Detailed recommendations for hull cleaning are included in the MAINTENANCE section (page 32).

Assuming your boat is equipped with the correct engine, the engine is properly tuned, and the drive system is in good condition, poor boat performance is usually traced to improper trim settings, the wrong propeller, or improper load distribution.

# TRIM

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 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 either forces the bow up or down. A drive unit tilted too far in (forward) will cause the bow to nose downward or "plow". A drive unit tilted 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.

# (Example of trimmed boats)



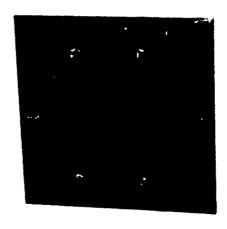
When the angle of thrust is too far out (aft), the engine noise may rise indicating that the propeller is cavitating. Adjust the engine trim in (forward) to correct the problem. The boat may also tend to "porpoise" in maximum bow up position as well. This can be corrected by adjusting the engine trim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

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 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 boat and load.

## TRIM TABS

Trim tabs are electrically-hydraulically operated and are 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.





**TRIM TAB** 

TRIM TAB SWITCH

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 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 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 list by pressing the trim tab switch toward "bow up." 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.

# 

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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 280 Marlin 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. If the motorwell lid is removed, it must be resealed with a marine grade silicone sealer.

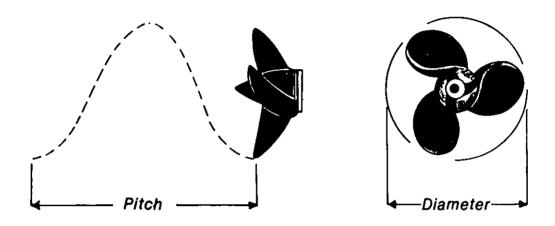
The 252 Sailfish trim tab pump is located behind the aft berth wall. The pump is accessed by removing the center section of the aft berth wall.

#### **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 fuel consumption.

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



## LOAD DISTRIBUTION

The performance of your boat is directly affected by the distribution of weight on board. Be aware of the distribution of gear, passengers, and fuel.

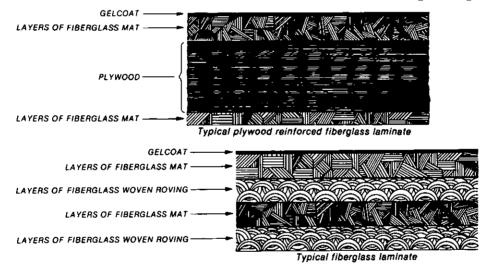
# **MAINTENANCE AND SERVICE**

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 exterior, or gelcoat, of your Grady-White is a thin layer of resin with a finished color pigment. It is used for cosmetic purposes and makes routine maintenance relatively simple.



The gelcoat of your Grady-White is the finest available. 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 do) will maintain the smooth, glossy finish and protect the boat's surface. <u>Do not</u> wax surfaces that may be walked on, as they will become quite slippery.

Though gelcoat is a very durable material, it can still be subject to scratches, blistering, and web-like cracks (crazing) over time. 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 leave 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**

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. If painting with gelcoat in a bilge area, a surfacing agent should be used.

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 the gelcoat is catalyzed, it may become hot in the mixing container and catch on fire. Before disposal, submerse 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. To protect surrounding areas, apply tape around the area to be repaired. 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.
- 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 Spread a small amount of the mixture on a test thoroughly. 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. is best to be under catalyzed. When you obtain the proper mixture in a test, use the same ratio of M.E.K. to gelcoat for your actual repair.

- 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

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.

Most cabin cushions are removable and may be dry cleaned. Some cabin cushions are of a Herculon-type fabric and may be cleaned with upholstery cleaner. 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. Lounge seat bases, which are constructed of exterior fir plywood, should be ventilated when the boat is not being used.

### **CANVAS**

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

- 1. 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.
  - 2. Lubricate the snap buttons and zippers with petroleum jelly or paraffin.
- 3. 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.

- 4. Store and secure canvas before trailering.
- 5. Dry all canvas before storing to prevent mildew.
- 6. Remove the top, front, and side panels and roll them up for storage. This procedure is necessary to prevent the front and side vinyl pieces from cracking. NEVER FOLD THESE PIECES!

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. However, you can correct much of this problem by applying paraffin over the seams.

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

#### **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 once or twice per season. Never sand your duratrim!

# HARDWARE

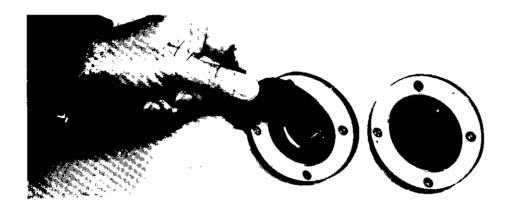
Even though your hardware is made of laboratory grade 316 stainless steel, it needs regular cleaning to maintain it's "less staining" properties. Use a mild solution of soap and water to clean your stainless after using your boat. If a stronger solution is needed, add a small amount of vinegar to the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

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 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. Hinges may need a small amount of penetrating oil to avoid sticking and rusting.

## SCUPPERS

Your Grady-White boats has a self-bailing cockpit, meaning that water on the cockpit floor drains through overboard drains rather than into the bilge. The stern drains (scuppers) 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 that they are free of debris. The scupper flaps will need periodic replacement.



## HARDWARE MOUNTING

When drilling mounting holes in boat surfaces, make 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

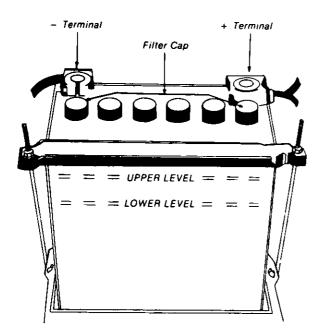
Regardless of the type of power your boat uses, your batteries are extremely important. They should be secured in a non-metallic tray to avoid electrolyte spills, and battery terminals should be covered by an insulated boot.

