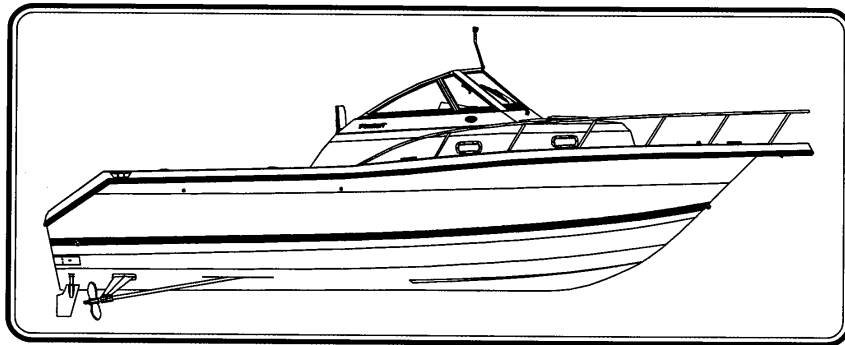


# ***PURSUIT***®

## **2800 WALKAROUND OWNER'S MANUAL**

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**PURSUIT, FISHING BOATS**  
3901 St. Lucie Blvd.  
Ft. Pierce, Florida 34946

**PURSUIT® 2800 WALKAROUND**

Print Date 3/96

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***PURSUIT*** 2800 WALKAROUND

# BOAT INFORMATION

BOAT	
MODEL:	HULL SERIAL #:
PURCHASE DATE:	DELIVERY DATE:
IGNITION KEY #:	REGISTRATION #:
DRAFT:	WEIGHT:
ENGINE(S)	
MAKE:	MODEL:
PORT SERIAL #:	STARBOARD SERIAL #:
TRANSMISSION(S) (Inboard)	
MAKE:	MODEL:
PORT SERIAL #:	STARBOARD SERIAL #:
RATIO:	
OUTDRIVE(S) (Inboard/Outboard)	
MAKE:	MODEL:
PORT SERIAL #:	STARBOARD SERIAL #:
PROPELLER(S)	
MAKE:	BLADES:
DIAMETER/PITCH:	OTHER:
TRAILER	
MAKE:	MODEL:
SERIAL #:	GVRW:
DEALER	PURSUIT
NAME:	PHONE:
DEALER/PHONE:	REPRESENTATIVE:
SALESMAN:	ADDRESS:
SERVICE MANAGER:	
ADDRESS:	

**PURSUIT® 2800 WALKAROUND**

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***PURSUIT*® 2800 WALKAROUND**

## IMPORTANT INFORMATION

Your **PURSUIT** 2800 Walkaround Owner's Manual has been written to include a number of safety instructions to assure the safe operation and maintenance of your boat. These instructions are in the form of **WARNING**, **CAUTION** and **DANGER** statements. The following definitions apply:



**IMMEDIATE HAZARDS WHICH WILL RESULT IN SEVERE PERSONAL INJURY OR DEATH.**



**HAZARDS OR UNSAFE PRACTICES WHICH COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH.**



**HAZARDS OR UNSAFE PRACTICES WHICH COULD RESULT IN MINOR PERSONAL INJURY OR PRODUCT AND PROPERTY DAMAGE.**

All instructions given in this book are as seen from the stern looking toward the bow, with starboard being to your right, and port to your left. A glossary of boating terms is included.

**IMPORTANT NOTE:** Your boat uses internal combustion engines and flammable fuel. Every precaution has been taken by Pursuit Fishing Boats to reduce the risks associated with possible injury and damage from fire or explosion, but your own precaution and good maintenance procedures are necessary in order to enjoy safe operation of your boat.

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***PURSUIT.* 2800 WALKAROUND**

## **SERVICE INFORMATION**

Please fill out the following information section and leave it in your 2800 Walkaround Owner's Manual. This information will be important for you and Pursuit service personnel to know, if and when you may need to call Pursuit for technical assistance or service.

CUSTOMER'S NAME	
ADDRESS	
CITY	STATE ZIP
PHONE HOME: OFFICE:	
DEALER	
ADDRESS	
CITY	STATE ZIP
PHONE	
PURCHASE DATE	ENGINE MAKE
DELIVERY DATE	ENGINE NUMBER
HULL NUMBER	

Pursuit Fishing Boats reserves the right to make changes and improvements in equipment, design and vendored equipment items, at any time without notification.

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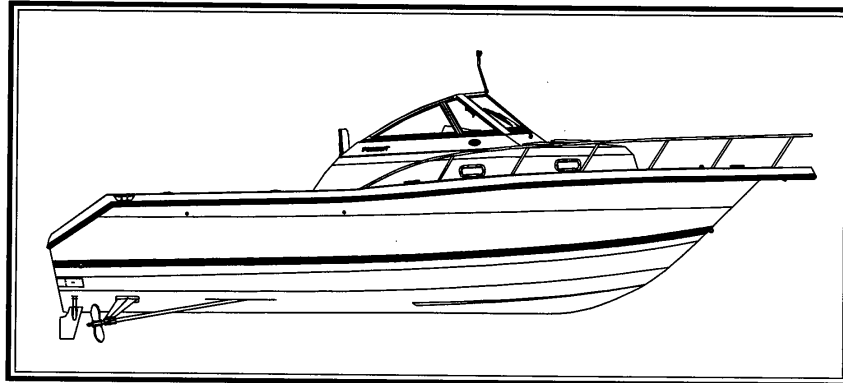
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***PURSUIT*® 2800 WALKAROUND**

## *Chapter 1:* **PROPULSION SYSTEM**



*2800 Walkaround*

### **1.1 General**

The Pursuit 2800 Walkaround is designed to be powered with twin gasoline or diesel inboard engines. Each manufacturer of the various marine power components provides an owner's information manual with its product. It is important that you read the manual(s) very carefully and become familiar with the proper care and operation of the engines and drive systems. A warranty registration card has been furnished with each new engine and can be located in the engine owner's manual. All information requested on this card should be filled out completely by the dealer and purchaser and then returned to the respective engine manufacturer as soon as possible.



**DO NOT ATTEMPT TO SERVICE ANY ENGINE OR DRIVE COMPONENT WITHOUT BEING TOTALLY FAMILIAR WITH THE SAFE AND PROPER SERVICE PROCEDURES. CERTAIN MOVING PARTS ARE EXPOSED AND CAN BE DANGEROUS TO SOMEONE UNFAMILIAR WITH THE OPERATION AND FUNCTION OF THE EQUIPMENT.**



**USE ONLY CLEAN, DRY FUEL OF THE TYPE AND GRADE RECOMMENDED BY THE ENGINE MANUFACTURER. THE USE OF INCORRECT OR CONTAMINATED FUEL CAN CAUSE ENGINE MALFUNCTION AND SERIOUS DAMAGE.**

## 1.2 Drive Systems

On inboard propulsion systems, all shifting and gearing components are installed inside the hull. Only the propeller shafts and associated equipment are under water. The engines are mounted below the bridge deck sole. A transmission, also called a gearbox, which performs desired shifting functions, is directly coupled to each engine. The propeller shaft extends through the hull and connects the transmission output coupling with the propeller. Some inboard transmissions have built-in reduction gearing. This gearing reduces the speed of the propeller in relation to engine speed.



**ALWAYS RETURN THE ENGINE THROTTLE LEVERS TO THE EXTREME LOW SPEED POSITION BEFORE SHIFTING. NEVER SHIFT THE UNIT WHILE THE ENGINE SPEED IS ABOVE 1000 RPM.**

All transmissions require oil or fluid of some type for lubrication. This level should be checked at the same interval as the engine oil level.

Your boat is equipped with transmissions supplied by the engine manufacturer. For details on the transmission, refer to the engine or transmission owner's manual.

## 1.3 Engine Exhaust System

Engine exhaust exits the rear of the boat through the exhaust system. The system consists of engine exhaust manifolds, exhaust hoses, mufflers, and thru-hull exhaust fittings.

Inboard boats use the exhaust system to relinquish exhaust gases and cooling water. A periodic inspection of the hoses, mufflers and related parts should be made to insure that leaks or heat deterioration have not resulted. Periodically inspect these items for signs of deterioration or damage. Replace them as necessary.



**DO NOT INHALE EXHAUST FUMES! EXHAUST CONTAINS CARBON MONOXIDE THAT IS COLORLESS AND ODORLESS. CARBON MONOXIDE IS A DANGEROUS GAS THAT IS POTENTIALLY LETHAL.**

## 1.4 Engine Cooling System

All marine engines use surface water as a cooling medium. The cooling water enters the system through a water intake in the hull and is expelled through the exhaust system. Water is pumped through the water inlets, circulated through the engine block or heat exchanger, and relinquished



with the exhaust gases through the exhaust system. The water pump uses a small impeller made of synthetic rubber. The impeller and water pump cannot run dry for more than a few seconds.

Inboard engines use a thru hull water intake scoop and strainer. This strainer is located on the hull bottom and must be kept free of mud, weeds and other debris. A ball valve is provided on each intake thru hull. Be sure these valves are in the open position before operating the boat engines.

A standard in-line sea strainer is located above the intake thru hull strainers. These should be visually inspected periodically, by looking through the glass case, for accumulation of marine growth, weeds, and other foreign objects. If clogged or dirty, the strainer should be cleaned.



**A CLOGGED SEA STRAINER CAN RESTRICT THE SUPPLY OF COOLING WATER TO THE ENGINE AND EXHAUST COMPONENTS, WHICH COULD RESULT IN SEVERE ENGINE AND EXHAUST SYSTEM DAMAGE.**

#### **Cleaning the sea strainers**

- Turn off the engines.
- Close the engine water intake valve.
- Open the top of the strainer and remove the screen.
- Thoroughly flush the screen and the inside of the strainer to remove foreign matter.
- Lubricate the seal.
- Reassemble the strainer making sure that all fasteners are tight.
- Open the intake valve.
- Start the engine and inspect the strainer for leaks.



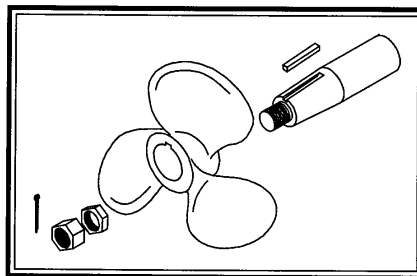
**SHOULD AN ENGINE INTAKE, EXHAUST OR COOLING HOSE RUPTURE, CLOSE THE ENGINE WATER INTAKE VALVE IMMEDIATELY. PROCEED, UNDER TOW IF NECESSARY, TO A SERVICE FACILITY FOR APPROPRIATE REPAIRS. MAINTAIN A CLOSE VISUAL WATCH ON THE PROBLEM HOSE AND THE BILGE WATER LEVEL.**

Inboard boats utilize an exhaust hose to relinquish cooling water. A periodic inspection of the hose, muffler and related parts should be made to insure that leaks or heat deterioration have not resulted. Installation of "Freshwater Cooling" provides adequate engine cooling without exposing the internal engine cooling system to the harmful effects of surface water. This system is standard with

diesel and gasoline engines on the 2800 Pursuit. The engine owner's manual provides additional information regarding service and maintenance of this equipment.

## 1.5 Propellers

When the boats are shipped, the propellers are not factory installed. Initial installation of the propellers will be performed by the dealer during pre-delivery service. Should it be necessary to change propellers, always use an appropriate removal tool or "Prop Puller." Do not attempt removal using a hammer. Damage to the propeller, propeller shaft, or transmission can result.



*Propeller Installation*

A few simple steps will enable you to install a propeller. First, insure that no burrs or rough edges exist on the shaft, key, and both keyways. Try the key into the keyways. It must slide freely into position without having sideplay. It might be necessary to file the key with a flat file to create the correct tolerance.

To ensure the proper fit of your propeller, follow these procedures:

- Step 1: Without the key installed, slip the propeller on the shaft by hand as far as it will go. Mark the location at the front of the hub with a dry-mark and remove the propeller.
- Step 2: Install the key in the shaft.
- Step 3: Again, slide the propeller into position by hand. Please note that the key should not extend beyond the forward edge of the propeller hub. The propeller should reach the same spot as before. If it does not, the key has probably moved up the keyway, or the key does not fit properly in one or both of the keyways.



**DO NOT ATTEMPT TO OPERATE THE BOAT IF THE PROPELLER DOES NOT FIT PROPERLY ON THE SHAFT. PROBLEMS SUCH AS SHAFT VIBRATION, PROPELLER HUB FAILURE OR SHAFT FAILURE MAY OCCUR.**

If not properly installed, the propeller will be off balance and this is a frequent cause of vibration. It could also cause the propeller hub to split.

When installing the shaft nuts, take care not to tighten them too much. Do not force the nut into a tighter position by using a hammer or extension on the arm of the wrench. Tighten the thin nut, then lock the wide nut tight against the thin nut and insert the cotter pin.

**SPECIAL NOTE:** Before changing propellers to correct boat performance problems, be sure other factors such as engine tuning, bottom and running gear growth, etc., are not the source of performance changes.

**SPECIAL NOTE:** Always be sure the engine is properly tuned and load conditions are those normally experienced, before changing propellers.

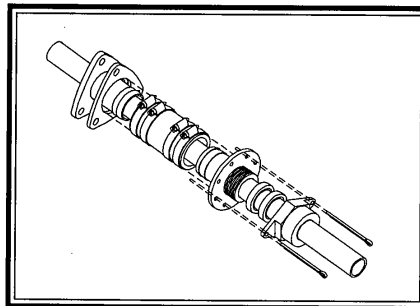
## 1.6 Running Gear



**KEEP AWAY FROM THE PROPULSION MACHINERY DURING ITS OPERATION OR WHENEVER THE BOAT IS IN MOTION. MOVEMENT OF WATER PAST A PROPELLER CAN CAUSE THE PROPELLER, SHAFT AND OTHER PROPULSION MACHINERY TO ROTATE EVEN IF THAT EQUIPMENT IS NOT BEING OPERATED INTENTIONALLY.**

### Shaft Log and Seal

The shaft logs, which are fastened into the hull bottom, allow the propeller shafts to extend and rotate through the hull with only limited water leakage occurring. The stuffing boxes are connected to the shaft logs by a length of special flexible hose which serves to absorb any normal shaft vibration. The stuffing box prevents the water from leaking around the shaft into the boat. The packing gland, or stuffing box is packed with rings of flax packing which is compressed around the shaft by the packing nut or retainer. The packing nut has right hand threads and a cotter pin to lock the packing nut in position.



*Propeller Shaft Seal  
(See Chapter 15 for detailed schematic)*

If a propeller shaft stuffing box is found to be leaking due to wear caused by the rotating shaft, it can usually be stopped by tightening the packing nut. First, remove the cotter pin. Then, the packing nut should be tightened only enough to prevent water leakage when the shaft is not rotating. **Do not overtighten the packing nut.** Overtightening may score the shaft. Minor dripping may occur and is not considered a problem during operation. A very light leak, approximately 6-10 drops per minute with the engine in gear at idle, is desirable as it lubricates the packing. After adjusting the packing nut, replace the cotter pin to lock the nut in position.



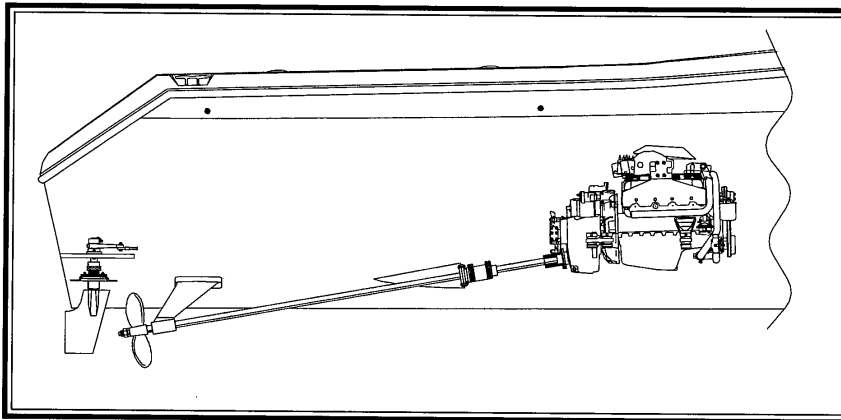
**ALWAYS BE SURE THE COTTER PINS ARE PROPERLY INSTALLED TO PREVENT THE PACKING NUTS FROM LOOSENING.**

After tightening the packing nuts, operate the boat at low speeds for 10-15 minutes and recheck the packing nuts to be sure that they are not hot; if so, loosen slightly. If leakage cannot be corrected without experiencing heat generation, repacking is necessary. Repacking will also be necessary if the stuffing box leakage persists after the boat has been in use for some time and tightening does not correct it. The packing nut must be removed and the old packing replaced with new packing rings. Use only flax or teflon packing as graphite packing will cause corrosion on the propeller shaft and shaft log in salt water. The ends of each packing ring should touch each other and the joints should be staggered.

Proper performance of the shaft log is directly dependent upon correct propeller shaft alignment. Propeller damage, a bent strut or shaft, or abnormal wear, settling, etc. are common reasons for misalignment and can cause such problems as repeated shaft leakage, packing nuts becoming loose, premature packing failure, shaft log and assembly damage, premature cutlass bearing wear, etc. It is, therefore, important that the alignment be periodically checked and adjustments be made when necessary.

### Struts

The struts are the metal castings bolted to the bottom of the hull to secure the aft end of the propeller shafts. A replaceable cutlass bearing, also called a strut bearing, is used to minimize shaft wear. The strut bearing should be inspected once a year, or whenever the boat is hauled, to insure that



*Running Gear*

there has been no damage or deterioration and that the strut bearing is not worn excessively. Upon inspection of the bearing, a small amount of play between the propeller shaft and bearing, .008" to .010", is normal. This gap allows water to pass between the bearing and the shaft to lubricate the bearing surface. If the rubber bearing shows signs of deterioration, or excessive wear, greater than .015" play between the bearing and the shaft surfaces, the bearing should be replaced and you should contact your Pursuit dealer. It is advisable, during lay-up periods, to insert some castor oil into the rubber bearing to keep it from "freezing" to the shaft. Never use machine oil or grease on the rubber bearing.



THE OPERATION OF THE BOAT IN HEAVILY SILTED OR POLLUTED WATER, WITH A DAMAGED PROPELLER, A DAMAGED PROPELLER SHAFT OR WITH THE ENGINE OUT OF ALIGNMENT, CAN SIGNIFICANTLY SHORTEN THE LIFE OF THE STRUT BEARING. IF YOU EXPERIENCE ANY OF THESE SITUATIONS, THE BEARING SHOULD BE CHECKED MORE FREQUENTLY.

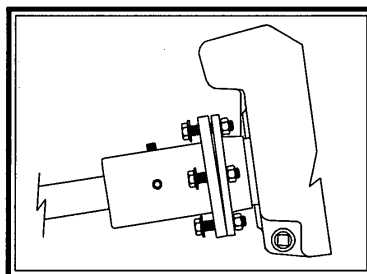


ALWAYS CHECK THE ENGINE ALIGNMENT AFTER REPLACING THE STRUT BEARING.

### Propeller Shaft Alignment

The propeller shaft coupling and the transmission coupling should be checked for proper alignment beginning with the first launching, again after 25 hours of engine operation, and annually thereafter. The alignment should especially be checked if noise or vibration occurs.

Excessive vibration, abnormal shaft log wear, or broken propeller shaft coupling bolts are an indication of misalignment. Misalignment can also cause severe damage to the shaft log, strut, shaft and the engine transmission. Realignment should only be performed by a qualified service person.



*Propeller Shaft Coupling  
(See Chapter 15 for detailed schematic)*

The correct procedure for checking the shaft alignment so a boat owner can determine if service work is required, is as follows:

- Step 1: Remove the bolts that secure the propeller shaft flanges.
- Step 2: Hold the propeller shaft flange firmly against the transmission flange.
- Step 3: Try to insert a .003" feeler gauge at the top, the bottom and at both sides between the flanges. If it can be easily inserted between the flanges in any area, try inserting a larger feeler gauge until you determine the amount of variance.
- Step 4: While holding the transmission flange, turn the prop shaft 90 degrees and repeat step 3. A straight shaft in proper alignment will not allow the insertion of a feeler gauge larger than .003", regardless of the prop shaft position.
- Step 5: If a gap larger than .003" is found and the gap moves as the shaft flange is rotated, the flange or the prop shaft is bent out of tolerance and must be replaced or removed and straightened. If the gap remains at the same position regardless of the propeller shaft rotated position, the engine must be realigned. At this point, a Pursuit dealer should be contacted.

**NOTE:** The boat should always be at rest in the water when checking or aligning the propeller shaft.

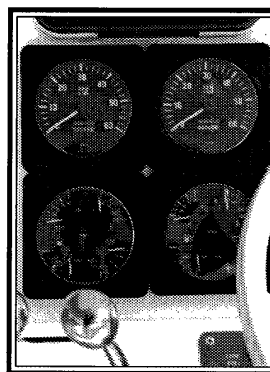


**MAKE SURE THE PROPELLER SHAFT FLANGE BOLTS ARE TIGHTENED SECURELY AFTER CHECKING THE ENGINE ALIGNMENT AND BEFORE OPERATING THE BOAT.**

**SPECIAL NOTE:** Lifting the boat with lifting straps over the prop shafts will cause the shafts to become bent. Always position lifting straps so they are clear of the running gear.

## 1.7 Engine Instrumentation

The helm station is equipped with a set of engine instruments and/or alarms. These instruments allow the pilot to monitor the engine operational conditions. Close observation of these instruments allows the pilot to operate the engines at the most efficient level and could save the engines from serious costly damage. The instrumentation is unique to the type of inboard motors installed on your Pursuit. Some or all of the following gauges may be present.



*Instrument Panel*

### **Tachometer**

The tachometer displays the speed of the engine in revolutions per minute (RPM). This speed is not the boat speed nor necessarily the speed of the propeller. The tachometer may not register zero with the key in the "OFF" position.



**NEVER EXCEED THE MAXIMUM RECOMMENDED OPERATION RPM OF THE ENGINE. MAINTAINING MAXIMUM, OR CLOSE TO MAXIMUM RPM FOR EXTENDED PERIODS CAN REDUCE THE LIFE OF THE ENGINE.**

### **Speedometer**

The speedometer indicates the speed of the boat in miles per hour.

### **Temperature**

The temperature gauge shows the temperature of the engine cooling system. A sudden increase in the temperature could indicate an obstructed water inlet or an impeller failure.



CONTINUED OPERATION OF AN OVERHEATED ENGINE CAN RESULT IN ENGINE SEIZURE. IF AN UNUSUALLY HIGH TEMPERATURE READING OCCURS, SHUT THE ENGINE OFF IMMEDIATELY. THEN INVESTIGATE AND CORRECT THE PROBLEM.

#### **Fuel Gauge**

The fuel gauge indicates the amount of fuel in the fuel tank. This gauge is merely a relative indication of the available fuel supply and not a calibrated instrument. The fuel gauge switch located on the helm is used to switch the gauge reading to the port or starboard fuel tank.

