BAJLINER®

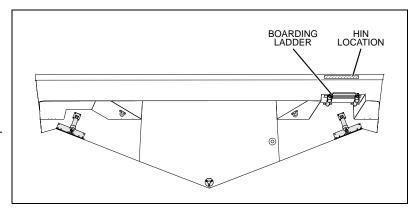
Owner's Manual Supplement

Engine Serial Number:		
_		

Hull Identification Number

Hull Identification Number:

- The Hull Identification Number (HIN) is located on the starboard side 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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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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Float Plan

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.

A DANGER!

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

A 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.



















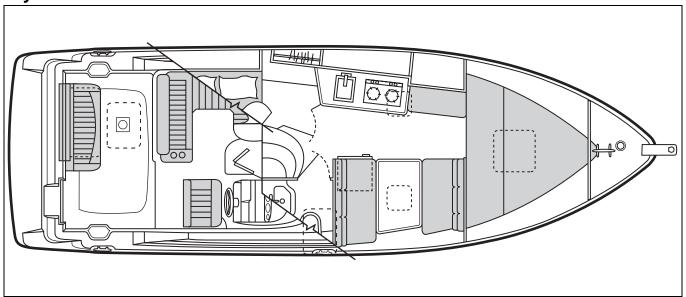
Chapter 1: Welcome Aboard!

- This *Owner's Manual Supplement* provides information about your boat that is *not* covered in the *Cruiser & Yacht Owner's Manual*.
- **Before** using your boat, study this *Owner's Manual Supplement*, the *Cruiser & Yacht Owner's Manual*, and **all** engine and accessory literature carefully.
- 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	Bridge	Beam	Draft	Draft	Fuel	Freshwater	Holding Tank
Length	Clearance		(Hull)	(Maximum)	Capacity	Capacity	Capacity
29' 6"	9' 1"	9' 10"	1' 8"	3' 2"	102 Gallons	33 Gallons	20 Gallons

Layout View



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.

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 receive a copy of the Limited Warranty, please contact your Bayliner dealer or call 360-435-8957 for a copy.



Boating Experience

A WARNING!

CONTROL HAZARD!

A qualified 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, obtain handling and operating experience *before* assuming command of this 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 Bayliner dealer, national sailing federation, or local boat club can advise you of local sea schools or competent instructors.

Engine & Accessory Guidelines

NOTICE

When storing your boat, please refer to your engine's operation and maintenance manuals.

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 other accessories may cause unwanted handling characteristics.
- Should you choose to install a different engine or accessories that will affect your boat's running trim, have an experienced marine technician perform a safety inspection and handling test *before* operating your boat again.

Engine & Accessory Literature

- The engine and accessories installed on your boat come with their own operation and maintenance manuals.
- Read these manuals *before* using the engine and accessories.
- Unless noted otherwise, *all* engine and accessory literature referred to in this *supplement* is included in your owner's packet.



Propeller

⚠ CAUTION

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.

Qualified Maintenance

A WARNING!

To maintain the integrity and safety of your boat, allow *ONLY* qualified personnel to perform maintenance on, or change, in any way, the:

- Steering system
- Propulsion system
- Engine control system
- Fuel system
- Environmental control system
- Electrical system
- Navigational 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.



Safety Standards

A 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(s) are 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.



Special Care for Moored Boats

NOTICE

- To help seal the hull bottom and reduce the chance of gelcoat 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 gelcoat.
- Periodically haul your boat out of the water and scrub the hull bottom with a bristle brush and a solution of soap and water.

Sacrificial Anode (Zinc)

NOTICE

- Do NOT paint between the zinc and the metal surface it contacts and do NOT paint over the zinc.
- If the zinc is *NOT* bonded correctly, it will *NOT* provide protection.

Your boat is equipped with a sacrificial anode (zinc) to protect underwater metal parts from excessive deterioration. Check the zinc regularly and replace it if it has deteriorated more than 70%.

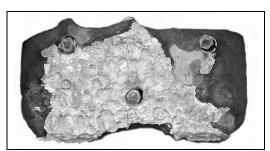
Many factors affect the rate at which the zinc deteriorates, including:

- Water temperature
- Salinity
- Water pollution
- Stray electrical current

Stray electrical current from your boat, another boat, or the dock may cause complete deterioration of the zinc in just a few weeks. If there is rapid zinc deterioration, measure the electrolytic corrosion around your boat with a corrosion test meter.



NEW SACRIFICIAL ANODE



DETERIORATED SACRIFICIAL ANODE

Boat Lifting

À 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.

A WARNING!

PERSONAL INJURY and/or PRODUCT or PROPERTY DAMAGE HAZARD!

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

A WARNING!

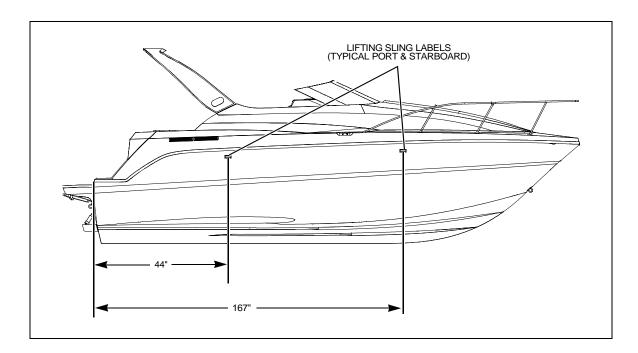
PERSONAL INJURY and/or PRODUCT or PROPERTY DAMAGE HAZARD!

- 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.

! CAUTION

PRODUCT or PROPERTY DAMAGE HAZARD!

When lifting any boat, *ALWAYS* use a spreader bar. The spreader bar *MUST* be equal to the width of your boat at each lifting point.



- 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!



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

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.

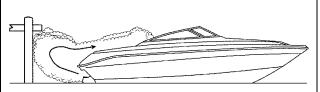
Factors that Increase the Effects of CO Poisoning

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



Where and How CO Can Accumulate

Stationary Conditions That Increase CO Accumulations Include:



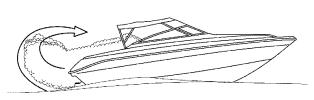
A. Using engine, generator, or other fuel burning device when boat is moored in a confined space.

B. Mooring too close to another boat that is using its engine, generator, or other fuel burning device.

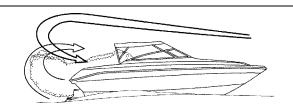
To correct stationary situations A and/or B:

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

Running Conditions That Increase CO Accumulations Include:



C. Running boat with trim angle of bow too high.



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 and 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 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.
- Install and maintain CO monitors 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.
- ☐ 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 Qualified 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 Monitors

NOTICE

- The stereo memory and CO monitors 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 monitors.
- Read the manufacturer's instructions for your CO monitors. 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.