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

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.

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

**CAUTION:** Never disconnect a battery when the engine is 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.

## 280 MARLIN RIGGING COMPARTMENT

The 280 Marlin has a rigging compartment located aft of the fuel tank compartments. This compartment is functional for rigging ignition protected pumps and for better access to rigging components located aft of this compartment. This compartment contains two flats for mounting transducers.

**WARNING:** This compartment should NOT be used for batteries or portable fuel tanks as this compartment is not sufficiently ventilated.

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.

# WINTERIZATION AND STORAGE

If your boat is out of use for the winter or an extended period of time, 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.

The winterizing check can be done by a knowledgeable boat owner but preferably by a professional with a competent staff of technicians at your Grady-White dealership. Either way, the following checklist is a good place to start:

- 1. Check 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. Change all filters, check hoses and clamps. If you have developed any vibrations during the season, look for loose engines, bent shafts, or bent propellers.
- 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. As it dries, this debris will harden, so scrub the bottom immediately after the boat is removed from the water.
- 3. 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.
- 4. Drain all tanks, water 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 faucet off to prevent pump damage. Residual water will not damage the tank. If desired, the fresh water system may have a nontoxic antifreeze added. This antifreeze can be purchased at most marine dealerships or camping dealers. To drain other lines, close seacocks and run the pumps until the lines are dry. In warmer climates, draining will help prevent water stagnation.
- 5. Remove the bilge drain plug and open all valves and seacocks to keep the bilge dry. Store your boat with the bow elevated to help drainage.

- 6. Make 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. There are also additives 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. 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 weak battery loses it's charge more rapidly than a strong battery. Ideally, you should disconnect the batteries and cover the terminals with 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 them.
- 8. Store cabin cushions and other cushions indoors when possible 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. Check cleats, chocks, and rails for corrosion and tightness. Use a good quality metal preservative like T-9\*\* on all metal surfaces to prevent saltwater damage.
- 11. Check for loose silicone, hinges, and unseated gaskets, and replace or tighten where necessary. Heavy seas pounding and twisting the hull can cause leaks in your windows, doors, and hatches. Check all hinges for corrosion and lubricate them.
- 12. Make sure that the keel, chines, and transom are fully supported.

<sup>\*\*</sup>The T-9 metal protection product was developed by Boeing Aviation for long-term protection of aircraft. It works by penetrating deeply into 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.

### **HEAD OPERATING INSTRUCTIONS**

### MARINE ELECTRIC HEAD

### **OPERATION**

- 1. Open the water inlet seacock (the seacock should be in the vertical position). The seacock is located on the starboard side under the cabin floor lid.
- Flush toilet by pressing the flush knob above the toilet.

### EMPTYING HOLDING TANK BY USE OF OVERBOARD DISCHARGE

- 1. Open the water inlet seacock (the seacock should be in the vertical position). The seacock is located on the port side of the forward bilge.
- 2. Turn the monitor on at the control panel.
- 3. Press the discharge button until lights on the control panel indicate the tank is empty.
- 4. Turn the monitor off and close the water inlet seacock (the seacock should be in the horizontal position).

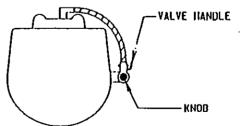
### EMPTYING HOLDING TANK THROUGH DECK PUMP-OUT

- 1. Remove the cap from deck pump-out, located on the port deck walkaround.
- 2. Connect the vacuum hose and run until the tank is empty.
- 3. Replace the cap on deck pump-out.

### HAND PUMP MARINE HEAD

### **OPERATION**

- 1. Open the water inlet seacock (the seacock should be in the vertical position). The seacock is located on the starboard side under the cabin floor lid.
- Fill the toilet with water by pulling the valve handle to the vertical position. Pump the knob two or three times.



3. Flush the toilet by pumping the knob two or three times, leaving the valve handle in the vertical position.

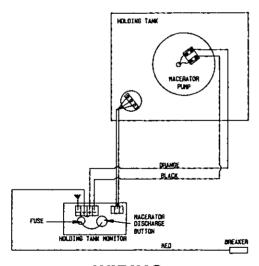
4. Return valve handle to the horizontal position and pump the knob until all water is removed from the toilet bowl. Leave toilet in the "flush dry" position when not in use.

### EMPTYING HOLDING TANK BY USE OF OVERBOARD DISCHARGE

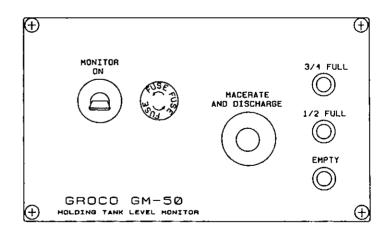
- Open the water inlet seacock (the seacock should be in the vertical position). The seacock is located on the port side of the forward bilge.
- 2. Turn the monitor on at the control panel.
- 3. Press the discharge button until lights on the control panel indicate the tank is empty.
- 4. Turn the monitor off and close the water inlet seacock (the seacock should be in the horizontal position).

### EMPTYING HOLDING TANK THROUGH DECK PUMP-OUT

- Remove the cap from deck pump-out, located on the port deck walkaround.
- 2. Connect the vacuum hose and run until the tank is empty.
- 3. Replace the cap on deck pump-out.