#### **Voltmeter**

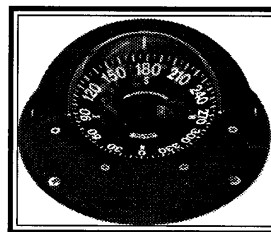
The voltmeter displays the voltage for the battery and the charging system. The normal voltage is 11 to 12 volts with the engine off, and 13 to 14.5 volts with the engine running.

#### **Hour Meter**

The hour meter keeps a record of the operating time for the engine. The hour meters are located in the helm instrument panel or near the battery selector switches in the stern.

#### **Compass**

The compass is on top of the console. To adjust the compass for your area, read the instructions on "Compass Compensation" given to you in the literature packet.



*Compass*

#### **Engine Alarm**

Most inboard engines are equipped with an audible alarm system mounted in the helm area that monitors selected critical engine systems. The alarm will sound if one of these systems begins to fail. Refer to the engine owner's manual for information on the alarms installed with your engine.



IF THE ENGINE ALARM SOUNDS, IMMEDIATELY SHUT OFF THE ENGINE UNTIL THE PROBLEM IS FOUND AND CORRECTED.

#### **Instrument Maintenance**

Electrical protection for instruments and ignition circuitry is provided by a set of circuit breakers located near the main battery switch. The ignition switch should be sprayed periodically with a contact cleaner/lubricant. The ignition switch and all instruments, controls, etc. should be protected from the weather when not in use. Excessive exposure can lead to gauge and ignition switch difficulties.

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## *Chapter 2:* **HELM CONTROL SYSTEMS**

### **2.1 General**

The helm controls consist of three systems: the engine throttle and shift controls, the steering system, and the trim tab control switches. These systems provide the operator with the ability to control the direction and attitude of the boat from the helm station.

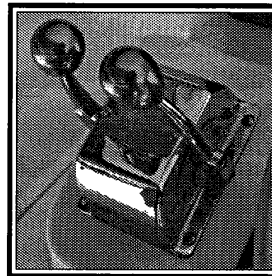
Each manufacturer of the control components provides an owner's manual with its product. It is important that you read the manuals and become familiar with the proper care and operation of the control systems.

### **2.2 Engine Throttle and Shift Controls**

The shift and throttle controls on your boat may vary depending on the engines used. The following control description is typical of most inboard remote controls. Refer to the engine or control manuals for specific information on the controls installed on your Pursuit.

The helm is designed for a binnacle style engine throttle and shift control system that typically consists of three major components: the helm throttle and shift controls, the throttle cables and the shift cables. The cables are the push-pull type. Movement of the helm control arm pushes or pulls a cable that operates the engine throttle or transmission control lever. One control arm and cable is required for each engine throttle to control the carburetors (fuel injection systems on diesels), and one control arm and cable is required to control each transmission. A typical twin engine inboard will have two throttle controls and two transmission controls at each helm station. Each control is equipped with a means of permitting the engine to be operated at a higher than idle RPM while in neutral for cold starting and warm-up purposes. Diesel powered boats may also be equipped with a cable throttle friction brake located on the throttle cable near the fuel injection system.

During most operations of a twin engine boat, it is advantageous for both engines to be operated at the same RPM. This reduces noise, and vibration, and can increase engine efficiency. Setting the throttles so that the engines are running the same RPM (synchronized) can be done by listening to the engine sounds, or with an engine synchronizer. Attempting to synchronize the engines solely by using the tachometer readings or control lever placement generally will not work. When the engines are in proper synchronization, the throttle levers may not necessarily be even.



*Controls*

Please refer to the engine or control manual for more information on the controls installed on your boat.

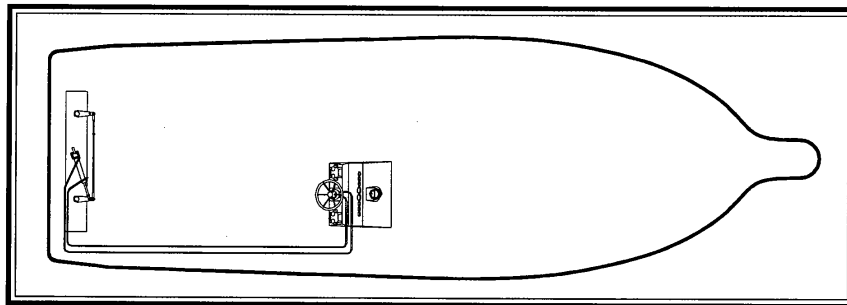
## 2.3 Neutral Safety Switch

Every control system has a neutral safety switch. This device prohibits the engine from being started while the shift lever is in any position other than the neutral position. If the engine will not start, slight movement of the shift lever may be necessary to locate the neutral position and disengage the safety cutout switch. Control or cable adjustments may be required to correct this condition, should it persist. See your Pursuit dealer for necessary control and cable adjustments.

## 2.4 Steering System

The steering system is hydraulic and made of two main components: the helm assembly and the hydraulic cylinder. The helm unit acts as both a fluid reservoir and pump. Turning of the helm, or steering wheel, pumps the fluid in the hydraulic hoses and activates the hydraulic cylinder causing the rudders to turn. A slight clicking sound may be heard as the wheel is turned. This sound is the opening and closing of valves in the helm unit and is normal. Refer to the manufacturer's manual for specific information on the steering system.

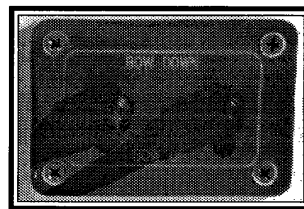
Dual engine inboard boats have two rudders. These are coupled together at the tiller arms by a tie bar. The rudders are toed-in at the front to provide maximum stability on straight ahead runs and proper tracking through corners. Rudder or steering system damage may require the rudders to be realigned.



*Steering System (For detailed schematic, see Chapter 15)*

## 2.5 Trim Tabs

The trim tabs are recessed into the hull below the swim platform. A dual toggle switch is used to control the trim tabs. The switch is labeled and controls bow up and down movements. It also controls starboard and port up and down movements. Bow up and bow down will control the hull planing attitude, while port and starboard up and down provides control for the hull listing.



*Trim Tab Switch*

Before leaving the dock, make sure that the tabs are in the full “UP” position by holding the control in the bow up position for ten (10) seconds.

Always establish the intended heading and cruise speed before attempting to adjust the hull attitude with the trim tabs. After stabilizing speed and direction, move the trim tabs to achieve a level side to side running attitude, being careful not to over trim. After depressing a trim tab switch, always wait a few seconds for the change in trim plane to take effect. **Avoid depressing the switch while awaiting the trim plane reaction.** By the time the effect is noticeable, the trim plane will have moved too far and thus the boat will be in an overcompensated position.

When running at a speed that will result in the boat falling off plane, lowering the tabs slightly, bow down, will improve the running angle and operating efficiency. Too much bow down can reduce operating efficiency and cause substantial steering and handling difficulties.

Be extremely careful when operating in a following sea. The effect of trim tabs is amplified under such conditions. Steering and handling difficulties can result from improper trim tab usage, particularly in a following sea. Always raise the tabs to the full bow up position in these conditions.

**When running at high speeds be sure that the tabs are in the full “UP” position.** Only enough trim plane action should be used to compensate for any listing. Trim tabs are extremely sensitive at high speeds. Adjust for this and be prepared to slow down if difficulties arise. When running into a chop, a slight bow down attitude will improve the ride. Be careful not to over trim, handling difficulties may result.

## 2.6 Control Systems Maintenance

### Control Maintenance

Periodic inspection of the control systems and all connections should be made. Signs of rust, corrosion, wear, or other deterioration should immediately be serviced. Generally, periodic lubrication of all moving parts and connections with a light waterproof grease is in order.

Lubrication should be performed as often as necessary to keep the system operating smoothly.

Control system adjustments may become necessary. If adjustment becomes necessary, see your Pursuit dealer.



**DO NOT ATTEMPT CONTROL SYSTEM ADJUSTMENTS UNLESS YOU ARE FAMILIAR WITH CONTROL SYSTEM SERVICING PROCEDURES. MISADJUSTMENT CAN CAUSE LOSS OF CONTROL AND SEVERE ENGINE OR TRANSMISSION DAMAGE.**

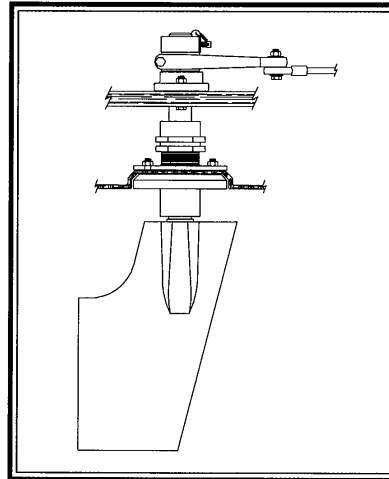
### Steering System Maintenance

A periodic inspection of all steering hoses, linkage and helm assemblies should be made. Signs of corrosion, cracking, loosening of fastenings, excessive wear, or deterioration should be immediately corrected. Generally, periodic lubrication of all moving parts and connections with a light waterproof grease is in order. Failure to do so could lead to steering system failure that would result in loss of control.

When new, or after repairs, hydraulic steering systems may need to have all air purged from the system. Review the information provided by the steering manufacturer for proper specifications and details on system service and maintenance.

The boat should also be periodically inspected for leakage around the rudder port packing nuts. The packing nut should be tight enough to prevent leakage, yet loose enough so excessive drag is not placed on the rudder shaft. Hard steering could otherwise result.

If the rudder port is found to be leaking, it can usually be stopped by tightening the packing nut. First, loosen the lock nut. Then, tighten the packing nut just enough to prevent water leakage. After adjusting the packing nut, retighten the lock nut against the packing nut.



*Rudder Port and Tiller Arm Assembly*

If the leakage cannot be stopped without exerting excessive drag on the rudder shaft, the rudder port will require repacking. To repack the rudder port, the packing nut must be removed. Then, remove the old packing and replace it with new packing rings. When repacking, use only flax or teflon packing. **Graphite packing may cause corrosion in saltwater and should not be used.** The ends of each packing ring should touch each other and the joints should be staggered. Press the new packing rings into the packing nut and reinstall on the rudder port. Tighten just enough to prevent water leakage. After adjusting the packing nut, always retighten the lock nut against the packing nut. For assistance in repacking the rudder port, please contact your Pursuit dealer or the Pursuit Customer Relations Department.



ALWAYS BE SURE THE LOCK NUT IS TIGHTENED SECURELY TO PREVENT THE PACKING NUTS FROM LOOSENING. THE PACKING NUT MUST BE HELD STATIONARY WHILE TIGHTENING THE LOCK NUT.



TO ELIMINATE THE POSSIBILITY OF SINKING FROM EXCESS WATER LEAKING INTO THE BILGE THROUGH THE RUDDER PORT, THE BOAT SHOULD BE HAULED AND PROPERLY BLOCKED BEFORE ATTEMPTING TO REPLACE THE RUDDER PACKING.

#### **Trim Tab Maintenance**

Marine growth can interfere with the proper operation of the trim tab planes and actuators. Periodically inspect and clean marine growth from the actuators and planes.

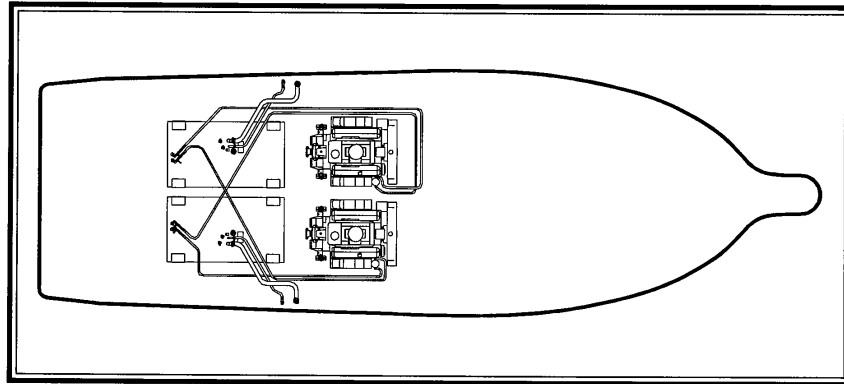
The trim tab fluid should be checked often. Keep the fluid level between the marks on the trim tab pump reservoir.

The trim tabs are bonded to the transom zinc to prevent galvanic corrosion. Refer to the trim tab owner's manual for additional maintenance information and fluid specifications.

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***PURSUIT*** 2800 WALKAROUND

## Chapter 3: FUEL SYSTEM



*Fuel System*  
(For a detailed schematic, see Chapter 15)

### 3.1 GENERAL

The fuel system used in Pursuit boats is designed to meet or exceed the requirements of the U.S. Coast Guard, the Boating Industry Association, and The American Boat and Yacht Council in effect at the time of manufacture.

All gasoline and diesel fuel systems have been factory inspected and pressure tested in accordance with regulations in effect at the time of manufacture. This inspection assures that the system is air tight, leak proof and safe. It is the responsibility of the purchaser to maintain it in that condition. Make frequent inspections to assure that no deterioration or loosening of connections is resulting from vibration.



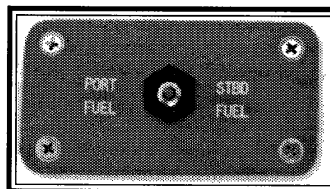
**DO NOT LET THE ODOR OF GASOLINE GO UNCHECKED. ANY ODOR OF GASOLINE MUST BE IMMEDIATELY INVESTIGATED AND STEPS TAKEN TO PROTECT THE BOAT AND ITS OCCUPANTS UNTIL THE PROBLEM IS CORRECTED. IF THE ODOR OF GASOLINE IS NOTED, SHUT OFF ALL ENGINES AND ELECTRICAL EQUIPMENT. INVESTIGATE AND CORRECT THE SITUATION IMMEDIATELY. HAVE ALL PASSENGERS PUT ON PERSONAL FLOTATION DEVICES AND KEEP FIRE EXTINGUISHERS READY UNTIL THE SITUATION IS RESOLVED.**

### Fuel Withdrawal Tubes

The fuel withdrawal tubes are positioned in the fuel tanks to achieve optimum fuel usage, fuel line routing, etc. At certain speeds and hull trim angles, the fuel supply at the withdrawal tank location can increase or decrease accordingly. Be extremely careful when attempting to operate the boat when low on fuel. Though some fuel may be in the tank, the relative trim angle of the boat may cause the fuel to flow away from the withdrawal tubes.

### Fuel Gauge

This indicates the amount of fuel in the tanks. Due to the mechanical nature of the fuel sender, variations in readings during various speeds of operation may occur. This system is merely a relative indication of the available fuel supply and not a calibrated instrument. The fuel gauge switch located on the helm is used to switch the gauge reading to the forward or rear fuel tank.

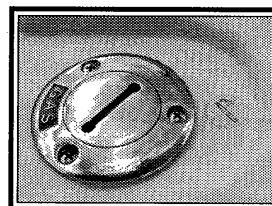


*Fuel Gauge Switch*

**Note:** The fuel gauge switch will not have any effect on the fuel supply to the engines. The fuel supply must be controlled by the valves located near the fuel withdrawal tubes on the fuel tanks.

### Fuel Fills

Fuel fill deck plates are located on both side decks, and are marked "GAS". Be sure to use the proper type and grade fuel. Refer to the engine owner's manual for additional information.



*Fuel Fill*



**DO NOT CONFUSE FUEL FILL DECK PLATES WITH THE WATER OR WASTE FILL DECK PLATES. THESE PLATES ARE ALSO LABELED ACCORDINGLY.**

### Fuel Vents

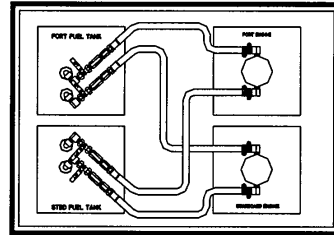
There are two fuel vent fittings, one on each side of the hull. While the tank is being filled, the air displaced by the fuel escapes through the vent. When the tank is full, fuel will be ejected from the fuel vent.

After fueling, replace the fill cap(s), and wash the areas around the fuel fill plates and below the fuel vent(s). Residual fuel left on the deck and hull sides can be dangerous and will yellow the fiberglass or damage the striping.



## 3.2 Gasoline Engine Fuel System

The fuel system on the Pursuit 2800 has two fuel tanks and four manual fuel valves. There is one "ON/OFF" valve for each engine fuel line on each tank. The fuel valves are located on the top of the fuel tanks below the inspection plates in the rear of the cockpit. The valves are off when the handle is perpendicular to the fuel flow. The fuel valves allow the operator to run the engines from both tanks or from either the port tank, which fills from the port gunnel, or the starboard tank, which fills from the starboard gunnel.



*Fuel Valves*

During normal operation, the port engine should be supplied fuel from the port tank and the starboard engine supplied fuel from the starboard tank. The fuel valves on each tank are labeled port and starboard. The labels refer to the engine the valve supplies. If a fuel supply problem should occur in one of the fuel tanks, both engines can be temporarily operated from either the port or starboard fuel tank by opening both valves on that tank. The fuel valves on the port tank should be off when operating both engines on the starboard tank and the fuel valves on the starboard tank should be off when operating both engines on the port tank. Operating the boat with all four fuel valves open is not recommended and should be avoided.

**Note:** The engines will not draw fuel equally from the fuel tanks when the fuel valves are set so both engines are operating from both tanks (all four fuel valves open.) This could result in one tank being exhausted of fuel while the other tank is partially full, causing fuel supply problems.

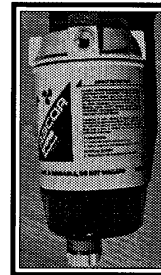
Fuel withdrawal lines are equipped with anti-siphon valves where the lines attach to the fuel tanks. These valves prevent gasoline from siphoning out of the fuel tank should a line rupture.



**DO NOT REMOVE THE ANTI-SIPHON VALVES FROM THE SYSTEM. SHOULD AN ANTI-SIPHON VALVE BECOME CLOGGED, CLEAN AND RE-INSTALL OR REPLACE.**

### Gasoline Fuel Filter

Each gasoline engine is equipped with a spin on, water separator type fuel filter. The filter should be checked frequently and changed at least annually to assure an adequate supply of clean, dry fuel to the engine. It is recommended that the filters are inspected after the first 25 hours of use and then serviced as needed. Follow the engine or filter manufacturer's instructions for servicing or replacing the fuel filters.



*Fuel Filter*



TO REDUCE THE POSSIBILITY OF A FIRE OR EXPLOSION, MAKE SURE ALL ELECTRICAL SWITCHES ARE IN THE "OFF" POSITION BEFORE SERVICING THE FUEL SYSTEM.



DO NOT DRAIN ANY FUEL IN THE BILGE. THIS COULD LEAD TO A FIRE OR EXPLOSION.



CHECK ALL FITTINGS FOR LEAKS BEFORE AND AFTER STARTING THE ENGINES.



BEFORE STARTING THE ENGINES, ALWAYS OPEN ALL HATCHES, WINDOWS, AND DOORS AND RUN THE BLOWER FOR AT LEAST FIVE (5) MINUTES TO COMPLETELY VENTILATE THE BOAT AFTER SERVICING THE FUEL SYSTEM.

### 3.3 Diesel Engine Fuel System

The diesel fuel system works much like the gas system. The main difference is the diesel system is not equipped with anti-siphon valves and there is a fuel return line for each engine.

Proper diesel engine operation requires a good supply of clean, dry diesel fuel. Improper marina fuel storage techniques, limited boat usage, etc. can cause the fuel to become contaminated. Periodically, it may be necessary to siphon accumulating water and contaminated fuel from the bottom of the fuel tanks. If the fuel system on your boat becomes contaminated, contact your dealer or the Pursuit Customer Relations Department for assistance.

Algae can grow in the accumulated water in diesel fuel tanks. This condition is most prevalent in warm climates. Periodically adding a high quality diesel fuel additive containing an algicide may be required to control algae in your boating area. Please contact your Pursuit dealer or engine manufacturer for additional information regarding fuels and additives.

**IMPORTANT:** Do not allow the boat to sit unused for an extended period with the fuel tanks less than full. Changes in temperature and weather conditions can cause condensation in fuel tanks that are less than 3/4 full.

#### Diesel Fuel Filters

The diesel fuel filters are installed on the rear engine room bulkhead. The shut-off valve is located at the fuel tank. Check the filter for water before each use and replace the filter cartridge as needed.

Water is drained from the filters by placing a cup under the filter and draining through the petcock at the bottom of the filter until clean fuel flows. It is particularly important to monitor the condition of the fuel filters frequently because most diesel engines circulate much more fuel than they consume. Because of the volume of fuel that flows through the filters, the elements must be changed at least twice a season or more frequently depending on the quality of the fuel and the hours run. Follow the filter manufacturer's instructions for cleaning and replacing the filter elements.

**IMPORTANT:** Diesel fuel systems may need to be primed after servicing. Refer to the engine owner's manual for information on priming the fuel system.

### 3.4 Fueling Instructions



FUEL IS VERY FLAMMABLE. BE CAREFUL WHEN FILLING THE FUEL TANKS. NO SMOKING. NEVER FILL THE TANKS WHILE THE ENGINES ARE RUNNING. FILL THE FUEL TANKS IN AN OPEN AREA. DO NOT FILL THE TANKS NEAR OPEN FLAMES.



TO PREVENT DAMAGE TO THE FUEL SYSTEM, USE ONLY A GOOD GRADE OF LEAD-FREE OR LEADED GASOLINE FOR GASOLINE ENGINES OR DIESEL FUEL FOR DIESEL ENGINES. DO NOT USE A FUEL THAT CONTAINS HARSH ADDITIVES OR IS AN ALCOHOL BLEND. ANY DAMAGE DONE TO THE FUEL SYSTEM THAT IS THE RESULT OF USE OF AN ALCOHOL BLEND, IS NOT COVERED BY THE PURSUIT WARRANTY. REFER TO THE ENGINE MANUFACTURER OWNER'S MANUAL REGARDING FUEL REQUIREMENTS FOR YOUR ENGINE.

To fill the fuel tanks at a marina, follow this procedure:

1. Make sure all switches are in the "OFF" position.
2. Make sure the boat is securely moored.
3. Make sure all passengers leave the boat.
4. Estimate how much fuel is needed.

**Note:** When the fuel tank is full, fuel will come out through the fuel vent. The fuel vents are located on the side of the boat.

5. A special key to open the fuel caps is supplied.
6. Turn the key counter clockwise to open the cap.
7. Remove the cap.

8. Put the nozzle in the fuel opening.



TO PREVENT STATIC SPARKS WHEN FILLING THE TANK, MAKE SURE THE NOZZLE IS IN CONTACT WITH THE FUEL FILL OPENING.



MAKE SURE YOU DO NOT SPILL ANY FUEL. IF FUEL IS SPILLED, USE A CLOTH TO REMOVE THE FUEL.

