# **BAJLINER®** 246 Discovery

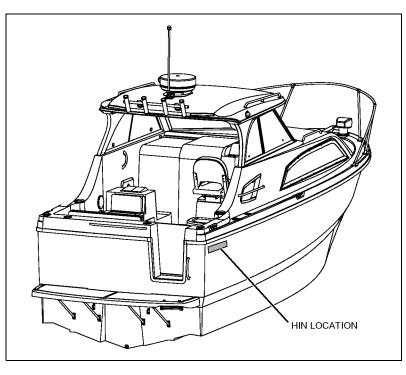
# Owner's Manual Supplement

### Engine Serial Number: \_\_\_\_\_

### Hull Identification Number:\_

#### **Hull Identification Number**

- The Hull Identification Number (HIN) is located on the starboard hullside just forward of the transom.
- Record the HIN (and the engine serial numbers) in the space provided above.
- Include the HIN with any correspondence or orders.



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Due to our commitment to product improvement, Bayliner reserves the right to make changes in the product design, specifications, and equipment at any time without notice or obligation. Illustrations and/or photos may show optional equipment.

All Bayliner products meet or exceed USCG (United States Coast Guard) and/or NMMA (National Marine Manufacturer's Association) construction standards. Manufactured with 1,1,1 Trichloroethane, a substance which harms public health and environment during the manufacturing process by destroying ozone in the upper atmosphere.

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### Hazard Boxes & Symbols

The hazard boxes and symbols shown below are used throughout this supplement to call attention to potentially dangerous situations which could lead to either personal injury or product damage. Read *all* warnings carefully and follow *all* safety instructions.

# DANGER!

This box alerts you to immediate hazards which *WILL* cause severe personal injury or death if the warning is ignored.

# 🔥 WARNING!

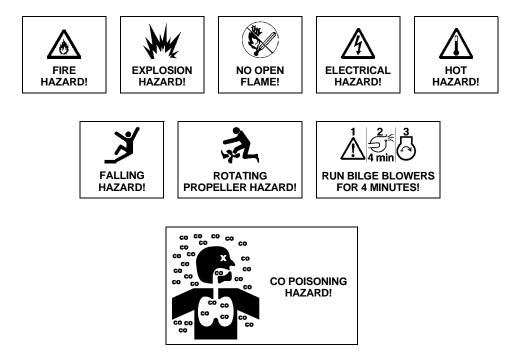
This box alerts you to hazards or unsafe practices which *COULD* result in severe personal injury or death if the warning is ignored.

# **CAUTION**

This box alerts you to hazards or unsafe practices which *COULD* result in minor personal injury or cause product or property damage if the warning is ignored.

# NOTICE

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



# Chapter 1: Welcome Aboard!

- This *Owner's Manual Supplement* provides specific information about your boat that is *not* covered in the *Cruiser & Yacht Owner's Manual*.
- The *Cruiser & Yacht Owner's Manual* contains general information about safe operating practices, general boating regulations, and general maintenance techniques. Information that is more specific to your particular boat is found in this *Owner's Manual Supplement*.
- **Before** using your boat, study this *Owner's Manual Supplement*, the *Cruiser & Yacht Owner's Manual*, and **all** engine and accessory literature carefully. If similar instructions are found in more than one manual, **always** refer to the specific manufacturer's manual (such as the engine manual) for the most complete and accurate information.
- Keep this *Owner's Manual Supplement* and the *Cruiser & Yacht Owner's Manual* on your boat in a secure, yet readily available place.

### **Dimensions & Tank Capacities**

Overall	Length	Bridge	Beam	Draft	Draft	Fuel	Freshwater	Holding Tank
Length	Rigged	Clearance		(Hull)	(Maximum)	Capacity	Capacity	Capacity
25' 8"	26' 6"	8' 9"	8' 6"	1' 9"	3' 3"	81 Gallons	20 Gallons	20 Gallons

### Warranty Information

- Bayliner offers a Limited Warranty on each new Bayliner purchased through an authorized Bayliner dealer.
- A copy of the Limited Warranty was included in your owner's packet.
- If you did not get a copy of the Limited Warranty, please contact your Bayliner dealer or call 360-435-8957 for a copy.

### **Dealer Service**

- Your dealer is your key to service.
- Ask your dealer to explain *all* systems *before* taking delivery of your boat.
- Contact your dealer if you have any problems with your new boat.
- If your dealer cannot help, call our customer service hotline: 360-435-8957 or send us a FAX: 360-403-4235.
- Buy replacement parts from any authorized Bayliner dealer.
- You can access on-line parts catalogs, links to vendor websites, and other helpful features by logging on to <a href="http://www.baylinerparts.com">http://www.baylinerparts.com</a>.

### **Qualified Maintenance**

# WARNING!

To maintain the safety of your boat, allow *ONLY* trained personnel to work on, or change, in any way, the:

- Steering system
- Propulsion system
- Engine control system
- Fuel system

- Environmental control system
- Electrical system
- Navigation system
- Failure to maintain your boat's systems (listed in the warning above) as designed could violate the laws in your jurisdiction and could expose you and other people to the danger of bodily injury or accidental death.
- Follow the instructions provided in the *Cruiser & Yacht Owner's Manual*, this *supplement*, the engine owner's manual, and *all* accessory literature.

### **Boating Experience**

# 🔥 WARNING!

#### CONTROL HAZARD!

An experienced operator *MUST* be in control of your boat at *ALL* times. Do *NOT* operate your boat while under the influence of alcohol or drugs.

If this is your first boat or if you are changing to a type of boat you are *not* familiar with, for your own comfort and safety, get handling and operating experience *before* assuming command of your boat.

Take one of the boating safety classes offered by the U.S. Power Squadrons or the U.S. Coast Guard Auxiliary. For more course information, including dates and locations of upcoming classes, contact the organizations directly:

- U.S. Power Squadrons: 1-888-FOR-USPS (1-888-367-8777) or on the Internet at: http://www.usps.org
- In Canada, for the CPS courses call 1-888-CPS-BOAT.
- U.S. Coast Guard Auxiliary: 1-800-368-5647 or on the Internet at: http://www.cgaux.org

Outside the United States, your selling dealer, national sailing federation, or local boat club can advise you of local sea schools or competent instructors.

### **Special Care for Moored Boats**

### NOTICE

- To help seal the hull bottom and reduce the chance of gel coat blistering while your boat is moored, apply an epoxy barrier coating.
- The barrier coating should be covered with several coats of anti-fouling paint.
- Many states regulate the chemical content of bottom paints in order to meet environmental standards. Check with your local dealer about recommended bottom paints, and about the laws in effect in your area.
- Whether moored in saltwater or freshwater, your boat will collect marine growth on its hull bottom.
- This will detract from your boat's beauty, greatly affect its performance, and may damage the gel coat.
- Periodically haul your boat out of the water and scrub the hull bottom with a bristle brush and a solution of soap and water.

### **Structural Limitations**

The swim platform extension is designed to be lightweight for proper boat balance. The load limit for the swim platform extension is 30 pounds per square foot, evenly distributed.

### **Engine & Accessory Guidelines & Literature**

### NOTICE

**BEFORE** starting or working on your engine(s), read the engine manual.

# NOTICE

BEFORE using the accessories on your boat, read the accessory manuals.

## NOTICE

**BEFORE** storing your boat, refer to your engine and accessory manuals for storage/winterization instructions.

# NOTICE

Certain modifications to your boat *WILL* result in cancellation of your warranty protection. *ALWAYS* check with your dealer *BEFORE* making any modifications to your boat.

- Your boat's engine and accessories were selected to provide optimum performance and service.
- Installing a different engine or adding accessories may affect your boat's running trim.
- If you choose to install a different engine or add accessories that may affect your boat's running trim, have a trained marine technician perform a safety inspection and handling test *before* using your boat again.
- The engine and accessories on your boat have their own manuals. Read these manuals *before* using the engines and accessories.

Unless noted otherwise, *all* engine and accessory literature referred to in this *Owner's Manual Supplement* is included in your owner's packet.

While the topics listed below may be included in this *Owner's Manual Supplement* and in the *Cruiser & Yacht Owner's Manual, always* refer to the engine manual first for specific information on these important subjects:

- Engine Break-in Procedure
- Starting the Engine
- Gear Shifting

- Stopping the Engine
- Fuel and Oil Recommendations
- Engine Storage/Winterization

#### Propeller



### ENGINE DAMAGE HAZARD!

The factory standard propeller may not be the best for your particular boat and load conditions. Refer to the engine manual for engine RPM ratings. The engine should reach, but not exceed its full rated RPM when full-throttle is applied.

Immediately contact your local Bayliner dealer if:

- The engine cannot reach its full rated RPM when full-throttle is applied, or;
- The engine exceeds its full rated RPM when full-throttle is applied.
- Keep the propeller in good repair and at the correct pitch for your particular situation.
- A slightly bent or nicked propeller will adversely affect the performance of your boat.

### Safety Standards

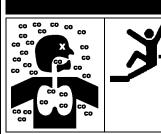
# DANGER!

FALLING and ROTATING PROPELLER HAZARD!

• *NEVER* allow anyone to ride on parts of your boat *NOT* designed for such use.

• Sitting on seat-backs, lounging on the forward deck, bow riding, gunwale riding or occupying the transom platform while underway is especially hazardous and *WILL* cause personal injury or death.

# **A** DANGER!



FALLING, ROTATING PROPELLER and CARBON MONOXIDE POISONING HAZARD!

- *NEVER* allow anyone to occupy, or hang from, the back deck or swim platform while the engine is running.
- Teak surfing, dragging, or water skiing within 20 feet of a moving watercraft can be fatal.

# A DANGER!

### PERSONAL SAFETY HAZARD!

- ALWAYS secure the anchor and other loose objects BEFORE getting underway.
- The anchor and other items that are *NOT* properly secured can come loose when your boat is moving and cause personal injury or death.

# WARNING!

A wide variety of components used on this vessel contain or emit chemicals known to the State of California to cause cancer and birth defects and other reproductive harm.

**Examples Include:** 

- Engine and generator exhaust
- Engine and generator fuel, and other liquids such as coolants and oil, especially used motor oil
- Cooking fuels
- Cleaners, paints, and substances used for vessel repair
- Waste materials that result from wear of vessel components
- Lead from battery terminals and from other sources such as ballast or fishing sinkers

#### To Avoid Harm:

- Keep away from engine, generator, and cooking fuel exhaust fumes.
- Wash exposed skin thoroughly with soap and water after handling the substances above.
- Your boat's mechanical and electrical systems were designed to meet safety standards in effect at the time it was built.
- Some of these standards were mandated by law, and all of them were designed to insure your safety and the safety of other people, vessels and property.

Read this *supplement*, the *Cruiser & Yacht Owner's Manual*, and *all* accessory instructions for important safety standards and hazard information.



### **Boat Lifting**

# 🔥 WARNING!

### PERSONAL INJURY and/or PRODUCT or PROPERTY DAMAGE HAZARD!

- Lifting slings can slip on the hull, which could cause serious injury or death.
- Reduce the risk of sling slippage by *ALWAYS* securing the lifting slings together *BEFORE* lifting.

# 🔥 WARNING!

#### PERSONAL INJURY and/or PRODUCT or PROPERTY DAMAGE HAZARD!

**NEVER** lift any boat using the cleats, or the bow/stern eyes.

# WARNING!

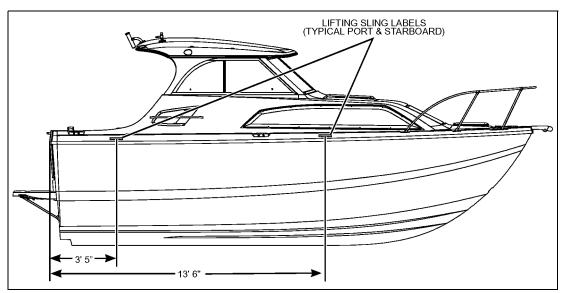
### PERSONAL INJURY and/or PRODUCT or PROPERTY DAMAGE HAZARD!

- Water in the bilge can shift and change the balance of the load.
- If water is present in the bilge, pump or drain the water out of the bilge areas *BEFORE* lifting your boat.

#### 

#### **PRODUCT or PROPERTY DAMAGE HAZARD!**

- When lifting any boat, ALWAYS use a spreader bar.
- The spreader bar *MUST* be equal to the width of the boat at each lifting point.
- Make sure your boat remains level during lifting. Engines can be damaged by water ingestion if the stern is lifted higher than the bow.
- *Always* follow the lift equipment's instructions and requirements.
- When lifting your boat, *always* position the lifting slings at the port and starboard lifting sling label positions as shown in the illustration.



## Carbon Monoxide (CO)

A DANGER!
<ul> <li>Carbon monoxide gas (CO) is colorless, odorless, tasteless, and extremely dangerous.</li> <li><i>ALL</i> engines, generators, and fuel burning appliances produce CO as exhaust.</li> <li>Prolonged exposure to low concentrations or very quick exposure to high concentrations <i>WILL</i> cause <i>BRAIN DAMAGE</i> or <i>DEATH</i>.</li> <li>Teak surfing, dragging, or water skiing within 20 feet of a moving water-craft can be fatal.</li> </ul>

### CO Facts

- CO poisoning causes a significant number of boating deaths each year.
- Called the "silent killer", CO is an extremely toxic, colorless, odorless and tasteless gas.
- CO can harm or even kill you inside or outside your boat.
- CO can affect you whether you're underway, moored, or anchored.
- CO symptoms are similar to seasickness or alcohol intoxication.
- CO can make you sick in seconds. In high enough concentrations, even a few breaths can be fatal.
- Breathing CO blocks the ability of your blood to carry oxygen.
- The effects are cumulative. Even low levels of exposure can result in injury or death.

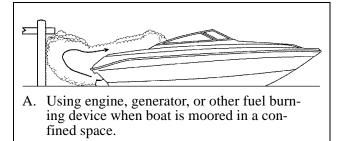
### Factors that Increase the Effects of CO Poisoning

- Age
- Smokers or people exposed to high concentrations of cigarette smoke
- Consumption of alcohol
- Lung disorders
- Heart problems
- Pregnancy



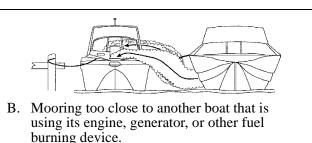
### Where & How CO Can Accumulate

#### Stationary conditions that increase CO accumulations include:

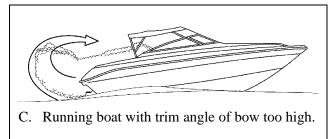


#### To correct stationary situations A and/or B:

- Close all windows, portlights and hatches.
- If possible, move your boat away from source of CO.



#### Running conditions that increase CO accumulations include:





D. Running boat without through ventilation (station wagon effect).

#### To correct running situations C and/or D:

- Trim bow down.
- *Open* windows and canvas.
- When possible, run boat so that prevailing winds help dissipate exhaust.