**WIRING** 

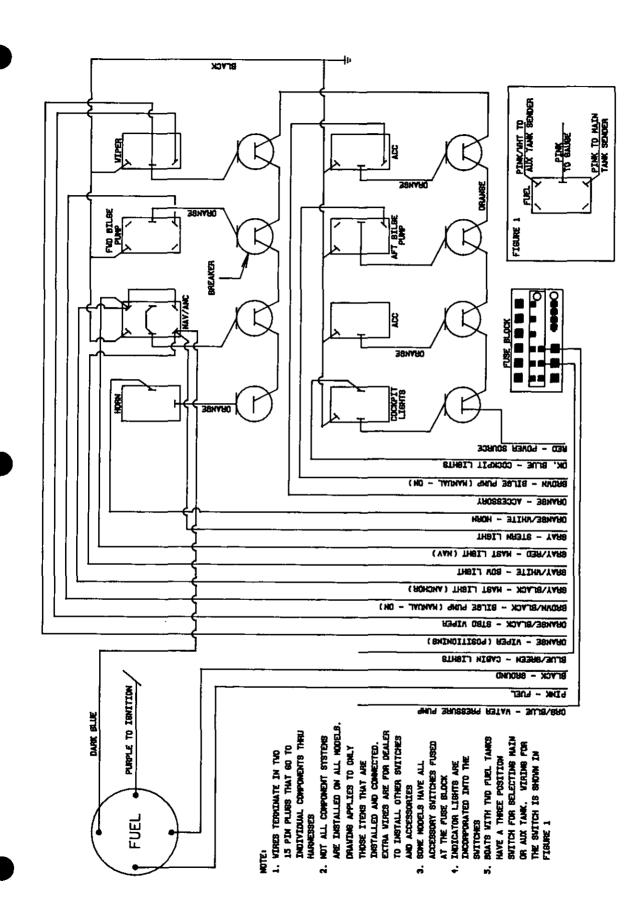


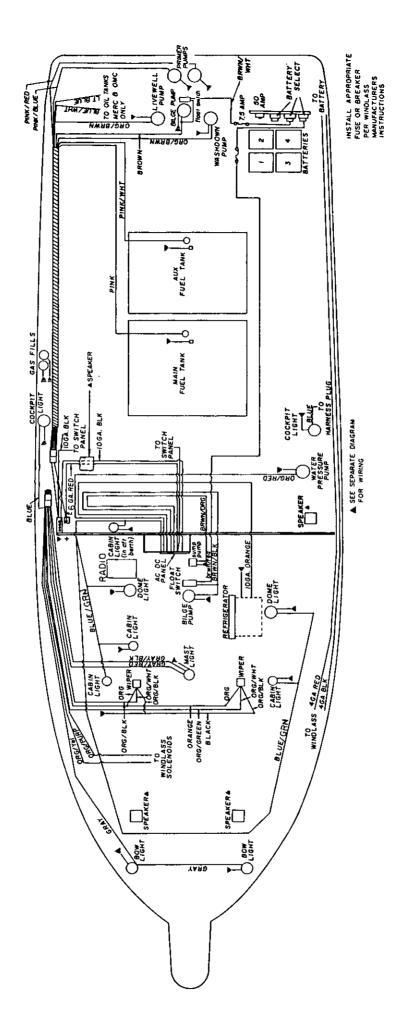
**CONTROL PANEL** 

### **ACCESSORY WIRING COLOR CODE AND FUSE SIZES**

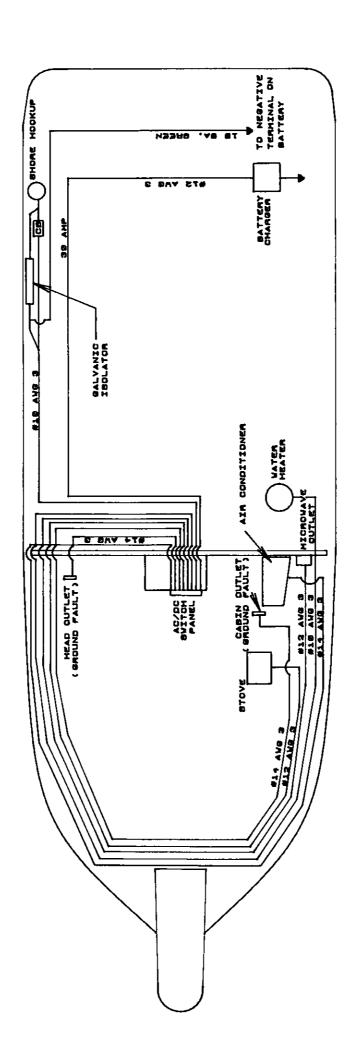
ACCESSORY	WIRE SIZE AND COLOR	AMPERAGE	LOCATION
LIGHTS			
BOW LIGHT	16 GA. GRAY	15.0	ACCESSORY PANEL
MAST LIGHT (FORWARD BULB)	16 GA GRAY/RED	15.0	ACCESSORY PANEL
MAST LIGHT (AFT BULB)	16 GA GRAY/BLACK	15.0	ACCESSORY PANEL
PANEL LIGHTS	16 GA DARK BLUE	15.0	ACCESSORY PANEL
CABIN LIGHTS	16 GA DARK BLUE	10.0	FUSE BLOCK
COCKPIT LIGHTS	16 GA DARK BLUE	10.0	ACCESSORY PANEL
SPREADER LIGHTS	16 GA DARK BLUE/WHITE	10.0	ACCESSORY PANEL
PUMPS			
BILGE PUMP (FORWARD):			
RULE 1500	16 GA BROWN/BLACK	8.0	ACCESSORY PANEL
AUTO FLOAT SWITCH (FORWARD)	16 GA BROWN/RED IN LINE		NEAR BATTERY
BILGE BLIMB (AST).	<u> </u>		
BILGE PUMP (AFT): RULE 1500	AC CA PROMISE		400000000000000000000000000000000000000
<del></del>	16 GA BROWN	8.0	ACCESSORY PANEL
AUTO FLOAT SWITCH (AFT)	16 GA BROWN/WHITE IN LINE		NEAR BATTERY
SHOWER SUMP PUMP (FLOAT SWITCH)	16 GA BROWN/ORANGE	4.0	FUSE BLOCK
WATER PRESSURE PUMP	12 GA ORANGE/RED	2,5	FUSE BLOCK
WASHDOWN & LIVEWELL PUMP	12 ORANGE/BROWN	15.0	ACCESSORY PANEL
PRIMER PUMPS (PORT)	16 GA PINK/RED	5.0	IGNITION
(STARBOARD)	16 GA PINK/BLUE	5.0	IGNITION
MISCELLANEOUS			
BILGE BLOWER	16 GA YELLOW	10.0	ACCESSORY PANEL
HORN	12 GA ORANGE/WHITE	15.0	ACCESSORY PANEL
WINDSHIELD WIPER (ACTUATOR):			
PORT	16 GA ORANGE/GREEN	5,0	ACCESSORY PANEL
STARBOARD	16 GA ORANGE/BLACK	5.0	ACCESSORY PANEL
WINDSHIELD WIPER (POSITION)	16 GA ORANGE		
WINDLASS SOLENOIDS	14 GA ORANGE/PURPLE	•	ACCESSORY PANEL
	14 GA ORANGE/YELLOW	•	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	N/A	ACCESSORY PANEL
AUXILIARY FUEL TANK (SENDER)	16 GA PINK/WHITE	N/A	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
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