9. Fill the fuel tank.
10. Remove the nozzle.
11. Install the fuel cap.
12. Open all hatches, windows and doors. **Run the blower for at least five minutes to completely ventilate the boat.**
13. Check the fuel compartment and below the deck for fuel odors. If you smell fuel, do not start the engine.



BEFORE STARTING THE ENGINES, ALWAYS OPEN ALL HATCHES, WINDOWS, AND DOORS. RUN THE BLOWER FOR AT LEAST FIVE (5) MINUTES TO COMPLETELY VENTILATE THE BOAT AFTER SERVICING THE FUEL SYSTEM.



TO REDUCE THE RISK OF A FIRE AND/OR EXPLOSION, DO NOT START THE ENGINES WHEN FUEL FUMES ARE PRESENT. FUEL FUMES ARE DANGEROUS AND HARMFUL TO YOUR HEALTH.



MAKE SURE ALL GASOLINE ODORS ARE INVESTIGATED IMMEDIATELY.

### 3.5 Fuel System Maintenance

Periodically inspect all connections, clamps and hoses for leakage and damage or deterioration. Replace as necessary. Spray the valves, fuel gauges and ground connections with a metal protector.

Periodically remove the covers from the fuel vents and clean the vent of any debris. Be sure the covers are replaced securely after cleaning. The covers help prevent water and other foreign matter from contaminating the fuel and fuel system. If a vent cover is damaged or lost it should be replaced as soon as possible.

Contaminated fuel may cause serious damage to your engines. The filters must be checked for water and other contamination frequently. The filter elements must be changed at least once a season or more frequently depending on the type of engine and the quality of the fuel. Please refer to the engine or fuel filter manufacturer's instructions for information on servicing and replacing the fuel filter elements.



**DO NOT DRAIN ANY FUEL INTO THE BILGE. THIS COULD LEAD TO A FIRE OR EXPLOSION.**



**AFTER THE FILTER ELEMENT HAS BEEN CHANGED, PRIME THE FUEL SYSTEM AND CHECK ALL FITTINGS FOR LEAKS BEFORE AND AFTER STARTING THE ENGINES.**

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***PURSUIT.* 2800 WALKAROUND**

## *Chapter 4:* **ELECTRICAL SYSTEM**

### **4.1 General**

Your Pursuit is equipped with a 12-volt D.C. electrical system and an optional 110-volt A.C. system. The A.C. system draws current from shore power outlets at dockside. The D.C. system draws current from two on board batteries.

The 12-volt batteries in your boat are usually the lead-acid type. They will require similar maintenance as those found in automobiles.

There are electrical schematics included in this manual to aid in following an individual circuit of the boat.

### **4.2 12-Volt System**

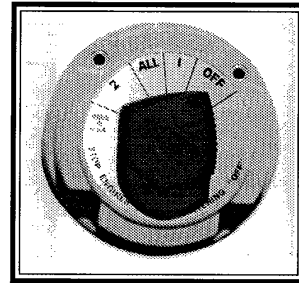
The 12-volt system is a fairly standard system. There are two batteries, one for the starboard engine and one for the port engine. The batteries are controlled by two battery selector switches. The batteries themselves can be charged by either engine separately, both engines simultaneously, or by the battery charger when hooked to shore power. All 12-volt power is distributed to the 12-volt accessories through individual circuit breakers located in the 12-volt switch panels or the circuit breaker panel. A main circuit breaker, located near the battery selector switch, protects the system from an overload. Other circuit breakers, located near the selector switch, protect the circuit for the automatic float switches for the aft and forward bilge pumps. Most 12-volt accessories are operated directly by switches in the helm and accessory switch panels.



**PROPER FUSE OR BREAKER PROTECTION MUST BE PROVIDED FOR ALL 12-VOLT EQUIPMENT ADDED. DO NOT OVERLOAD THE ACCESSORY CIRCUIT BREAKERS OR OTHER CIRCUITRY THROUGH ADDITIONAL 12-VOLT EQUIPMENT.**

### **Battery Selector Switches**

There are two battery selector switches located in the transom area of the boat. One battery switch feeds the starboard engine and the 12-volt accessory panel. The other battery switch feeds the port engine. 12-volt power can be supplied by either battery #1 or battery #2 separately or by both batteries simultaneously. The selector switches also direct the charging current when the engines are operating.



*Battery Selector Switch*

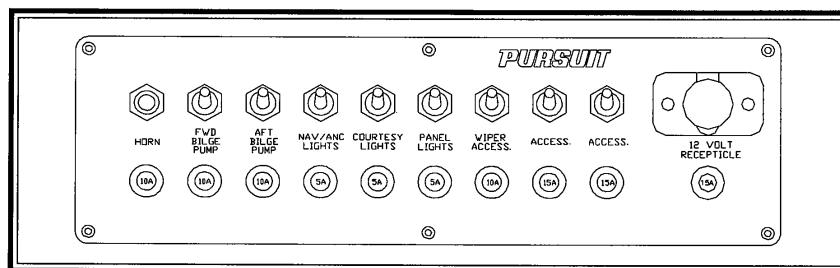
For example: When both selector switches are on battery #1, both engines and the 12-volt panels will be powered by battery #1. Battery #2 will be isolated and in reserve. Battery #1 will be charged by both alternators. When both selector switches are on battery #2, both engines and the 12-volt panels will be powered by battery #2. Battery #1 will now be isolated and in reserve. Battery #2 will then be charged by both alternators.

When both selector switches are on "ALL," the batteries are connected in parallel. Thus, both batteries are used by both engines and all 12-volt equipment. Both batteries will then be charged by both alternators.

The "ALL" or "BOTH" positions should only be used when starting the engines, as this requires extra electrical power, or in case of a charging system malfunction on one engine. Otherwise, it is recommended that one selector switch be set on battery #1 and the other switch be on battery #2 when the engines are operating. When in port or at anchor, the switch that supplies the port engine should be off and the switch that supplies the starboard engine should be on either the battery #1 or the battery #2 position. This will keep one battery in reserve for starting the engines. Both switches should be in the "OFF" position when leaving the boat unattended.

**Note:** Current is supplied to the automatic float switch for the bilge pump when the batteries are connected and the battery selector switches are off.





*12-volt Accessory Switch Panel*

### 12-Volt Accessory Switch Panels

The main accessory switch panel is located at the helm. The circuit breakers that protect the accessories are located directly under the switches.

The following is a description of the accessories controlled by the main accessory switch panel:

- |                          |  |
|--------------------------|--|
| <b>Horn</b>              | Activates the boat horn. It is protected by a 10-amp breaker.  |
| <b>Fore Bilge Pump</b>   | Activates the forward bilge pump which is installed in the engine compartment bilge. The pump moves water out through the thru-hull fitting in the hull. To start the pump manually, put the switch in the "On" position. It is protected by a 10-amp breaker.                                       |
| <b>Aft Bilge Pump</b>    | Activates the stern bilge pump which is installed in the rear center of the bilge. The pump moves water out through the thru-hull fitting in the hull. To start the pump manually, put the switch in the "On" position. It is protected by a 10-amp breaker.   |
| <b>Note:</b>             | <b>The bilge pumps will start automatically when there is sufficient water in the bilge to activate the float switches. The float switches are protected by 10-amp circuit breakers located near the battery selector switches and are always supplied current when the batteries are connected.</b> |
| <b>Anchor/Nav Lights</b> | The switch is a three-position switch. The middle position is "OFF." Moving the switch in one direction will activate the navigation lights. Moving the switch in the opposite direction activates the anchor light. It is protected by a 5-amp breaker.   |
| <b>Courtesy Lights</b>   | Activates the lights that illuminate the cockpit area. It is protected by a 5-amp breaker.   |

**Panel Lights** Activates the engine gauge and compass lights. It is protected by a 5-amp breaker.

**Wiper/Access** Activates the windshield wipers. It is protected by a 10-amp breaker.

#### **Accessory Switches (2)**

These switches are supplied to protect additional equipment that may or may not have been installed by Pursuit or your Pursuit dealer. If no accessories are activated by these switches, they remain wired in the panel in reserve. Some accessories that may be connected to the accessory switches are: The hard-top lights, spreader lights, or electronics. They are protected by 15-amp breakers.

#### **Additional Accessory Switch Panels**

Additional switch panels are located in various locations in the cockpit and helm area of the boat. Most of these panels are equipped with one switch and one circuit breaker. The following is a description of additional panels that may be on your Pursuit and the accessories they control:

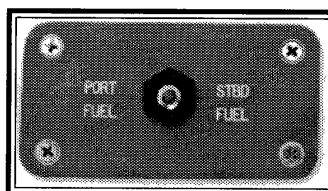
**Baitwell Switch** Located under the gunwale in the cockpit. This switch activates the baitwell circulating pump that supplies water to the baitwell. It is protected by a 15-amp breaker.

**Washdown Pump** Located under the gunwale in the stern of the cockpit. This switch activates the raw water washdown pump. The pump is the pressure demand type and is protected by a 15-amp breaker.

**Note:** Please refer to Chapter 6 for more information on the baitwell and washdown systems.

**Trim Tab Switch** Located in the helm. This switch controls the trim tab planes located on the transom of the boat. It is protected by a 15-amp accessory breaker located behind the helm at the back of the switch. Please refer to Chapter 2 for detailed information on the operation of the trim tab controls.

**Fuel Gauge Switch** The fuel gauge switch panel is located at the helm and allows one fuel gauge to be used for both fuel tanks. With the ignition switch on, move the switch to port and the gauge will show the fuel level in the port fuel tank. Move the switch to starboard and the gauge will show the fuel level in the starboard tank.



*Fuel Gauge Switch*

- Windlass Switch** Located in the helm. This switch controls the optional windlass which is mounted to the deck directly above the rope locker. It is protected by a circuit breaker of the type and rating recommended by the windlass manufacturer.
- Windlass Breaker** The windlass breaker is located on the helm switch panel next to the windlass switch. Push the button in to activate the windlass control switch and push it again to return the breaker to "OFF" whenever the windlass is not in use. This breaker is provided to reduce the possibility of accidentally activating the windlass and provides 25-amp protection.
- Bilge Blower** This switch supplies electrical current to the blower that provides ventilation to the engine compartment prior to start up and while operating below cruise speed. It is protected by a 10-amp breaker.



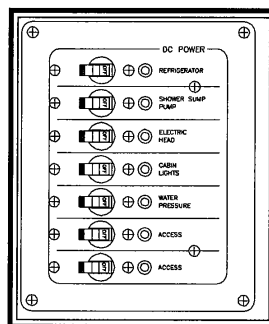
**GASOLINE VAPORS CAN EXPLODE. BEFORE STARTING THE ENGINE, OPERATE THE ENGINE COMPARTMENT BLOWER FOR FIVE (5) MINUTES, OPEN THE ENGINE HATCH, INSPECT THE FUEL SYSTEM AND CHECK THE ENGINE COMPARTMENT FOR THE ODOR OF GASOLINE VAPORS. ALWAYS OPERATE THE BLOWER WHILE THE ENGINE IS AT IDLE AND BELOW CRUISE SPEED. UNDER NO CIRCUMSTANCES SHOULD THIS PROCEDURE BE OVERLOOKED.**

**Note:** Please refer to the **DANGER** and **CAUTION** notations in the **Ventilation Systems**.

- 12-volt Receptacle** Provides electrical current for portable 12-volt equipment. It is protected by a 15-amp breaker.
- Macerator** The macerator switch panel is located in the engine compartment near the macerator pump. It is a momentary switch that activates the overboard macerator discharge system for the holding tank. Refer to the Marine Head System in Chapter 12 for additional information on the operation of the overboard macerator discharge system. It is protected by a 20-amp breaker.
- Engine Hatch** The engine hatch control panel is located in the cockpit. It is a momentary switch that controls the electric actuator for the engine hatch. It is protected by a 25-amp breaker. Refer to Chapter 11 for additional information on the engine hatch lifter.

### Cabin D.C. Accessory Breaker Panel

Power is distributed to the 12-volt cabin accessories through individual circuit breakers located in the D.C. panel. A main breaker located near the battery selector switch and the panel protects the system from an overload. Some 12-volt accessories are operated directly by the circuit breaker in the panel while others are operated by switches fed by the panel breakers.



*Cabin D.C. Panel*



**PROPER FUSE OR BREAKER PROTECTION MUST BE PROVIDED FOR ALL 12-VOLT EQUIPMENT ADDED. DO NOT OVERLOAD THE ACCESSORY CIRCUIT BREAKERS OR OTHER CIRCUITRY THROUGH ADDITIONAL 12-VOLT EQUIPMENT.**

The following is a description of the accessories controlled by the cabin D.C. breaker panel:

<b>Refrigerator</b>	Supplies 12-volt electrical current directly to the optional refrigerator when 110-volt is not being used.
<b>Shower Sump</b>	Supplies 12-volt electrical current directly to the shower sump pump automatic float switch which automatically controls the shower and cabin drain sump pump. Make sure this breaker is on before using the shower or the cabin sinks.
<b>Head</b>	Supplies electrical current directly to the switch which controls the optional electric head. Also supplies electrical current to the optional macerator overboard discharge pump.
<b>Cabin Lights</b>	Supplies 12-volt electrical current to the cabin light switches.
<b>Water Pressure</b>	Supplies 12-volt electrical current directly to the freshwater pump pressure switch located on the pump. The pressure switch automatically controls the water pump when the system is activated and properly primed.
<b>Accessory</b>	Reserved for additional 12-volt equipment. It is protected by a 15-amp breaker.
<b>Accessory</b>	Reserved for additional 12-volt equipment. It is protected by a 15-amp breaker.

### 4.3 110-Volt System (Optional)

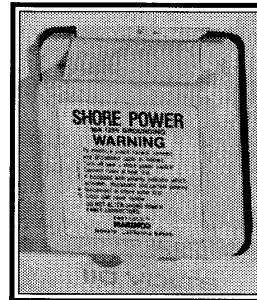
The 110-volt A.C. system is fed by the shore power outlet. It is wired totally separate from the 12-volt D.C. system and is equipped with an onboard isolation system. All 110-volt current is distributed to the 110-volt accessories through individual circuit breakers located in the 110-volt panel. The main breaker in the panel protects the system from an overload and the reverse polarity light indicates any problems due to an improper shore power supply. All A.C. outlets in the cabin are protected by ground fault interrupts to protect against electrical shock. A cord set is provided to supply power from the shore power outlet to the boat's 110-volt A.C. system.



**TO REDUCE THE RISK OF ELECTRICAL SHOCK IN WET WEATHER, AVOID MAKING CONTACT WITH THE SHORE CABLE OR MAKING A CONNECTION TO A LIVE SHORE OUTLET.**



**TO REDUCE THE POSSIBILITY OF AN ELECTRICAL SHOCK, IT IS IMPORTANT THAT THE 110-VOLT A.C. GROUND SYSTEM IS FUNCTIONING PROPERLY AND THAT A PROPER CONNECTION EXISTS BETWEEN THE SHORE POWER CORD AND THE SHORE POWER INLET AND THE OUTLET GROUND CIRCUITS. IF THERE IS ANY DOUBT ABOUT THE INTEGRITY OF THE GROUND CIRCUIT, A QUALIFIED MARINE ELECTRICIAN SHOULD BE CONTACTED IMMEDIATELY AND THE 110-VOLT A.C. SHOULD BE DISCONNECTED UNTIL THE NECESSARY REPAIRS ARE COMPLETED.**



*Shore Power inlet*

#### **Recommended procedure for making a shore connection**

Turn the A.C. main breaker to the "OFF" position. If the dockside outlet includes a disconnect switch, turn it to the "OFF" position also.

To avoid strain on the cable make sure it has more slack than the mooring lines. Dress the cable so that it cannot be damaged by chafing between the boat and the dock. Make sure the cable does not come in contact with the water. Then connect the cable in the plug inlet making sure the connection plug includes a three-prong plug with a ground wire. Tighten the lock rings on both the shore and the boat connector plugs.

Turn the dockside disconnect switch to the "ON" position and check for proper polarity. If reverse polarity has been achieved, the red polarity indicator in the 110-volt panel will light. If this should happen, make sure the main breaker on the panel is in the "OFF" position and turn the dock power switch off. Notify a qualified electrician to check the wiring at the dock outlet. If the red polarity light does not illuminate when power is supplied to the panel, the polarity is correct and the A.C. main switch can be moved to the "ON" position.



**DO NOT ATTEMPT TO CORRECT THE WIRING YOURSELF. ELECTRIC SHOCK CAN CAUSE SEVERE INJURY OR EVEN DEATH. ALWAYS HAVE A QUALIFIED ELECTRICIAN CHECK WIRING.**

#### **Disconnecting procedure for shore power connection**

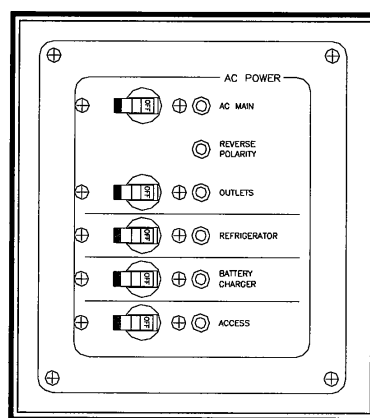
Turn the main breaker on the 110-volt A.C. panel to the “OFF” position.

Turn the disconnect switch on the dockside outlet to the “OFF” position.

Disconnect the cable from the dockside outlet and replace the outlet caps. Disconnect the cable from the boat and replace the inlet cap. Store the cable.

#### **110-Volt A.C. Accessory Breaker Panel**

The A.C. panel is located in the cabin. The following is a description of the A.C. panel equipment and the breakers that protect the accessories:



***A.C. Breaker Panel***

**A.C. Main Breaker** Protects the general distribution network. This breaker is very sensitive. The resulting power surge that occurs when connecting the dockside cord may cause the main breaker to trip. To avoid this surge, always turn the main breaker to the “OFF” position before plugging or unplugging the shore power cord.

**Polarity Light** The red light indicates reverse polarity current supplied to the panel. This situation will cause the red light to remain lit. If reverse polarity is achieved, immediately turn off all cabin 110-volt breakers and dockside outlet breakers and notify a qualified electrician to check the dockside wiring.

**Outlets** Supply electrical current to the cabin electrical outlets.

**Note:** All A.C. electrical outlets are provided with ground fault interrupts to protect against electric shock. These outlets should be tested periodically to insure proper operation.

**Refrigerator** Supplies 110-volt electrical current directly to the optional refrigerator when 110-volt power is available and chosen over the 12-volt power supply. See the refrigerator manual for more information.

**Battery Charger** Supplies electrical current directly to the automatic battery charger. The battery charger automatically charges and maintains the 12-volt batteries simultaneously when activated. See the battery charger manual for more information.

**Accessory** Reserved for additional 110-volt equipment.

## 4.4 Electrical System Maintenance

### 12-Volt D.C. Electrical System Maintenance

At least once a year, spray all exposed electrical components behind the helm and in the plugs, with a protector. Exterior light fixture bulbs should be removed and the metal contact areas coated with a non-water soluble lubricant like petroleum jelly. The sockets should be sprayed with a protector. Care must be taken not to get any oil or petroleum jelly on the glass portion of the bulbs as this will cause the bulb to overheat and burn out.



**WHEN REPLACING LIGHT BULBS IN MARINE LIGHT FIXTURES, ALWAYS USE A BULB WITH THE SAME RATING AS THE ORIGINAL. USING A DIFFERENT BULB COULD CAUSE THE FIXTURE TO OVERHEAT AND MELT OR SHORT CIRCUIT.**

Inspect all wiring for proper support, sound insulation, and tight terminals, paying particular attention to portable appliance cords and plugs.

Check all below deck wiring to be sure it is properly supported, that the insulation is sound, and that there are no loose or corroded terminals. Corroded terminals should be thoroughly cleaned with sandpaper, or replaced, tightened securely and sprayed with a metal and electrical protector. Inspect all engine wiring.

Check the electrolyte level in the batteries regularly and add distilled water as necessary. If the batteries are frequently charged by the automatic battery charger, the electrolyte level will have to be checked more often. Keep the battery tops clean and dry. Dirt and water can conduct electricity from one post to the other causing the battery to discharge. The battery posts should be kept free of corrosion. Remove the cables and clean the posts and cable clamps with a battery post cleaner or sandpaper as required. Coating the battery posts and cable clamps with petroleum jelly will protect them and reduce corrosion. Battery cables, both hot and ground, must be replaced when they show signs of corrosion or fraying. Deteriorated cables cause a considerable voltage loss when

high currents are drawn, as for starting the engine.

#### **110-Volt A.C. Electrical System Maintenance**

Periodically inspect all wiring for nicks, chafing, brittleness, improper support, etc. Examine the shore power cord closely for cracks in the insulation and corrosion in electrical connectors. Spraying receptacles and electrical connections with an electrical contact cleaner or a metal and electrical protector will reduce corrosion and improve electrical continuity.

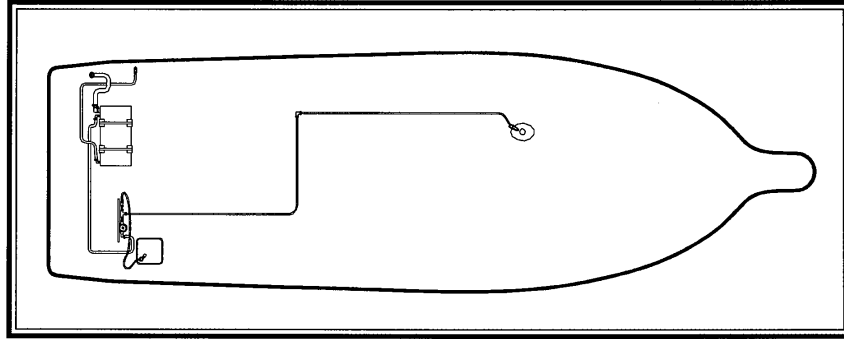
The entire 110-volt circuitry, especially the shore power cord and galvanic isolator, should be seasonally tested for proper continuity by an experienced electrician. This will detect any shorts, open wires, or ground faults. The polarity indicator system should also be inspected for proper operation.



**DO NOT ALLOW CORROSION TO BUILD ON CONNECTIONS. SHORTS OR GROUND FAULTS CAN RESULT.**



## Chapter 5: FRESHWATER SYSTEM



*Freshwater System*  
(For a detailed schematic, see Chapter 15)

### 5.1 General

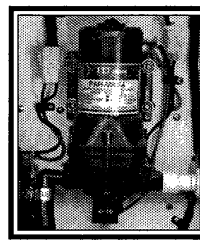
The freshwater system consists of a potable water tank, distribution lines and a distribution pump. The pump is equipped with an automatic pressure switch and is located in the stern bilge. The tank is filled through a labeled deck plate located on the gunnel.