### How to Protect Yourself & Others From CO

- Know where and how CO may accumulate in and around your boat (see above).
- Always maintain fresh air circulation throughout your boat.
- Know where your engine and generator exhaust outlets are located and keep everyone away from these areas.
- *Never* sit on, or hang onto, the back deck or swim platform while the engine(s) is running.
- *Never* enter the areas under swim platforms where exhaust outlets are located.
- Although CO can be present without the smell of exhaust fumes, if exhaust fumes are detected on your boat, take *immediate* action to dissipate these fumes.
- Treat symptoms of seasickness as possible CO poisoning. Get the person into fresh air *immediately*. Seek medical attention—unless you're sure it's *not* CO.
- Maintain the CO monitors that are installed inside your boat. *Never* ignore any alarm. Replace monitors as recommended by the monitor manufacturer.
- Follow the checklists provided on the next page.
- Get a Vessel Safety Check.

For information on how to get a free VESSEL SAFETY CHECK, visit www.vesselsafetycheck.org or contact your local U.S. Coast Guard Auxiliary or United States Power Squadrons®.

- U.S. Coast Guard Auxiliary: 1-800-368-5647 or on the Internet at: http://www.cgaux.org
- U.S. Power Squadrons: 1-888-FOR-USPS (1-888-367-8777) or on the Internet at: http://www.usps.org

### **CO** Checklists

### **Trip Checklist**

- □ Make sure you know where the exhaust outlets are located on your boat.
- **□** Educate *all* passengers about the symptoms of CO poisoning and where CO may accumulate.
- U When docked, or rafted with another boat, be aware of exhaust emissions from the other boat.
- Listen for any change in exhaust sound, which could mean an exhaust component failure.
- **□** Test the operation of each CO monitor by pressing the test button.

### Monthly Checklist

- □ Make sure *all* exhaust clamps are in place and secure.
- □ Look for exhaust leaking from exhaust system components. Signs include rust and/or black streaking, water leaks, or corroded or cracked fittings.
- □ Inspect rubber exhaust hoses for burned, cracked, or deteriorated sections. *All* rubber hoses should be pliable and free of kinks.

### Annual Checklist

#### Have a Trained Marine Technician:

- **□** Replace exhaust hoses if cracking, charring, or deterioration is found.
- Ensure that your engines and generators are properly tuned, and well maintained.
- □ Inspect each water pump impeller and the water pump housing. Replace if worn. Make sure cooling systems are in working condition.
- □ Inspect *all* metallic exhaust components for cracking, rusting, leaking, or loosening. Make sure they check the cylinder head gasket, exhaust manifold, water injection elbow, and the threaded adapter nipple between the manifold and the elbow.
- Clean, inspect, and confirm proper operation of the generator cooling water anti-siphon valve (if equipped).

### CO Monitor

### NOTICE

- The stereo memory and the CO monitor place a small, but constant drain on the battery.
- If your boat will be unattended for an extended amount of time, plug into shore power with the battery charger turned *On*.
- Do *not* disconnect the CO monitor.
- Read the manufacturer's instructions for your CO monitor. If you did not get the manufacturer's instructions, call (800) 383-0269 and they will be mailed to you.
- If your boat is *not* equipped with a CO monitor, consider purchasing one from your dealer or marine supply store.

### More Information

For more information about preventing CO poisoning on recreational boats and other boating safety tips, contact:

United States Coast GuardNational Marine ManufacturersOffice of Boating Safety (G-OPB-3)Association (NMMA)2100 Second Street SW200 East Randolph DriveWashington, DC 20593Suite 5100www.uscgboating.orgChicago, IL 60601-93011-800-368-5647www.nmma.org312-946-6200

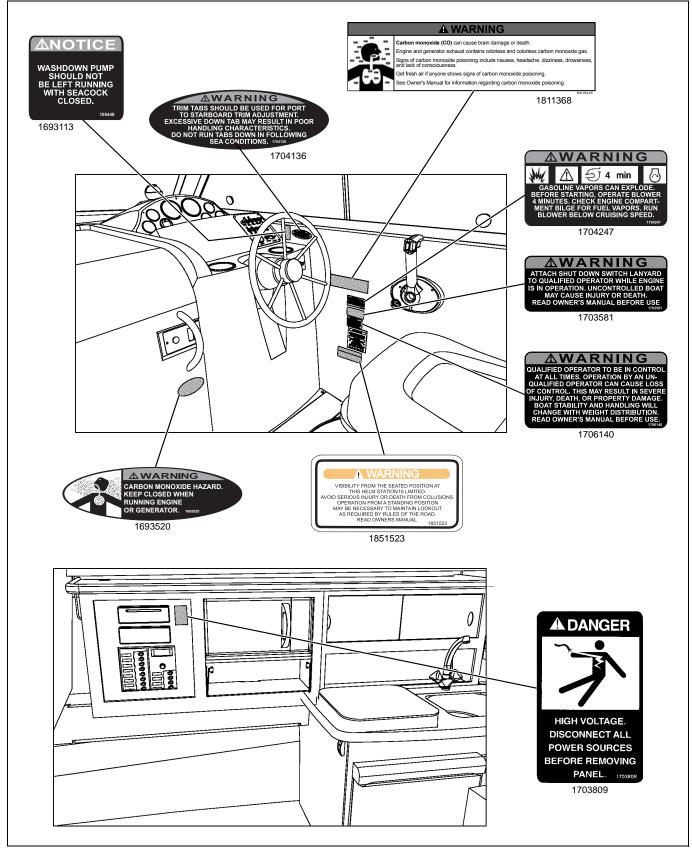
American Boat & Yacht Council, Inc. (ABYC) 3069 Solomon's Island Road Edgewater, MD 21037-1416 www.abycinc.org 410-956-1050

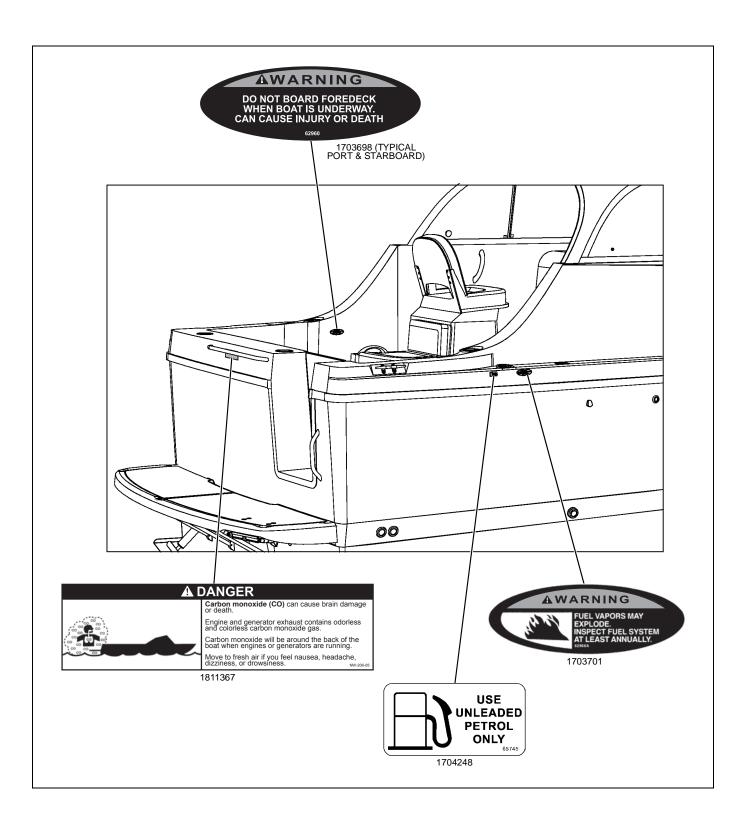
For information about free VESSEL SAFETY CHECKs, visit www.vesselsafetycheck.org or contact your local U.S. Coast Guard Auxiliary or United States Power Squadrons®.

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### Warnings & Warning Labels

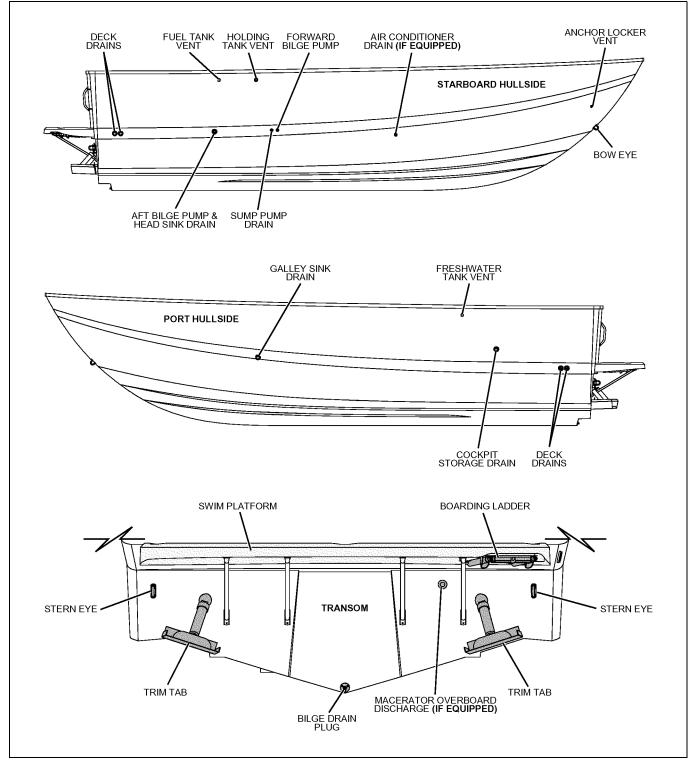




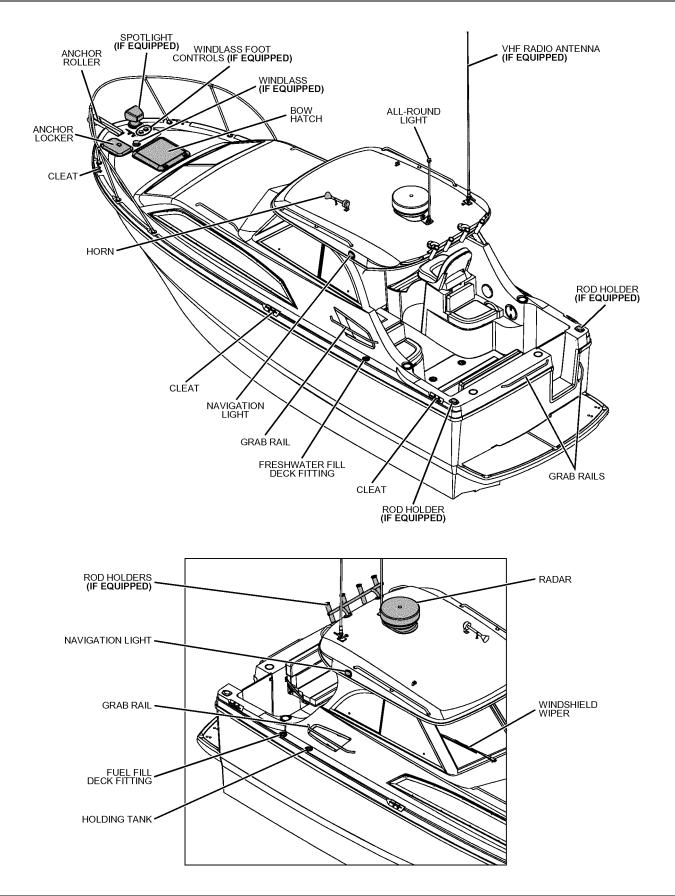
# **Chapter 2: Locations**

### **Exterior Views**

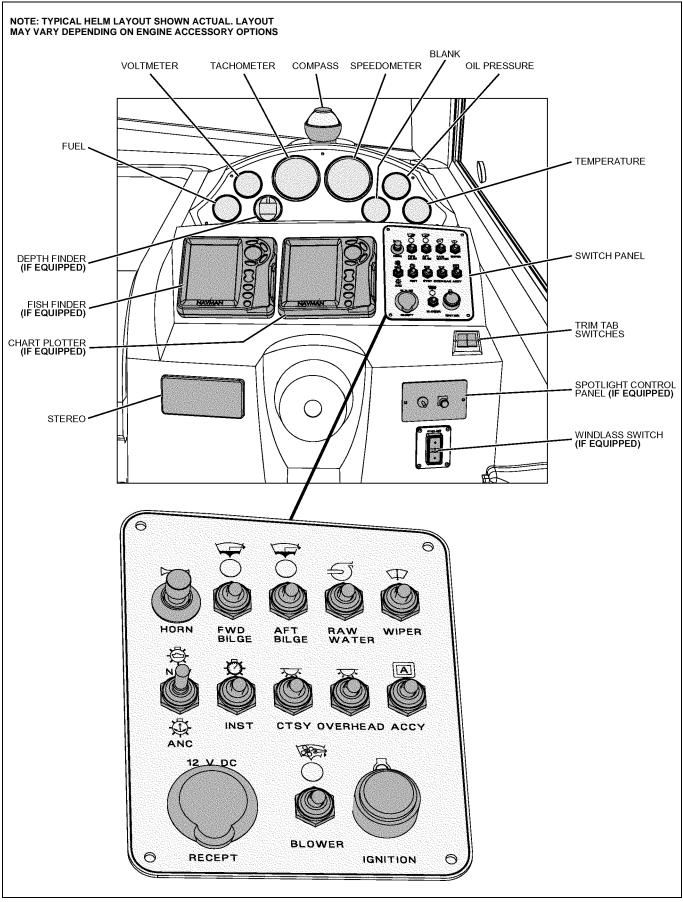
### Hull Views



### Deck Views



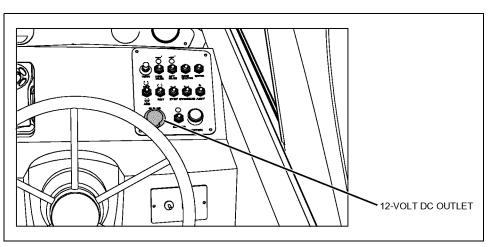
#### Helm



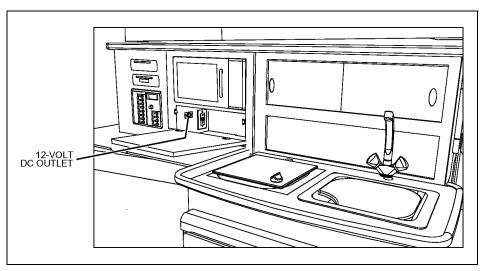
### **Component Locations**

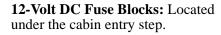
# 12-Volt DC Accessory Outlets (2 Total):

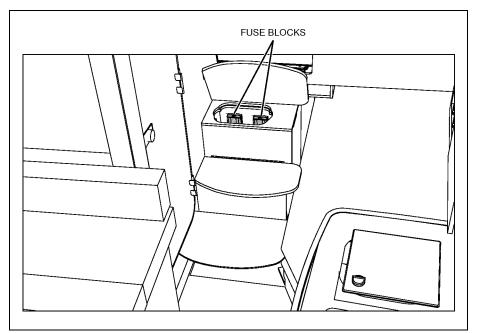
• One is located at the helm.