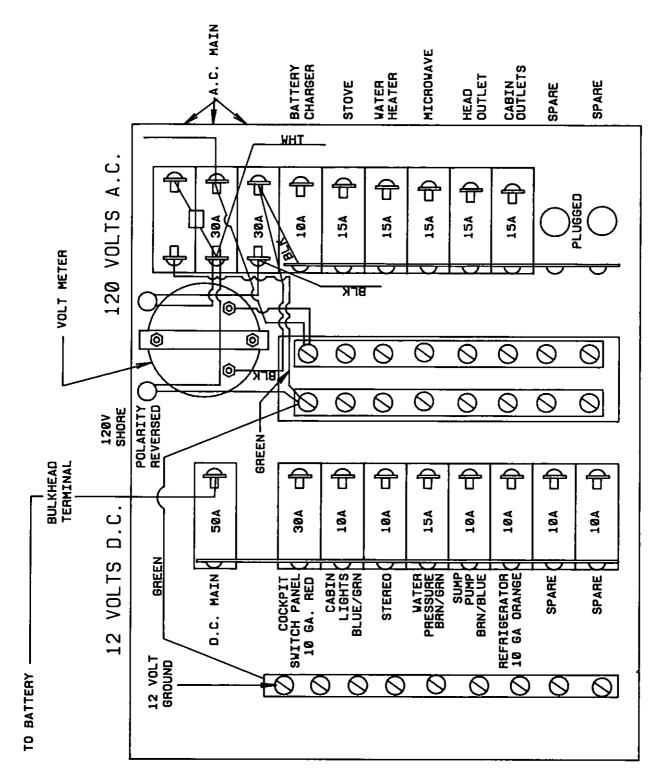
<sup>\*</sup> Refer to windlass manufacturer's recommended fuse and breaker sizes.
\*\* Standard only with generator option.