American Boat & Yacht Council, Inc.

More Information

For more information about how you can prevent carbon monoxide poisoning on recreational boats and other ways to boat more safely, contact:

United States Coast Guard Office of Boating Safety (G-OPB-3) 2100 Second Street SW Washington, DC 20593 www.uscgboating.org 1-800-368-5647

National Marine Manufacturers Association (NMMA) 200 East Randolph Drive **Suite 5100** Chicago, IL 60601-9301

3069 Solomon's Island Road Edgewater, MD 21037-1416 www.abycinc.org 410-956-1050 www.nmma.org 312-946-6200

(ABYC)

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®.

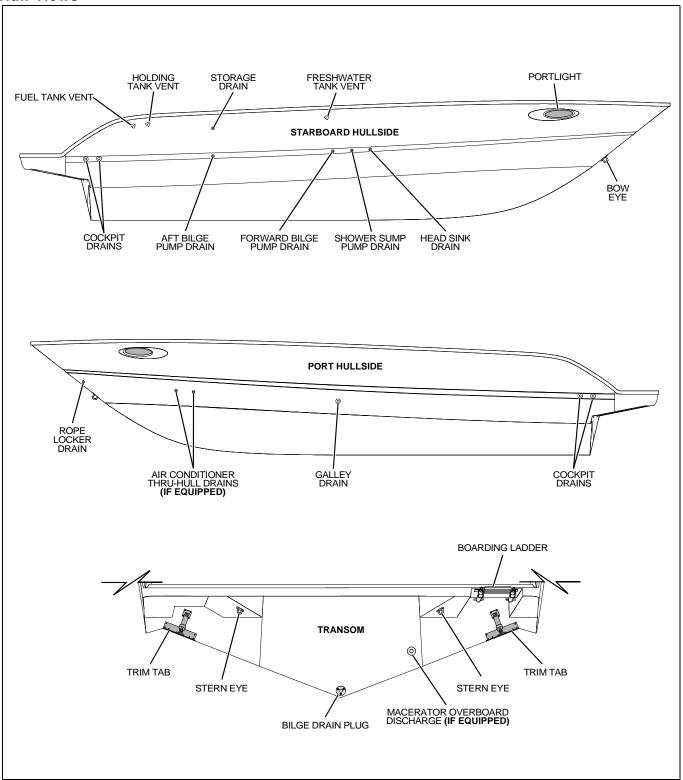
- U.S. Coast Guard Auxiliary: 1-800-368-5647 or on the Internet at: http://www.cgaux.org
- U.S. Power Squadrons: 1-888-FOR-USPS (1-888-367-8777) or on the Internet at: http://www.usps.org



Chapter 2: Locations

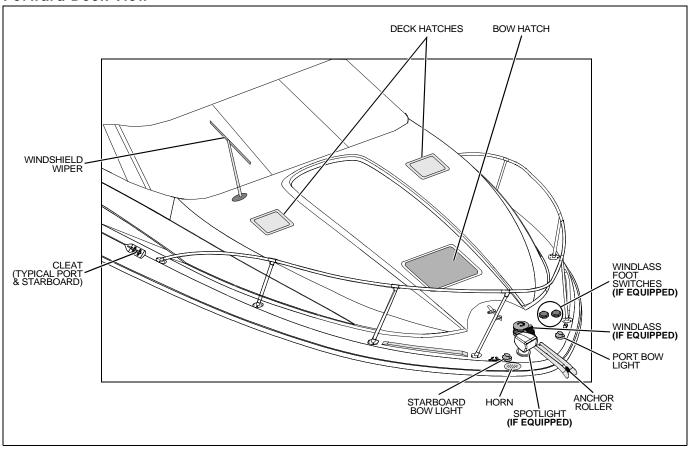
Exterior Views

Hull Views

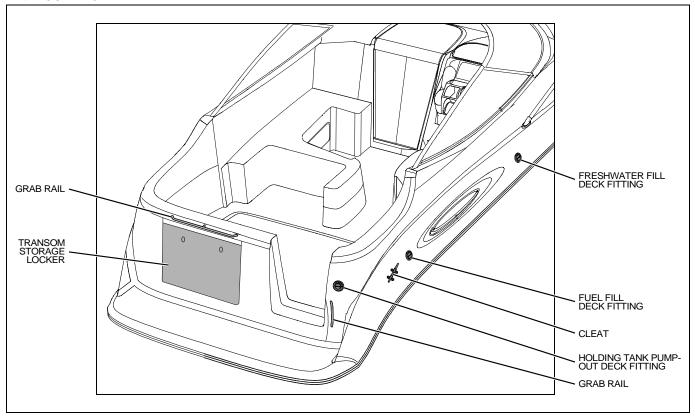




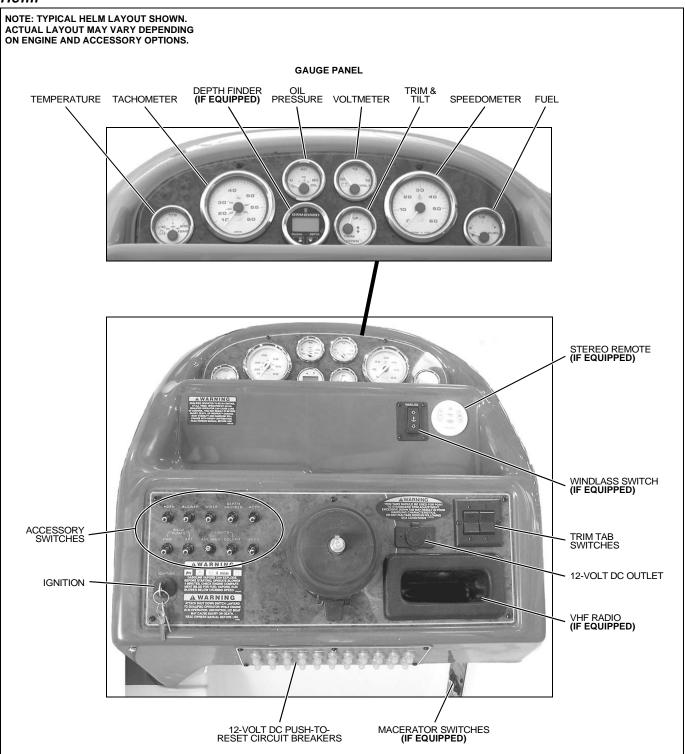
Forward Deck View



Aft Deck View



Helm



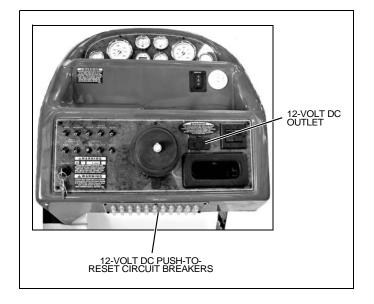


Component Locations

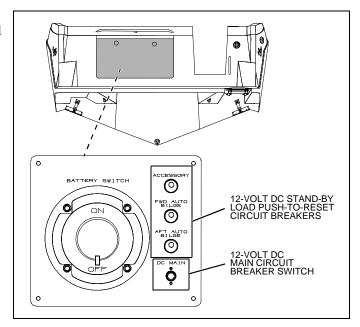
12-Volt DC Accessory Outlet: Located at the helm.