• One is located in the galley, below the microwave.



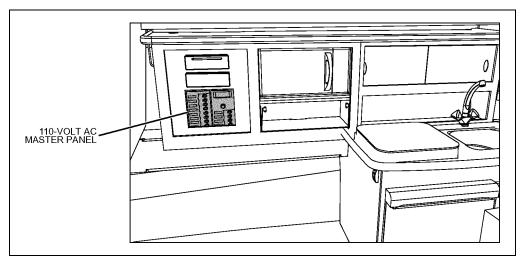






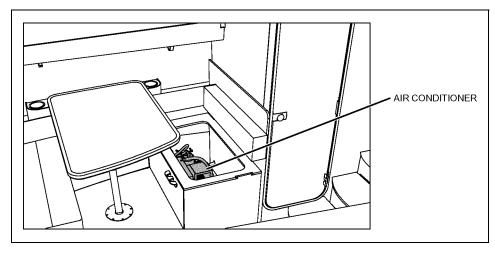


Located in the galley.

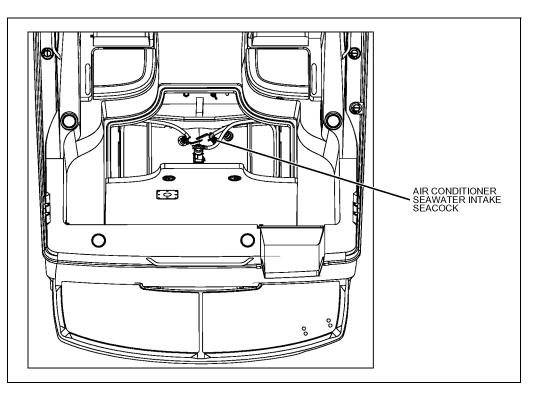


# Air Conditioner (If Equipped): Located under the aft dinette seat

cushion.

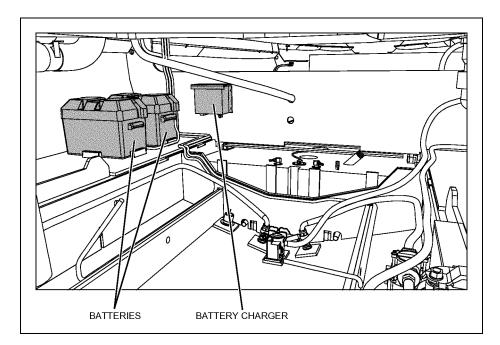


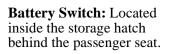
Air Conditioner Seawater Intake Seacock (If **Equipped):** Located in the engine compartment bilge.

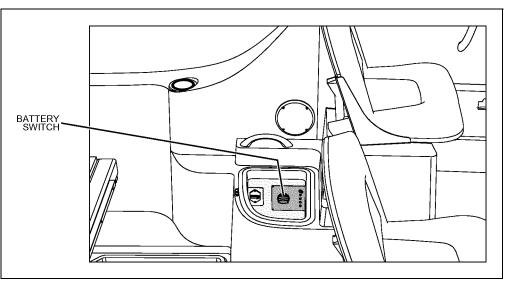


**Batteries:** Located in the port forward corner of the engine compartment.

**Battery Charger:** Located on the port side of the engine compartment, on the forward wall.

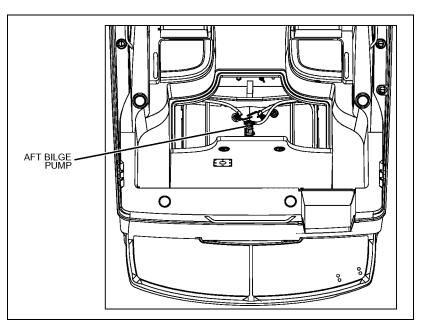




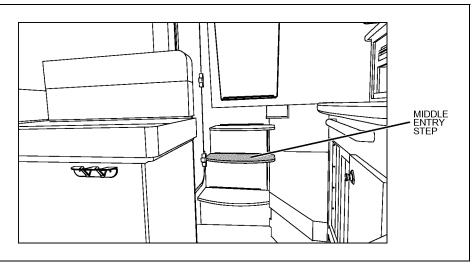


#### **Bilge Pumps (2 Total):**

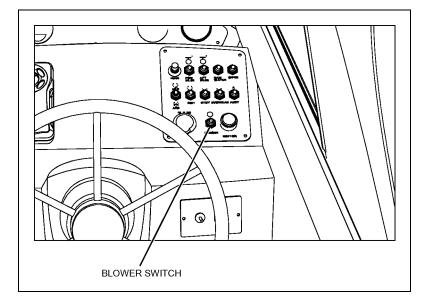
• The aft bilge pump is located in the engine compartment bilge.



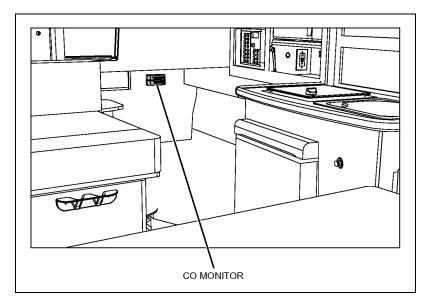
• The forward bilge pump is located under the middle cabin entry step.



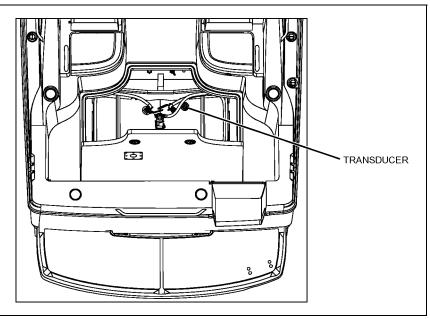
**Blower Switch:** Located on the helm switch panel.



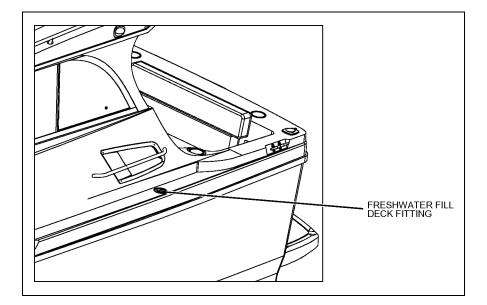
**CO Monitor:** Located on the aft wall of the quarter berth.



**Depth Finder Transducer:** Located in the engine compartment bilge.

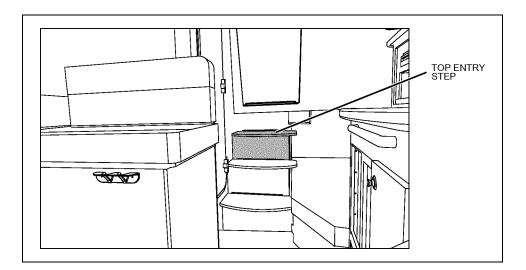


#### **Freshwater Fill Deck Fitting** (marked WATER): Located on the port deck trail.

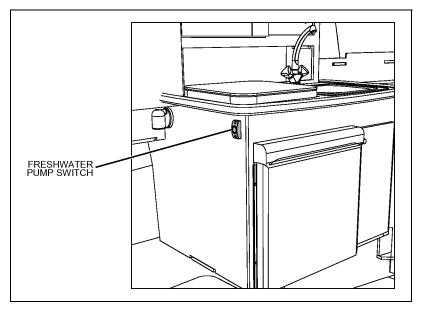




**Freshwater Pump:** Located under the top cabin entry step.

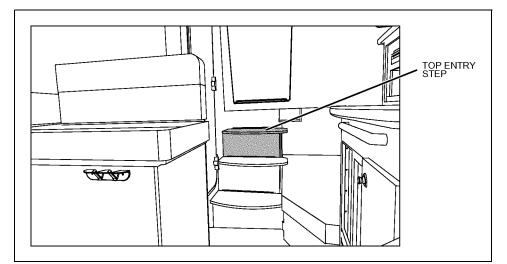


**Freshwater Pump Switch:** Located at the aft end of the galley.

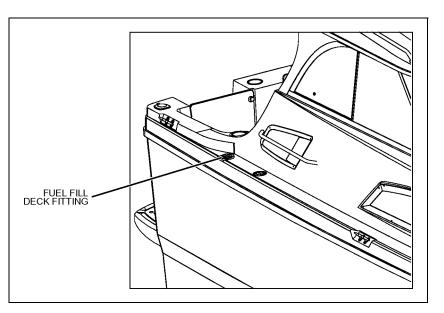


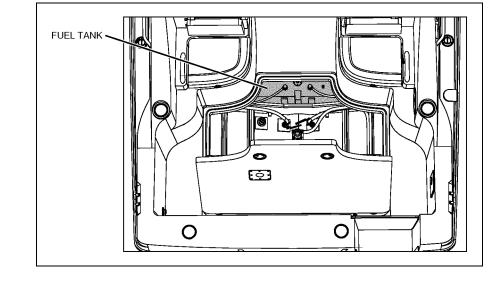
#### **Freshwater Tank:**

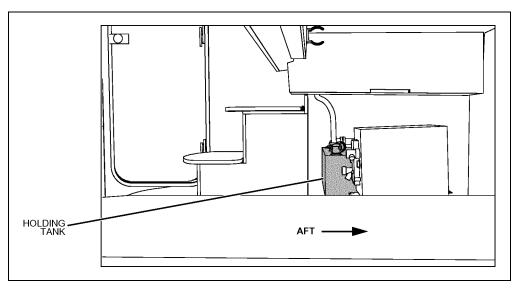
- Located under the quarter berth.
- Access through the top cabin entry step.



**Fuel Fill Deck Fitting (marked GAS):** Located at the aft end of the starboard deck trail.



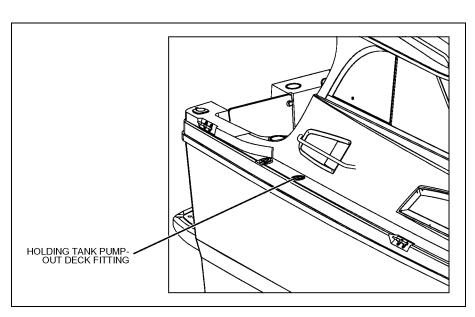


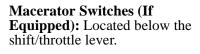


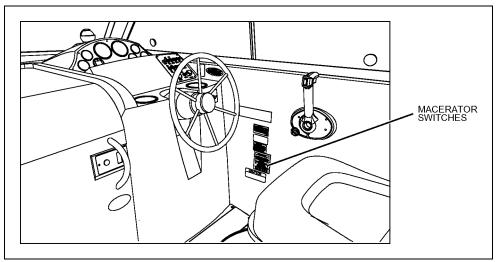
**Fuel Tank:** Located in the engine compartment.

### Holding Tank: Located through the starboard wall hatch in the quarter berth.

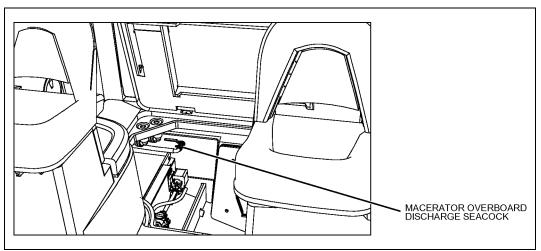
Holding Tank Pump-out Deck Fitting (marked WASTE): Located on the starboard deck trail.







#### Macerator Overboard Discharge Seacock (If Equipped): Located on the starboard side of the engine room, on the transom wall.



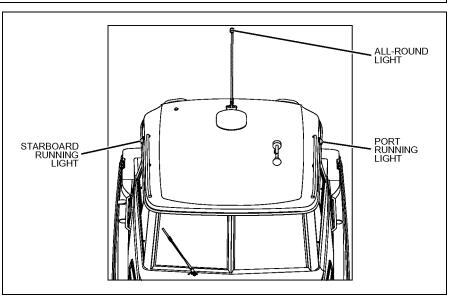


#### Marine Head (Electric) Seawater Intake Seacock: Located under the bottom cabin entry step.

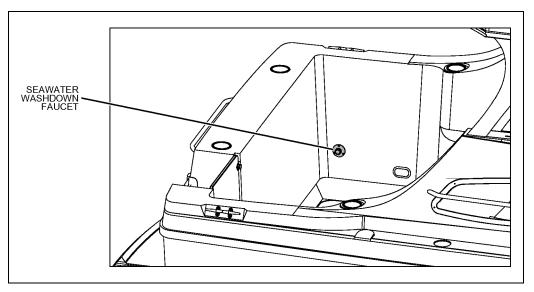


### **Navigation Lights:**

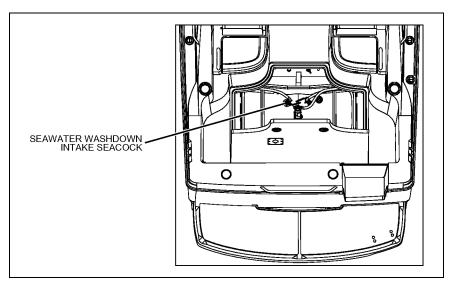
- Red and green lights on each side of the hardtop.
- White all-round light on top of the hardtop.



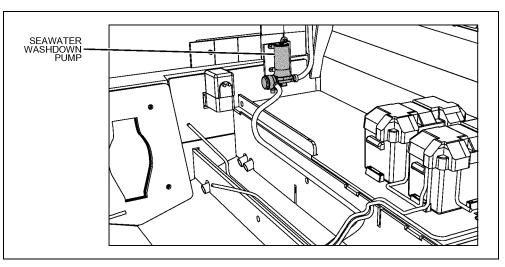
Seawater Washdown Faucet (If Equipped): Located on the port side of the aft cockpit.



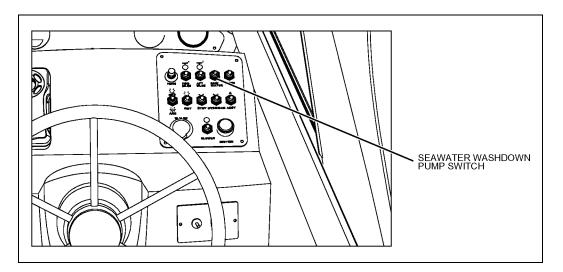
Seawater Washdown Intake Seacock (If Equipped): Located in the engine compartment bilge.



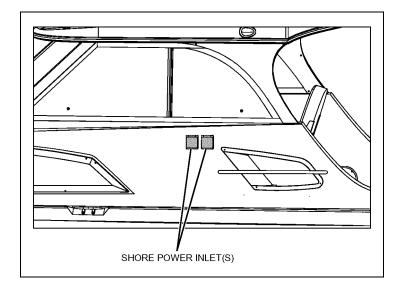
Seawater Washdown Pump (If Equipped): Located on the port side of the engine compartment, on the transom wall.