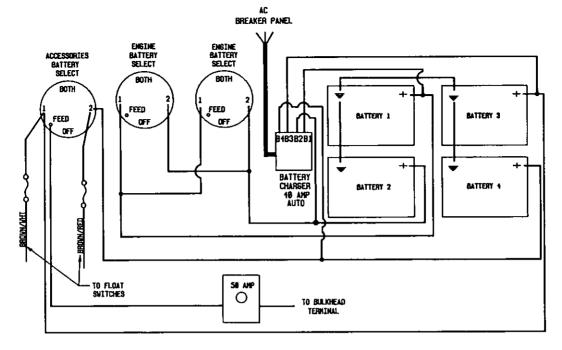


### 280 ACCESSORY WIRING DIAGRAM

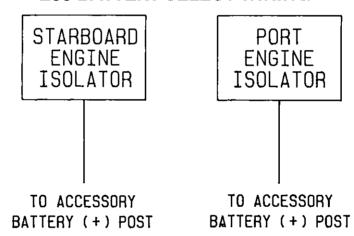




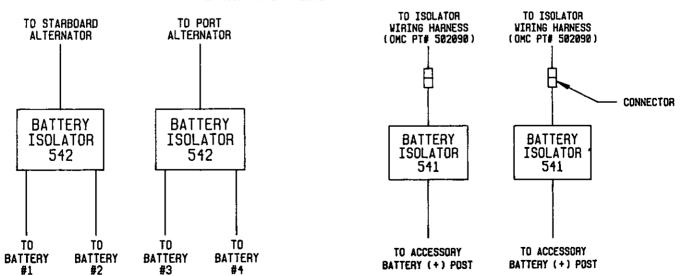
AC/DC PANEL WIRING



### 280 BATTERY SELECT WIRING

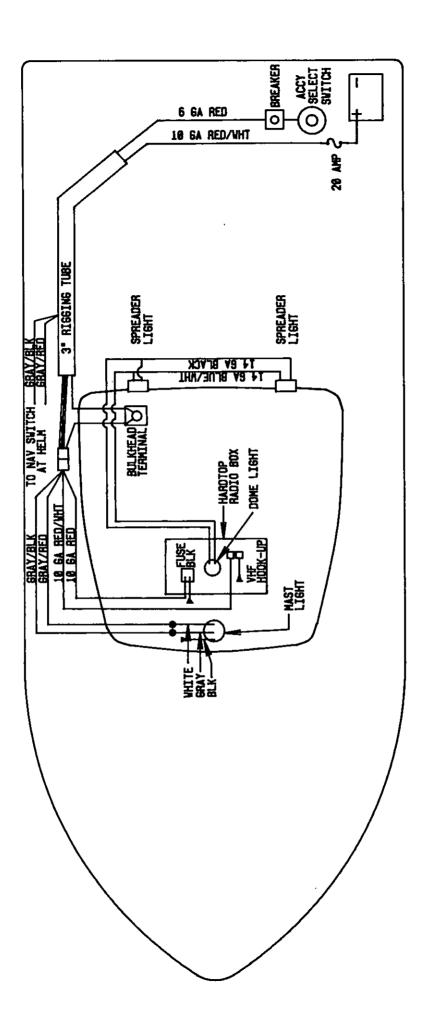


### YAMAHA ISOLATOR WIRING

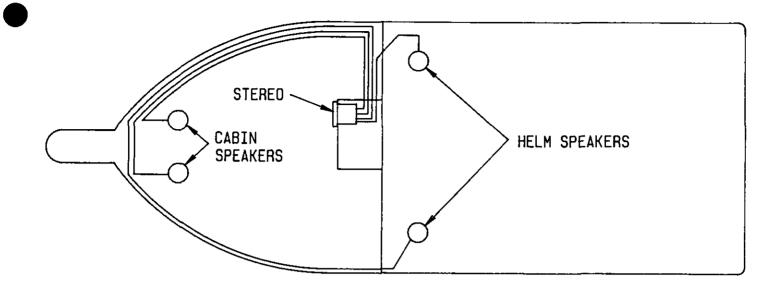


MERCURY ISOLATOR WIRING

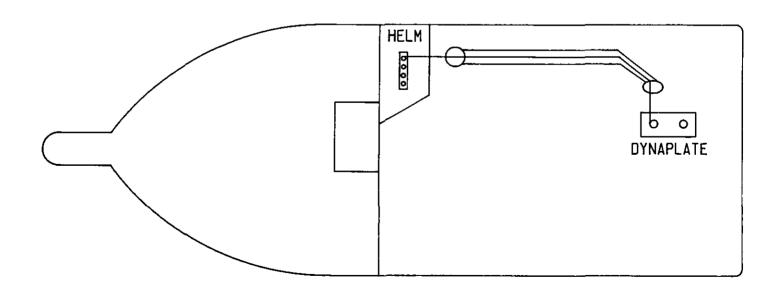