**DO NOT FILL SYSTEM WITH ANYTHING OTHER THAN WATER. SHOULD THE SYSTEM BECOME CONTAMINATED WITH FUEL OR OTHER TOXIC FLUIDS, COMPONENT REPLACEMENT MAY BE NECESSARY.**

### 5.2 Freshwater System Operation

Fill the water supply tank slowly through the labeled deck plate. After filling the water tank, partially open all faucets. The water pressure breaker on the cabin D.C. panel should be on. Allow the pump to run until all of the air is purged from the system and a steady stream of water is flowing from each outlet. Next, turn off the faucets one by one. As the pressure builds, the pump will automatically shut off.



*Freshwater Pump*

When properly primed and activated the water system will operate much like the water system in a home. An automatic pressure sensor keeps the system pressurized. If the system has been recently filled or has not been used for an extended period, air bubbles may accumulate at the pump and the system may have to be reprimed.

Whenever the boat is left unattended, the water pressure breaker should be placed in the “OFF” position.



**DO NOT ALLOW THE FRESHWATER PUMP TO RUN DRY. THE FRESHWATER PUMP WORKS ON DEMAND AND WILL NOT SHUT OFF AUTOMATICALLY WHEN THE TANK IS EMPTY. THIS CAN RESULT IN DAMAGE TO THE PUMP. ALWAYS TURN THE WATER PRESSURE BREAKER OFF WHEN THE FRESHWATER SYSTEM IS NOT IN USE.**

### 5.3 Shore Water Connection (Optional)

The shore water connection allows the direct connection of the water system to a shoreside water supply. This provides the system with a constant supply of freshwater and minimizes the pressure pump operation.

A female inlet fitting is mounted in the cockpit. A pressure reducer is installed in the system along with two check valves. One check valve keeps water from running out of the shore water inlet fitting when the pressure pump operates. The second provides protection for the pressure pump when the shore water is connected.

To use shore water, connect a hose from the shore water faucet to the shore water fitting on the boat. Next, turn on the shore water. The pressure pump will not run and the water in the boat’s water tank will not be used.

**Note: The water tank will not be filled by connecting to shore water.**



**DO NOT MODIFY OR CHANGE THE SHORE WATER INLET CONNECTOR WITH ANOTHER TYPE WITHOUT CONSULTING PURSUIT CUSTOMER RELATIONS OR YOUR DEALER. THE USE OF THE WRONG TYPE OF INLET CONNECTOR CAN DAMAGE THE FRESHWATER SYSTEM.**

### 5.4 Shower Operation

The head sink faucet is also the shower spray head. To use as a shower lift the spray head off the sink and turn the water on.

Shower water is drained from the boat by a sump pump system connected to the shower drain. An automatic float switch in the shower sump controls the pump. The pump is protected by the shower

sump pump circuit breaker in the panel. Make sure the shower sump breaker is on before using the shower. After showering, let the cold water flow for a period of time to flush the drainage system of soap residue.

The shower sump system is located in the bilge in the engine room. It is essential that the shower drain strainer is cleaned regularly and the sump is inspected periodically for accumulated debris that needs to be removed.

## 5.5 Freshwater System Maintenance

Information supplied with water system components, by the equipment manufacturers, is included with this manual. Refer to this information for additional operation and service data.

The following items should be done routinely to maintain your freshwater system:

- Remove the filter screens from the faucet spouts and eliminate any accumulation of debris. A build up of debris can cause the pump to cycle excessively.
- Periodically remove the lid on the shower and cabin drain sump assembly located in the engine room. Clean debris from the sump and flush with clean water.
- Periodically spray the pumps and metal components with a metal protector.
- The batteries must be properly maintained and charged. Operating the pressure pump from a battery with a low charge could lead to pump failure.
- Add a commercially available potable water conditioner to the water tank to keep it fresh.



**THE BATTERIES MUST BE PROPERLY CHARGED. OPERATING THE FRESHWATER PUMP FROM A BATTERY WITH A LOW CHARGE MAY LEAD TO A PUMP FAILURE.**



**THE FRESHWATER SYSTEM MUST BE PROPERLY WINTERIZED PRIOR TO WINTER LAY-UP. SEE SECTION ON WINTERIZING.**

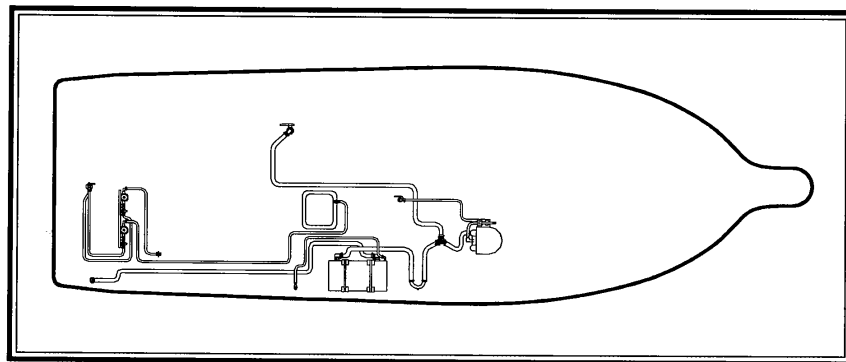


**THE WATER PRESSURE BREAKER SHOULD BE PLACED IN THE "OFF" POSITION WHENEVER LEAVING THE BOAT UNATTENDED OR WHEN THE FRESHWATER SYSTEM IS NOT IN USE.**

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## Chapter 6:

# RAW WATER SYSTEM



*Raw Water System*  
(For a detailed schematic, see Chapter 15)

## 6.1 General

In the raw or sea water systems, all water pumps are supplied by hoses connected to ball valves and thru hull fittings located in the bilge compartment. Always make sure the ball valves are open before attempting to operate any component of the raw water system.

12-volt pumps supply sea water to most of the various accessories. If air conditioning is installed in your boat, a 110-volt A.C. pump will supply sea water to that unit.

### Priming the System

Make sure the ball valves are open. Open the hose connector for the raw water washdown and activate the pressure pump by turning the washdown pump switch to the "ON" position. Run the pump until all of the air is purged from the system and then turn the switch off. Open the valve in the livewell and turn the livewell switch to the "ON" position. Run the pump until all of the air is purged from the system and then turn the switch to the "OFF" position. Closing the thru hull ball valves before the boat is hauled from the water will help to eliminate air locks in raw water systems.

**Note:** It may be necessary to reprime the raw water system if the system is not used for an extended period and at the time of launching.

## 6.2 High Pressure Washdown

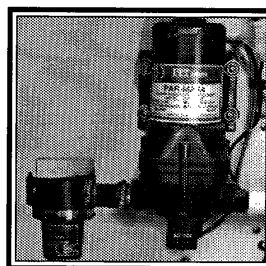
A seawater high pressure pump, controlled by a pressure sensor, supplies the raw water hose connector located in the cockpit. The pump is activated by the washdown switch located in the helm or the rear of the cockpit. This switch should be turned to the "ON" position just before using the washdown and be turned to the "OFF" position when the washdown is not in use.

When activated, the pressure switch will automatically control the pump. As the pressure builds in the washdown hose, the pump will shut off. When the washdown hose is in use and the pressure drops, the pump will turn on.

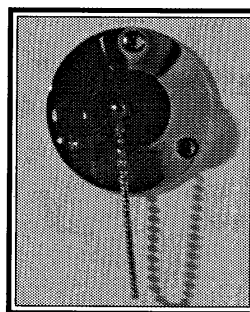
The raw water washdown system is equipped with a sea strainer on the intake side of the pump located in the bilge below the stern access hatch. This should be checked frequently and cleaned as necessary.

### The Washdown Pump Connection

The washdown pump hose connection is located in the cockpit and uses a standard garden hose connection.



*Washdown Pump*



*Washdown Hose  
Connector*



**ALWAYS TURN THE RAW WATER PUMP SWITCH TO THE "OFF" POSITION WHEN LEAVING THE BOAT UNATTENDED.**



**DO NOT RUN THE HIGH PRESSURE PUMP DRY FOR EXTENDED PERIODS AS DAMAGE TO THE PUMP WILL RESULT.**

### 6.3 Livewell

Sea water is provided to the livewell by a 12-volt diaphragm pump. This pump is designed to carry a constant flow of water to the livewell. The pump is activated by the baitwell switch in the 12-volt panel or a separate switch in the cockpit. An overflow built into the livewell automatically controls the water level in the livewell. Always turn the pump off at the switch panel when the livewell is not in use.

To fill the livewell, insert the plug into the drain fitting at the bottom of the livewell. Make sure the intake thru-hull valve is open and activate the baitwell switch.

To drain the livewell, turn off the livewell pump and pull out the plug in the drain fitting at the bottom of the livewell. When the livewell has completely drained, use the washdown hose to flush the livewell and drain of debris.

The livewell supply thru hull valve should be closed whenever the livewell is not in use. This will prevent water from entering the livewell while the boat is cruising.

**Note:** Do not use the livewell as a dry storage area when it is not in use. Sea water could accidentally be delivered to the livewell from the thru hull fitting and damage equipment stored there.

### 6.4 Raw Water System Maintenance

The following items should be done routinely to help maintain your raw water system:

- Check hoses, particularly the sea water supply line, for signs of deterioration.
- Remove and clean the sea water strainers for the washdown and livewell pumps.
- Spray pumps and thru hull valves with a protective oil periodically.
- The fishboxes and livewells should be drained and cleaned after each use.
- Operate all thru hull valves at least once a month to keep them operating properly.



SHOULD A HOSE RUPTURE, TURN THE PUMP OFF IMMEDIATELY. ALWAYS CLOSE THE THRU HULL VALVE WHEN PERFORMING MAINTENANCE ON A SEA WATER PUMP.



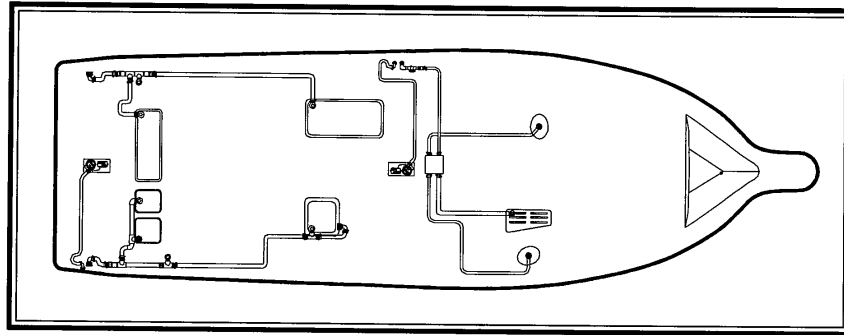
THE BATTERIES MUST BE PROPERLY CHARGED. OPERATING ANY PUMPS FROM A BATTERY WITH A LOW CHARGE MAY LEAD TO A PUMP FAILURE.



THE RAW WATER SYSTEM MUST BE PROPERLY WINTERIZED PRIOR TO WINTER LAY-UP. SEE SECTION ON WINTERIZING.



## *Chapter 7:* **DRAINAGE SYSTEMS**



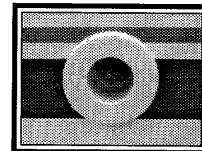
*Drainage System*  
(For a detailed schematic, see Chapter 15)

### **7.1 General**

Most water is drained by gravity to overboard thru hull fittings located in the hull sides above the water line. All drains in the cockpit are connected to the scupper thru hull fittings. It is important to check the drain system frequently to insure it is free flowing and that the hoses on the thru hull fittings are secure and not leaking. Please review the drainage schematic to become familiar with the location of the drain thru hull fittings.

### **7.2 Cockpit Drains**

Your Pursuit has two scupper drains located in the rear of the cockpit. Water is channeled away from all opening hatches by a gutter or drain rail system. The water then drains overboard through the scupper drain system.



*Scupper*

### **7.3 Hard-Top and Radar Arch Drains**

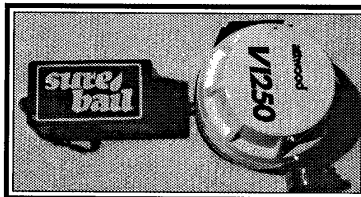
There is a hole drilled in one of the leg bases to prevent water from being trapped within the leg and provide a wire chase for accessories. A small hole is drilled in the tubing at the base of the other legs, which are not drilled for a wire chase, that allows water to drain.



ALWAYS MAKE SURE THE LEG DRAIN HOLES ARE CLEAR WHEN THE BOAT IS LAID UP FOR THE WINTER. WATER TRAPPED INSIDE THE LEGS COULD FREEZE AND CAUSE THE LEGS TO SPLIT.

## 7.4 Bilge Drainage

The bilge pumps are activated both manually, by a switch in the helm station, and automatically, by float switches located next to the pumps in the bilge. The automatic float switches are protected by circuit breakers located near the battery switches and remain activated when the battery switches are in the "OFF" position and the batteries are connected. All bilge pumps pump water out of thru hulls located above the waterline in the hull. The rear bilge pump and automatic switch are located near the transom, below the access hatch in the swim platform and the forward pump and automatic switch are located in the engine room.



*Bilge Pump*

**Note:** See **Electrical Systems** for additional information on bilge pump operation.

When the boat is out of the water, the bilge can be drained by a thru hull drain located in the transom near the bottom of the hull. The plug should be removed whenever the boat is hauled out of the water and installed just prior to launching. It is important to check the drain plug regularly to make sure it is tight.



A LOOSE DRAIN PLUG WILL ALLOW SEA WATER TO ENTER THE BILGE AND COULD CAUSE THE BOAT TO SINK. IT IS VERY IMPORTANT TO CHECK THE DRAIN PLUG FREQUENTLY TO INSURE IT IS PROPERLY TIGHTENED.

**IMPORTANT:** Any oil spilled in the bilge must be thoroughly removed and properly disposed of before operating the bilge pumps. The discharge of oil from the bilge is illegal and subject to a fine.



THE FEDERAL WATER POLLUTION CONTROL ACT PROHIBITS THE DISCHARGE OF OIL OR OILY WASTE INTO OR UPON THE NAVIGABLE WATERS OF THE UNITED STATES OR THE WATERS OF THE CONTIGUOUS ZONE IF SUCH DISCHARGE CAUSES A FILM OR SHEEN UPON, OR A DISCOLORATION OF THE SURFACE OF THE WATER, OR CAUSES A SLUDGE OR EMULSION BENEATH THE SURFACE OF THE WATER. VIOLATORS ARE SUBJECT TO A PENALTY OF \$10,000.



CERTAIN BULKHEAD AREAS ARE SEALED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS THAT WERE IN EFFECT AT THE DATE OF MANUFACTURE OF THE BOAT. ANY MODIFICATIONS TO THESE BULKHEADS SHOULD BE IN ACCORDANCE WITH THE U.S. COAST GUARD REGULATIONS.

## **7.5 Fishbox and Storage Compartment Drainage**

The fish/storage box, located under the passenger seat, is drained by gravity thru the cockpit drain system. The fishbox/cooler in the stern is also drained by gravity to the cockpit drain system. The fishboxes should be flushed out and cleaned after each use.

## **7.6 Water System Drains**

All exterior sinks and livewells, provided with fresh or raw water, drain by gravity to the cockpit drain system. The overflows in the livewell drain into the overboard drains.

## **7.7 Shower and Cabin Sink Drains**

The shower and cabin sinks are drained from the boat by a sump pump system connected to the shower and sink drains. The sump system is located in the engine room bilge. An automatic float switch in the shower sump controls the pump which is protected by the shower sump circuit breaker in the panel. Make sure the shower sump breaker is on before using the shower or the cabin sinks. After showering, let the cold water flow for a period of time to flush the drainage system of soap residue. The sump has a removable hatch to allow the system to be inspected and serviced. It is essential that the sump system be inspected periodically and any accumulated debris removed.

## **7.8 Rope Locker Drains**

The rope locker drains overboard through two special drain fittings located in the hull sides at the bottom of the rope locker. It is important to inspect the drains frequently to remove any accumulated debris.

## 7.9 Drainage System Maintenance

It is essential that the following items be done periodically to maintain proper drainage of your boat:

- Clean the cockpit drains with a hose to remove debris that can block water drainage.
- Clean the hardtop and radar arch leg drain holes. This is especially important just before winter lay-up.
- Clean the bilge pump strainers of debris and check the bilge for foreign material that can cause the automatic switch to malfunction.
- Frequently test the automatic bilge pump switches for proper operation.
- Flush all gravity drains with freshwater to keep them clean and free flowing.
- Clean and inspect the shower and cabin sink drain sump system. Remove accumulated debris and flush with freshwater. Frequently test the automatic pump switch for proper operation.
- Clean and flush the fishbox and cooler storage boxes with soap or a bilge cleaner and freshwater after each use to keep them clean and fresh.

**Note:** All drains and pumps must be properly winterized before winter lay-up.



**NEVER USE HARSH CHEMICAL DRAIN CLEANERS IN MARINE DRAIN SYSTEMS. PERMANENT DAMAGE TO THE HOSES AND FITTINGS MAY RESULT.**

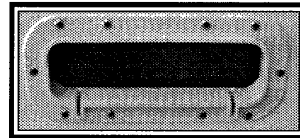
## *Chapter 8:* **VENTILATION SYSTEM**

### **8.1 Cabin Ventilation**

Ventilation to the cabin area is provided by a deck hatch and opening port windows.

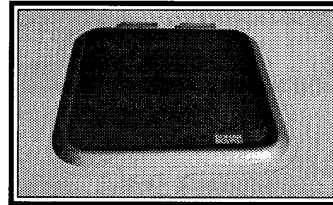
#### **Port Windows**

The port windows are secured by cam action locks. The locks should be adjusted so they are tight enough to seal the windows in the closed position, but not so tight that they break the plastic.



#### **Deck Hatch**

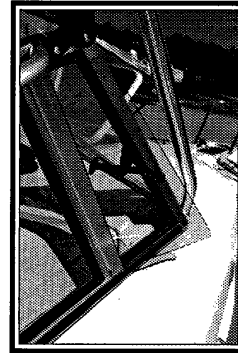
The deck hatch is supported in the open position by an adjustable hatch adjuster. To close the hatch, loosen the hatch adjuster and lower the hatch. Secure in the closed position with the two cam levers on the inside of the hatch.



*Forward Deck Hatch*

### **8.2 Windshield Ventilation**

The windshield is equipped with an opening vent panel on each side of the windshield. To open the vent, release the locking T-handle and open the vent to the desired position. Lock the vent in place by turning the T-handle 1/4 turn. The friction of the T-handle in the guide will hold the vent in that position.



*Windshield Vent Window*

## 8.3 Engine Compartment Ventilation

All Pursuit inboard boats are equipped with engine compartment ventilation. The ventilation system is designed to meet or exceed the requirements of the United States Coast Guard in effect at the time of manufacture.

### Free Air System

A flow of air into the engine compartment is provided by two intake vents located on either side of the deck. Two exhaust vents, located in the stern, provide a flow of air out of the engine compartment. The exhaust vents have ducts that reach to the lower part of the engine compartment. This provides adequate air movement while operating at or near cruise speeds.

### Forced Ventilation

All Pursuit inboard boats are equipped with an electric blower that provides ventilation to the engine compartment prior to start up and while operating below cruise speed. Refer to the chapter on Electrical Systems for more information on blower operation.



GASOLINE VAPORS CAN EXPLODE. BEFORE STARTING THE ENGINES, OPERATE THE ENGINE COMPARTMENT BLOWER FOR FIVE (5) MINUTES, OPEN THE ENGINE ACCESS HATCH, INSPECT THE FUEL SYSTEM, AND CHECK THE ENGINES FOR THE ODOR OF GASOLINE VAPORS. ALWAYS OPERATE THE BLOWER WHILE THE ENGINES ARE AT IDLE. UNDER NO CIRCUMSTANCES SHOULD THIS PROCEDURE BE OVERLOOKED.



ALWAYS RUN THE BLOWER WHEN OPERATING A GASOLINE POWERED INBOARD BOAT BELOW CRUISE SPEEDS TO ENSURE ADEQUATE VENTILATION OF THE ENGINE COMPARTMENT.



FAILURE TO PROPERLY VENTILATE THE BOAT WHILE THE ENGINES ARE RUNNING MAY PERMIT CARBON MONOXIDE TO ACCUMULATE WITHIN THE CABIN. CARBON MONOXIDE IS A COLORLESS AND ODORLESS GAS THAT IS LETHAL WHEN INHALED. CARE MUST BE TAKEN TO PROPERLY VENTILATE THE BOAT AND TO AVOID CARBON MONOXIDE FROM ACCUMULATING IN THE BOAT WHENEVER AN ENGINE IS RUNNING.

## 8.4 Maintenance

- Periodically lubricate all hinges and latch assemblies with a light oil.
- Periodically clean and coat gasket materials with silicone to help keep them pliable.
- Periodic inspection and cleaning of the engine compartment ventilation ducts is necessary to ensure adequate air circulation. A buildup of leaves, twigs, or other debris can severely reduce ventilation. It is also important to be sure that the bilge water level does not accumulate to a level that could restrict the ventilation ducts.
- The bilge blower is permanently lubricated and requires no maintenance. Blower operation can and should be tested by placing a hand over the rear vents. Do not rely on the sound of the blower. A substantial amount of air should be exhausted by the blower. Frequently check the intake vents for obstructions, preferably before each cruise.

**NOTE:** Should blower noise become excessive, the source of the noise should be found and corrected before operating the boat.

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***PURSUIT*** 2800 WALKAROUND



## *Chapter 9:* **SAFETY EQUIPMENT**

### **9.1 Engine Alarms**

Most inboards are equipped with an audible alarm system mounted in the helm area that monitors selected critical engine systems. The alarm will sound if one of these systems begins to fail. Refer to the engine owner's manual for information on the alarms installed with your engine.

**If the alarm sounds:**

- Immediately throttle the engines back to idle.
- Shift the transmissions to neutral.
- Monitor the engine gauges to determine the cause of the problem.
- If necessary, shut off the engines and investigate until the cause of the problem is found.

### **9.2 Neutral Safety Switches**

Every control system has a neutral safety switch incorporated into it. This device prohibits the engine(s) from being started while the shift lever is in any position other than the neutral position. If the engine(s) will not start, slight movement of the shift lever may be necessary to locate the neutral position and disengage the safety cutout switch. Control or cable adjustments may be required to correct this condition should it persist. See your Pursuit dealer for necessary control and cable adjustments.

### **9.3 Automatic Halon System (Optional)**

The Pursuit 2800 engine compartment can be equipped, by your dealer, with the optional Fireboy® automatic fire extinguishing system. While the halon system ensures excellent bilge fire protection, it does not eliminate the U.S. Coast Guard requirement for hand held fire extinguishers.

Diesel boats have an engine cut out circuit that automatically shuts down the engine when the halon system is activated. The red light on the control panel will light and an alarm will sound if this should occur. When sufficient time has elapsed for the fire to be extinguished and a flashback is no longer possible, the override button can be activated and the engine can be restarted.