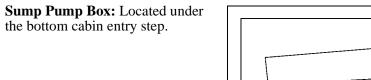


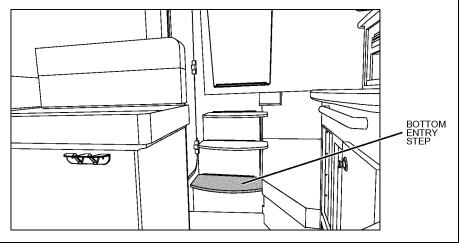
Seawater Washdown Pump Switch (If Equipped): Located on the helm switch panel.



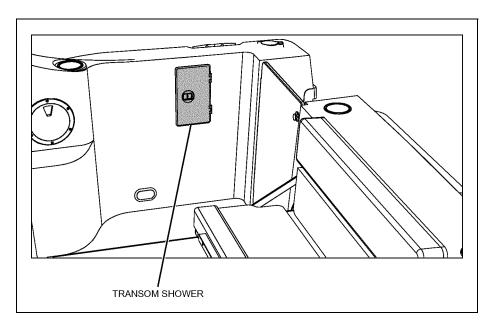
Shore Power Inlet(s): Located on the port side of the deck.





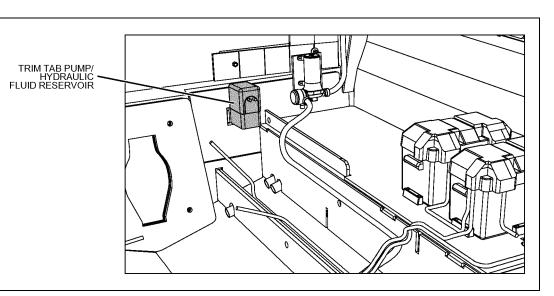


# **Transom Shower:** Located forward of the transom door.

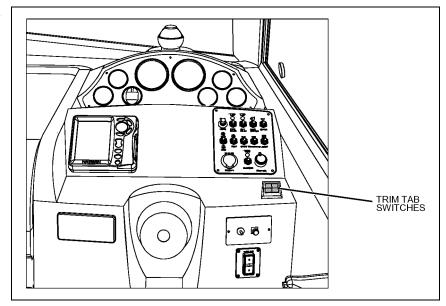




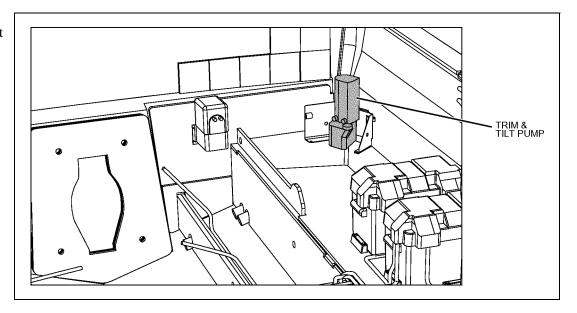
Trim Tab Pump/ Hydraulic Fluid Reservoir: Located on the port side of the engine compartment, on the transom wall.



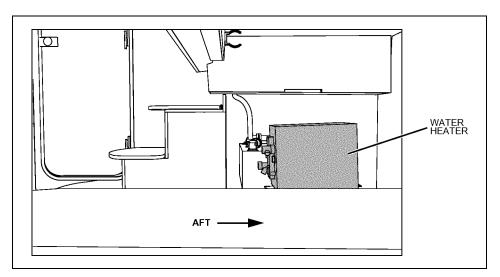
Trim Tab Switches: Located at the helm.



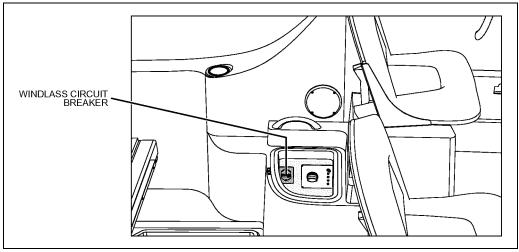
#### **Trim & Tilt Pump:** Located in the port aft corner of the engine compartment.



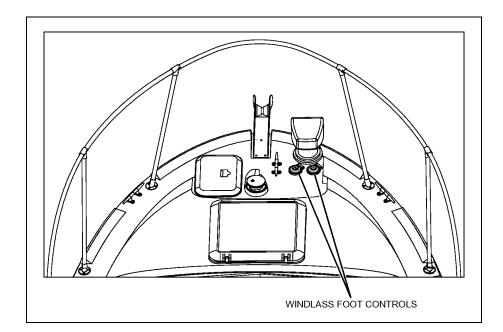
Water Heater: Located through the starboard wall hatch in the quarter berth.



#### Windlass Circuit Breaker (If Equipped): Located inside the storage hatch behind the passenger seat.



#### Windlass Foot Controls (If Equipped): Located on the forward deck.



# **Chapter 3: Propulsion & Related Systems**

### Engine

### NOTICE

Read the engine manual BEFORE starting or working on your engine.

 $\Lambda$ 

While the topics listed below may be included in this *Owner's\_Manual Supplement* and in the *Sport Boat Owner's Manual, always* refer to the engine manual first for specific information on these important subjects:

- Engine Break-in Procedure
- Starting the Engine
- Gear Shifting

- Stopping the Engine
- Fuel and Oil Recommendations
- Engine Storage/Winterization

### **Bilge Blower System**

WARNING!

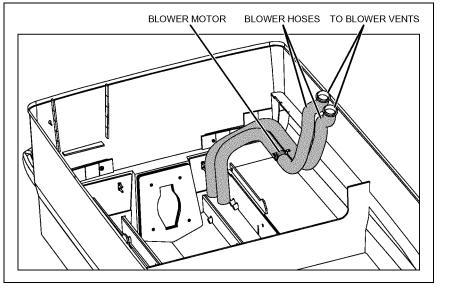
FIRE and EXPLOSION HAZARD!

**Fuel vapors can explode!** *BEFORE* starting the engine:

- 1. Check the bilge areas for fuel vapors or leaking fuel. If you see leaking fuel or smell fuel vapors:
  - a. Do *NOT* start the engine, do *NOT* turn *On* any electrical devices, extinguish *ALL* cigarettes, cigars, and other sources of flame or ignition.
  - b. Get everyone off your boat.
  - c. Get trained help to find and fix the problem.
- 2. Run the bilge blower for at least four minutes *BEFORE* engine starting, electrical system maintenance, or activation of electrical devices.
- If you smell fuel vapors and the engine is already running;
  - a. Shut *Off* the engine and turn *Off ALL* electrical devices.
  - b. Extinguish ALL cigarettes, cigars, and other sources of flame or ignition.
  - c. Get trained help to find and fix the problem.
- *NEVER* obstruct or change the bilge blower system.
- The bilge blower system removes explosive fumes from the engine and bilge areas.
- Fresh air is drawn into the engine and bilge areas through the vents.

# To make sure the engine and bilge areas are properly ventilated:

- Use the "sniff test" to check the engine and bilge areas for fuel vapors *before* starting the engine.
- *Always* run the bilge blower for at least four minutes *before* starting the engine.
- Continue to run the blower until your boat has reached cruising speed.
- *Always* run the blower when running your boat below cruising speed.



### **Fuel System**

# WARNING!

### FIRE, EXPLOSION, and OPEN FLAME HAZARD!

- It is very important that the fuel system be inspected thoroughly the first time it is filled and at each subsequent filling.
- The fueling instructions in the *Cruiser & Yacht Owner's Manual* and the fuel recommendations in the engine operation manual *MUST* be followed.

#### 

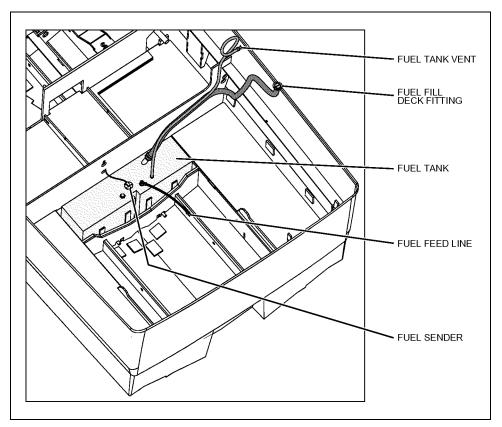
Avoid the storage or handling of gear near the fuel lines, fittings and tank.

### NOTICE

Carefully read the fuel section of both the *Cruiser & Yacht Owner's Manual* and the engine operation manual, paying special attention to the subject of *fuel recommendations*.

### Fuel Fill & Vent

- The fuel fill deck fitting is marked GAS.
- If you have problems filling the fuel tank, see if the fuel fill hose or fuel tank vent hose is kinked or collapsed.
- If there are no visible signs of a problem, contact your local dealer.



### Fuel Filters

- The fuel pickup tube, located inside the fuel tank, is equipped with a fine mesh screen filter.
- Also, when supplied by the engine manufacturer, a fuel filter is installed on the engine.
- Periodically replace the fuel filters to make sure they remain clean and free of debris.
- Talk to your selling dealer or local marina about fuel additives that help prevent fungus or other buildup in your fuel tank.

#### Anti-siphon Valve

### NOTICE

- If an engine running problem is diagnosed as fuel starvation, check the anti-siphon valve.
- If the valve is stuck or clogged, ONLY change or replace it while the engine is Off.
- NEVER run the engine with the anti-siphon valve removed, except in an emergency.
- The anti-siphon valve is a vital fuel system part.
- If the fuel line ruptures, this valve prevents the siphoning of fuel from the tank.
- The valve is located on the fuel tank, where the fuel feed line attaches to the tank.
- The valve is spring loaded and is opened by fuel pump vacuum.

### Quick Oil Drain System

The quick oil drain hose assembly was attached to the engine oil pan at the factory. However, some minor assembly is still needed *before* you can use this system.

**NOTE:** This is not the only method for changing your oil. Your selling dealer can recommend other methods.

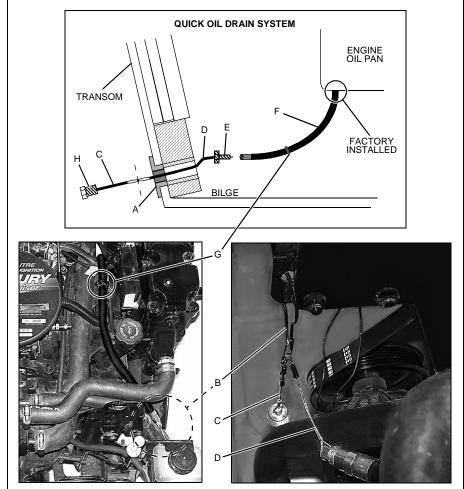
#### How to install the quick oil drain system:

- Unscrew the factory installed bilge plug from the bilge drain (A). NOTE: Keep the original factory bilge plug on your boat as a spare.
- 2. Unclip the quick oil drain assembly from the wire loop (B) on the engine.
- Unclip the bilge plug's draw cord (C) from the oil drain plug's draw cord (D).
- Thread the oil drain plug's draw cord (D) through the bilge drain (A).
- 5. Pull the oil drain plug (E), and the oil drain hose (F) through the bilge drain.
- 6. Adjust the hose stop clamp (G) so that no more than 12 inches of hose, including the oil drain plug, can extend out of the bilge drain (A).
- Clip the bilge plug's draw cord (C) back to the oil drain plug's draw cord (D).
- 8. Push the oil drain hose, oil drain plug, and both draw cords through the bilge drain and into the bilge area.
- 9. Screw the bilge plug (H) into the bilge drain (A) and tighten firmly.

#### To drain the engine oil:

- 1. Remove your boat from the water.
- 2. Unscrew the bilge plug.
- 3. Pull the draw cord until the oil drain plug and the oil drain hose slide out of the bilge drain.
- 4. Place the end of the oil drain hose into a suitable container.
- 5. Unscrew the oil drain plug and drain the engine oil.
- 6. Replace the oil drain plug.
- 7. Push the drain hose back into the bilge.
- 8. Replace the bilge plug and tighten firmly.

Always dispose of waste oil in accordance with local regulations.





## **Chapter 4: Controls & Gauges**

### Steering

- Your boat features a power-assisted rack-and-pinion steering system.
- For information about the power-assist fluid reservoir, refer to the engine operation and maintenance manual.
- Boat steering is *not* self-centering.
- Refer to the engine manual for more steering system details.

## Shift/Throttle Controls



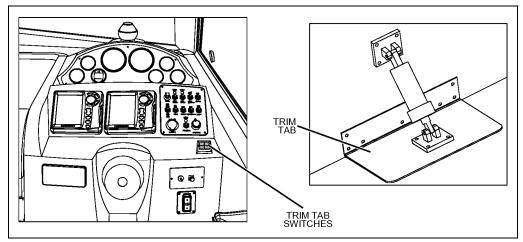
Read *all* of the information about the shift/throttle controls in the shift/throttle manual, the engine operation manual, and the *Cruiser & Yacht Owner's Manual*.

### **Power Trim & Tilt**

- The stern drive on your boat is equipped with power trim and tilt.
- Trim and tilt instructions are provided in the engine operation manual and the shift/throttle manual.

### Trim Tabs

- *Before* using the trim tabs, read the trim tabs' owner's manual.
- The trim tabs are controlled by two rocker switches at the helm.
- Check and refill the trim tab hydraulic fluid reservoir as directed in the trim tabs' owner's manual. For the location of the fluid reservoir, see the *Component Locations* section in *Chapter* 2 of this *supplement*.



### Gauges

#### Cleaning the Gauges

#### 

#### **PRODUCT or PROPERTY DAMAGE HAZARD!**

- Use only mild soap and water to clean the gauge lenses and bezels.
- Use of other cleaners, including common window cleaning solutions, may cause the lenses to crack.
- Lenses cracked in this manner will NOT be covered by our warranty.

### Gauge Fogging

- Moisture may occasionally find its way into the gauges causing lens fogging.
- Turning *On* the gauge lights will help dry the lenses.
- Fogging will not harm the gauges.

#### Radio Transmission Interference

VHF or other radio transmissions may cause brief erratic readings on the tachometer. This will not damage the tachometer gauge or affect its accuracy when not transmitting.

### Fuel Gauge

It is normal for the pointer on your fuel gauge to bounce as fuel sloshes back and forth in the fuel tank.



### **Chapter 5: Navigation & Communication Equipment**

Read the manuals for *all* navigation & communication equipment *before* using these systems.

### Compass

## NOTICE

- Compass accuracy can be affected by many factors.
- Have a trained technician calibrate your compass.
- Make sure the technician gives you a deviation card which shows the corrections to apply in navigational calculations.
- Keep a copy of the deviation card at the helm.

### **Depth Finder (If Equipped)**

## 🔥 WARNING!

- Do *NOT* use the depth finder as a navigational aid to prevent collision, grounding, boat damage or personal injury.
- When your boat is moving, submerged objects will *NOT* be seen until they are already under your boat.
- Bottom depths may change too quickly to allow time for your boat to react.
- If you suspect shallow water or submerged objects, run your boat at very slow speeds.

### VHF Radio (If Equipped)

- Your boat may include a VHF (Very High Frequency) radio.
- As permitted by the FCC (Federal Communications Commission), the VHF radio can be used to access weather reports, summon assistance, or contact other vessels.
- Contact the FCC for licensing, rules and regulations concerning VHF radio usage.