OMC ISOLATOR WIRING



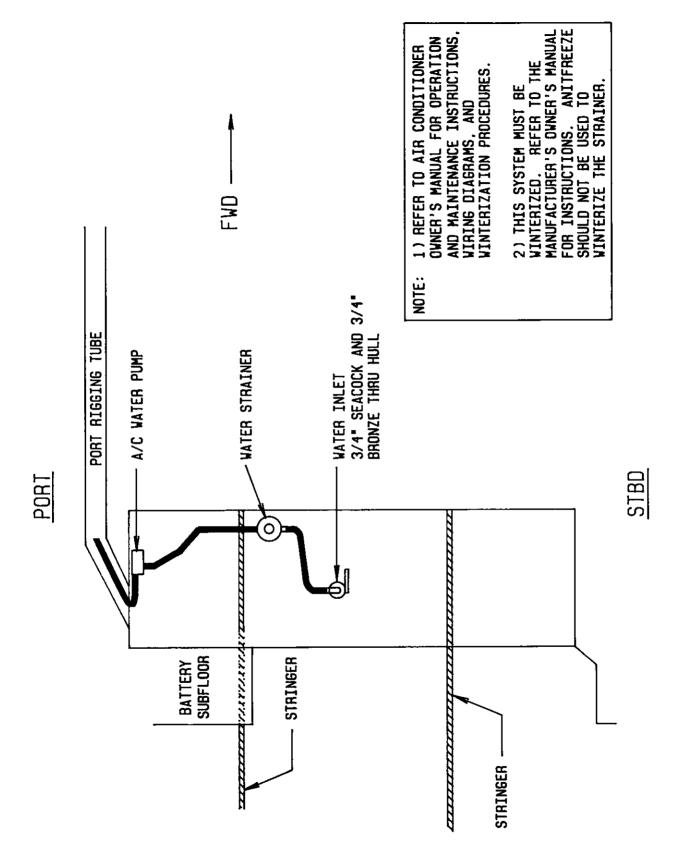
### 280 HARDTOP WIRING DIAGRAM



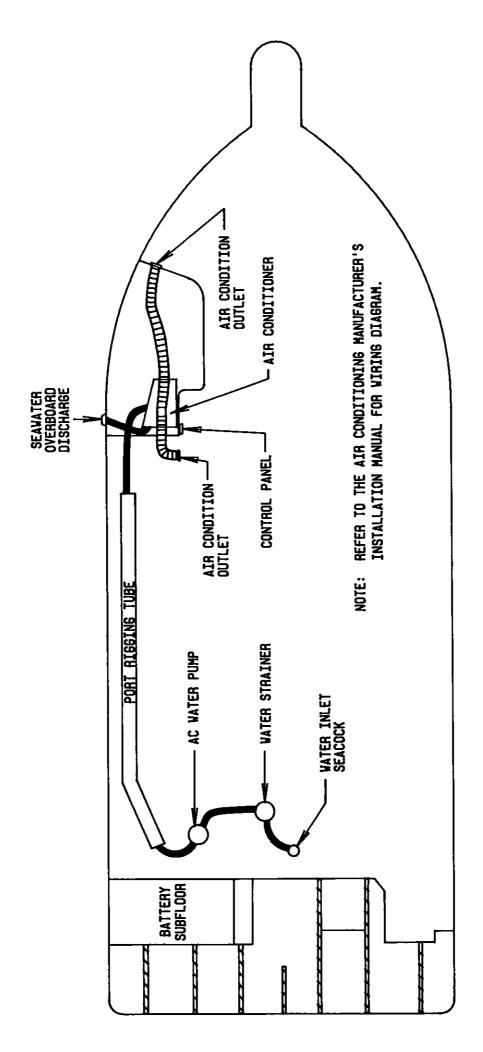
### STEREO WIRING DIAGRAM

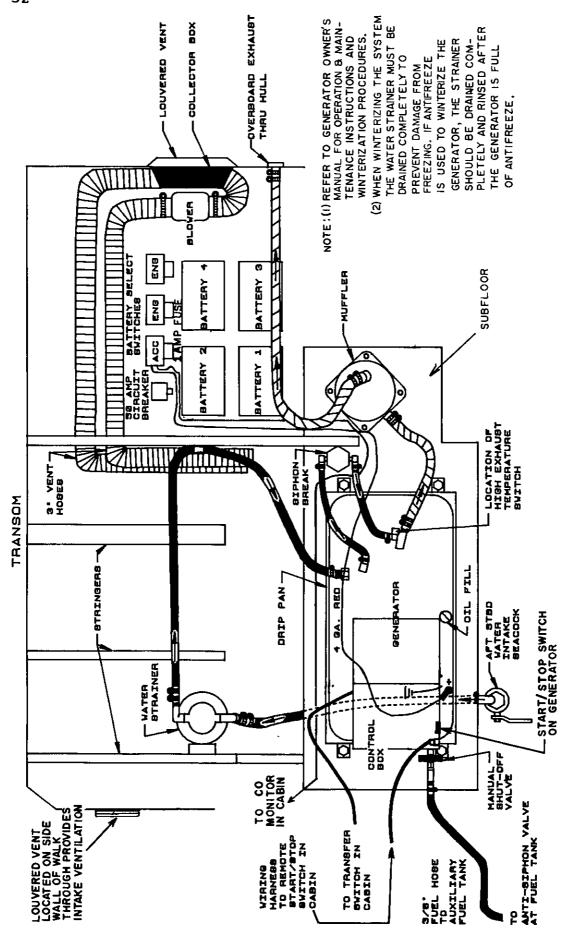


### **DYNAPLATE WIRING DIAGRAM**

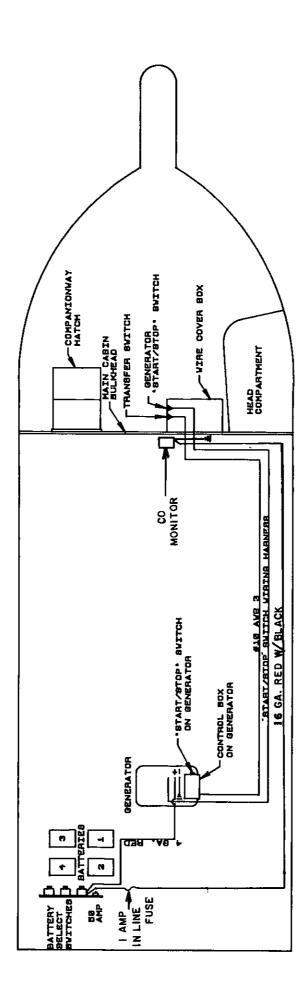


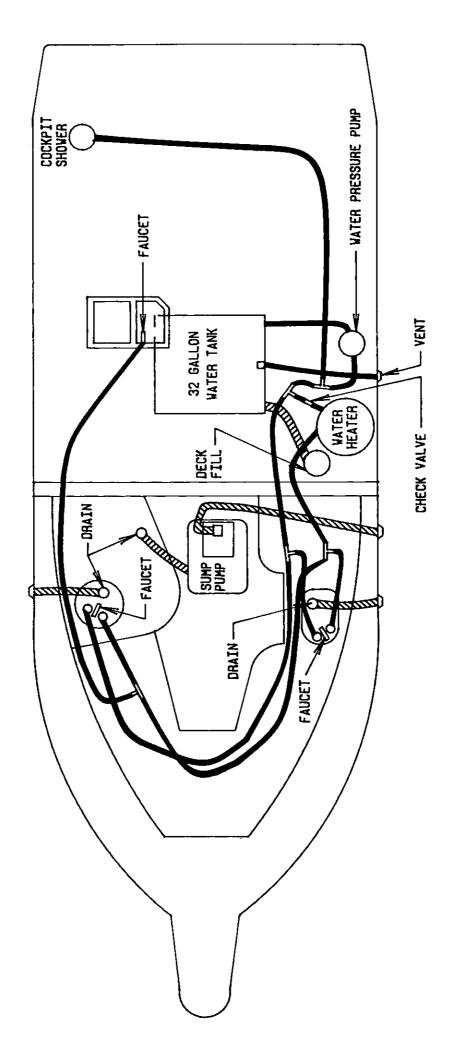
280 AIR CONDITIONING ASSEMBLY



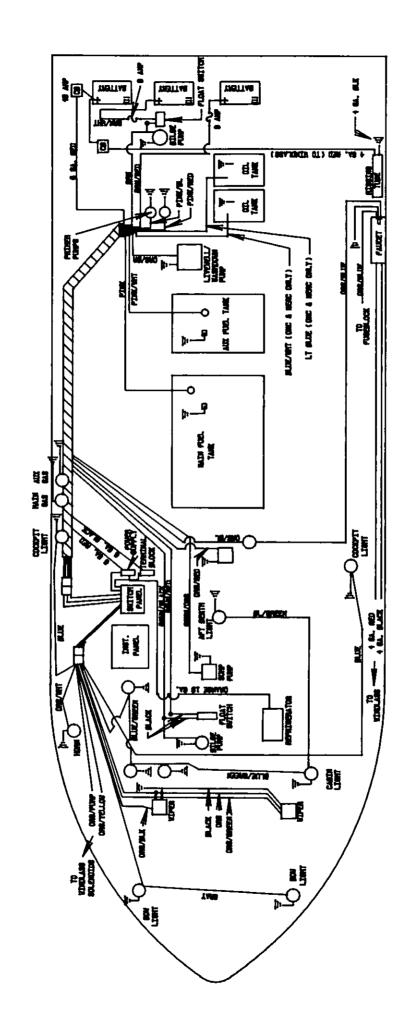