12-Volt DC Circuit Breakers:

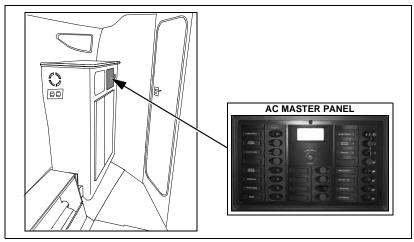
• The 12-volt DC push-to-reset circuit breakers are located at the helm.



• The 12-volt DC main circuit breaker switch and standby-load push-to-reset circuit breakers are located on the battery switch panel inside the transom storage locker.

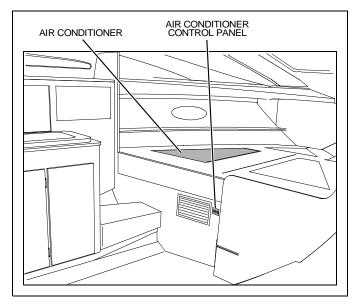


110-Volt AC Master Panel: Located on the aft berth cabinet above the hanging locker.

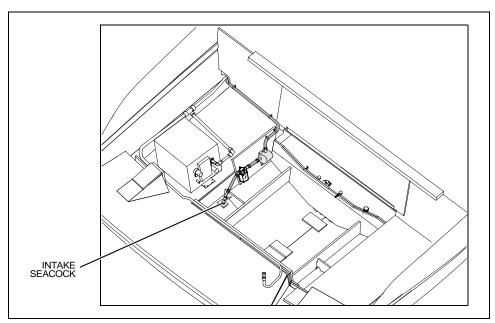


Air Conditioner (If Equipped): Located in the aft port storage locker under the v-berth cushion.

Air Conditioner Control Panel (If Equipped): Located on the aft end of the v-berth bunk.

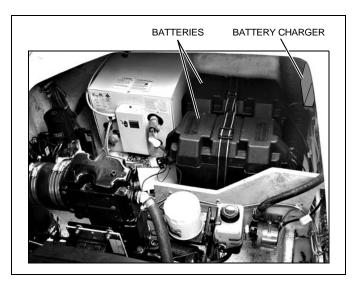


Air Conditioner Seawater Intake Seacock (If Equipped): Located on the port aft side of the engine room.



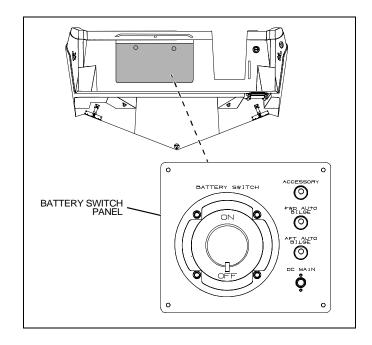
Batteries: Located in the port forward corner of the engine room.

Battery Charger: Located on the port forward wall of the engine room.



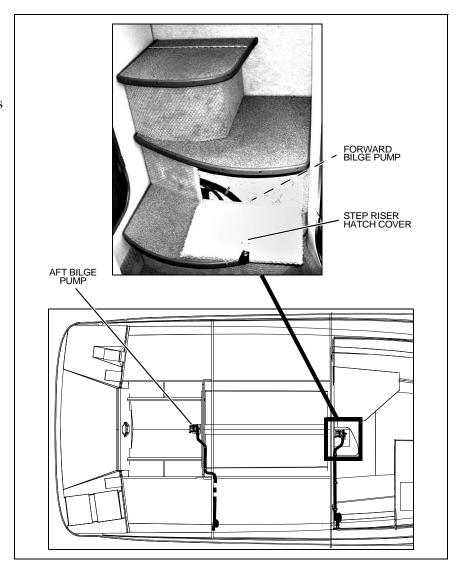


Battery Switch Panel: Located inside the transom storage locker on the port side.



Bilge Pumps (2 Total):

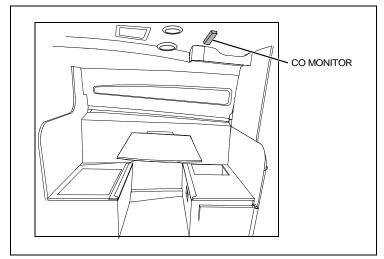
- The aft bilge pump is located in the engine room bilge, forward of the engine.
- The forward bilge pump is located in the bilge under the entry steps. Access by removing the bottom entry step riser hatch cover.



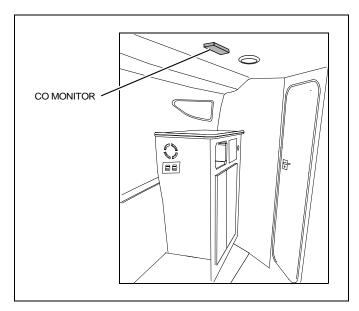


CO Monitors (2 Total):

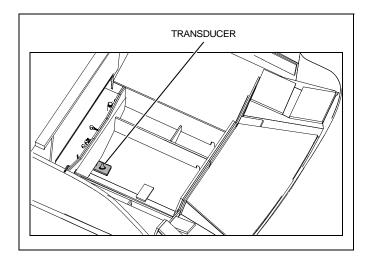
• One is located on the ceiling above the aft end of the dinette.



• One is located on the ceiling in the aft berth.



Depth Finder Transducer: Located in the engine room bilge, forward of the engine.

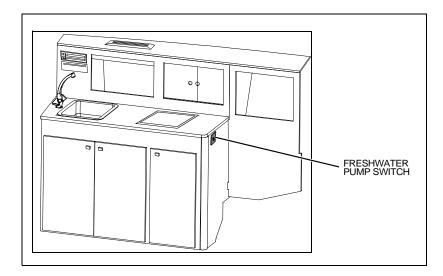


Freshwater Pump:

- Located under the entry steps.
- Access by removing the bottom entry step riser hatch cover.

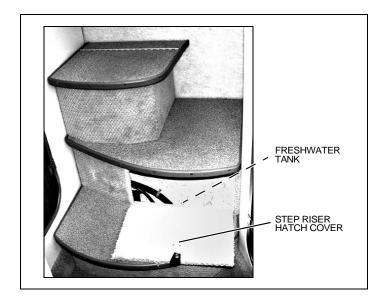


Freshwater Pump Switch: Located at the forward end of the lower galley cabinet.