### Radar (If Equipped)

## WARNING!

- Radar is meant to help the navigator, NOT replace him/her.
- The operator is responsible for keeping a visual look-out for possible collision situations.
- No single navigation aid (including this radar) should be relied upon as the *ONLY* method for navigating your boat.

## NOTICE

The radar system is ONLY an aid to navigation. It's accuracy can be affected by:

- Equipment failure or defects
- Environmental conditions
- Improper handling or use
- The marine radar system gives you a complete and accurate 360° radar view of other vessels, buoys, and landfall surrounding your vessel.
- To turn this system **On**, the RADAR switch on the 12-volt DC breaker panel **must** be switched **On**.

### Global Positioning System (GPS) (If Equipped)

## WARNING!

- The GPS system should NOT be relied upon as the ONLY aid to navigation.
- An experienced operator *MUST* monitor the GPS system at *ALL* times and keep a look-out for other marine traffic and possible collision situations.

### NOTICE

The GPS system is ONLY an aid to navigation. It's accuracy can be affected by:

- Equipment failure or defects
- Environmental conditions
- Improper handling or use

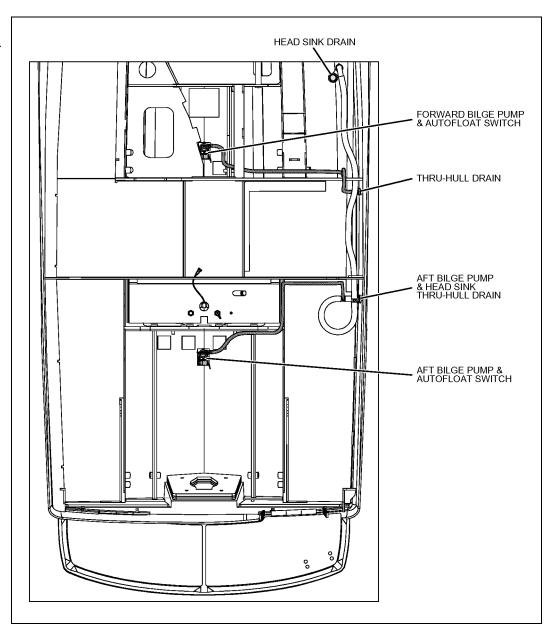
# **Chapter 6: Plumbing**

## **Bilge Pumps**

### NOTICE

Discharge of oil, oil waste, or fuel into navigable waters is prohibited by law. Violators are subject to legal action by the local authorities.

- Your boat has two bilge pumps for pumping water out of the bilge.
- The autofloat switches, mounted next to the bilge pumps, will turn **On** the bilge pumps if bilge water rises above a preset level.
- You can also turn *On* the bilge pumps using the switches at the helm.
- The bilge pumps are wired directly to the battery. Unless the battery is dead, the bilge pump system should work even when your boat is unattended.

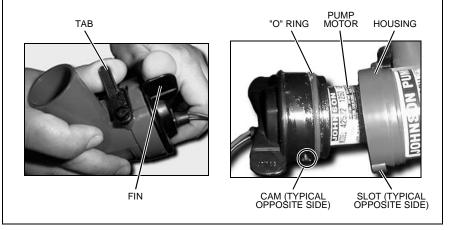


### Bilge Pump Testing

- The bilge pumps are vital to the safety of your boat.
- Test the bilge pumps often.
- 1. One at a time, turn **On** each bilge pump switch at the helm.
- 2. Make sure that water in the bilge is pumped overboard.
- If there is water in the bilge and the pump motor is running but *not* pumping, inspect the discharge hose for a kink or collapsed area.
- If the discharge hose looks okay, check the bilge pump housing for clogging debris (see below).

### Checking for clogging debris:

- 1. Remove the pump motor from the housing:
  - a. Lift the tab while rotating the fins counter-clockwise.
  - b. Lift out the pump motor.
  - c. Clear the housing of debris.
- 2. Reinstall the pump motor:
  - a. Make sure the "O" ring is properly seated.
  - b. Coat the "O" ring with a light film of vegetable or mineral oil.
  - c. Align the cams on either side of the pump motor with the slots on the housing.



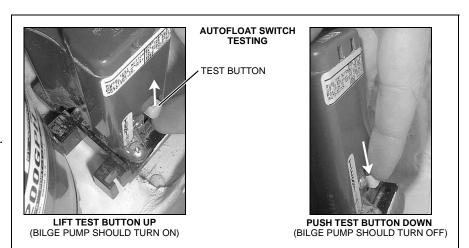
- d. Press the pump motor into the housing while twisting clockwise.
- 3. Check the reinstallation by trying to twist the fins counter-clockwise *without* lifting the tab; the pump motor should stay in place.

### Autofloat Switches

- The autofloat switches turn the bilge pumps *On* when water rises above a preset level.
- Test each autofloat switch often.

#### Autofloat switch testing:

- 1. Lift the autofloat switch test button to turn *On* the bilge pump.
- If the pump does not turn *On*, check the fuse on the fuse block.
- If the fuse is good, but the switch still does not work, it may mean the switch is bad, or the battery is dead.
- 2. After testing, push the test button all the way *down* to reset auto mode.



# **CAUTION**

When the test is completed on each float switch, you *MUST* push the test button *ALL THE WAY DOWN* to reset auto mode!

### Seawater Systems

#### Seacocks

## WARNING!

#### FLOODING and SWAMPING HAZARD!

- *Close* the seacock(s) when leaving your boat unattended for any length of time.
- If a seacock is left open, a hose failure could flood the bilge, swamp the batteries and the engine, and even sink your boat.

## 

#### SYSTEM DAMAGE HAZARD!

- BEFORE using any system that has a seacock, make sure that the system's seacock is Open.
- Inspect and lubricate all seacocks annually.

Thru-hull inlet or outlet fittings near or below the waterline feature seacock valves. You can close a seacock to stop water entry:

- If the hose connected to the seacock fails, or;
- To work on equipment served by the seacock.

Seacocks are used on your boat in seawater intake or liquid-discharge systems including, but not limited to:

- Air conditioner (if equipped)
- Marine head (toilet)

Before using any system with a seacock, make sure the seacock is Open and stays Open until the system is shut Off.

#### Seawater Strainers

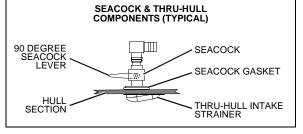
#### 

#### FLOODING HAZARD!

- *BEFORE* taking apart a seawater strainer for cleaning or other maintenance, *Close* the seacock that sends seawater to that strainer.
- Failure to close the seacock before taking apart the seawater strainer may allow large amounts of water to flood the bilge, which could swamp the batteries and the engines, and even sink your boat.
- Keep the seacock *Closed* until the seawater strainer is completely reassembled.

#### SYSTEM DAMAGE HAZARD!

- After putting the seawater strainer back together, make sure that the seacock valve is *Open BEFORE* using the component/system.
- Seawater strainers are used to filter incoming seawater in *some* seawater intake systems. NOTE: Not all seawater intake systems have seawater strainers.
- If equipped, the seawater strainer is located near the seawater intake system's seacock.
- Check the strainers for leaks and/or debris *every time* you use your boat.
- Refer to the seawater strainer instruction sheet for cleaning and maintenance information.



### Seawater Washdown (If Equipped)

## WARNING!

#### FLOODING and SWAMPING HAZARD!

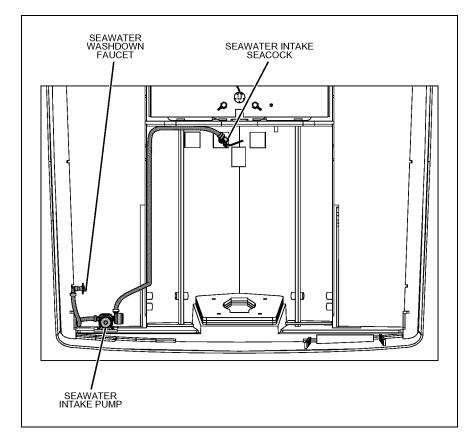
- NEVER leave your boat unattended while using the seawater washdown system.
- Any leak or break in this system may allow large amounts of water to flood the bilge, which could swamp the batteries and the engine, and even sink your boat.
- *Close* the intake seacock when leaving your boat unattended for any length of time.

# **CAUTION**

### SYSTEM DAMAGE HAZARD!

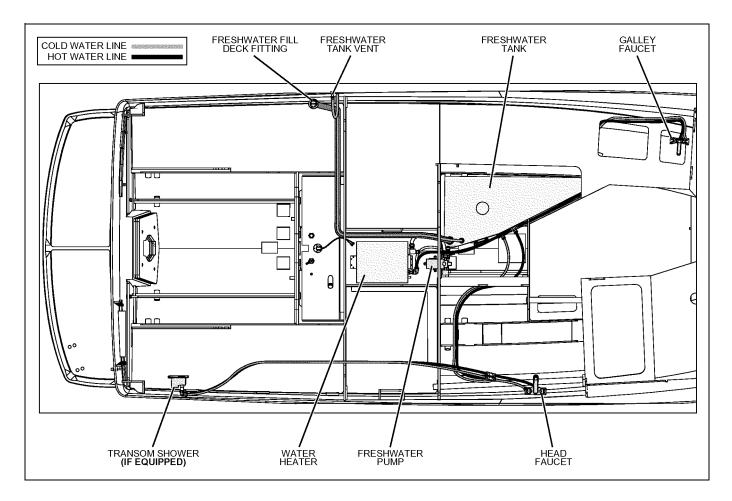
BEFORE turning On the seawater washdown system, make sure the intake seacock is Open.

- Pressurize the seawater washdown system by turning *On* the seawater intake pump switch (the battery switch must also be *On*).
- For the location of the seawater washdown pump switch, see the *Component Locations* section in *Chapter 2* of this *supplement*.
- Turn *Off* the seawater washdown pump switch when you are done using the system.



### **Freshwater System**

- A WARNING!
- ONLY use safe drinking (potable) water in your boat's freshwater system.
- ONLY use FDA approved "drinking water safe" hoses when filling the freshwater tank.
- NEVER use common garden hoses for drinking water.



- Read the Freshwater System section in the Cruiser & Yacht Owner's Manual.
- The freshwater fill deck fitting is marked WATER.
- Pressurize the freshwater system by turning *On* the freshwater pump switch (the battery switch must also be *On*).
- For the location of the freshwater pump switch, see the *Component Locations* section in *Chapter 2* of this *supplement*.
- Turn Off the freshwater pump switch when your boat is not in use or when the freshwater tank is empty.
- Inspect and clean the freshwater filter often (the filter is located on the freshwater pump).
- If your boat is to be left unattended for a long period of time, pump the freshwater tank dry to prevent stored water from becoming stagnant and distasteful.
- If the freshwater system needs to be disinfected, ask your dealer about treatments available for your boat's system.

### Transom Shower (If Equipped)

- Read the manufacturer's instructions *before* using the transom shower for the first time.
- The freshwater pump switch *must* be turned *On before* using the transom shower.

### Freshwater System Winterization

- 1. Turn *Off* the water heater breaker switch. **NOTE:** *Tag* or *Mark* the water heater breaker switch to prevent it from being turned *On* while the water heater tank is empty.
- 2. Turn **On** the freshwater pump switch.
- 3. Open all of the faucets and showers and let the freshwater system drain completely.
- 4. Turn *Off* the freshwater pump switch.

*All* of the remaining water *must* be removed from the water lines. There are two ways to remove the remaining water from the lines:

- Compressed Air
- Gravity Draining

### Compressed Air

## 

#### FRESHWATER SYSTEM DAMAGE HAZARD!

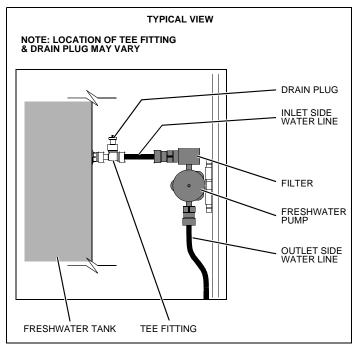
- A faucet *MUST* be *Open* when compressed air is blown through the freshwater system.
- *NEVER* blow compressed air through the water system when *ALL* of the faucets are *Closed*.

You *must* have an air compressor with an air hose and an air nozzle.

- 1. Remove the water line from the outlet side of the freshwater pump (opposite side from filter).
- 2. *Open* the faucet that is furthest away from the freshwater pump.
- 3. Place the air nozzle against the end of the just removed water line and blow air through the system.
- 4. When water stops coming out of the faucet, stop the air and *Close* the faucet.
- 5. One at a time, repeat this process on *all* faucets and showers.

### **Gravity Draining**

- 1. Open all faucets and showers.
- 2. Remove the drain plug from the tee fitting on the freshwater tank.
- 3. When the water has stopped draining from the freshwater tank and the water lines, replace the drain plug.



#### Water Heater

## 🔥 WARNING!

#### SCALDING HAZARD!

Water heated by the water heater can be hot enough to scald the skin.

## CAUTION

#### WATER HEATER DAMAGE HAZARD!

- Do *NOT* turn *On* the water heater circuit breaker on the 110-volt AC master panel until the water heater tank is *COMPLETELY* filled with water.
- The tank is full if water flows from the tap when the hot water is turned *On* in the galley.
- Even brief water heater operation with a dry tank WILL damage the heating elements.
- Warranty replacements will *NOT* be made on elements damaged in this manner.
- Drain the water heater and turn the power *Off* when the chance of freezing exists (see the winterizing instructions below).

### NOTICE

If 110-volt AC power is being provided by shore power, but the water heater is not working:

- Make sure the water heater circuit breaker on the 110-volt AC master panel is switched On.
- If the circuit breaker is *On*, but the water heater is still not working, ask your dealer how to check the push-to-reset circuit breaker located on the water heater.
- Read the water heater instruction manual and heed the warnings above.
- The water heater is connected to the 110-volt AC power system.
- To heat the water, turn **On** the water heater circuit breaker on the 110-volt AC master panel.

### Winterizing the Water Heater

# **CAUTION**

#### WATER HEATER DAMAGE HAZARD!

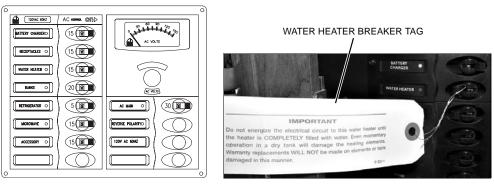
- *NEVER* turn *On* the water heater breaker on the 110-volt AC master panel while the water heater tank is empty.
- Even brief water heater operation with a dry tank WILL damage the heating elements.
- Warranty replacements will *NOT* be made on elements damaged in this manner.
- To prevent damage to the water heater after winterizing, always label the breaker switch on the 110-volt AC master panel as 'winterized'.

## NOTICE

The freshwater system *MUST* be drained *BEFORE* winterizing the water heater (see the *Freshwater System Winterization Instructions* on the previous page).