280 GENERATOR ASSEMBLY

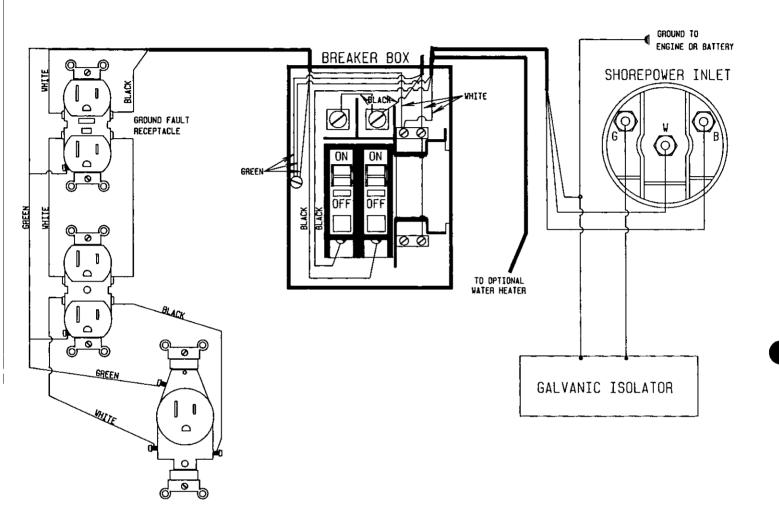




280 PRESSURIZED FRESH WATER SYSTEM

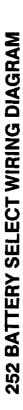


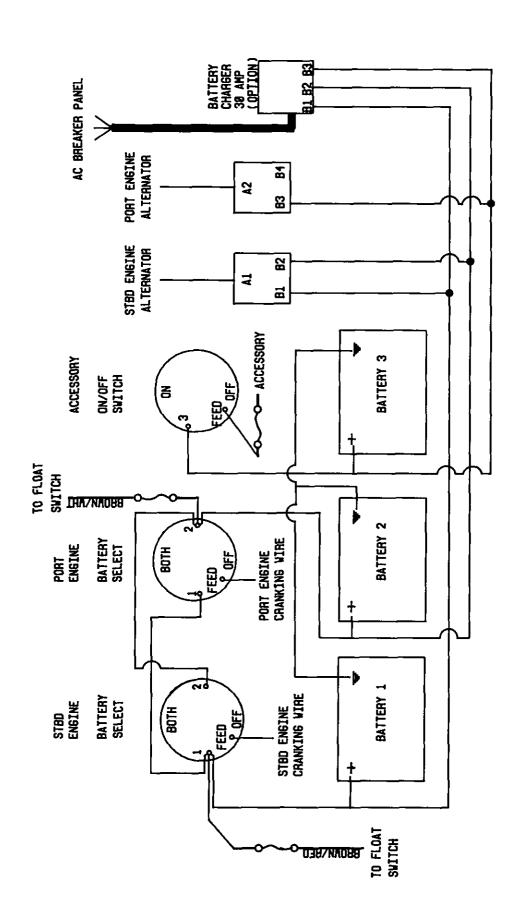
### AC WIRING SCHEMATIC AND WARNING LABEL

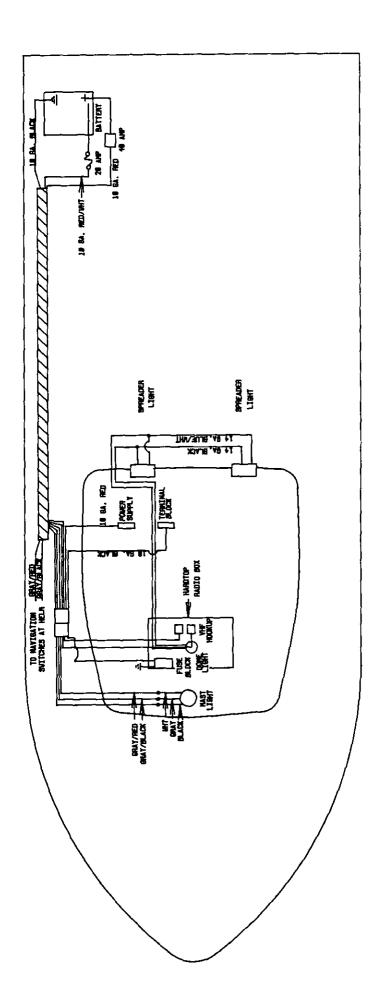


### **WARNING**

- (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
- (5) DO NOT ALTER SHORE-POWER CABLE CONNECTORS