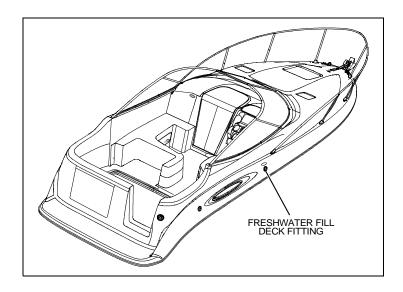


Freshwater Tank:

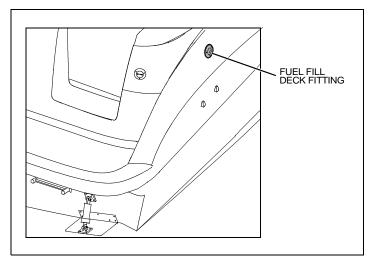
- Located under the entry steps.
- Access by removing the bottom entry step riser hatch cover.



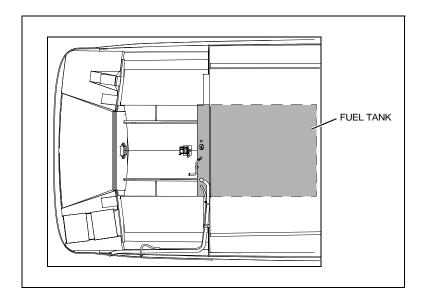
Freshwater Fill Deck Fitting (marked WATER): Located on the starboard side of the deck, just forward of the ventilation louver.



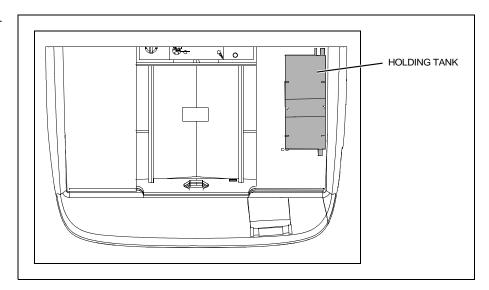
Fuel Fill Deck Fitting (marked GAS): Located on the starboard aft corner of the deck.



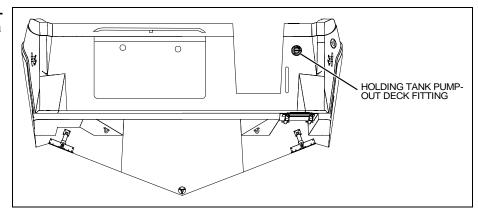
Fuel Tank: Located in the engine room.



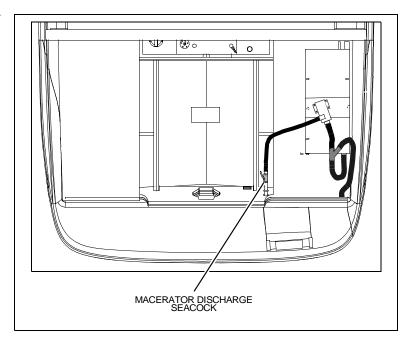
Holding Tank: Located on the starboard forward side of the engine room.



Holding Tank Pump-out Deck Fitting (marked WASTE): Located on the starboard aft corner of the aft deck, next to the transom door.



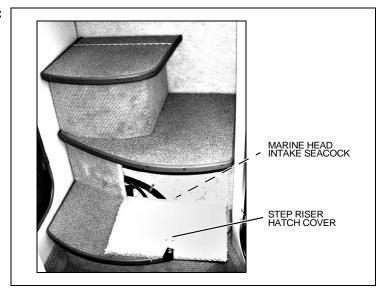
Macerator Underwater Discharge Seacock (If Equipped): Located on the starboard aft wall of the engine room.



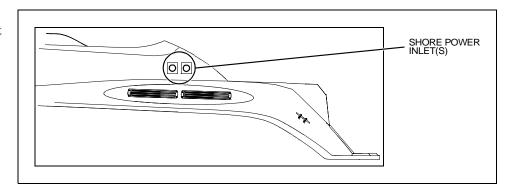


Marine Head (Electric) Seawater Intake Seacock:

- Located in the bilge under the entry steps.
- Access by removing the bottom entry step riser hatch cover.

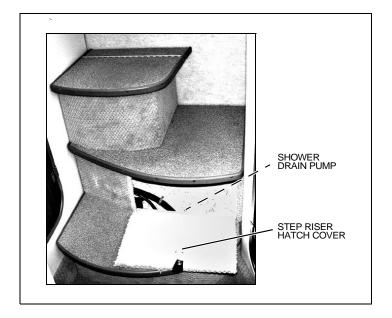


Shore Power Inlet(s) (If Equipped): Located on the port aft deck.



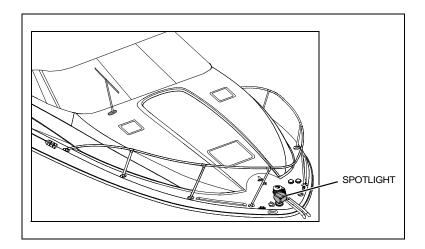
Shower Drain Sump Pump Box:

- Located under the entry steps.
- Access by removing the bottom entry step riser hatch cover.

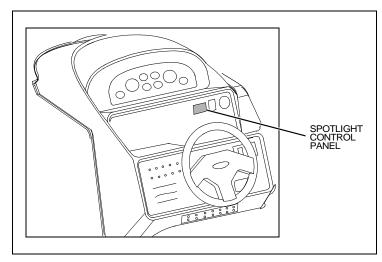




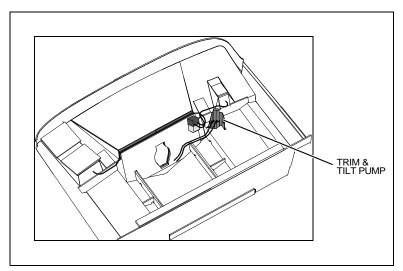
Spotlight (If Equipped): Located on the bow.



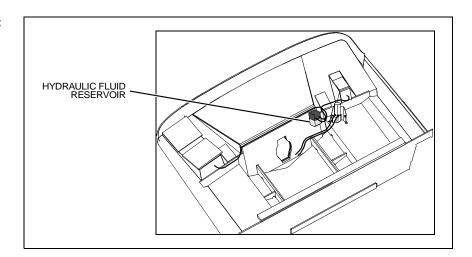
Spotlight Control Panel (If Equipped): Located at the helm.