IF ACTIVATION SHOULD OCCUR, IMMEDIATELY SHUT DOWN THE ENGINE. TURN OFF ALL ELECTRICAL SYSTEMS AND POWERED VENTILATION, AND EXTINGUISH ALL SMOKING MATERIALS. DO NOT OPEN THE ENGINE COMPARTMENT HATCH IMMEDIATELY!! THIS FEEDS OXYGEN TO THE FIRE AND FLASH BACK COULD RESULT. ALLOW THE HALON TO SOAK THE ENGINE COMPARTMENT FOR AT LEAST 15 MINUTES AND WAIT FOR HOT METALS OR FUEL TO COOL BEFORE CAUTIOUSLY INSPECTING FOR CAUSE OR DAMAGE. HAVE AN APPROVED PORTABLE FIRE EXTINGUISHER CLOSE AT HAND AND READY FOR USE. DO NOT BREATHE FUMES OR VAPORS CAUSED BY THE FIRE!!



DIESEL ENGINES WILL CONSUME HALON. IF THE SYSTEM DISCHARGES AND THE ENGINE DOES NOT AUTOMATICALLY SHUT DOWN, IT MUST BE IMMEDIATELY SHUT DOWN MANUALLY. IF A DIESEL ENGINE IS ALLOWED TO RUN IN THIS SITUATION, IT WILL CONSUME THE HALON AND FLASH BACK COULD RESULT.



INFORMATION FOR THE HALON SYSTEM IS PROVIDED BY THE SYSTEM MANUFACTURER. IT IS ESSENTIAL THAT YOU READ THE INFORMATION CAREFULLY AND COMPLETELY UNDERSTAND THE SYSTEM, IN THEORY AND OPERATION, BEFORE USING YOUR BOAT.

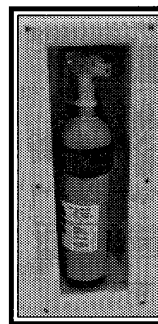
## 9.4 Fire Extinguishers

At least one fire extinguisher is required on all Pursuit boats. Boats 26' and larger may require two or three fire extinguishers. Coast Guard approved fire extinguishers are hand-portable, either B-I or B-II classification and have a specific marine type mounting bracket. It is recommended the extinguishers be mounted in a readily accessible position.

Fire extinguishers require regular inspections to insure that:

- Seals and tamper indicators are not broken or missing.
- Pressure gauges or indicators read in the operable range.
- There is no obvious physical damage, corrosion, leakage or clogged nozzles.

Contact the U.S. Coast Guard Boating Safety Hotline, 1-800-368-5647 or 1-202-267-1070, for information on the type and size fire extinguisher required for your boat.



*Fire Extinguisher*

Please refer to the information provided by the fire extinguisher manufacturer for instructions on the proper maintenance and use of your fire extinguishers.

## 9.5 Required Safety Equipment

Besides the equipment installed on your boat by Pursuit, certain other equipment is required to help ensure passenger safety. Items like a sea anchor, working anchor, extra dock lines, flare pistol, life vests, a line permanently secured to your ring buoy, etc. could at some time save your passengers' lives, or save your boat from damage. A book titled "You and Your Boat" has been included with this manual to provide additional information regarding boating safety and required safety equipment. This should be read thoroughly and kept handy for future reference.

If you did not receive a copy of this book with your literature, please contact the Pursuit Customer Relations Department and we will send you a copy at no charge.

You can contact the U.S. Coast Guard Boating Safety Hotline, 1-800-368-5647 or 800-336-2628 and 800-245-2628 in Virginia, for information on boat safety courses and brochures listing the Federal equipment requirements. Also, check your local and state regulations.

The Coast Guard Auxiliary offers a "Courtesy Examination." This inspection will help ensure that your boat is equipped with all of the necessary safety equipment.

## 9.6 Additional Safety Equipment

Besides meeting the legal requirements, prudent boaters carry additional safety equipment. This is particularly important if you operate your boat offshore. You should consider the following items, depending on how you use your boat.

### Satellite EPIRBs

EPIRBs (Emergency Position Indicating Radio Beacon) operate as part of a worldwide distress system. When activated, EPIRBs will send distress code homing beacons that allow Coast Guard aircraft to identify and find them quickly. The satellites that receive and relay EPIRB signals are operated by the National Atmospheric and Oceanic Administration (NOAA) in the United States. The EPIRB should be mounted and registered according to the instructions provided with the beacon, so that the beacon's unique distress code can be used to quickly identify the boat and owner.

### Additional Equipment to Consider:

VHF Radio	Visual Distress Signals	Spare Anchor
Heaving Line	Fenders	First Aid Kit
Flashlight	Mirror	Searchlight
Sunburn Lotion	Tool Kit	Ring Buoy
Whistle or Horn	Anchor	Chart and Compass
Boat Hook	Spare Propeller	Mooring Lines
Food & Water	Binoculars	Sunglasses
Marine Hardware	Extra Clothing	Spare Parts

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**PURSUIT® 2800 WALKAROUND**

## *Chapter 10:* **OPERATION**

### **10.1 General**

Before you start the engines on your Pursuit, have you become familiar with various component systems and their operation? Do you have the necessary safety equipment on board? Do you know and understand the “Rules of the Road?” Has an experienced operator briefed you on the general operation of your new boat? Have you performed a “Pre-Cruise System Check?”

A thorough understanding of the component systems and their operation is essential to the proper operation of the boat. This manual and the associated manufacturers’ information is provided to enhance your knowledge of your Pursuit boat. Read them carefully. Also read the book titled “You and Your Boat,” included in your literature packet.

Maintenance and service tips are included to help you keep your boat in like-new condition.

### **10.2 Rules of the Road**

As in driving an automobile, there are a few rules you must know for safe boating operation. The Nautical Rules of the Road dictate who has the right-of-way in crowded anchorages and when boats meet in open water. These rules and other safety and operation related information is explained in the book titled “You and Your Boat.”

The Coast Guard, Coast Guard Auxiliary, Department of Natural Resources, or your local boat club sponsor courses in boat handling, including rules of the road. We strongly recommend such courses. Books on this subject are also available from your local library.

### **10.3 Pre-Cruise Check**

#### **Before Starting the Engines**

- Check the weather forecast. Decide if the planned cruise can be made safely.
- Be sure all necessary safety equipment is on board and operative. This should include items like the running lights, spotlight, life saving devices, etc. Please refer to Chapter 9 for additional information on safety equipment.

- Make sure you have signal kits and flare guns aboard, and they are current and in good operating condition.
- Be sure you have sufficient water and other provisions for the planned cruise.
- Leave a written message listing details of your planned cruise with a close friend ashore. (Float Plan)
- Check the amount of fuel on board.
- Check the water separating fuel filters (if installed) for water.
- Check the oil in the engines and transmissions.
- Set the battery selector switches as desired.
- Turn on the bilge blower. Check the blower output and operate five (5) minutes before starting the engine. The blower should also be activated when operating below cruising speed.
- Check the bilge water level. Look for other signs of potential problems. Monitor for the scent of fuel fumes.
- Have a tool kit aboard. The kit should include the following basic tools:

Spark plug wrench	Hammer
Spark plug gap gauge	Electrician's tape
Screwdriver	Lubricating oil
Pliers	Jackknife
Adjustable wrench	Vise grip
Pipe wrench	



**THERE MUST BE AT LEAST ONE PERSONAL FLOTATION DEVICE ON BOARD FOR EVERY PERSON ON BOARD AND ONE THROW-OUT FLOTATION DEVICE. CHECK THE U.S. COAST GUARD STANDARDS FOR THE CORRECT TYPE OF DEVICE FOR YOUR BOAT.**

- Have the following spare parts on board:

Extra light bulbs	Spark plugs
Fuses and circuit breakers	Flashlight and batteries
Drain plugs	Engine and transmission oil
Propellers	Fuel filters
Propeller nuts	Fuel hose and clamps

- Make sure all fire extinguishers are in position and in good operating condition.



VAPORIZING LIQUID EXTINGUISHERS GIVE OFF TOXIC FUMES; USE ONLY COAST GUARD APPROVED FIRE EXTINGUISHERS.

## 10.4 Operating Your Boat



GASOLINE VAPORS CAN EXPLODE. BEFORE STARTING THE ENGINE, OPERATE THE ENGINE COMPARTMENT BLOWER FOR FIVE (5) MINUTES, OPEN THE ENGINE HATCH, INSPECT THE FUEL SYSTEM AND CHECK THE ENGINE FOR THE ODOR OF GASOLINE VAPORS. ALWAYS OPERATE THE BLOWER WHILE THE ENGINE IS AT IDLE. DO NOT START OR OPERATE THE ENGINES IF FUEL FUMES ARE PRESENT. UNDER NO CIRCUMSTANCES SHOULD THIS PROCEDURE BE OVERLOOKED.

### After Starting the Engines:

- Visibly check the engines to be sure there are no apparent water, fuel or oil leaks.
- Check the operation of the engine cooling systems by inspecting the transom exhaust ports for water flow. (Refer to section 1.4)
- Check the engine gauges. Make sure they are reading normally.
- Check the steering and engine controls for proper operation.
- Make sure all lines, cables, anchors, etc. for securing a boat are on board and in good condition. All lines should be coiled, secured and off the decks when underway.
- Have a safe cruise and enjoy yourself.

### Remember:

When you operate a boat, you accept the responsibility for the boat, for the safety of passengers and for others out enjoying the water.

- Alcohol and any drugs can severely reduce your reaction time and affect your better judgement.
- Alcohol severely reduces the ability to react to several different signals at once.
- Alcohol makes it difficult to correctly judge speed and distance, or track moving objects.
- Alcohol reduces night vision, and the ability to distinguish red from green.

**PURSUIT® 2800 WALKAROUND**



**YOU SHOULD NEVER OPERATE YOUR BOAT WHILE UNDER THE INFLUENCE OF ALCOHOL AND DRUGS.**



**MAKE SURE ONE OTHER PERSON ON THE BOAT IS INSTRUCTED IN THE OPERATION OF THE BOAT.**



**MAKE SURE THE BOAT IS OPERATED IN COMPLIANCE WITH ALL STATE AND LOCAL LAWS GOVERNING THE USE OF A BOAT.**



**DO NOT OPERATE THE BOAT UNLESS IT IS COMPLETELY ASSEMBLED. KEEP ALL FASTENERS TIGHT. KEEP ADJUSTMENTS ACCORDING TO SPECIFICATIONS.**

- Always operate the blower when operating the boat below cruising speed.
- Avoid sea conditions that are beyond the skill and experience of you and your crew.
- Before operating the boat for the first time, read the engine break-in procedures. The break-in procedures are found in the owner's manual for the engines. The manual is in the literature packet.
- As different types of engines are used to power the boat, have the dealer describe the operating procedures for your boat. For more instructions on "How To Operate The Boat," make sure you read the instructions given to you in the owner's manual for the engines you have selected.

**Note:** For more instructions on safety, equipment and boat handling, enroll in one of the several free boating courses offered. For information on the courses offered in your area, call the "Boating Course Hotline," 1-800-336-2628.

**Note:** If the running gear hits an underwater object, stop the engines. Inspect the propulsion system for damage. If the system is damaged, contact your dealer for a complete inspection and repair of the unit.



**To stop the boat, follow this procedure:**

- Allow the engines to drop to the idle speed.
- Make sure the shifting levers are in the neutral position.

**Note:** If the engines have been run at high speed for a long period of time, allow the engines to cool down by running the engines in the idle position for 3 to 5 minutes.

- Turn the ignition keys to the “Off” position.

**After Operation:**

- If operating in saltwater, wash the boat and all equipment with soap and water.
- Check the bilge area for debris and excess water.
- Fill the fuel tanks to near full to reduce condensation.
- Turn off all electrical equipment except the automatic bilge pumps.
- If you are going to leave the boat for a long period of time, put the battery main switches in the “Off” position and close all seacocks.
- Make sure the boat is securely moored.



**TO PREVENT DAMAGE TO THE BOAT, CLOSE ALL SEACOCKS BEFORE LEAVING THE BOAT.**

## 10.5 Grounding and Towing

If the boat should become disabled, or if another craft that is disabled requires assistance, great care must be taken. The stress applied to a boat during towing may become excessive. Excessive stress can damage the structure of the boat and create a safety hazard for those aboard.

Freeing a grounded vessel, or towing a boat that is disabled, requires specialized equipment and knowledge. Line failure and structural damage caused by improper towing have resulted in fatal injuries. Because of this, we strongly suggest that these activities be left to those who have the equipment and knowledge, e.g., the U.S. Coast Guard or a commercial towing company, to safely accomplish the towing task.



**DANGER**

THE MOORING CLEATS ON PURSUIT BOATS ARE NOT DESIGNED OR INTENDED TO BE USED FOR TOWING PURPOSES. THESE CLEATS ARE SPECIFICALLY DESIGNED AS MOORING CLEATS FOR SECURING THE BOAT TO A DOCK, PIER, ETC. DO NOT USE THESE FITTINGS FOR TOWING OR ATTEMPTING TO FREE A GROUNDED VESSEL.



WHEN TOWING OPERATIONS ARE UNDERWAY, HAVE EVERYONE ABOARD BOTH VESSELS STAY CLEAR OF THE TOW LINE AND SURROUNDING AREA. A TOW LINE THAT SHOULD BREAK WHILE UNDER STRESS CAN BE VERY DANGEROUS.



RUNNING AGROUND CAN CAUSE SERIOUS DAMAGE TO A BOAT AND ITS UNDERWATER GEAR. IF YOUR BOAT SHOULD BECOME GROUNDED, DISTRIBUTE PERSONAL FLOTATION DEVICES AND INSPECT THE BOAT FOR POSSIBLE DAMAGE. THOROUGHLY INSPECT THE BILGE AREA FOR SIGNS OF LEAKAGE. AN EXPERIENCED SERVICE FACILITY SHOULD CHECK YOUR UNDERWATER GEAR AT THE FIRST OPPORTUNITY. DO NOT CONTINUE TO USE YOUR BOAT IF THE CONDITION OF THE UNDERWATER EQUIPMENT IS QUESTIONABLE.

## 10.6 Trailering Your Boat

If you trailer your boat, make sure that your tow vehicle is capable of towing the weight of the trailer, boat and equipment and the weight of the passengers and equipment inside the vehicle. This may require that the tow vehicle be specially equipped with a larger engine, transmission, brakes and trailer tow package.

The following safety tips and a book titled “You and Your Trailer,” included in your literature packet, provides additional information you should know before trailering your boat.

**Note:**     **Contact your dealer to evaluate your towing vehicle and hitch, and to make sure you have the correct trailer for your boat.**

- Make sure the trailer is a match for your boat’s weight and hull design. More damage can be done to a boat by the stresses of road travel than by normal water operation. A boat hull is designed to be supported evenly by water. So, when it is transported on a trailer it should be supported structurally as evenly across the hull as possible allowing for even distribution of the weight of the hull, engine and equipment.
- Make sure the trailer bunks and rollers properly support the hull and do not put pressure on the lifting strakes. The rollers and bunks must be kept in good condition to prevent scratching and gouging of the hull.

- The capacity rating of the trailer should be greater than the combined weight of the boat, motor, and equipment. The gross vehicle weight rating must be shown on the trailer. Make sure the weight of the boat, engine, gear and trailer is not more than the gross vehicle weight rating.
- Make sure the boat is securely fastened on the trailer to prevent movement between the boat and trailer. The bow eye on the boat should be secured with a rope, chain or turnbuckle in addition to the winch cable. Additional straps may be required across the beam of the boat.

**Note:** Your dealer will give instructions on how to load, fasten and launch your boat.



BOATS HAVE BEEN DAMAGED BY TRAILERS THAT DO NOT PROPERLY SUPPORT THE HULL. ALWAYS MAKE SURE THE TRAILER BUNKS AND ROLLERS ARE ADJUSTED SO THEY ARE NOT PUTTING EXCESSIVE PRESSURE ON THE LIFTING STRAKES AND ARE PROVIDING ENOUGH SUPPORT FOR THE HULL. HULL DAMAGE RESULTING FROM IMPROPER TRAILER SUPPORT IS NOT COVERED BY THE PURSUIT WARRANTY.

**Before Going Out On The Highway:**

- Make sure the tow BALL and TRAILER COUPLER are the same size and that bolts and nuts are tightly secured.
- The COUPLER MUST BE COMPLETELY OVER THE BALL and the LATCHING MECHANISM LOCKED DOWN.
- Make sure the TRAILER IS LOADED EVENLY from front to rear as well as side to side and has the correct weight on the hitch. Too much weight on the hitch will cause the rear of the tow vehicle to drag and may make steering more difficult. Too little weight on the hitch will cause the rig to fishtail and will make controlling the tow vehicle difficult. Contact your Pursuit dealer or the trailer manufacturer for the correct weight on the hitch for your trailer.
- The SAFETY CHAINS must be attached crisscrossing under the coupler to the frame of the tow vehicle. If the ball was to break, the trailer would follow in a straight line and prevent the coupler from dragging on the road. Make sure the trailer emergency brake cable or chain is also installed to the tow vehicle frame.
- Make sure the LIGHTS on the trailer function properly.
- CHECK THE BRAKES. On a level parking area roll forward and apply the brakes several times at increasing speeds to determine if the brakes on the tow vehicle and trailer are working properly.
- Make sure the tow vehicle has SIDE VIEW MIRRORS that are large enough to provide an unobstructed rear view on both sides of the vehicle.
- CHECK THE TIRES and WHEEL BEARINGS.



MAKE SURE YOUR TOWING VEHICLE AND TRAILER ARE IN COMPLIANCE WITH ALL STATE AND LOCAL LAWS. CONTACT YOUR STATE MOTOR VEHICLE BUREAU FOR LAWS GOVERNING THE TOWING OF TRAILERS.

## **Chapter 11:**

# **EXTERIOR EQUIPMENT**

### **11.1 Deck**

#### **Rails and Deck Hardware**

The rail system and hardware fittings have been selected and installed to perform specific functions. Fenders or mooring lines should be secured to the cleats and not to rails or stanchions. Mooring lines should be secured to the cleats. Be sure a clear lead exists when running dock lines or anchor lines. A line inadvertently run around a stanchion or over the rail could cause damage.

**Important:** All fittings must be periodically inspected for loose fit or wear and damage. Any problems should be corrected immediately.



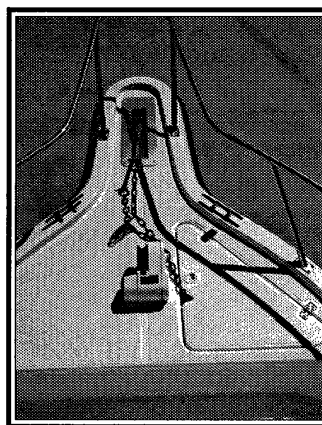
PURSUIT BOATS ARE NOT EQUIPPED WITH HARDWARE DESIGNED FOR TOWING PURPOSES. THE MOORING CLEATS ARE NOT TO BE USED FOR TOWING ANOTHER VESSEL OR HAVING THIS BOAT TOWED.

#### **Bow Pulpit and Roller**

The bow pulpit is built into the hull and is equipped with a roller assembly that allows the anchor to be operated and stored at the pulpit. The pulpit roller is designed for a “Danforth®” style anchor. The anchor line is stored in the rope locker and routed out the rope locker hatch, through the roller and connected to the anchor chain. A cleat or chain binder is provided on the deck near the pulpit to secure the anchor. Always make sure the anchor is properly secured when it is in the stored position on the pulpit.

#### **Anchor/Rope Locker**

The anchor locker is in the bow of the boat and accessed through a hatch in the deck. The anchor line is always stored in the locker. The anchor locker has a built-in bracket for a “Danforth®” style anchor. If the anchor is stored in the anchor locker, it must be properly secured to prevent it from bouncing in the locker and causing damage to the hull or anchor locker.



*Bow Pulpit, Roller and  
Anchor/Rope Locker*

The anchor locker is drained by thru hull fittings in the hull sides near the bottom of the locker. It is very important to check the drains frequently to make sure they are clean and free flowing.

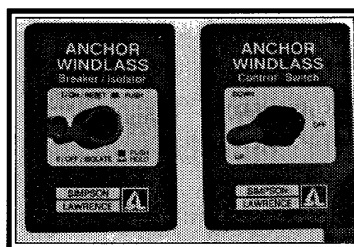


**THE ANCHOR MUST BE POSITIONED SO IT DOES NOT REST AGAINST THE HULL SIDES AND BE PROPERLY SECURED AT ALL TIMES WHEN IT IS STORED IN THE ANCHOR LOCKER. A LOOSE ANCHOR IN THE ANCHOR LOCKER WILL BOUNCE AND CAN DAMAGE THE BOAT. DAMAGE RESULTING FROM THE ANCHOR BOUNCING IN THE ANCHOR LOCKER IS NOT COVERED BY THE PURSUIT WARRANTY.**

#### **Windlass (Optional)**

The optional windlass is mounted to the deck near the rear of the pulpit above the rope locker. The anchor is stored on the pulpit and is raised and lowered by the windlass. The anchor line is stored in the rope locker and routed out through the windlass to the anchor chain.

The anchor is lowered by releasing the anchor from the cleat or chain binder on the pulpit and operating a “down” control at the helm. The windlass control switch is activated by a safety switch or breaker panel located next to the windlass switch. Turn the safety switch or breaker to “ON” to activate the windlass control and turn it to “OFF” whenever the windlass is not in use.



*Windlass Controls*

After the anchor is set, the windlass must not be left to take the entire force from the anchor line. Boats lying to their anchor in a high swell or heavy weather conditions will snub on the line. This can cause slippage or apply excessive loads to the windlass. The line should be made fast to a bow cleat to relieve the load on the windlass.

The anchor is hauled in by releasing the line from the bow cleat and operating the “up” control at the helm. Once the anchor is retrieved, independently secure the anchor to the chain binder or a cleat to prevent it from being accidentally released. This is especially important while the boat is under-way.

The windlass manufacturer provides an owner’s manual with its product. It is extremely important that you read the manual and become familiar with the proper care and operation of the windlass.



**A WINDLASS MUST BE USED WITH CARE. IT IS EXTREMELY IMPORTANT THAT YOU READ THE OWNER'S MANUAL AND BECOME FAMILIAR WITH THE SAFETY INSTRUCTIONS AND PROPER OPERATION OF THE WINDLASS BEFORE USING IT WITH YOUR BOAT. ALWAYS ENSURE THAT LIMBS, FINGERS, HAIR AND CLOTHING ARE KEPT CLEAR OF THE WINDLASS AND ANCHOR LINE DURING OPERATION.**



DO NOT USE A WINDLASS AS A SOLE MEANS OF SECURING AN ANCHOR IN THE BOW PULPIT. ALWAYS SECURE THE ANCHOR LINE TO A CLEAT OR CHAIN BINDER BEFORE OPERATING YOUR BOAT.

## 11.2 Hull

### Swim Platform

Your Pursuit is equipped with an integral swim platform located in the stern of the boat. There is a large, water tight inspection hatch in the platform to provide access to the stern bilge, rudder ports and tiller arms. Always make sure this hatch is secure before operating your boat.