- 1. Turn *Off* the water heater breaker.
- 2. Disconnect the hose (A) attached to the pressure relief valve (B).
- 3. If there is any water in this hose, drain it into the bilge or into a bucket.
- 4. *Open* the pressure relief valve (B).
- 5. *Open* the drain valve (C).
- 6. Attach a tag to the water heater breaker to indicate that the tank is empty.
- NOTE: Your boat came with a tag attached to the water heater breaker. It is suggested that you keep this tag and re-use it when winterizing.
- Leave the pressure relief and drain valves *Open* until you fit out your boat after storage.







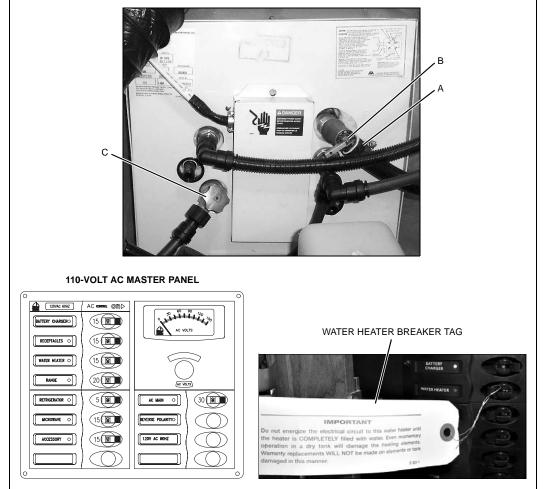
#### Preparing the Water Heater for Use After Boat Storage



- *NEVER* turn *On* the water heater breaker on the 110-volt AC master panel while the water heater tank is empty.
- To test if the tank is full, turn *On* a hot water faucet. If water flows from the tap, the water heater tank is full.
- Even brief water heater operation with a dry tank WILL damage the heating elements.
- Warranty replacements will *NOT* be made on elements damaged in this manner.

When you are ready to resume use of your boat after it has been in storage, prepare the water heater for use as follows:

- 1. *Close* the drain valve (C).
- 2. *Close* the pressure relief valve (B).
- 3. Connect the hose (A) to the pressure relief valve (B).
- 4. Fill the water heater tank with freshwater.
- 5. Remove the 'winterized' tag on the water heater breaker on the 110-volt AC master panel *after* the water heater tank is *completely* filled with freshwater.
- 6. Turn *On* the water heater breaker.



### **Drain Systems**

#### Deck Drains

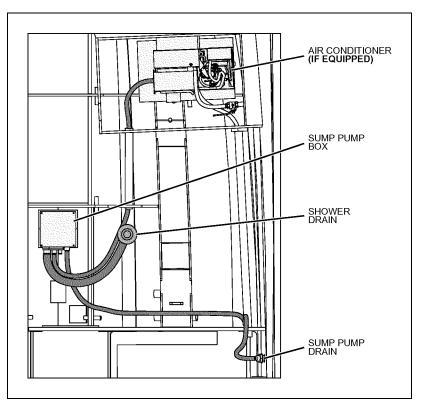
- Water on the deck is drained overboard through the deck drains.
- Keep the deck drains free of debris.

### Gray Water Gravity Sink Drains

The head sink and galley sink are above the waterline and are gravity drained overboard.

#### Sump Pump System

- The shower and air conditioner, if equipped, drain into the sump pump box.
- The sump pump box has an autofloat switch.
- When the drain water rises to a preset level, the autofloat switch turns **On** the sump pump, and the drain water is pumped overboard.



### Sump Box Cleaning

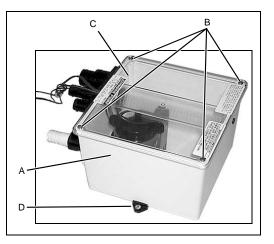
Periodically clean the sump box (A), filter, and pump as follows:

- 1. Remove the cover screws (B) and the cover (C).
- 2. Remove any debris from the box and the filter.
- 3. Clean the sump pump as outlined in the *Bilge Pump* section of this *chapter*.

### Sump System Winterization

Drain the sump pump system in the months when *not* in use.

- 1. Disconnect and drain *all* lines to the unit.
- 2. Remove the screws from the mounting feet (D) and drain the system.
- 3. Reinstall the screws in the mounting feet and reconnect the system.





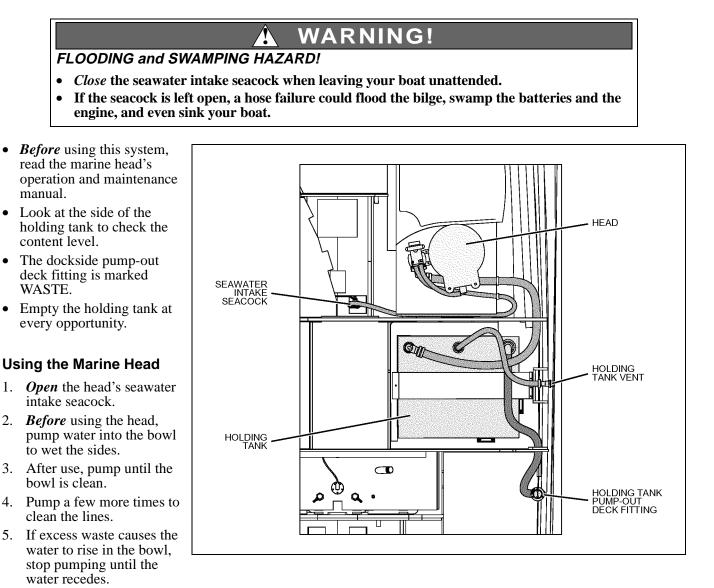
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### Marine Head & Holding Tank

## NOTICE

Check with local authorities about the legal use of marine head systems.

#### Manual Flush Head (If Equipped)



• *Close* the intake seacock when the system will not be used for long periods of time.

#### Winterizing the System

Read the marine head's operation and maintenance manual for winterizing instructions.

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holding tank.

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### Electric Flush Head (If Equipped)

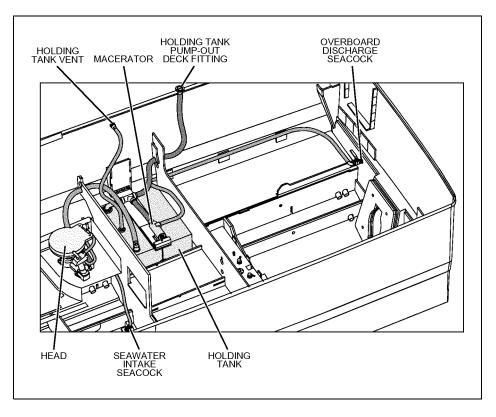
#### WARNING! FLOODING and SWAMPING HAZARD! *Close* the seawater intake seacock when leaving your boat unattended for any length of time. If the seacock is left open, a hose failure could flood the bilge, swamp the batteries and the engine, and even sink your boat. Read the marine head operation and maintenance manual *before* using the marine HEAD head for the first time. The electric flush marine head uses seawater to flush waste from the toilet into the SEAWATER INTAKE SEACOCK The seawater intake valve (seacock) *must* be *Open* for ٦T the head to work. Check the content level of QI the holding tank often by HOLDING TANK VENT looking at the side of tank. Empty the holding tank at every opportunity. The holding tank is plumbed HOLDING TANK to a fitting on the deck for dockside pump-out. Keep the intake seacock *Closed* while your boat is underway or when the sys-HOLDING TANK PUMP-OUT DECK FITTING tem will not be used for long periods of time. Winterizing the System

Read the marine head operation and maintenance manual for winterizing instructions.

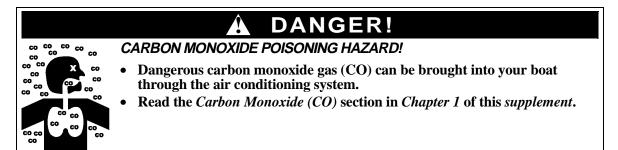
### Macerator (If Equipped)

To use the macerator to pump waste directly overboard (where regulations permit):

- 1. *Open* the overboard discharge seacock.
- 2. Press both macerator switches at the same time to run the pump.
- 3. Stop running the macerator as soon as the holding tank is empty.
- 4. *Close* the overboard discharge seacock when you are done pumping.



## Air Conditioner (If Equipped)



## WARNING!

### FLOODING and SWAMPING HAZARD!

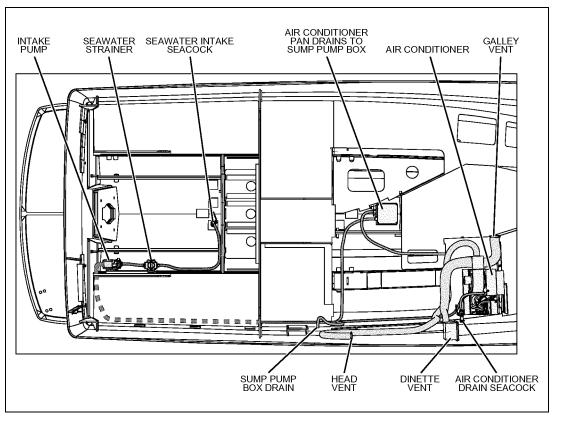
- Close the seacock(s) when leaving your boat unattended for any length of time.
- If a seacock is left open, a hose failure could flood the bilge, swamp the batteries and the engine, and even sink your boat.

## A CAUTION

### SYSTEM DAMAGE HAZARD!

The air conditioning system's seawater intake and drain seacocks *MUST* be *Opened BEFORE* turning *On* the air conditioner and they *MUST* stay *Open* during use.

- Read the air conditioner manual *before* using the air conditioning system.
- *Before* using the air conditioning system, make sure the breakers on the 110-volt AC master panel are turned *On* and that the system's seawater intake and drain seacocks are *Open*.
- The seacocks *must* remain *Open* while the air conditioner is in use.
- Check the seawater strainer for debris *before* each use of the air conditioning system. If the strainer needs to be cleaned out, follow the directions in the *Seawater*



Systems section in Chapter 6 of this Supplement.



## **Chapter 7: Deck Equipment**

### Cleats & Bow/Stern Eyes

## WARNING!

**PERSONAL INJURY and/or PRODUCT or PROPERTY DAMAGE HAZARD!** *NEVER* lift your boat using the bow/stern eyes or the cleats.

Read the section on towing in the Cruiser & Yacht Owner's Manual before:

- Towing anything behind your boat.
- Being towed by another vessel.

### Windlass (If Equipped)

## DANGER!

#### PERSONAL SAFETY & PRODUCT DAMAGE HAZARD!

An unsecured anchor could accidently deploy while your boat is moving, damaging your boat and causing serious injury or death.

After retrieving the anchor:

• Secure the anchor with an anchor safety strap, or a chain stopper.

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• Switch OFF the windlass circuit breaker to prevent accidental operation.

# CAUTION

### PRODUCT DAMAGE HAZARD!

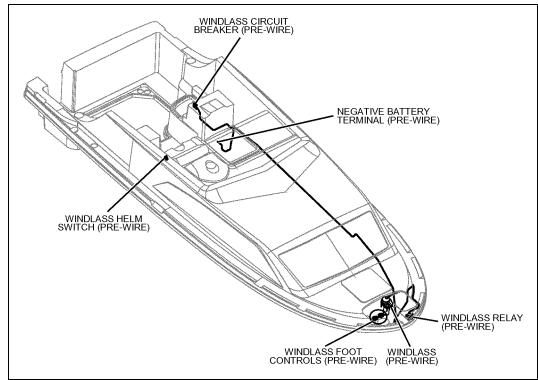
Do *NOT* rely on the windlass alone to hold your boat at anchor. After setting the anchor, tie the rode off to a cleat or equivalent strong point.

Do *NOT* pull your boat to the anchor using the windlass, or continue running the windlass if it has stalled or is overloaded.

- Read and follow the manufacturer's instruction manual *before* using the anchor windlass for the first time.
- The windlass can be controlled from a switch at the helm or from the deck foot switches.
- Make sure that the windlass circuit breaker is turned *On before* using the anchor windlass.
- To raise the anchor, use engine power (*not* the windlass) to move your boat to, and directly above, the anchor.
- Dislodge the anchor from the bottom by pulling it straight up with the windlass.
- Before getting underway, make sure the anchor is secured and the windlass circuit breaker is turned Off.

### Windlass Pre-wiring (If Equipped)

- The hull is pre-wired to support the installation of a windlass.
- Contact your selling dealer for help with choosing and installing a windlass.



### Canvas & Vinyl Tops & Enclosures (If Equipped)

### CAUTION

### **PRODUCT or PROPERTY DAMAGE HAZARD!**

Take down and securely stow ALL canvas & vinyl BEFORE your boat is transported by road.

## NOTICE

*BEFORE* cleaning and/or stowing your canvas or vinyl, read the sections later in this chapter, *Canvas Care* and *Vinyl Care*.

## NOTICE

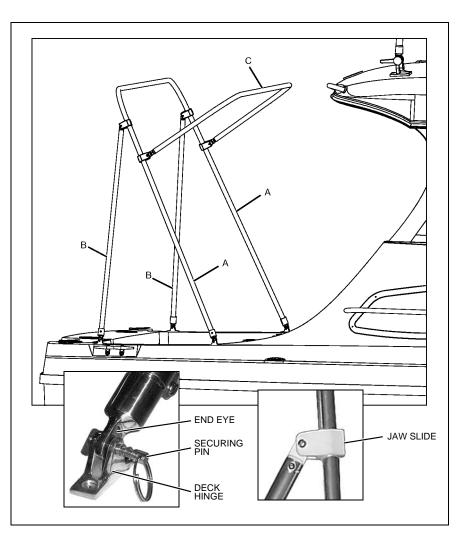
Two people are needed for most of the tasks listed in this section.

# NOTICE

Some canvas and vinyl options may not be described. Make sure your dealer explains how to install all canvas and vinyl.

### Camper Top

- 1. Insert the end eyes of the main bow (A) into the forward deck hinges and secure them with the pins.
- Insert the end eyes of the aft braces (B) into the aft deck hinges and secure them with the pins.
- 3. Unfold the camper top and pull the secondary bow (C) and the canvas forward.
- 4. Snap the snaps on the camper top to the snap studs on the hardtop.
- The jaw slides should not need to be adjusted.
- If you decide to adjust the jaw slide positions, get the correct measurements from your selling dealer.



### Vinyl Curtains

#### Side Curtains

- Zip four to six inches of the forward side curtain (A) to the center side curtain (B), then zip four to six inches of the center side curtain to the aft side curtain (C).
- 2. Zip four to six inches of the side curtains to the camper top (D).
- 3. At point (E), insert the aft curtain stud to the camper top's socket.
- 4. Snap the top two forward side curtain snaps to the matching snaps inside the hardtop.
- 5. Snap the side curtain snaps to the deck snaps.
- 6. Finish zipping all zippers.
- 7. Repeat steps one through six on the other side.

### Aft Curtain

- 1. Partially zip the aft curtain zippers to the bimini top, and the aft side curtains.
- 2. Start with the center aft curtain snaps and work your way to each side snapping the aft curtain to the deck.
- 3. Finish zipping all zippers.