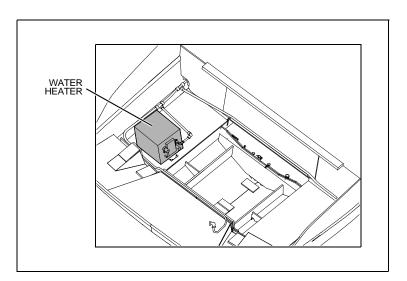
Trim & Tilt Pump: Located in the port aft corner of the engine room.



Trim Tab Hydraulic Fluid Reservoir: Located in the port aft corner of the engine room.



Water Heater: Located on the port side of the engine room.





Chapter 3: Propulsion & Related Systems

Engine

Read the engine operation and maintenance manuals *before* starting or working on the engine.

Bilge Blower System

A WARNING!



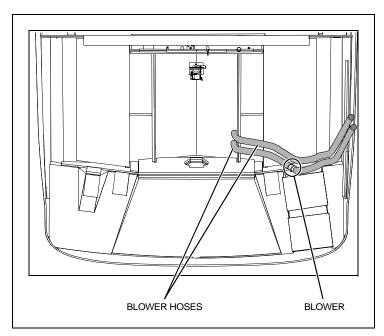
FIRE and EXPLOSION HAZARD!

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 prior to 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 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 the boat below cruising speed.





Fuel System

♠ WARNING!



FIRE, EXPLOSION, and OPEN FLAME HAZARD!

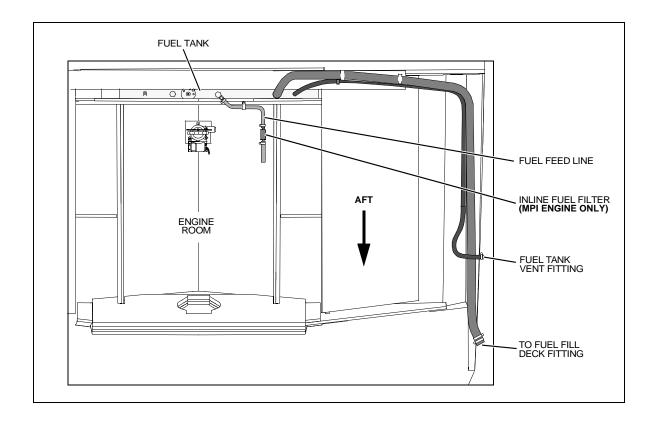
- It is very important that the fuel system be inspected thoroughly the first time it is filled and at each subsequent filling.
- The fueling instructions in the *Cruiser & Yacht Owner's Manual* and the fuel recommendations in the engine operation manual *MUST* be followed.

CAUTION

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.
- If your boat features an MPI engine, there may be an inline fuel filter on the fuel line.
- 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 will prevent the fuel from siphoning 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 was attached to the engine oil pan at the factory. However, some minor assembly is still needed *before* you can use this system.

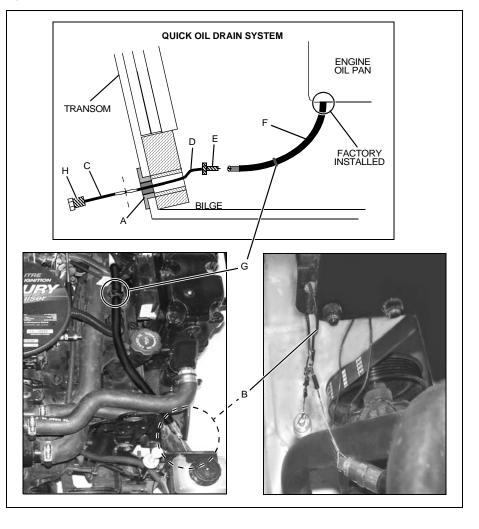
How to install the quick oil drain system:

- 1. Unscrew the factory installed bilge plug from the bilge drain (A). Keep the factory bilge plug on your boat as a spare.
- 2. Unclip the quick oil drain assembly from the wire loop (B) on the engine.
- 3. Un-clip the draw cord section (C) from the draw cord section (D).
- 4. Thread the draw cord section (D), the oil drain plug (E), and the oil drain hose (F) through the bilge drain (A).
- 5. 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).
- 6. Re-clip the draw cord section (C) to the draw cord section (D).
- 7. Push the oil drain hose, oil drain plug, and both sections of the draw cords through the bilge drain and into the bilge area.
- 8. Screw the oil drain 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.

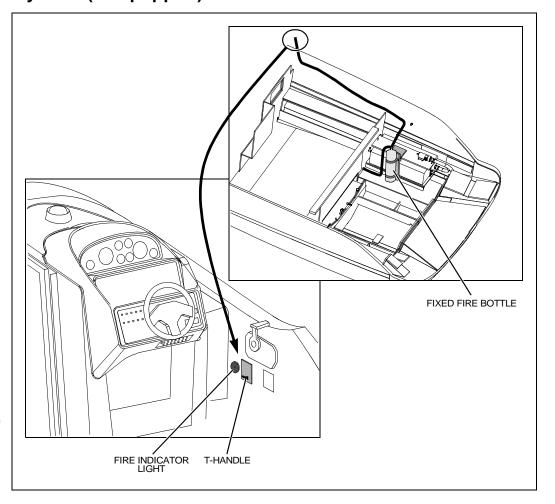
Always dispose of waste oil in accordance with local regulations.





Fire Suppression System (If Equipped)

- The fire suppression system is designed to extinguish engine room fires.
- **Before** using your boat for the first time, read the fire suppression system's instruction and maintenance manual and follow **all** warnings.
- The system will discharge automatically whenever direct heat from a fire is detected in the engine room.
- The system can be discharged manually by pulling the T-handle (labeled FIRE) at the helm.
- The system can *only* be discharged *once*.
- After the system is discharged, it *must* be refilled and refurbished *before* it can be used again.



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

🛕 WARNING!

LOSS OF CONTROL HAZARD!

Improper maintenance of the shift/throttle hardware may cause a sudden loss of control!

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*.

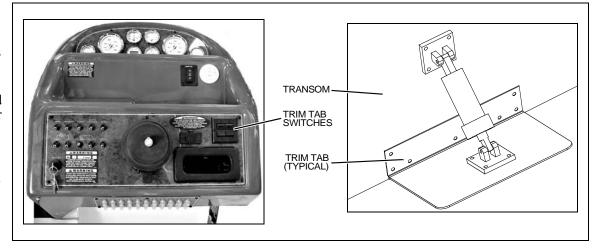
Power Trim & Tilt

- 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 of *Chapter 2* in this *supplement*.

Gauges

Cleaning the Gauges

⚠ CAUTION

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 qualified 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

A 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.