### Boarding Ladder (Optional)

The optional boarding ladder is mounted to the rear of the stern bait and tackle rigging station when it is in the stored position. To use the ladder, remove it from the storage clips and slide the studs into the special bracket on the port side of the transom. The ladder floats and must be secured in the boarding position by turning the cam lock on the ladder so it catches the bottom of the transom ladder bracket. The ladder must be removed from the transom bracket and properly secured to the storage clips before starting the engines.



MOVING PROPELLERS ARE DANGEROUS. THEY CAN CAUSE DEATH, LOSS OF LIMBS, OR OTHER SEVERE INJURY. DO NOT USE THE SWIM PLATFORM OR SWIM LADDER WHILE THE ENGINE(S) ARE RUNNING. STOP THE ENGINE(S) IF DIVERS OR SWIMMERS ARE ATTEMPTING TO BOARD. ALWAYS REMOVE AND PROPERLY STORE THE LADDER BEFORE STARTING THE ENGINE(S).

### Trim Tabs

The trim tabs are recessed into the hull below the swim platform. The trim tabs are an important part of the control systems. Please refer to Chapter 2 for detailed information on the trim tabs.

## 11.3 Cockpit

### Cockpit Storage, Fishboxes and Livewell

The passenger seat is mounted on a fish/storage box. A circulating livewell is located below the helm seat. The fish/storage box and livewell are insulated and drain overboard. The fish/storage box can be used as a storage compartment, fishbox or cooler. The livewell can be used as a livewell or cooler.

A large tackle locker is built into the helm seat base just forward of the livewell. The tackle locker is lockable and has five storage drawers.

### Helm

The helm and engine controls are located on an opening helm station. The helm station is hinged at the bottom and opens to provide access to service the helm equipment or to install electronics. To open the helm station, release the clamps at the top of the helm. A strap holds the helm in the open position and prevents it from opening too far. Always make sure the helm station clamps are properly secured when the helm is closed.



**ALWAYS MAKE SURE THE HELM STATION CLAMPS ARE PROPERLY SECURED BEFORE OPERATING OR TRAILERING YOUR BOAT. IF THE HELM STATION IS NOT PROPERLY SECURED, IT COULD OPEN UNEXPECTEDLY AND DAMAGE THE BOAT OR CAUSE LOSS OF CONTROL.**



**UNDER NO CIRCUMSTANCES SHOULD THE HELM BE OPENED WHEN THE ENGINE(S) ARE RUNNING. IN SOME SITUATIONS IT IS POSSIBLE TO ACCIDENTALLY ENGAGE THE ENGINE SHIFT AND THROTTLE CONTROLS INTO GEAR AS THE HELM IS OPENING. THIS COULD RESULT IN LOSS OF CONTROL, DAMAGE TO THE BOAT, AND INJURY TO PASSENGERS.**

### Engine Access

Access to the engines is provided by a day hatch, located between the helm and passenger seat or by raising the bridge deck above the engine room. The bridge deck is raised by an electric hatch lifter activated by a switch in the cockpit near the A.C. shore power plug. The aft end of the bridge deck is lifted and lowered by the electric actuator. The weight of water in the livewell and a full fishbox puts additional strain on the hinges and the hatch lifter. You should avoid lifting the bridge deck with the livewell and fishbox full.

### Stern Bait and Tackle Rigging Station

The stern bait and tackle rigging station is equipped with a transom door, sink, removable cutting board, fishbox, and rigged bait storage area. The sink is plumbed to the freshwater system and drains overboard. The fishbox and rigged bait storage area are insulated and drain overboard.

### Transom Door

A transom door is incorporated into the rigging station. The transom door should only be operated when the boat is not in motion. The door must be latched in either the full "OPEN" or full "CLOSED" position. Never leave the transom door unlatched.

**Note: Periodically inspect the transom door fittings for wear, damage, or loose fit. Any problems should be inspected and corrected immediately.**



**THE TRANSOM DOOR SHOULD BE CLOSED AND PROPERLY LATCHED WHENEVER THE ENGINE(S) ARE RUNNING. NEVER OPEN THE TRANSOM DOOR WHILE UNDERWAY OR IN ROUGH SEA CONDITIONS. IN CERTAIN SITUATIONS, AN OPEN TRANSOM DOOR COULD ALLOW A SUBSTANTIAL AMOUNT OF WATER TO ENTER THE COCKPIT CREATING A POTENTIALLY DANGEROUS CONDITION.**

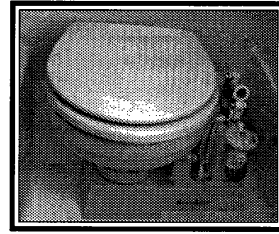


## Chapter 12: INTERIOR EQUIPMENT

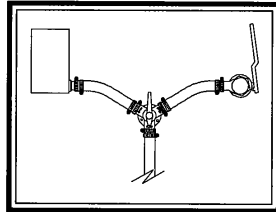
### 12.1 Marine Head System

This system is provided as standard equipment. The flush water is supplied by a thru hull fitting and a raw water line. Before using, open the inlet valve on the head and pump to wet the inside of the bowl. After use, close the valve and pump to discharge the waste to the holding tank or overboard.

Waste can be directed either into the holding tank or overboard, when legal to do so. This is accomplished by an optional Y-valve located in the bilge below the aft cabin berth.



*Marine Head*



*Y-Valve*

In the overboard discharge position, the waste exits the boat through a large thru hull fitting located in the bilge. The thru hull fitting is equipped with a ball valve. Always open this valve when the overboard discharge is selected and close it when the holding tank is selected.

In the holding tank position, the waste is pumped directly into the holding tank where it remains until it is pumped out by a waste dumping station or the optional overboard macerator discharge system.



**IN MANY AREAS IT IS ILLEGAL TO FLUSH HEAD WASTE DIRECTLY OVERBOARD. VIOLATION OF THESE POLLUTION LAWS CAN RESULT IN FINES OR IMPRISONMENT. ALWAYS KNOW THE LAW FOR THE AREAS IN WHICH YOU BOAT. NEVER DUMP HEAD OR HOLDING TANK WASTE OVERBOARD ILLEGALLY.**

#### **Holding Tank and Macerator Discharge Pump**

The holding tank is located in the bilge. When the tank is full it must either be pumped out by an approved waste dumping station through the waste deck fitting or be pumped overboard with the optional macerator discharge pump, when legal to do so. When the macerator discharge pump option is installed, the Y-valve is used to select the waste deck fitting or the overboard macerator discharge pump.

To operate the macerator discharge pump, move the Y-valve handle to the macerator pump-out position, open the ball valve at the overboard discharge thru hull fitting. Then activate the macerator switch, located in the engine compartment near the macerator pump, until the tank is emptied. Turn the switch to "OFF" and close the discharge ball valve when pumping is complete.

**PURSUIT® 2800 WALKAROUND**

**Note:** The macerator discharge pump can only be run dry for a couple of seconds. Allowing the macerator pump to run after the holding tank is empty will cause damage to the pump.

#### **Maintenance**

The head should be cleaned and inspected for leaks regularly.

The holding tank should be pumped out and flushed as needed. Periodically add chemical to the head to help control odor and to chemically break down the waste. See the manufacturer owner's manual for additional operating and maintenance information.



**THE HEAD AND MACERATOR DISCHARGE SYSTEM MUST BE PROPERLY WINTERIZED BEFORE WINTER LAY-UP. SEE SECTION ON WINTERIZING.**

## **12.2 Ice Box and Refrigerator**

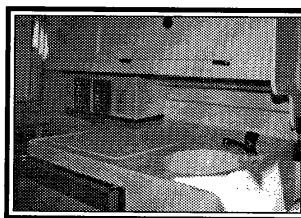
An ice box is installed as standard equipment. The ice box drains into the bilge and has a special latch that will keep the door secure while underway. Make sure the door is properly secured whenever the boat is moving.

A dual voltage refrigerator is supplied as optional equipment. This unit will operate on 110-volt A.C. or 12-volt D.C. power. The refrigerator switches to 12-volt D.C. automatically when the A.C. power is disconnected and the refrigerator breaker is activated on the cabin D.C. panel. When 110-volt A.C. current is provided by the refrigerator circuit breaker on the 110-volt panel, the refrigerator automatically switches to A.C. power.

Care should be exercised while operating the refrigerator on 12-volt power without the engine running. It draws a substantial amount of current and can severely drain a battery through extended use. The refrigerator door has a special latch to secure the door while underway, make sure the door is properly secured whenever the boat is moving. Refer to the refrigerator owner's manual for additional operating and maintenance instructions.

## **12.3 Galley and Sink**

The galley is equipped with storage and a fresh water sink. Water is supplied to the sink by a 12-volt pump located in the stern bilge. When activated by the water pressure breaker in the 12-volt panel, the water system will operate much like the water system in a home. An automatic pressure sensor keeps the system pressurized. The sink is drained from the boat by a sump pump system connected to the shower and sink drains.



*Galley*

See Chapter 5 and Chapter 7 for more information on the fresh water and drainage systems.

## 12.4 Stove

The portable single burner gas stove is fueled by butane gas. Butane is a flammable gas that is heavier than air and stored in disposable pressurized fuel canisters. A manual for the stove is included with your boat. It is extremely important that you read the manual and become familiar with the proper care and operation of the stove before attempting to use it. The stove and butane fuel must be properly stowed when not in use.

If you did not receive a manual for your stove, please contact the Pursuit Customer Relations Department.



THE STOVE IS DESIGNED AS AN APPLIANCE FOR COOKING FOOD. DO NOT ATTEMPT TO USE THE STOVE TO HEAT THE CABIN. USING THE STOVE TO HEAT THE CABIN COULD CAUSE THE STOVE TO OVER HEAT RESULTING IN DAMAGE TO THE STOVE OR A CABIN FIRE.



ALWAYS MAKE SURE THE CABIN IS PROPERLY VENTILATED BEFORE USING THE STOVE. THE STOVE EXHAUST CONTAINS CARBON MONOXIDE THAT IS COLORLESS AND ODORLESS. CARBON MONOXIDE IS A DANGEROUS GAS THAT IS POTENTIALLY LETHAL.

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## *Chapter 13:* **ROUTINE MAINTENANCE**

### **13.1 Exterior Hull and Deck**

#### **Hull Cleaning-Below The Water Line**

When the boat is removed from the water, clean the outer bottom surface immediately. Algae, grass, dirt and other marine growth is easier to remove while the hull is still wet. Use a pressure cleaner or a hard bristle brush to clean the surface.

#### **Bottom Painting**

If the boat is to be left in saltwater for extended periods, the hull must be protected from marine growth by antifouling paint. Because of variations in water temperature, marine growth, and pollution in different regions, your dealer and/or a qualified boat yard in your area should be consulted when deciding what bottom paint system to apply to your hull. This is extremely important as pollution and marine growth can damage fiberglass hulls.



**TO PREVENT DAMAGE TO THE FIBERGLASS, DO NOT SAND THE OUTER BOTTOM GELCOAT SURFACE OF THE BOAT. SANDING THE GELCOAT WILL VOID THE 5 YEAR BLISTER FREE WARRANTY. USE ONLY CHEMICAL WAX REMOVERS AND ETCHERS RECOMMENDED BY THE BOTTOM PAINT MANUFACTURER TO PREPARE THE GELCOAT SURFACE FOR BOTTOM PAINT.**

If the hull bottom has been painted with antifouling paint, contact your dealer for the recommended maintenance procedures.

#### **Zincs**

Sacrificial zinc anodes are installed on the inboard engines' freshwater cooling system and on the transom. The transom zinc is connected to the bonding system and protects the rudder assemblies, shaft logs, trim tabs and other underwater hardware that is bonded. An additional zinc anode should be installed on each propeller shaft if the boat is to be left in the water. Contact your dealer for the proper size and type of zinc anodes to be used and the specific installation procedure. Zincs should be checked monthly and changed when they are 75% of their original size.

#### **Fiberglass Gelcoat Surfaces**

Normal maintenance requires only washing with mild soap and water. A stiff brush can be used on the nonskid areas. Kerosene or commercially prepared products will remove oil and tar which could be a problem on trailered boats. Harsh abrasive and chemical cleaners are not recommended because they can damage or dull the gelcoat, reducing its life and making it more susceptible to stains. When the boat is used in saltwater, it should be washed thoroughly with soap and water after each use.

At least once a season, wash and wax all exposed fiberglass surfaces. Use a high quality automotive or boat wax. Follow the procedure recommended by the wax manufacturer. The washing and waxing of your boat will have the same beneficial effects as they have on an automobile finish. The wax will fill minute scratches and pores thus helping to prevent soiling and will extend the life of the gelcoat.

After the boat is exposed to the direct sunlight for a period of time, the color in the gelcoat tends to fade, dull or chalk. A heavier buffing is required to bring the gelcoat back to its original luster. For power cleaning use a light cleaner. To clean the boat by hand, use a heavier automotive cleaner. Before cleaning the surfaces, read the instructions given with the cleaner. After cleaning the surfaces, apply wax and polish all fiberglass surfaces except the nonskid areas.

If the fiberglass should become damaged and need repair, contact your dealer for an authorized repair person to make the repairs.



**DO NOT WAX NONSKID AREAS AS THIS COULD MAKE THEM SLIPPERY AND CONSEQUENTLY INCREASE THE POSSIBILITY OF INJURY.**

#### **Stainless Steel Hardware**

When using the boat in saltwater, the hardware should be washed with soap and water after each use. When your boat is used in a corrosive environment such as saltwater, water with a high sulfur content, or polluted water, the stainless steel will periodically develop surface rust stains. This is perfectly normal under these conditions. The stainless can normally be cleaned and protected by using a high quality boat or automotive wax or a commercial metal cleaner and protectant.



**UNDER NO CIRCUMSTANCES SHOULD ANY ABRASIVE MATERIALS SUCH AS SANDPAPER, BRONZE WOOL, OR STEEL WOOL BE USED ON STAINLESS STEEL. DAMAGE TO THE HARDWARE WILL RESULT.**

#### **Anodized Aluminum Surfaces**

Normally, the only maintenance that is required with anodized aluminum is to periodically wash it with soap and water. If the boat is used in saltwater or polluted water, the aluminum should be washed with soap and water after each use. Saltwater allowed to remain on anodized aluminum could penetrate the anodized coating and attack the aluminum.

If the anodized coating is badly scratched it can be touched up with a paint such as Rustoleum® aluminum paint. With proper care, anodized aluminum will provide many years of maintenance free service.

#### **Chrome Hardware**

Use a good chrome cleaner and polish on all chrome hardware.

### **Plexiglas®**

Plexiglas® scratches easily. Use a soft cloth and mild soap and water to clean Plexiglas®. Solvents and products containing ammonia can permanently damage Plexiglas®. A coat of automotive or boat wax is beneficial to protect the surface. Do not use the following on Plexiglas®:

Abrasive cleaners	Acetone
Solvents	Alcohol
Glass cleaners	Cleaners containing ammonia

### **Engines**

Proper engine maintenance is essential to the proper performance and reliability of your inboard engines. Maintenance schedules and procedures are outlined in your engine owner's manual. They should be followed exactly.

## **13.2 Upholstery, Canvas and Enclosures**

### **Vinyl Upholstery**

The vinyl upholstery used on the exterior seats and bolsters in your boat should be cleaned periodically with soap and water. Avoid using products containing ammonia or harsh chemicals as they can shorten the life of vinyl. A vinyl protector will protect and extend the life of vinyl. One drawback to vinyl protectors is that they may make the vinyl slippery. You may find this to be undesirable in some applications.

### **Acrylic Canvas**

Acrylic canvas should be cleaned periodically by using a mild detergent and water. Scrub lightly and rinse thoroughly.

After several years, the acrylic canvas may lose some of its ability to shed water. If this occurs, wash the fabric and treat it with a commercially available waterproofing designed for this purpose.

**Note: Some leakage at the seams is normal and unavoidable with acrylic enclosures.**

Side curtains and clear connectors can be cleaned with mild soap and water. They should not be allowed to become badly soiled. Dirt, oil, mildew, and cleaning agents containing ammonia, will shorten the life of the vinyl that is used for clear curtains. After cleaning the curtains and allowing them to dry, apply a non-lemon furniture polish or a plexiglas® and clear plastic protector to extend the life of the curtains.



**DO NOT USE ANY POLISH CONTAINING LEMON SCENTS OR LEMON. THE LEMON JUICE WILL ATTACK THE CLEAR VINYL AND SHORTEN ITS LIFE.**

Snap should be lubricated periodically with petroleum jelly. Zippers should be lubricated with silicone spray or paraffin.

### 13.3 Cabin Interior

The cabin interior can be cleaned just like you would clean a home interior. To preserve the teak woodwork, use teak oil. To maintain the carpeting, use a vacuum cleaner. Because air and sunlight are very good cleansers, periodically put cushions, sleeping bags, etc. on deck, in the sun and fresh air, to dry and air out. If cushions or equipment get wet with saltwater, remove and use clean, freshwater to rinse off the salt crystals. Salt retains moisture and will cause damage. Dry thoroughly and reinstall.

If you leave the boat for a long period of time, put all cushions on their sides, open all interior cabin and locker doors, and hang a commercially available mildew protector in the cabin.



**ALWAYS READ THE LABEL CAREFULLY ON MILDEW PROTECTORS. REMOVE THE PROTECTOR AND ALLOW THE CABIN TO VENTILATE COMPLETELY BEFORE USING THE CABIN.**

### 13.4 Bilge

To keep the bilge clean and fresh, use a commercial bilge cleaner regularly. Follow the directions carefully. The engine and engine room should be kept clean and free of oil accumulation and debris. All exposed pumps and metal components, including the engines and drive gear, should be sprayed periodically with a protector to reduce the corrosive effects of the high humidity always present in these areas.

Maintenance intervals are outlined in the engine owner's manuals. Their recommendations should be followed exactly.

Periodically check the bilge pumps for proper operation and clean debris from the strainers and float switches. Inspect all hoses, clamps and thru hulls for leaks and tightness on a regular basis.

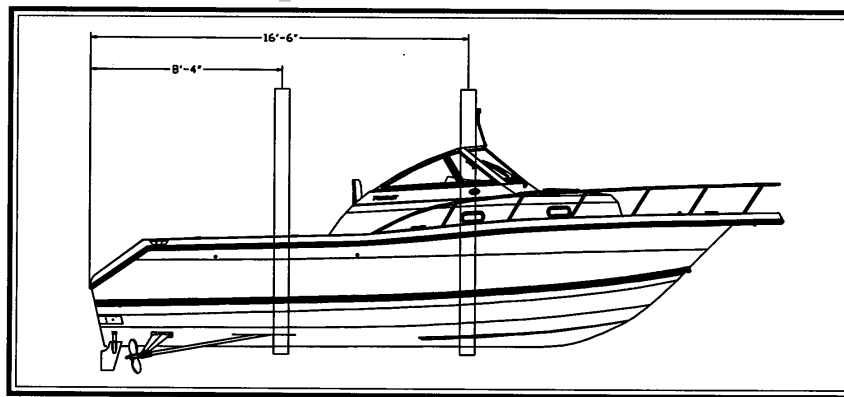


## *Chapter 14:* **SEASONAL MAINTENANCE**

### **14.1 Lay-up and Storage**

#### **Before Hauling:**

- Pump out the head. Flush the holding tank using clean soap, water and a deodorizer. Pump out the cleaning solution.
- Fuel tanks should be left nearly full. In winter storing with a full tank, a fuel winterizer is recommended to reduce fuel deterioration. For more recommendations for your specific area, check with your local Pursuit dealer. Operate the boat for 15 minutes to allow the treated fuel to reach the engines.
- Drain water from the freshwater system.
- Consult the engine owner's manual for detailed information on preparing the engines for storage.



*Sling locations*

### Lifting

It is essential that care be used when lifting your boat. Make sure the spreader bar at each sling is at least as long as the distance across the widest point of the boat that the sling will surround. Put the slings in position. Refer to the drawing on page 14-1 for the correct position of the lifting slings. The fore and aft sling should be tied together to prevent the slings from sliding on the hull.



**BOATS HAVE BEEN DAMAGED FROM IMPROPER LIFTING AND TRANSPORTING WITH FORK LIFTS. CARE AND CAUTION MUST BE EXERCISED WHEN TRANSPORTING A BOAT WITH A FORK LIFT. NEVER HOIST THE BOAT WITH A SUBSTANTIAL AMOUNT OF WATER IN THE BILGE.**



**SEVERE GELCOAT CRAZING OR MORE SERIOUS HULL DAMAGE CAN OCCUR DURING HAULING AND LAUNCHING IF PRESSURE IS CREATED ON THE GUNWALES (SHEER) BY THE SLINGS. SPREADERS ARE NOT REQUIRED IF BELTS ARE NOT CREATING PRESSURE (CABLE DRUMS FURTHER APART THAN BEAM OF BOAT). FLAT, WIDE BELTING SLINGS AND SPREADERS LONG ENOUGH TO KEEP PRESSURE FROM THE GUNWALES ARE ESSENTIAL. DO NOT ALLOW ANYONE TO HAUL YOUR BOAT WHEN THE SPREADERS ON THE LIFT ARE NOT WIDE ENOUGH TO TAKE THE PRESSURE OFF THE GUNWALES.**

### Supporting The Boat For Storage:

A cradle is the best support for the boat whenever it is not in the water. Make sure the cradle supports the boat at the correct position.

- The cradle must be specifically for boat storage.
- Make sure the cradle is well supported and placed on a level surface with the bow high enough so that water will drain from the bilge, engine exhaust systems and cockpit.
- The cradle must be in the proper fore and aft position to properly support the hull. When the cradle is in the correct location, the bunks should match the bottom of the hull and should not be putting pressure on the lifting strakes.



**BOATS HAVE BEEN DAMAGED BY TRAILERS AND CRADLES THAT DON'T PROPERLY SUPPORT THE HULL. ALWAYS MAKE SURE THE BUNKS AND PADS ARE ADJUSTED SO THEY ARE NOT PUTTING PRESSURE ON THE LIFTING STRAKES AND ARE PROVIDING ENOUGH SUPPORT FOR THE HULL. HULL DAMAGE RESULTING FROM IMPROPER CRADLE AND TRAILER SUPPORT IS NOT COVERED BY THE PURSUIT WARRANTY.**

**Preparing The Boat For Storage:**

- Remove the bilge drain plug(s), if installed.
- Thoroughly wash the fiberglass exterior, especially the antifouling portion of the bottom. Remove as much marine growth as possible. Lightly wax the exterior fiberglass components.
- Remove all oxidation from the exterior hardware, and apply a light film of moisture displacing lubricant.
- Remove propellers and grease the propeller shafts using light waterproof grease.
- Remove the batteries and store in a cool place. Clean using clear, clean water. Be sure the batteries have sufficient water and clean terminals. Keep the batteries charged and safe from freezing throughout the storage period.

**Note:** Refer to Chapter 4, Electrical Systems, for information on the maintenance of the A.C. and D.C. electrical systems.