#### Canvas Care (see also 'Clear Vinyl Care' on next page)

- After each use, especially in saltwater, rinse the canvas with cold freshwater.
- *Before* stowing, let the canvas air-dry completely.
- The canvas can be rolled or folded for stowage.

#### **Cleaning the Canvas**

### Î CAUTION

*NEVER* use detergents when washing the canvas. Detergents can destroy the water repellency, and mildew/UV resistant finish of your canvas.

Regularly clean the canvas to prevent dirt, pollen, and etc. from embedding in the fabric. Generally, it is easiest to wash the canvas while it is installed on your boat.

- Use a soft-bristled brush to remove all dust and loose dirt.
- 1. Hose down the canvas with freshwater.
- 2. Gently wash the canvas with a solution of lukewarm water (no more than 100° F) and non-detergent soap, such as Lux or Ivory Flakes.
- 3. Rinse thoroughly to remove the soap.
- 4. *Before* stowing, let the canvas dry completely.

#### **Stubborn Stains**

## A CAUTION

- Soaking in bleach solutions may remove the waterproof finish of the fabric and may also decrease the life of the polyester thread used in the canvas.
- If needed, a water repellent treatment should be reapplied to your canvas. Ask your dealer about the treatments available for your boat's canvas.

Some stubborn stains may resist normal washing and you can try the methods below. However, these methods may remove the waterproof finish of the fabric and may also decrease the life of the polyester thread used in the canvas. Reapply a water repellent treatment as needed.

#### Method 1

- 1. Add 1/8 cup (2 oz.) of **non-chlorine** bleach to one gallon of water and mix thoroughly.
- 2. Thoroughly wet the canvas and then gently scrub the stained area with the weak bleach solution.
- 3. Rinse with cold water to remove all of the solution.

#### Method 2

- 1. Add 1/2 cup (4 oz.) of **non-chlorine** bleach and 1/2 cup (4 oz.) Ivory Flakes to one gallon of water and mix thoroughly.
- 2. Soak the canvas in this solution for about 20 minutes.
- 3. Rinse with cold water to remove all of the solution.

### **Clear Vinyl Care**

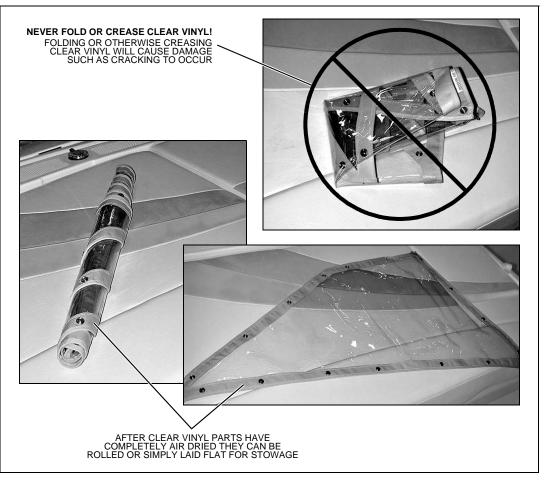
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- *NEVER* store the clear vinyl pieces wet, as this will cause a milky film to develop.
- NEVER fold or crease the clear vinyl pieces as cracking will occur.
- Clear vinyl is *NOT* intended for use when your boat is in storage or being moored.
- Clear vinyl does NOT hold up well against ultraviolet rays.
- Under direct sunlight conditions, do *NOT* let the clear vinyl touch the framework. The framework radiates heat and can burn the clear vinyl.
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- After each use, especially in saltwater, rinse the clear vinyl with cold freshwater.
- *Before* stowing, the clear vinyl must be completely dry. Air-drying is best, but you can also carefully dry the vinyl with a chamois or soft cotton cloth.
- The clear vinyl can be rolled or laid out flat for stowage.
- *Never* fold or crease the clear vinyl parts as cracking will occur.

#### Cleaning Clear Vinyl

Regularly clean the clear vinyl to prevent dirt, pollen, and etc. from marring the surface. Generally, it is easiest to clean the clear vinyl while it is installed on your boat.

- 1. Hose down the clear vinyl with freshwater.
- Using a soft cotton cloth (paper towels are abrasive and should *never* be used on clear vinyl), gently wash the clear vinyl with soap and water.
- 3. Rinse thoroughly to remove the soap.
- 4. *Before* stowing, the clear vinyl must be completely dry. Air-drying is best, but you can also carefully dry the vinyl with a chamois or soft cotton cloth.
- Ask your dealer about products available to keep the clear vinyl polished and looking new.



## **Chapter 8: Appliances & Entertainment Systems**

### NOTICE

ALWAYS keep an approved ABC-type fire extinguisher in galley area.

- The separate instruction sheets or manuals for *all* appliances and entertainment systems contain detailed information and important safeguards.
- Read these instruction sheets and manuals *before* using your boat's appliances and entertainment systems.
- If applicable, make sure the 110-volt AC breaker is turned *On* for the appliance or entertainment system you wish to use.

### Refrigerator

The refrigerator runs on 12-volt DC power *unless* 110-volt AC power is being supplied by shore power *and* the refrigerator's circuit breaker on the 110-volt AC master panel is On.

### Audio & Visual Equipment

NOTICE

AM radio reception may be impaired anytime the engine is running.

### Alcohol/110-Volt Electric Stove

## DANGER!

CARBON MONOXIDE POISONING HAZARD!

- The alcohol stove is a source of dangerous carbon monoxide gas (CO).
- *BEFORE* using the alcohol stove, *Open* doors and windows to make sure there is enough fresh air for ventilation.

• Read the *Carbon Monoxide* (CO) section in *Chapter 1* of this *supplement*.

# WARNING!

- Open flame cooking appliances consume oxygen. This can cause asphyxiation or death.
- Maintain open ventilation.

# 🚹 WARNING!



### BURN/SCALDING and/or FIRE HAZARD!

- Read the stove's instruction manual *BEFORE* using.
- *ALWAYS* keep an approved ABC-type fire extinguisher in the galley area.
- Do *NOT* use the stove while underway.
- Any non-cooking devices on or near your stove during use are potential fire hazards!
- Do *NOT* touch the burners, grates or nearby surfaces as they may be hot even when they are dark in color.
- Areas near the burners and grates may become hot enough to cause burns.
- During and after use, do *NOT* touch or let clothing or other flammable material come in contact with the heated units or the areas near the units (burner tops, main frame sides and back, sea rails and pot holders) until they have had sufficient time to cool.

#### 

PRODUCT DAMAGE HAZARD!

To prevent overheating which can destroy the electric burner elements, *NEVER* try to use both alcohol and electric burners at the same time.

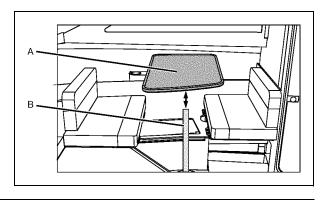


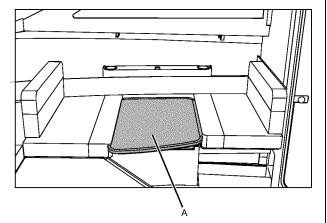
## Chapter 9: Convertible Seats, Beds, & Tables

### **Dinette to Sleeping Berth Conversion**

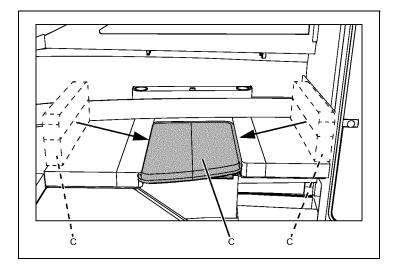
1. Remove the table (A) and the table leg (B).

2. Place the table (A) so that if fits securely on the edge lips at the front of the dinette seats.





3. Place the seat backs (C) on top of the table.



### **Chapter 10: Lights**

### Care & Maintenance

All of the lights installed on your boat are of top quality, but you should be aware that failure may periodically occur for a variety of reasons:

- 1. There may be a blown fuse *replace the fuse*.
- 2. The bulb may be burned out carry spare bulbs for replacement, making sure the wattage is correct.
- 3. A wire may be damaged or may have come loose *repair as required*.
- 4. The bulb base may be corroded *clean the base and coat it with non-conductive electrical lubricant*.

### **Interior & Exterior Lights**

## 

- Be conservative in the use of battery power.
- Prolonged use of cabin interior lights (overnight) WILL result in a drained battery.
- The lights are powered by your boat's 12-volt DC system.
- The battery switch *must* be turned *On* for the lights to work.

### **Navigation Lights**

## 

Avoid the storage of gear where it would block navigation lights from view.

## NOTICE

Running lights are legally required to show boat direction and right-of-way at night.

### Spotlight (If Equipped)

Read the spotlight operating instructions *before* using the spotlight.



# **Chapter 11: Electrical System**

# DANGER!

- EXTREME FIRE, SHOCK and EXPLOSION HAZARD!
- To minimize the risks of fire and explosion, *NEVER* install knife switches or other arcing devices in the fuel compartment.
- *NEVER* substitute automotive parts for marine parts. Marine electrical, ignition, and fuel system parts were designed and manufactured to comply with rules and laws that minimize the risks of fire and explosion.
- Do NOT change the electrical systems or relevant drawings.
- Allow ONLY trained personnel to install batteries and/or do electrical system work.
- Make sure that ALL battery switches are turned Off BEFORE working in the engine spaces.

## WARNING!



FIRE and EXPLOSION HAZARD!

Fuel vapors can explode! *BEFORE* turning on electrical devices or working on the electrical system:

- 1. Check the bilge areas for fuel vapors or leaking fuel. If you see leaking fuel or smell fuel vapors:
  - a. Do *NOT* start the engine, do *NOT* turn *On* any electrical devices, put out *ALL* cigarettes, cigars, and other sources of flame or ignition.
  - b. Get everyone off your boat.
  - c. Get trained help to find and fix the problem.
- 2. Run the bilge blower(s) for at least four minutes *BEFORE* engine starting, electrical system work, or turning on electrical devices.

# 

### SHOCK and ELECTRICAL SYSTEM DAMAGE HAZARD!

When the engine is running, *NEVER* turn *Off* the battery switch or disconnect the battery cables. Doing either could cause damage to your boat's engine and/or electrical system.

## NOTICE

Electrical connections are prone to corrosion. To reduce corrosion-caused electrical problems:

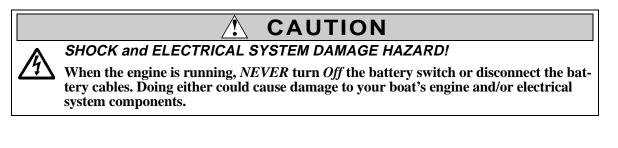
- Keep ALL electrical connections clean.
- Apply a spray-on protectant that is designed to protect connections from corrosion.

### 12-Volt DC System

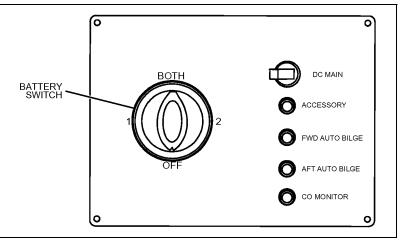
### Batteries

- The batteries supply electricity for lights, 12-volt accessories, and engine starting.
- The *Electrical* section in *Chapter 8* of the *Cruiser & Yacht Owner's Manual* provides battery care and maintenance instructions.

### Battery Switch



- Standby-loads, such as the automatic bilge pumps and the stereo memory, are not affected by the battery switch since they are wired directly to the batteries.
- Turn the battery switch to the *Off* position whenever your boat will be unoccupied for long periods of time.



### **Battery Switch Positions**

## NOTICE

Since your boat's batteries were installed by your dealer, the battery switch positions listed below may vary. Make sure your selling dealer fully explains how to use the battery switches.

BATTERY SWITCH POSITIONS	ENGINE STARTING	ACCESSORIES & LIGHTS	ENGINE ALTERNATOR
POSITION 1	Battery <u>1</u> provides starting power	Battery <u>1</u> provides power for accessories and lights	Charges battery <u>1</u>
POSITION 2	Battery <u>2</u> provides starting power	Battery <u>2</u> provides power for accessories and lights	Charges battery <u>2</u>
BOTH POSITION	BOTH batteries Provide starting power	BOTH batteries provide power for accessories and lights (not advised unless engine is running)	Charges <u>BOTH</u> batteries



#### Fuses

	FUSE BLOCKS
MACERATOR: 14 GA BRN/RED BLOWER: 10 GA BRN/YEL 10 GA BRN/YEL 10 GA BRN/YEL 10 GA BRN/YEL 10 CA 10 CA	HORN: 16 GA BRN/GRN TRIM PLANE: 10 GA DELUE 10 GA ORG FORWARD BRD/WHP: 14 GA BRN AVIGATION/ ANCHOR LIGHTS: 16 GA RED NAVIGATION/ ANCHOR LIGHTS: 16 GA RED STEREO/DVD: 16 GA RED SPARE CABINLIGHTS: 10 GA BLUE PNK/BLK FORWARD BRD/WHT SPARE COURTESY LIGHTS: 10 TO TO TO TO TO TO TO TO TO TO TO TO TO T

- Fuses for the accessories are on the fuse blocks. For the location of the fuse blocks, see the *Component Locations* section in *Chapter 2* of this *supplement*.
- Fuses for the engine control and gauges are on the engine, see the engine operation manual.
- Some equipment may have secondary fuse protection at the unit, or at the battery.

#### 12-Volt DC Accessory Outlets

### 🗘 CAUTION

Do *NOT* use the 12-volt DC accessory outlet with a cigarette or cigar lighter. High temperatures may melt the outlet.

- The outlets can be used with any 12-volt device which draws 10-amps or less.
- Each 12-volt DC accessory outlet is protected by a 10-amp fuse on the fuse block.
- For the locations of the 12-volt DC accessory outlets, see the *Component Locations* section in *Chapter 2* of this *supplement*.

#### Alternator

The alternator will keep the battery properly charged when the engine is running at, or above, cruising speeds.

#### Battery Charger (If Equipped)

### CAUTION

ENGINE and ELECTRICAL SYSTEM DAMAGE HAZARD!

NEVER run your boat's engines and the battery charger at the same time.

## 

- The battery charging systems (alternator and battery charger) installed on your boat are designed to charge conventional lead-acid batteries.
- *BEFORE* installing gel-cell or other new technology batteries, consult with the battery manufacturer about charging system requirements.
- *Before* using the battery charger, read *all* instructions and warnings: (1) on the battery charger, (2) on the batteries, and (3) in the battery charger manual.
- The battery charger will automatically charge your boat's batteries when 110-volt AC power is being provided by shore power, *and* the battery charger circuit breaker on the 110-volt AC master panel is *On*.
- The battery switch can be in any position during charging.
- During battery charging you may use 12-volt accessories, such as the lights and stereo, but battery charging will take longer.