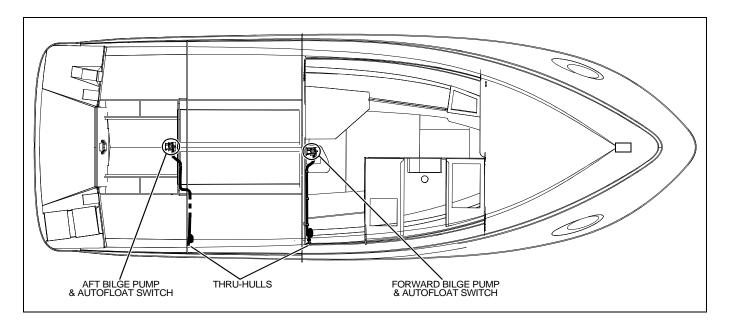


Chapter 6: Plumbing

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 yourself 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.

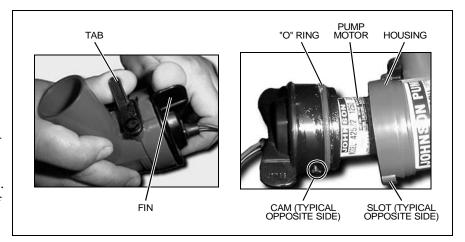


Bilge Pump Testing

- 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.

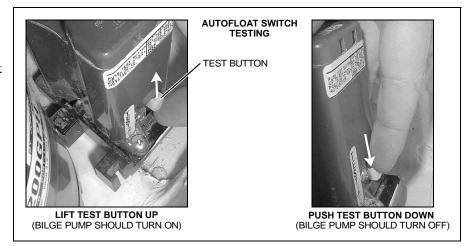


Autofloat Switches

- 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 push-to-reset circuit breaker.
- If the circuit breaker is good, but the switch still does not work, it may mean the switch is bad or, the battery is dead.
- 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 battery and the engine, and even sink your boat.

CAUTION

SYSTEM DAMAGE HAZARD!

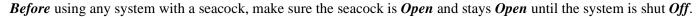
- BEFORE using any system that has a seacock, make sure that the system's seacock is Open.
- Inspect and lubricate all seacocks annually.

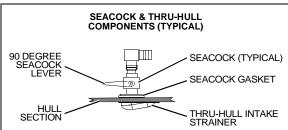
Thru-hull inlet or outlet fittings near or below the waterline feature seacock valves. You can close a seacock to stop water entry:

- 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)





Seawater Strainers

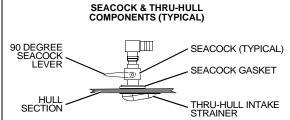
CAUTION

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!

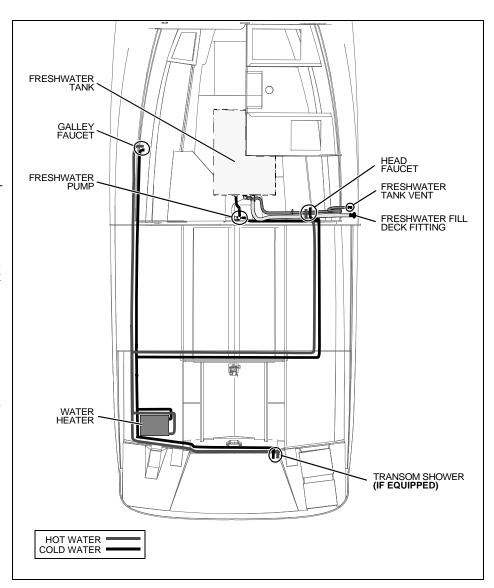
- After putting the seawater strainer back together, make sure that the seacock valve is *Open* BEFORE using the component/system.
- Seawater strainers are used to filter incoming seawater in *some* seawater intake systems. NOTE: Not all seawater intake systems have seawater strainers.
- If equipped, 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.



Freshwater System

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 either 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 of *Chapter 2* in 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.





Freshwater System Winterization

- 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

⚠ CAUTION

FRESHWATER SYSTEM DAMAGE HAZARD!

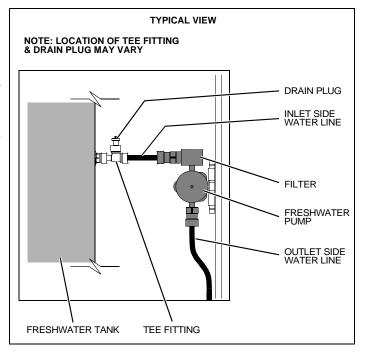
- A faucet must be open when compressed air is blown through the freshwater system.
- NEVER blow compressed air through the water system when ALL of the faucets are Closed.

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).
- 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.
- 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.



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.



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

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).
- Leave the pressure relief and drain valves *Open* until you fit out your boat after storage.



Drain Systems

Deck Drains

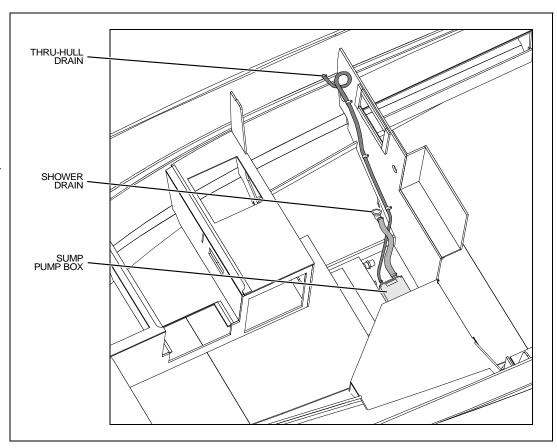
- Water on the deck is drained overboard through the deck drains.
- Keep the deck drains free of debris.

Gray Water Gravity Drains

The sinks are above the waterline and are gravity drained overboard

Shower Sump Pump System

- The shower drains into 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

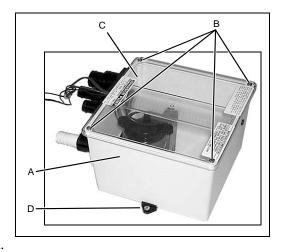
Periodically clean the sump box (A), filter, and pump as follows:

- 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.



Marine Head & Holding Tank

NOTICE

Check with local authorities for regulations regarding the legal use of marine head systems.

Manual Flush Head with Holding Tank

WARNING!

FLOODING and SWAMPING HAZARD!

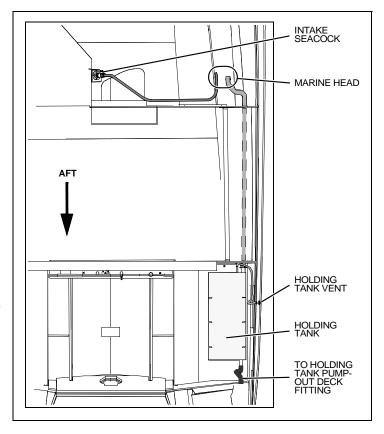
- Close the seawater intake seacock when leaving your boat unattended for any length of time.
- If the seacock is left open, a hose failure could flood the bilge, swamp the batteries and the engine, and even sink your boat.
- **Before** using this system, read the marine head's operation and maintenance manual.
- Look at the side of the holding tank to check the content level.
- The dockside pump-out deck fitting is marked WASTE.
- Empty the holding tank at every opportunity.