- Coat all faucets and exposed electrical components in the cabin and cockpit with a protecting oil.
- Clean out, totally drain and completely dry the fishboxes, sinks and livewells.
- Thoroughly clean the interior of the boat. Vacuum all carpets and dry clean drapes and upholstery.
- Remove cushions, open the refrigerator/cooler door and as many locker doors as possible. Leaving as many of these areas open as possible will improve the boat's ventilation during the storage period.

**Note:** It is recommended that a mildew preventer be hung in the boat's cabin before it is closed for storage.

- Clean the exterior upholstery with a good vinyl cleaner and dry thoroughly. Spray the weather covers and boat upholstery with a spray disinfectant. Enclosed areas such as the refrigerator, shower basin, storage locker areas, etc. should also be sprayed with this disinfectant.

## 14.2 Winterizing

### Freshwater System

The entire freshwater system must be completely drained. Disconnect all hoses, check valves, etc. and blow all the water from the system. Make sure the hot water heater and freshwater tank are completely drained. Use only very low air pressure when doing this to prevent possible system damage. Because of the check valve mechanism built in the pump, blowing the lines will not remove the water from the freshwater pump. Remove the outlet hose on the pump. Turn the pump on and allow it to pump out any remaining water....about a cupful. A recommended alternative to the above-mentioned procedure is the use of commercially available nontoxic, freshwater system antifreeze. After draining the potable water tank, lines and water heater, pour the antifreeze mixture into the freshwater tank, prime and operate the pump until the mixture flows from all freshwater faucets. Be sure to open all hot and cold water faucets, including the freshwater spray head in the stern bait station sink. Make sure antifreeze has flowed through all of the freshwater drains.

The shower and cabin drain sump system must be properly winterized. Clean debris from the drain and sump and flush for several minutes with fresh clean water. After the system is clean, pump the drain sump as dry as possible. Then pour a potable water antifreeze mixture into the shower drain until antifreeze has been pumped through the entire system and out of the thru hull.

For additional information on the freshwater system refer to Chapter 5.

### Raw Water System

Completely drain the raw water systems. Disconnect all hoses and blow the water from the system. Use only very low air pressure when doing this to prevent possible system damage. Because of the check valve mechanism built in the raw water washdown and livewell pumps, blowing the lines will not remove the water from the raw water pump. Remove the outlet hose on the pump. Turn the pump on and allow it to pump out any remaining water....about a cupful. A recommended alternative to the above-mentioned procedure is the use of commercially available nontoxic, potable water system antifreeze. If potable water antifreeze is used, pour the mixture into a pail and put the raw water intake lines into the solution. Run the pumps one at a time until the antifreeze solution is visible at all raw water faucets and discharge fittings and drains. Be sure antifreeze has flowed through all of the raw water drains.

Drain all of the sea strainers, heat exchangers and raw water supply and discharge lines for the engine raw water supply pumps. Make sure all water has drained from the exhaust system. Some, but not all, engine mufflers have a drain plug that must be removed to properly drain the muffler. Once this is accomplished, pour a nontoxic marine engine antifreeze mixture into a large pail and put the engine raw water intake lines into the solution. Run the engines one at a time until the antifreeze solution is visible at the transom exhaust port, then shut the engine off. Properly winterize the engines by following the engine manufacturer's winterizing procedures located in your engine owner's manuals or contact a Pursuit dealer.

For additional information on the raw water system refer to Chapter 6.

### **Marine Toilet**

The marine toilet must be properly winterized by following the manufacturer's winterizing instructions in the marine toilet owner's manual. Drain the intake and discharge hoses completely using low air pressure if necessary. The head holding tank and optional macerator discharge pump must be pumped dry and one gallon of potable water antifreeze poured into the tank through the deck waste pump out fitting. After the antifreeze has been added to the holding tank, open the overboard discharge valve and activate the macerator pump until the antifreeze solution is visible at the discharge thru hull.

**Note:**     **Make sure you follow the marine toilet manufacturer's winterizing instructions exactly.**

### **Bilge**

Coat all metal components, wire busses, and connector plugs in the bilge with a protecting oil. It is also important to protect all strainers, seacocks and steering components. The bilge pumps and bilge pump lines must be completely free of water and dried out when the boat is laid up for the winter in climates where freezing occurs. Compartments in the bilge that will not drain completely should be pumped out and then sponged until completely free of water. Dry the hull bilge and self-bailing cockpit troughs. Water freezing in these areas could cause damage.

### **Hard-Top and Radar Arch**

It is imperative that all drain holes in the legs are open and that the legs are completely free of water. Remove the canvas and thoroughly clean and store in a safe, dry place. Remove all electronics. Coat all wire connectors and bus bars in the helm compartment with a protecting oil.



**ALWAYS MAKE SURE THE LEG DRAIN HOLES ARE CLEAR WHEN THE BOAT IS LAID UP FOR THE WINTER. WATER TRAPPED INSIDE THE HARD-TOP OR RADAR ARCH LEGS COULD FREEZE AND CAUSE THE LEGS TO SPLIT.**

### **Special Notes Prior To Winter Storage**

If the boat will be in outside storage, properly support a storage cover and secure it over the boat. It is best to have a frame built over the boat to support the canvas. It should be a few inches wider than the boat so the canvas will clear the rails and allow passage of air. If this cover is fastened too tightly there will be inadequate ventilation and this can lead to mildew, moisture accumulation, etc. It is essential to fasten the canvas down securely so that the wind cannot remove it or cause chafing of the hull superstructure. Do not store the boat in a damp storage enclosure. Excessive dampness can cause electrical problems, corrosion, and excessive mildew.

Whenever possible, do not use the bimini top or convertible top canvas in place of the winter storage cover. The life of these canvases may be significantly shortened if exposed to harsh weather elements for long periods.



PLACING AN ELECTRIC OR FUEL BURNING HEATING UNIT IN THE BILGE AREA CAN BE POTENTIALLY HAZARDOUS AND IS NOT RECOMMENDED.

Proper storage is very important to prevent serious damage to the boat. If the boat is to be stored indoors, make sure the building has enough ventilation. It is very important that there is enough ventilation both inside the boat and around the boat.

**Note:** If the boat is to be stored indoors or outdoors, open all drawers, clothes lockers, cabinets, and doors a little. If possible, remove the upholstery, mattresses, clothing, and rugs. Then hang a commercially available mildew protector in the cabin.

### 14.3 Recommissioning



DO NOT OPERATE THE BOAT UNLESS IT IS COMPLETELY ASSEMBLED. KEEP ALL FASTENERS TIGHT. KEEP ADJUSTMENTS ACCORDING TO SPECIFICATIONS.

**Note:** It is important and recommended that the fitting out procedure for the marine gear be done by a qualified service person. Read the engine owner's manual for the recommended procedure.



BEFORE LAUNCHING THE BOAT, MAKE SURE THE HULL DRAIN PLUG IS INSTALLED.



MAKE SURE THE DRAIN PLUGS FOR THE MUFFLERS ARE INSTALLED AND PROPERLY TIGHTENED. LOOSE OR MISSING PLUGS WILL ALLOW CARBON MONOXIDE, ENGINE GASES, AND WATER INTO THE BILGE CREATING A POTENTIALLY HAZARDOUS CONDITION.

**Note:** Not all mufflers are equipped with drain plugs.

#### Reactivating The Boat After Storage:

- Charge and install the batteries.
- Install the drain plug in the hull.

- Check the engines for damage and follow the manufacturer's instructions for recommissioning.
- Check the engine mounting bolts to make sure they are tight.
- Perform all routine maintenance.
- Check all hose clamps for tightness.
- Pump the antifreeze from the fresh and raw water systems and flush several times with freshwater. Make sure all antifreeze is flushed from the hot water heater, if installed, and it is filled with freshwater before it is activated.
- Check and lubricate the steering system.
- Clean and wash the boat.
- Install all upholstery, cushions and canvas.

**After Launching:**

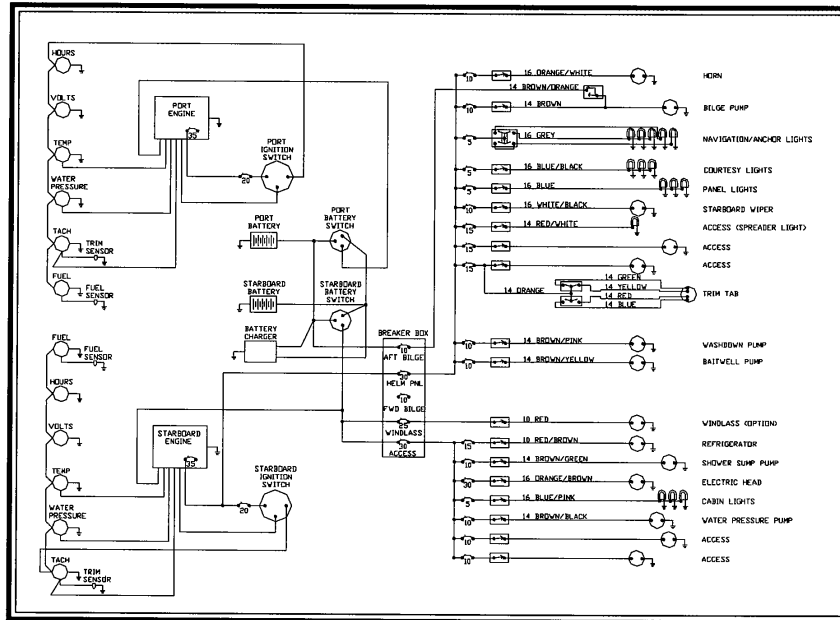
- Carefully check all water systems and the engine for leaks. Operate each system one at a time checking for leaks and proper operation.
- Check the bilge pump manual and automatic switches.
- Check the propeller shaft coupling for proper alignment. Allow the boat to remain in the water for several hours before checking the alignment.
- Prime the fuel system and start the engine. When the engine starts, check the exhaust ports for water flow. This insures that the cooling pump is operating.
- Carefully monitor the gauges and check for leakage and abnormal noises.
- Operate the boat at slow speeds until the engine temperature stabilizes and all systems are operating normally.

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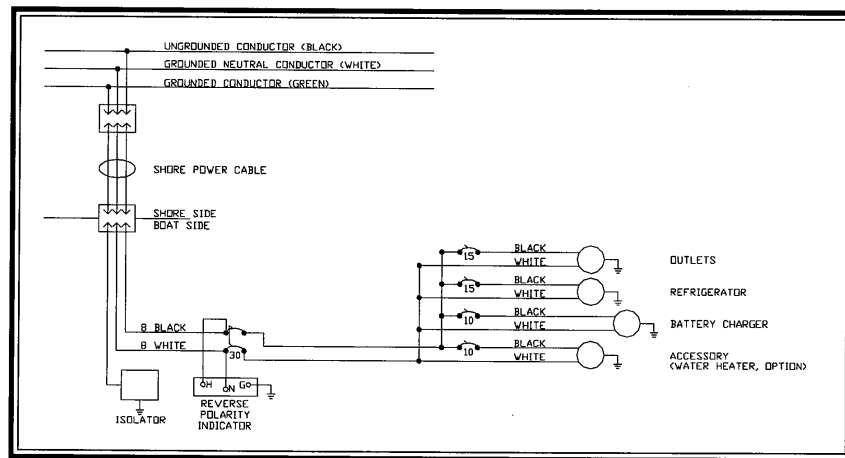
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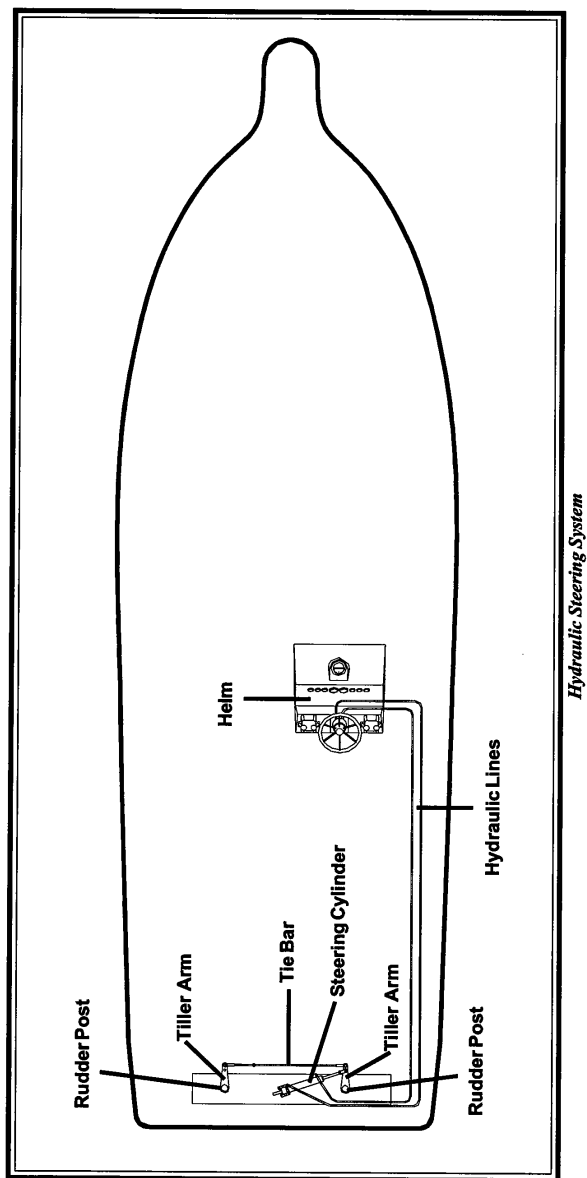
## Chapter 15: SCHEMATICS