### 110-Volt AC System

## ▲ CAUTION

#### WATER HEATER DAMAGE HAZARD!

- Do *NOT* turn *On* the water heater circuit breaker on the 110-volt AC master panel until the water heater tank is *COMPLETELY* filled with water.
- The tank is full if water flows from the tap when the hot water is turned *On* in the galley.
- Even brief water heater operation with a dry tank *WILL* damage the heating elements.
- Warranty replacements will *NOT* be made on elements damaged in this manner.

## NOTICE

- When using shore power, the use of several 110-volt AC accessories at the same time can result in an overloaded circuit.
- You may have to turn *Off* one or more accessories to use another accessory.

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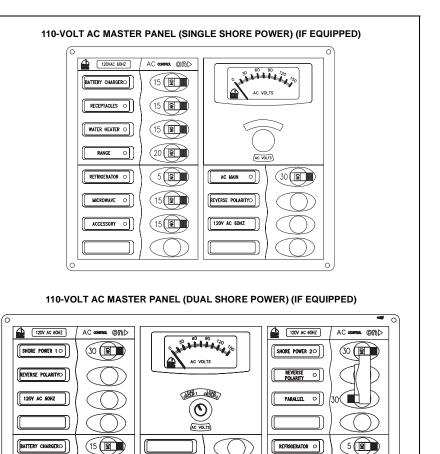
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- To gain a basic understanding of your boat's 110-volt AC system, read the handbook, *A Boater's Guide To AC Electrical Systems*. If this handbook is not in your owner's packet, call 360-435-8957 and the handbook will be mailed to you.
- The 110-volt AC system is energized by shore power.
- Individual breakers on the 110-volt AC master panel *must* be turned *On* to supply power to the accessories you wish to use.
- The 110-volt AC master panel may contain circuit breakers for accessories that are *not* available for your boat.



AIR/HEAT O

MICROWAVE O

ACCESSORY O

### Shore Power

## A DANGER!

FIRE, EXPLOSION and SHOCK HAZARD!

- Use ONLY compatible shore power connectors and NEVER alter the connectors.
- Turn *Off ALL* breakers and switches on the 110-volt AC master panel *BEFORE* plugging in or unplugging the shore power cord.
- To prevent shock or injury from dropping a "hot" cord into the water:
  - a. *ALWAYS* plug the shore power cord into the boat inlet first, and then into the dockside outlet.
  - b. When unplugging from shore power, *ALWAYS* unplug the shore power cord from the dockside outlet first.
- NEVER leave the shore power cord plugged into the dockside outlet ONLY.
- *ONLY* use shore power cords approved for marine use. *NEVER* use ordinary indoor or outdoor extension cords.

### WARNING!



- SHOCK and ELECTRICAL SYSTEM DAMAGE HAZARD!
- Monitor the polarity indicator lights EVERY TIME you connect to shore power.
- If a reversed polarity light turns *On* when you are connecting to shore power, do *NOT* turn *On* the main breaker switches.
- Instead, *IMMEDIATELY* unplug the shore power cord (*ALWAYS* from the dockside outlet first) and alert marina management.

## A WARNING!



- SHOCK and ELECTRICAL SYSTEM DAMAGE HAZARD!
- BEFORE each use, check the shore power cord for defects or damage.
- *NEVER* use a damaged or faulty cord since the danger of fire and electrical shock exists.
- Do *NOT* pinch the shore power cord in doors or hatches, or coil the shore power cord too tightly, since these situations can generate enough heat to result in a fire.
- If a shore power cord is dropped into the water, *COMPLETELY* dry the blades and contact slots *BEFORE* using.

# CAUTION



ELECTRICAL SYSTEM DAMAGE HAZARD!

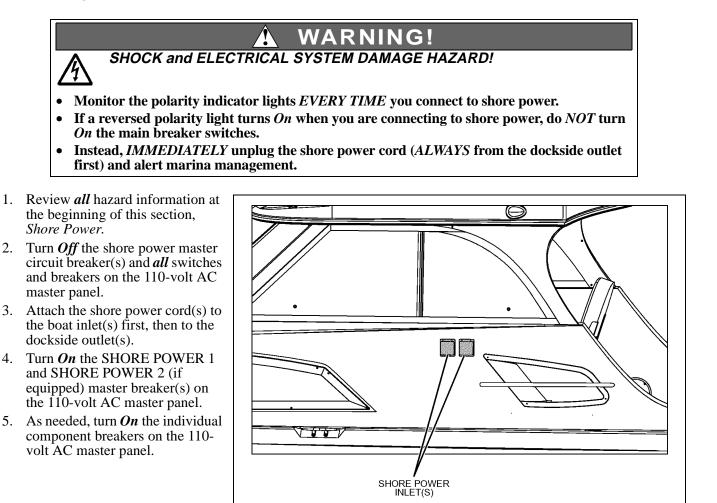
- *NEVER* connect to dockside power outside of North America unless you have the international electrical conversion option.
- Using several 110-volt AC accessories at the same time can result in an overloaded circuit. You may have to turn *Off* one or more accessories to use another accessory.
- Use double insulated or three-wire protected electrical appliances whenever possible.

- Single shore power 110-volt/60-hertz AC systems feature one 110-volt/30-amp shore power inlet.
- If your boat has an air conditioning system, a second (dual) 110-volt/30-amp inlet has been installed.
- Dual shore power inlets are labeled LINE 1 and LINE 2, which corresponds to the SHORE POWER 1 and SHORE POWER 2 master breakers on the 110-volt AC master panel.
- LINE 1 and LINE 2 are independent of each other except when the parallel switch is used.

#### Connecting to Shore Power

1

2.



Parallel Switch (Only if Equipped with Dual Shore Power)

### NOTICE

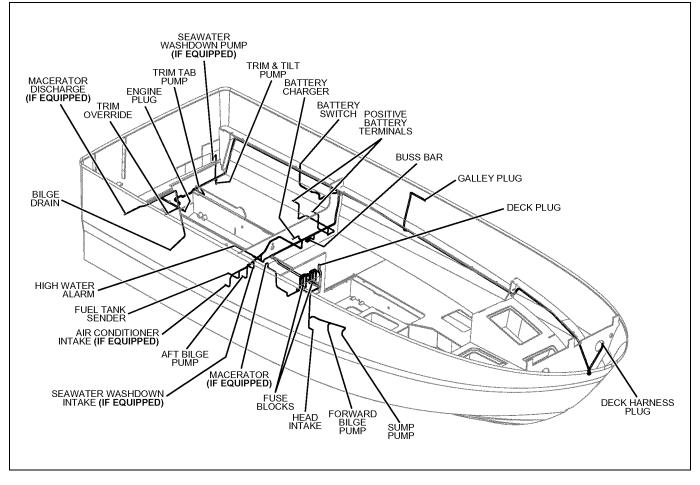
- When using the parallel switch do *NOT* exceed 30 total amps.
- The amperage of each component breaker is shown on the breaker itself.
- The voltage on each line can be read on the voltmeter on the 110-volt AC master panel.

When only one dockside outlet is available, you can use the parallel switch to provide power to both lines.

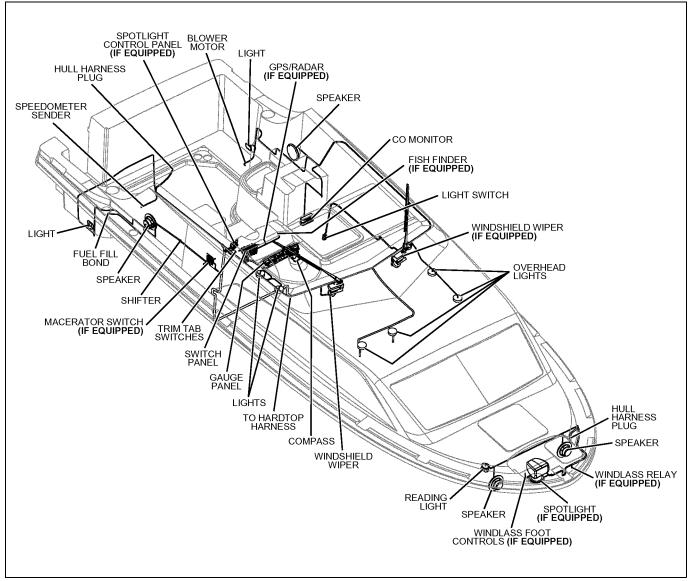
- 1. Connect to shore power as described in the *Connecting to Shore Power* section above.
- Switch the parallel switch (transfers power from line 1 to line 2) **On** instead of the SHORE POWER 2 2. master breaker.
- 3. Turn **On** the individual component breakers as required.

### **Electrical Routings**

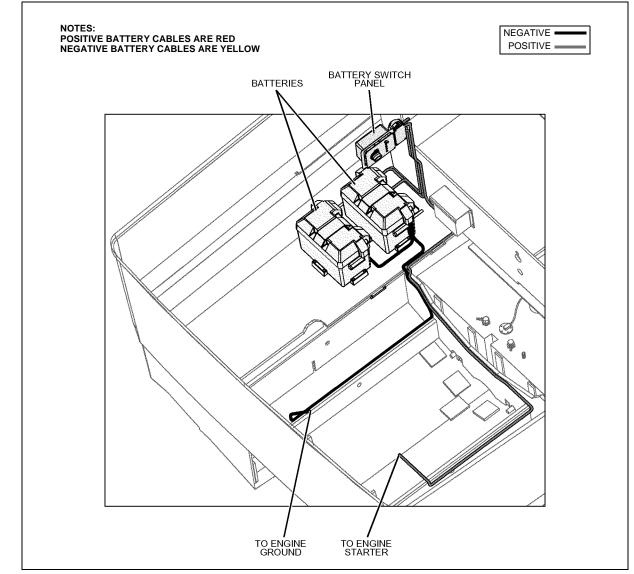
### 12-Volt DC Hull Harness



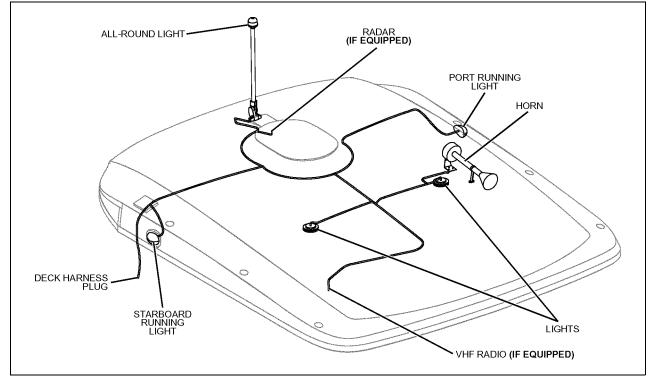
### 12-Volt DC Deck Harnesses



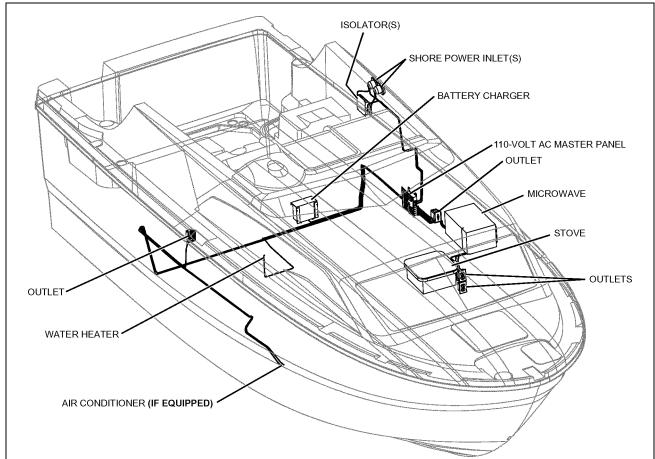
### Battery Cable Routings



### 12-Volt DC Hardtop Harness



#### 110-Volt AC Hull Harness



## **Important Records**

Selling Dea	ller		Key Numbers	
	Name Of Dealership		Ignition	Other
	Address			
			Electronics	
	Phone/FAX/E-mail			
	Sales Manager		Manufacturer	Model Name/Number
	Service Manager		Seria	l Number
Engine			Manufacturer	Model Name/Number
Manufacture	ar Mod	el Name/Number	Seria	l Number
Manadatare				
	Engine Serial Number		Manufacturer	Model Name/Number
Oil Type/SAE	Quarts per Engine	Filter Type	Seria	l Number
Propeller			Manufacturer	Model Name/Number
Manufacture	<u></u>	Pitch	Seria	l Number
	Model Number		Manufacturer	Model Name/Number
			Seria	l Number



### **Float Plan**

Before going boating, fill out a copy of this float plan (or similar) and leave it with a *reliable* person whom you can depend on to contact the Coast Guard or other rescue organization, if you do not return as scheduled.

### **Description of Boat**

Reg	istration/Documentation No	umber		Full Name	
Length	Make	Туре	Age	Health	Phone Number
Hull Color		Trim Color			
				Full Name	
Fuel Capacity	Engine Type	Number of Engines		Health	Dhana Numhar
			Age	neaim	Phone Number
	Distinguishing Features				
	Distinguishing Features			Full Name	
	Distinguishing reactives	_			
			Age	Health	Phone Number
Operator of	Boat				
	Dout	-		Full Name	
	Full Name				
		-	Age	Health	Phone Number
Male or Female	Age	Health			
		-		Full Name	
	Address				
			Age	Health	Phone Number
	Address				
	Phone/FAX/E-mail			Full Name	
	Operator's Experience		Age	Health	Phone Number
				Full Name	
Persons On	board				
			Age	Health	Phone Number
	Full Name				
				Full Name	
Age	Health	Phone Number			
		-	Age	Health	Phone Number
	Full Name				
Age	Health	Phone Number			

## **Survival Equipment**

## **Trip Expectations**

Marine Radio (Yes/No)	Туре	Frequencies	Departing From	
Number of PFDs	Flares (Yes/No)	Mirror (Yes/No)	Departure Date	Departure Time
Smoke Signals (Yes/No)	Flashlight (Yes/No)	Food (Yes/No)	Store	over 1
			Сюрс	
Water (Yes/No)	Anchor (Yes/No)	Raft/Dinghy (Yes/No)	Arrive No Later Than: Date	Arrive No Later Than: Time
Paddles (Yes/No)	EPIRB (Yes/No)	Other		
Other	Other	Other	Stope	over 2
			Arrive No Later Than: Date	Arrive No Later Than: Time
Vehicle Desc	cription			
	•		Stope	over 3
Make		Model	Arrive No Later Than: Date	Arrive No Later Than: Time
Color		License Number		
			Stopo	over 4
W	/here is the Vehicle Parked	1?		
			Arrive No Later Than: Date	Arrive No Later Than: Time
			Stope	over 5
			Arrive No Later Than: Date	Arrive No Later Than: Time
			Stopover 6	
			Arrive No Later Than: Date	Arrive No Later Than: Time
			Final Destination Port (If Different Than Home Port)	
			Arrive No Later Than: Date	Arrive No Later Than: Time
			If not returned by the date the Coast Guard or other	and time listed above, call local authority.
			Coast Guard F	Phone Number

Local Authority Phone Number

Part Number 1854251

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