Using the Marine Head

- 1. *Open* the head's seawater intake seacock.
- 2. **Before** using the head, pump water into the bowl to wet the sides.
- 3. After use, pump until the bowl is clean.
- 4. Pump a few more times to clean the lines.
- 5. If excess waste causes the water to rise in the bowl, stop pumping until the water recedes.
- *Close* the intake seacock when the system will not be used for long periods of time.

Winterizing the System

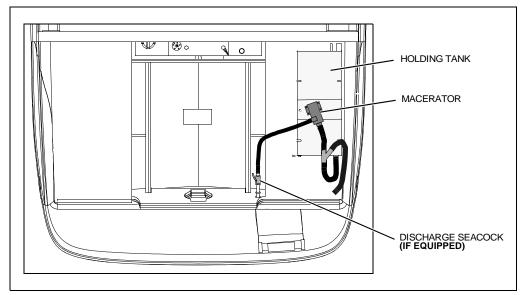
Read the marine head's operation and maintenance manual for winterizing instructions.



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.





Chapter 7: Deck Equipment

Cleats and Tow Eyes

A WARNING!

PERSONAL INJURY and/or PRODUCT or PROPERTY DAMAGE HAZARD!

NEVER lift your boat using the bow and 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)

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.

/ CAUTION

PRODUCT DAMAGE HAZARD!

Do NOT pull your boat to the anchor using the windlass or continue to run 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.
- Make sure the anchor is secured *before* getting underway.



Canvas

↑ CAUTION

PRODUCT or PROPERTY DAMAGE HAZARD!

Take down and securely stow ALL canvas BEFORE transporting your boat by road.

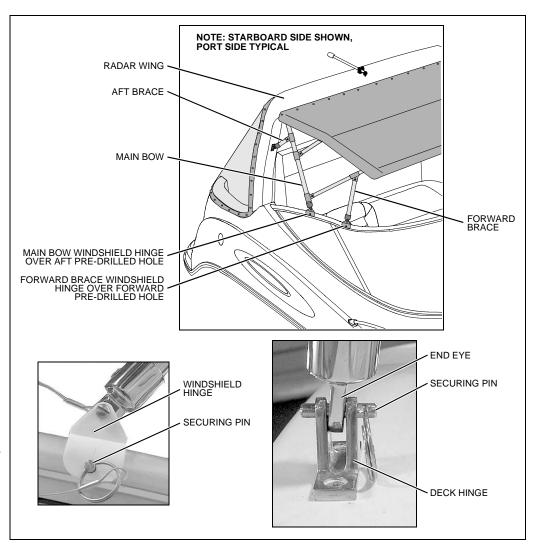
NOTICE

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

NOTICE

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

- Slide the main bow's windshield hinges over the aft pre-drilled holes in the side-windshield frames and insert the securing pins.
- 2. Starting with the center snaps, snap the aft edge of the bimini top to the radar wing.
- 3. Slide the forward braces' windshield hinges over the forward pre-drilled holes in the side-windshield frames and insert the securing pins.
- 4. Slide the end eyes of the aft braces into the deck hinges on the radar wing and insert the securing pins.
- The jaw slides (J) 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 (If Equipped)

Forward Bimini Curtain

NOTICE

When taking down the forward bimini curtain, avoid socket/stud problems by using the following method to unfasten the curtain sockets from the studs on the windshield frame:

- Grasp the edge of the curtain just below each socket and roll the edge upwards. The socket should pop off easily.
- 1. At the top center of the curtain there are two zippers. Zip four to six inches of each zipper to the bimini top.
- Starting at the bottom center of the curtain and working outwards, press the sockets over the studs on the windshield frame.
- 3. Fasten the top corner curtain studs to the bimini sockets.
- 4. Finish zipping the top zippers.

Side Bimini Curtains

- 1. Starting on either side, zip four to six inches of the top zipper to the bimini top.
- 2. Zip three to four inches of the forward vertical zipper to the forward bimini curtain.
- 3. Start with the top aft snap and work your way down snapping the curtain to the radar arch.
- 4. Now work your way forward snapping the curtain to the side-windshield frame.
- 5. Finish zipping the forward vertical zipper.
- 6. Finish zipping the top zipper.
- 7. Repeat steps one through six on the other side.

Camper Curtains

- 1. Zip together four to six inches of all camper curtain zippers.
- 2. Snap all curtain snaps to the radar arch and 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



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 air-dry completely.

Stubborn Stains

↑ 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

∴ CAUTION

- 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.
- 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.

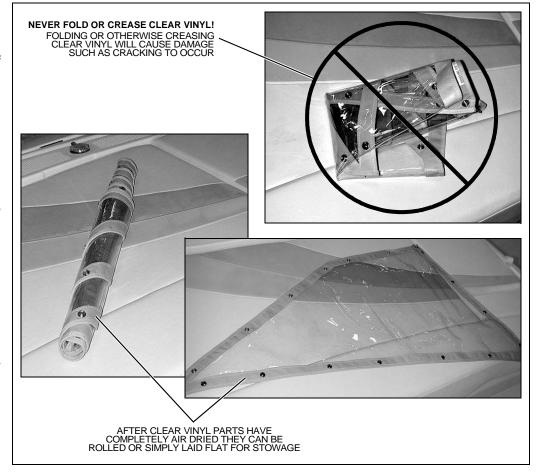
Cleaning the Clear Vinyl

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 instructions 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 Equipment

NOTICE

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



Alcohol/Electric Stove

A DANGER!

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 of Chapter 1 in this supplement.

A WARNING!

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

A 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.

↑ CAUTION

PRODUCT DAMAGE HAZARD!

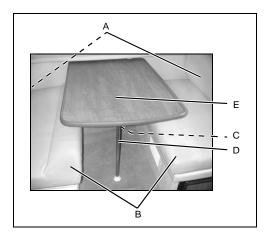
To prevent overheating which can destroy the electric burner elements, *NEVER* try to use both alcohol and electric burners at the same time.