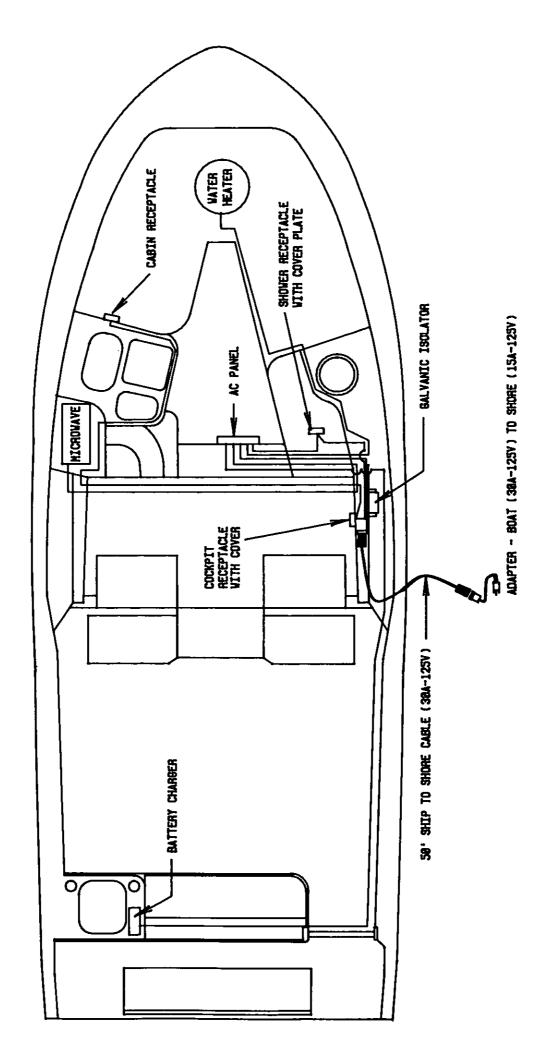


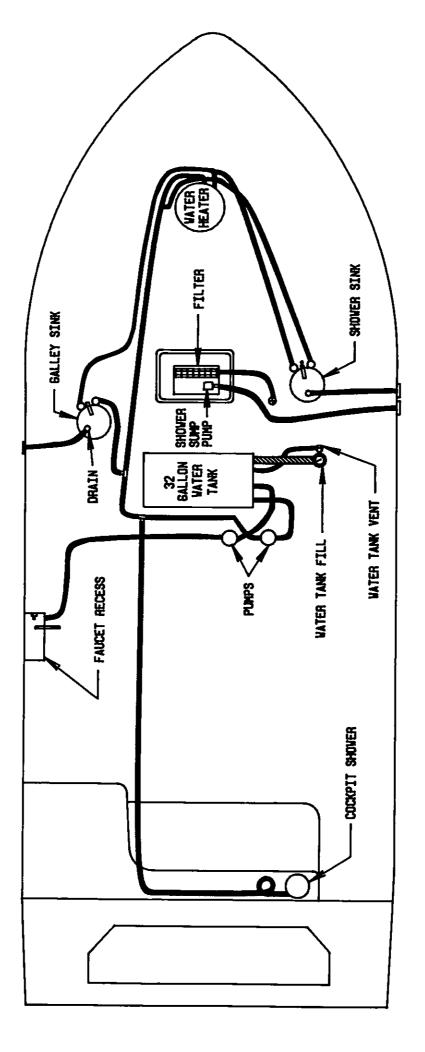




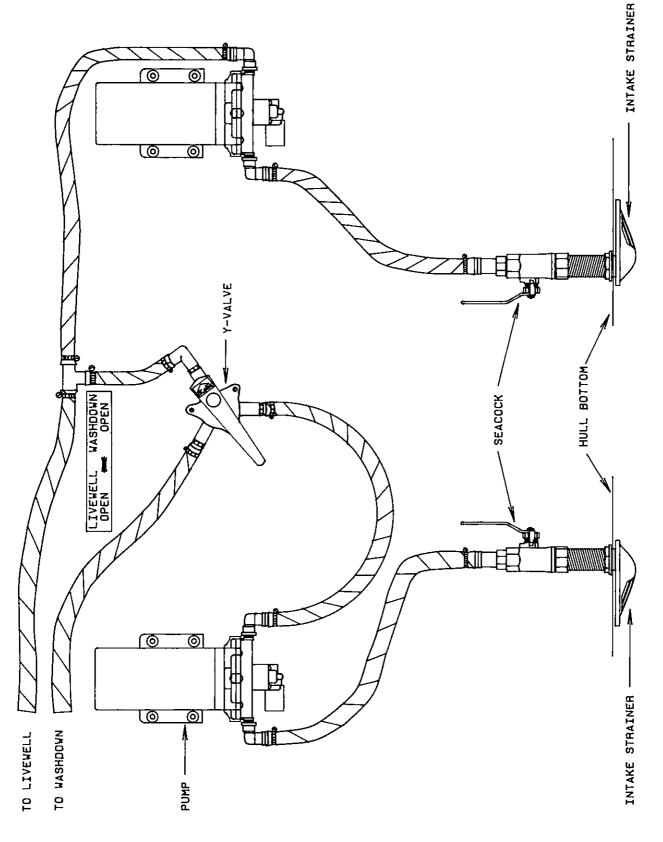
252 HARDTOP WIRING DIAGRAM

# 252 DOCKSIDE POWER WIRING DIAGRAM





# 252 PRESSURIZED SHOWER/HOT WATER SYSTEM



### LIVEWELL/WASHDOWN SYSTEM

## 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 throughbolted 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 hulllliner and secured all

around.

The fiberglass liner
The fiberglass liner of your GradyWhite 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
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 absorbtion.

Rigging tubes -

Port rigging tube (under gunwale)

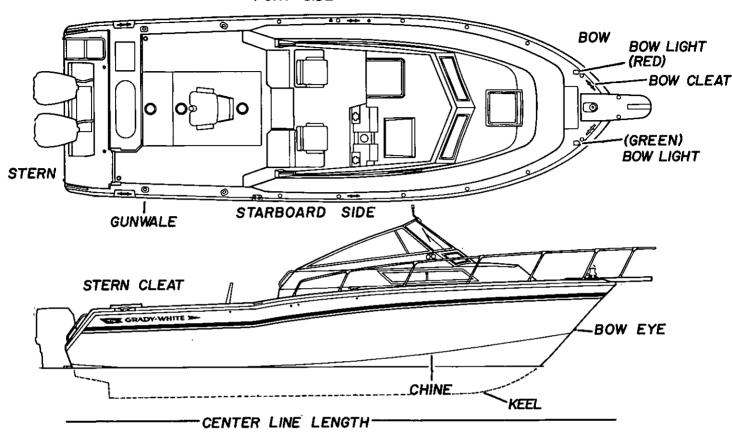
Floatation

Rigging tube for Tournament Series only

### HULL/DECK/LINER LAYOUT

### **COMMONLY USED NAUTICAL TERMS**

### PORT SIDE



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

abalt — a point on a boat that is alt 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 enchor

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

huli — 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

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 — laterial 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

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### 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:

- 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 the boat.
- 5. This warranty specifically does not apply to engines, outdrives, propellors, controls, mechanical steering, blige pumps, and any other part expressly warranted by the manufacturer thereof. In addition, also excluded are gel coat cracking, gel coat cracking, 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 spertures.
- 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 bost who will effect the corrective action under this warranty upon prior written authorization from Grady-White Bosts, incorporated.

THESE WARRANTIES ARE EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES, DURATION OF ANY IMPLIED WARRANTY OF MERCHANTIBILITY 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)