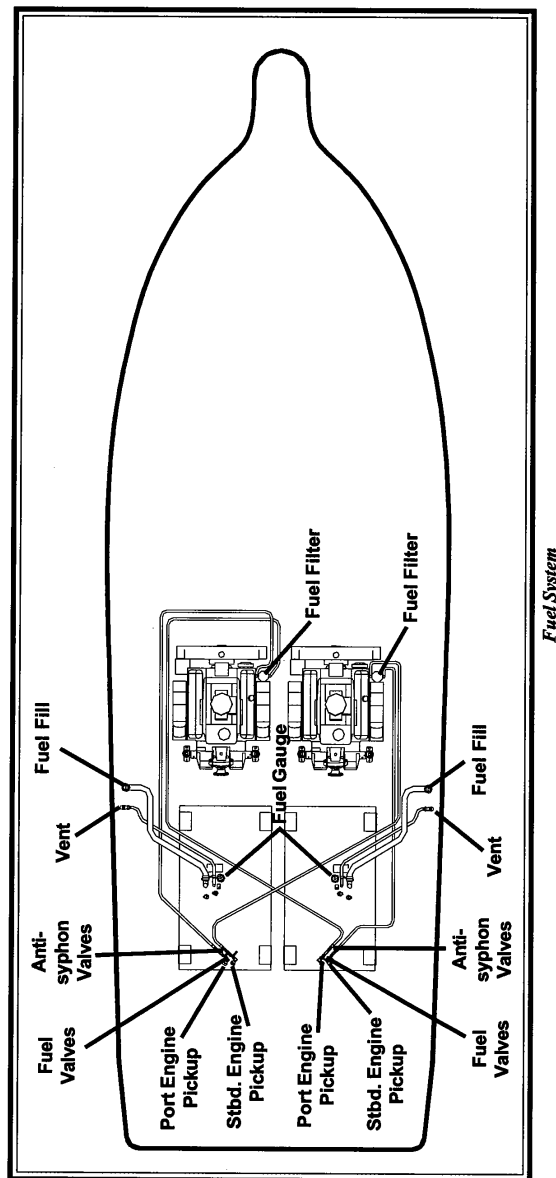
12-Volt D.C. Wiring Schematic

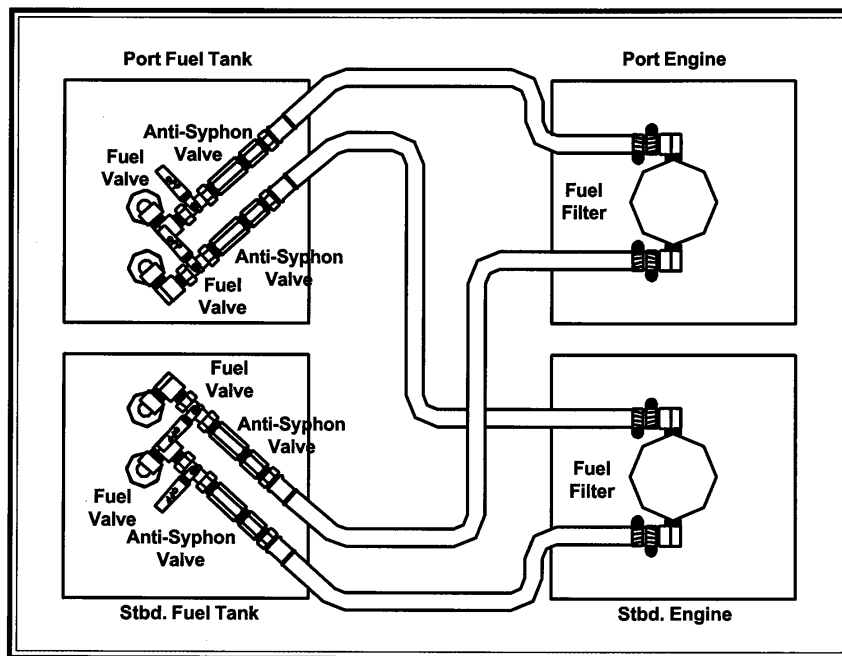


*110-Volt Wiring Schematic*

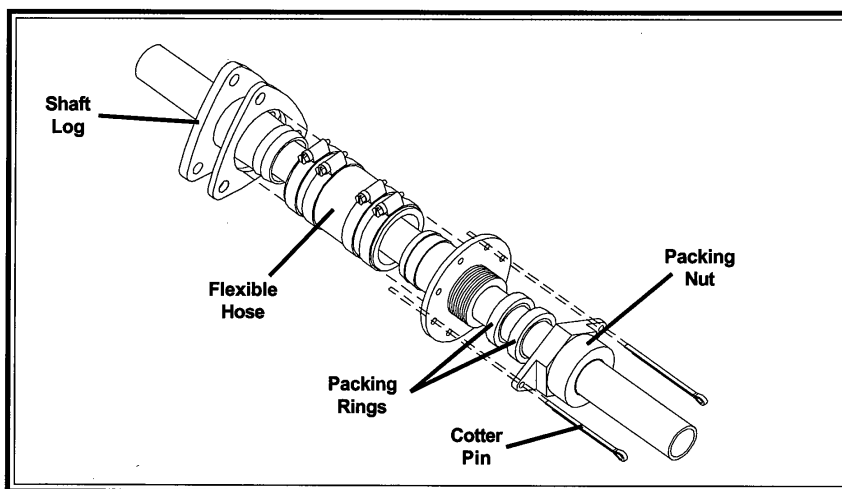


*Hydraulic Steering System*

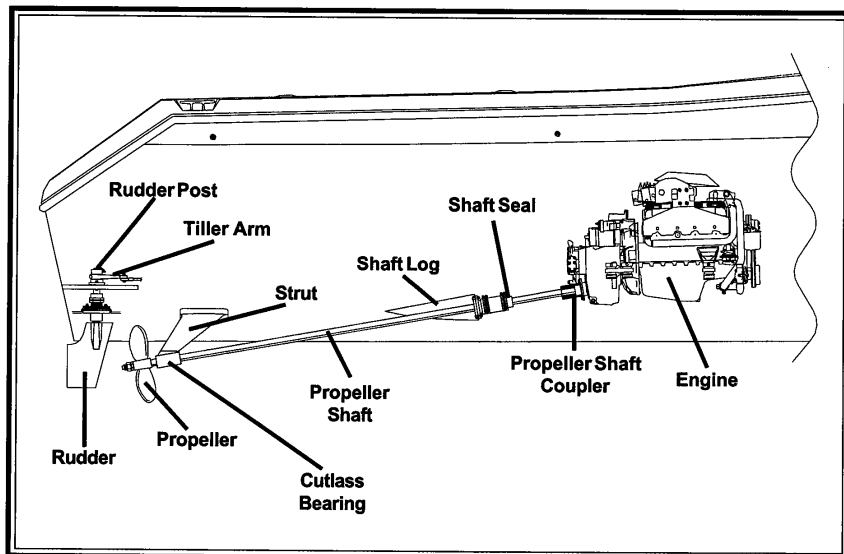




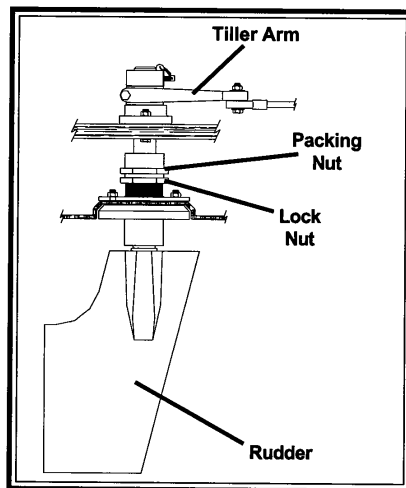
*Fuel Selector Valves*



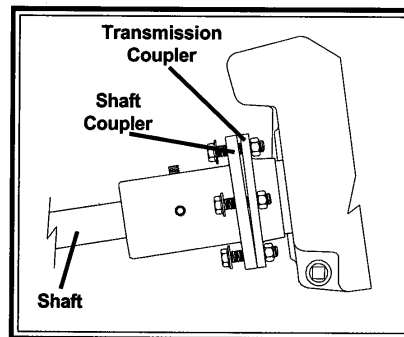
*Shaft Seal Assembly*



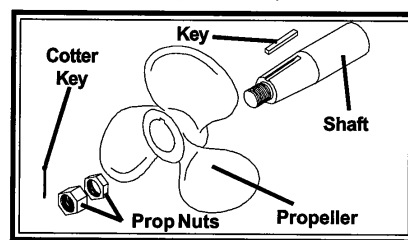
*Running Gear*



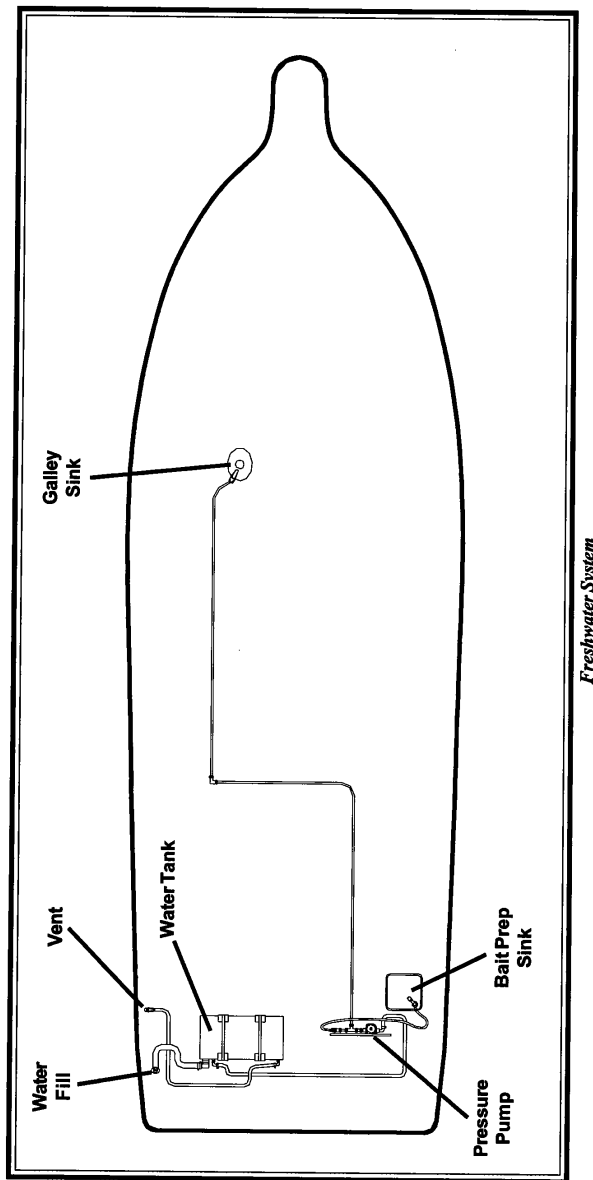
*Rudder Assembly*

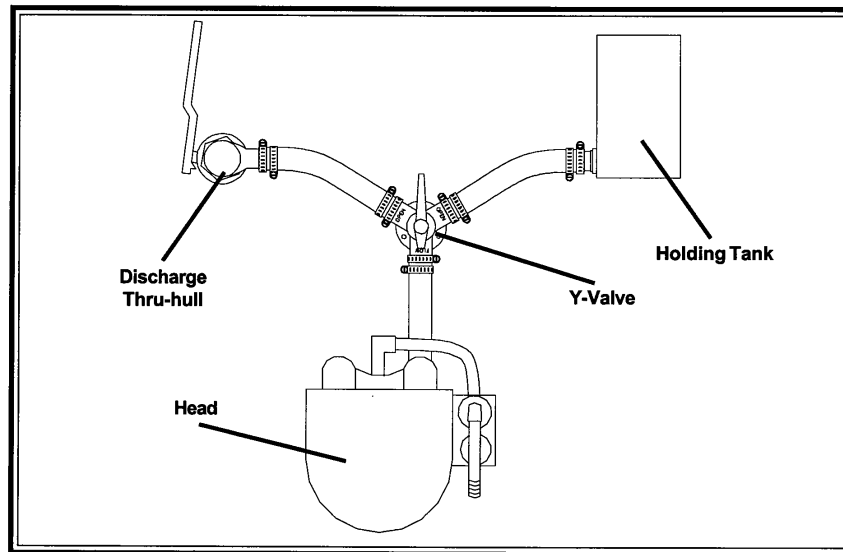


*Coupler Assembly*

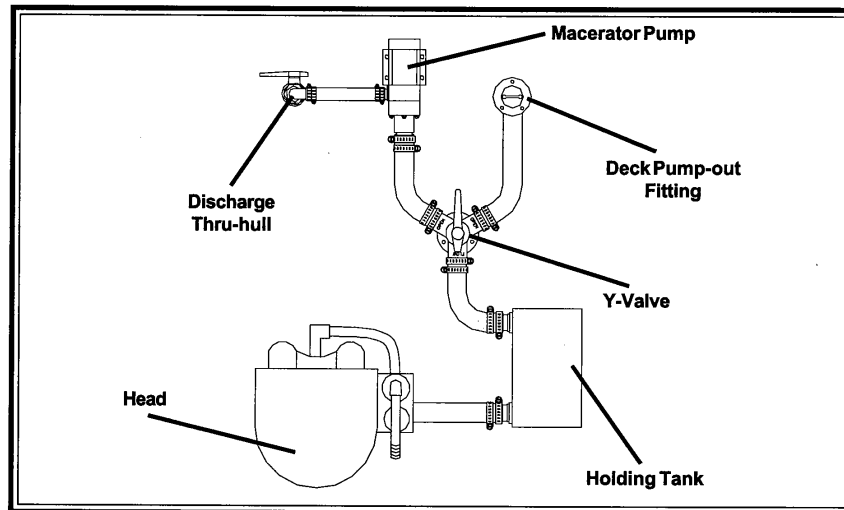


*Prop Assembly*



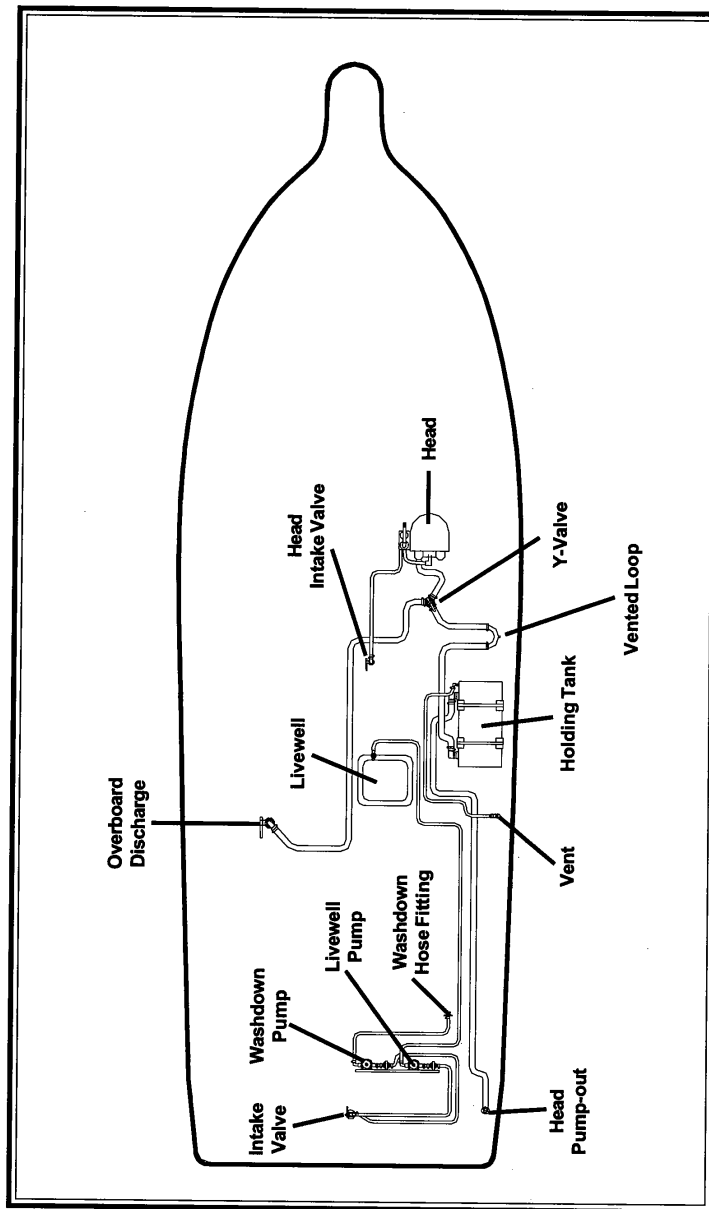


*Head with Y-Valve*



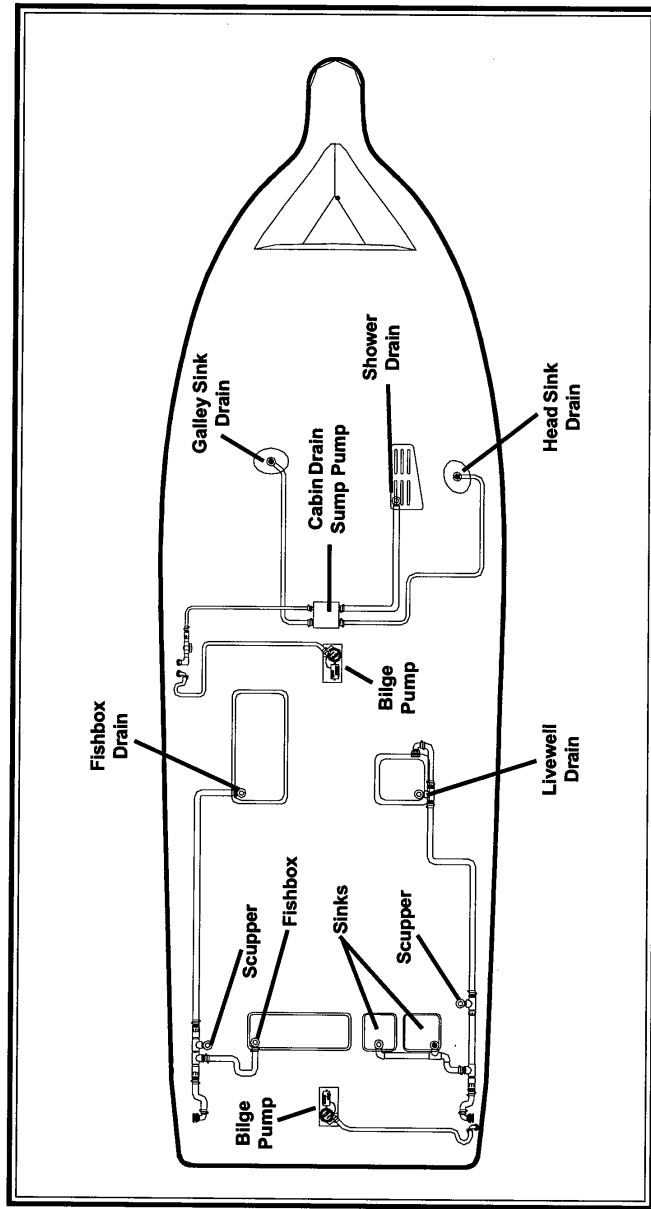
*Head with Y-Valve and Macerator*



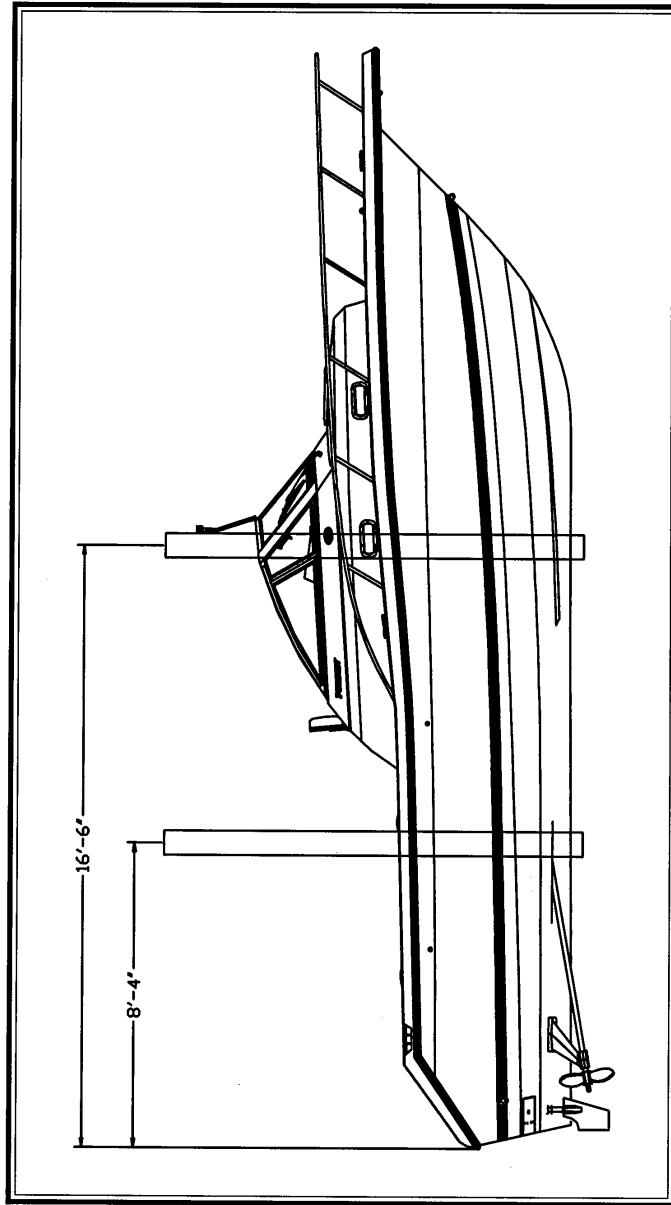


*Raw Water System*

Strainer



*Drainage System*



*Sling Positions*

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## *Appendix A:* **GLOSSARY OF TERMS**

<b>Aft:</b>	In, near, or toward the stern of a boat
<b>Aground:</b>	A boat stuck on the bottom
<b>Amidship:</b>	In or toward the part of a boat midway between the bow and stern
<b>Anchor:</b>	A specially shaped heavy metal device designed to dig efficiently into the bottom under a body of water and hold a boat in place
<b>Anchorage:</b>	An area specifically designated by governmental authorities in which boats may anchor
<b>Athwartship:</b>	When an object lies on a line or in a plane at right angles to the centerline of a boat
<b>Beam:</b>	The breadth of a boat usually measured at its widest part
<b>Beamy:</b>	Boats of greater than normal beam
<b>Bilge:</b>	The lower interior areas of the hull of a boat
<b>Bilge Pump:</b>	Pumps water that collects in the bilge, overboard
<b>Boarding Ladder:</b>	Set of steps temporarily fitted over the side of a boat to assist persons coming aboard
<b>Boat Hook:</b>	Short shaft of wood or metal with a fitting at one end shaped to aid in extending one's effective reach from the side of the boat
<b>Bow:</b>	The front end of a boat
<b>Bow Line:</b>	A line that leads forward from the bow of the boat
<b>Bow Rail:</b>	Knee high rails of solid tubing to aid in preventing people from falling overboard
<b>Bridge:</b>	The area from which a boat is steered and its speed controlled
<b>Bridge Deck:</b>	Deck forward and usually above the cockpit deck

<b>Bulkhead:</b>	Vertical partition separating compartments of a boat
<b>Cabin:</b>	Superstructure above the main deck level
<b>Capsize:</b>	When a boat turns over
<b>Chain Locker:</b>	A locker, usually located in the bow of a boat, used for stowing the anchor line or chain
<b>Chapman's:</b>	Chapman-Piloting, Seamanship, and Small Boat Handling, 60th Edition, by Elbert S. Maloney, Hearst Marine Books, NY, ISBN 9-688-10425-8
<b>Chock:</b>	A deck fitting, usually of metal, with inward curving arms through which lines such as mooring or anchor lines are passed so as to lead them in the proper direction both on board and off the boat
<b>Closed Cooling System:</b>	A separate supply of freshwater is used to circulate only within the engine
<b>Coaming:</b>	A vertical piece around the edges of cockpit, hatches, etc. to stop water on deck from running below
<b>Cockpit:</b>	An open space in the deck of a boat outside of the cabin and deckhouse
<b>Companionway:</b>	Openings in the deck of a boat to provide access below
<b>Compartment:</b>	The interior of a boat divided off by bulkheads
<b>Cradle:</b>	The framework which supports a boat as she is hauled out or stored
<b>Cutlass Bearing:</b>	Rubber bearing in the strut that supports the propeller shaft
<b>Deck:</b>	The floor-like platform of a boat
<b>Draft:</b>	The depth of water a boat needs to float
<b>Dry Rot:</b>	A fungus attack on wood areas
<b>Drydock:</b>	A dock that can be kept dry during boat construction or repair
<b>Electrical Ground:</b>	A connection between an electrical connector and the earth

<b>Engine Bed:</b>	A sturdy structural member running fore-and-aft on which the engine is mounted
<b>Even Keel:</b>	When a boat floats properly as designed
<b>Fender:</b>	A soft object of rubber or plastic used between boats and piles, pier sides, seawalls, etc. to protect the topsides from scarring and to cushion any shock of the boat striking a fixed object
<b>Fly Bridge:</b>	An added set of controls above the level of the normal control station
<b>Fore:</b>	The part of the boat in which the bow is located
<b>Foundering:</b>	When a boat fills with water and sinks
<b>Freeboard:</b>	The height of a boat's topsides from the waterline to the deck
<b>Fuel Pump:</b>	Feeds fuel under pressure
<b>Galley:</b>	The kitchen of a boat
<b>Grab Rail:</b>	Hand-hold fittings mounted on cabin tops or sides for personal safety when moving around the boat, both on deck and below
<b>Ground Tackle:</b>	A general term including anchors, lines, and other gear used in anchoring
<b>Grounds:</b>	A boat touches the bottom
<b>Gunwale:</b>	The upper edge of a boat's side
<b>Hand Rail:</b>	Rail mounted on the boat, for grabbing with your hand, to steady you while walking about the boat
<b>Harbor:</b>	An anchorage which provides reasonably good protection for a boat, with shelter from wind and sea
<b>Hatch:</b>	A door or cover for access down into a compartment of a boat
<b>Head:</b>	Refers to both the toilet and toilet area
<b>Headroom:</b>	The vertical distance between the deck and the cabin or canopy top (or other overhead structure)

<b>Heat Exchanger:</b>	Used to transfer the heat that is picked up by the closed cooling system to the raw cooling water
<b>Helm:</b>	The operating area of a boat
<b>Hull:</b>	The frame or body of the boat
<b>Inboard:</b>	A boat with the engine mounted within the hull inside the gunwale of the boat
<b>Keel:</b> bottom of a boat	A plate or timber plate running lengthwise along the center of the
<b>Knot:</b>	Unit of speed, 1 knot = 1 nautical mile per hour (1.161 miles per hour)
<b>Lay-up:</b>	To decommission a boat for the winter (usually in northern climates)
<b>Lazarette:</b>	A compartment in the stern of a boat used for general storage
<b>Length On The Waterline (l.w.l.):</b>	A length measurement of a boat from the fore part of the stern to the after part of the stern where the hull breaks the water
<b>Life Preserver:</b>	Provides additional buoyancy to keep a person afloat when he/she is in the water
<b>Limber Hole:</b>	A passage cut into the lower edges of floors and frames next to the keel to allow bilge water to flow to the lowest point of the hull from where it can be pumped out
<b>Line:</b>	Rope
<b>Lists:</b>	A boat that inclines to port or starboard while afloat
<b>Locker:</b>	A closet, chest or box aboard a boat
<b>Marina:</b>	A protected facility primarily for recreational small craft
<b>Marine Ways or Railways:</b>	Inclined planes at the water's edge onto which boats are hauled
<b>Moored:</b>	Secured with cables, lines or anchors
<b>Nautical Mile:</b>	Distance measurement equal to a unit about 6/5th's of a statute (land) mile



<b>Oil pump:</b>	Supplies lubricating oil where needed within the engine
<b>Outboard:</b>	A boat with the engine mounted on the transom and is detachable
<b>Overhead:</b>	The ceiling of a cabin or compartment
<b>Pier:</b>	A structure which projects out from the shoreline
<b>Piles or Piling:</b>	A long column driven into the bottom to which a boat can be tied
<b>Plenum:</b>	A chamber for directing air flow, as in engine intake air plenum
<b>Pitching:</b>	The fore and aft rocking motion of a boat as the bow rises and falls
<b>Port:</b>	The left side of the boat when facing the bow
<b>Porthole (port):</b>	The opening in the side of a boat to allow the admittance of light and air
<b>Propeller Shaft:</b>	Shaft which runs from the back of the engine gear box, aft, through the stuffing box, shaft log, struts, and onto which the propeller is attached
<b>Raw Water Cooled:</b>	Water for cooling is drawn in through a hull fitting, circulated in the engine, and then discharged overboard
<b>Reduction Gear:</b>	Often combined with the reverse gear so that the propeller, turning at a slower rate than the engine, will have increased efficiency
<b>Reverse Gear:</b>	Change the direction of rotation of the propeller to give a thrust in the opposite direction for stopping the boat or giving it sternway
<b>Roll:</b>	A boat's sidewise rotational motion in rough water
<b>Rope Locker:</b>	See "chain locker"
<b>Rubrail:</b>	Railing (often rubber or hard plastic) that runs along the boat's sheer to protect the hull when coming alongside docks, piers, or other boats
<b>Rudder:</b>	A moveable flat surface that is attached vertically at or near the stern for steering
<b>Scupper:</b>	An opening in the side or transom of the boat through which water on deck or in the cockpit is drained overboard

<b>Seacock:</b>	Safety valves installed just inside the thru-hull fittings and ahead of the piping or hose running from the fittings
<b>Shaft log:</b>	Pipe through which the propeller shaft passes
<b>Sheer:</b>	The uppermost edge of the hull
<b>Sling:</b>	A strap which will hold the boat securely while being lifted, lowered, or carried
<b>Sole:</b>	The deck of a cockpit or interior cabin
<b>Spring Line:</b>	A line that leads from the bow aft or from the stern forward to prevent the boat from moving ahead or astern
<b>Starboard:</b>	The right side of a boat when facing the bow
<b>Stem:</b>	The line at which the port and stern topsides meet at the bow
<b>Stern:</b>	The rear end of a boat
<b>Stringer:</b>	Longitudinal members fastened inside the hull for additional structural strength
<b>Strut Bearing:</b>	See "cutlass bearing"
<b>Stuffing Box:</b>	Prevents water from entering at the point where the propeller shaft passes through the shaft log
<b>Superstructure:</b>	Something built above the main deck level
<b>Swamps:</b>	When a boat fills with water from over the side
<b>Swimming Ladder:</b>	Much the same as the boarding ladder except that it extends down into the water
<b>Taffrail:</b>	Rail around cockpit
<b>Thru-hull:</b>	A fitting used to pass fluids (usually water) through the hull surface, either above or below the waterline
<b>Topsides:</b>	The side skin of a boat between the waterline or chine and deck
<b>Transom:</b>	Flat planking across the stern

<b>Travel Lift:</b>	Machinery used at boat yards to hoist boats out of and back into the water
<b>Trim:</b>	This relates to the way a boat floats in the water
<b>Trough:</b>	The area of water between the crests of waves and parallel to them
<b>Twin-Screw Craft:</b>	A boat with two propellers on two separate shafts
<b>Underway:</b>	When a boat moves through the water
<b>Wake:</b>	Disrupted water that a boat leaves astern as a result of its motion
<b>Wash:</b>	The flow of water that results from the action of her propeller or propellers
<b>Water Pump:</b>	Circulates cooling water
<b>Waterline:</b>	The plane of a boat where the surface of the water touches the hull when it is afloat on even keel
<b>Watertight Bulkhead:</b>	Bulkheads secured so tightly so as not to let water pass
<b>Wharf:</b>	A structure generally parallel to the shore
<b>Working Anchor:</b>	An anchor carried on a boat for most normal uses
<b>Yacht Basin:</b>	A protected facility primarily for recreational small craft
<b>Yaw:</b>	When a boat runs off her course to either side

## Appendix B:

## MAINTENANCE LOG

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## MAINTENANCE LOG

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# MAINTENANCE LOG

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