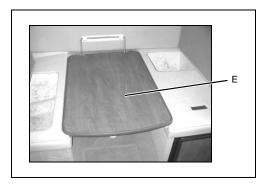
Chapter 9: Convertible Seats, Beds, & Tables

Dinette

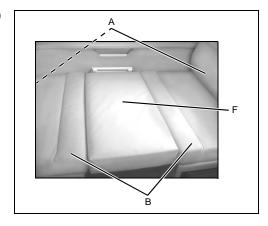
- 1. Remove the seat back cushions (A) and seat bottom cushions (B).
- 2. Push in the spring loaded locking pin (C) and fold the table leg (D) under the dinette table top (E).



3. Pull the dinette table top (E) straight out and lower it.



- 4. Replace the seat bottom cushions (B) and place the filler cushion (F) on the table top.
- 5. Replace the seat back cushions (A).



Chapter 10: Lights

Care and 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.
- 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

↑ CAUTION

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.

Read the navigation light section of the Cruiser & Yacht Owner's Manual.

Spotlight (If Equipped)

Read the spotlight operating instructions before using the spotlight.



Chapter 11: Air Conditioning System (If Equipped)

A DANGER!



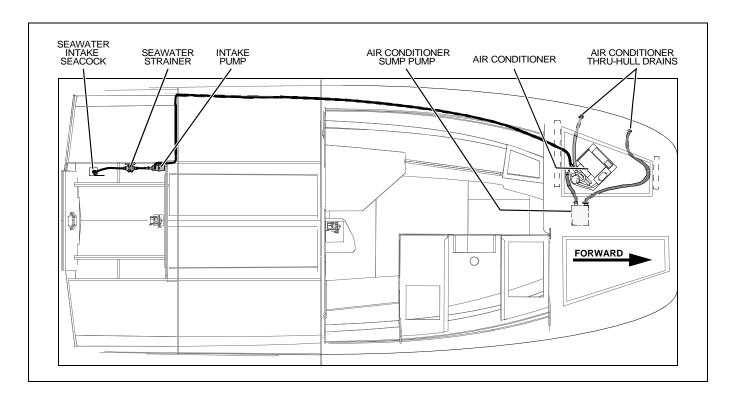
CARBON MONOXIDE POISONING HAZARD!

- Dangerous carbon monoxide gas (CO) can be brought into your boat through the air conditioning system.
- Read the Carbon Monoxide (CO) section of Chapter 1 in this supplement.

⚠ CAUTION

SYSTEM DAMAGE HAZARD!

The air conditioning system's seawater intake seacock MUST be Opened BEFORE turning On the air conditioner and 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 seacock is *Open*.
- The seacock *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 of *Chapter 6* in this *supplement*.



Chapter 12: Electrical System

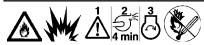
A DANGER!



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 regulations that minimize risks of fire and explosion.
- Do NOT modify the electrical systems or relevant drawings.
- Have qualified personnel install batteries and/or perform electrical system maintenance.
- Make sure that ALL battery switches are turned Off BEFORE performing any work in the engine spaces.

WARNING!



FIRE and EXPLOSION HAZARD!

Fuel vapors can explode! *BEFORE* electrical system maintenance or activation of electrical devices:

- 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(s) for at least four minutes prior to engine starting, electrical system maintenance, or activation of electrical devices.

↑ CAUTION



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 of *Chapter 8* in the *Cruiser & Yacht Owner's Manual* provides battery care and maintenance instructions.

Battery Switch





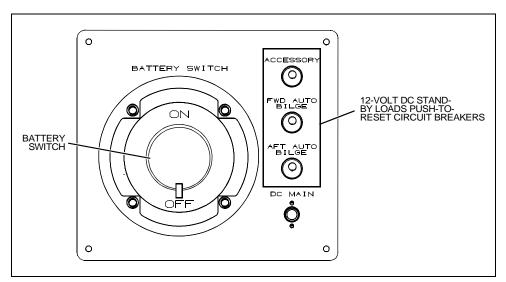
SHOCK and ELECTRICAL SYSTEM DAMAGE HAZARD!

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

Make sure your selling dealer fully explains how to use the 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 battery (see the *Wiring Diagrams* section of this chapter for more details).
- Turn the battery switch to the Off position whenever your boat will be unoccupied for long periods of time.



Fuses & Circuit Breakers

- Circuit breakers for the engine and main accessory power are on the 12-volt DC push-to-reset circuit breaker panel and the battery switch panel.
- Some equipment may have secondary fuse protection at the unit, behind the battery switch panel, or at the batteries.
- For the locations of the battery switch panel and the 12-volt DC push-to-reset circuit breakers, see the *Component Locations* section of *Chapter 2* in this *supplement*.



12-Volt DC Accessory Outlet

⚠ CAUTION

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

- The outlet can be used with any 12-volt device which draws 15-amps or less.
- Each outlet is protected by a 15-amp breaker on the 12-volt DC push-to-reset circuit breaker panel.

Alternator

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

Battery Charger

⚠ CAUTION

ENGINE and ELECTRICAL SYSTEM DAMAGE HAZARD!

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

↑ CAUTION

- 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

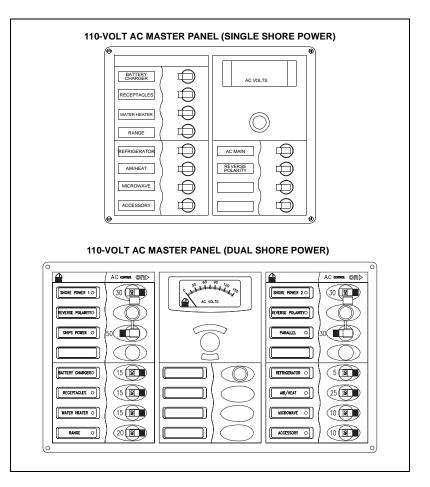
↑ CAUTION

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.
- 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.





Shore Power

A DANGER!



FIRE, EXPLOSION and SHOCK HAZARD!

- Do NOT alter the shore power connectors and use ONLY compatible 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.

A 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 features one 110-volt/30-amp shore power receptacle.
- 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.

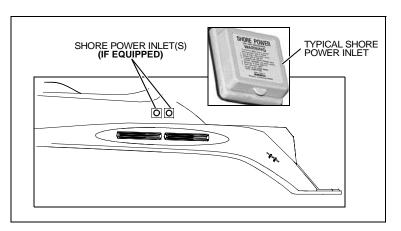
Connecting to Shore Power

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.
- 1. Review *all* hazard information at the beginning of this section, *Shore Power*.
- 2. Turn *Off* the shore power master circuit breaker(s) and *all* switches and breakers on the 110-volt AC master panel.
- 3. Attach the shore power cord(s) to the boat inlet(s) first, then to the dockside outlet(s).
- 4. Turn *On* the SHORE POWER 1 and SHORE POWER 2 (if equipped) master breaker(s) on the 110-volt AC master panel.
- 5. As needed, turn *On* the individual component breakers on the 110-volt AC master panel.



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.

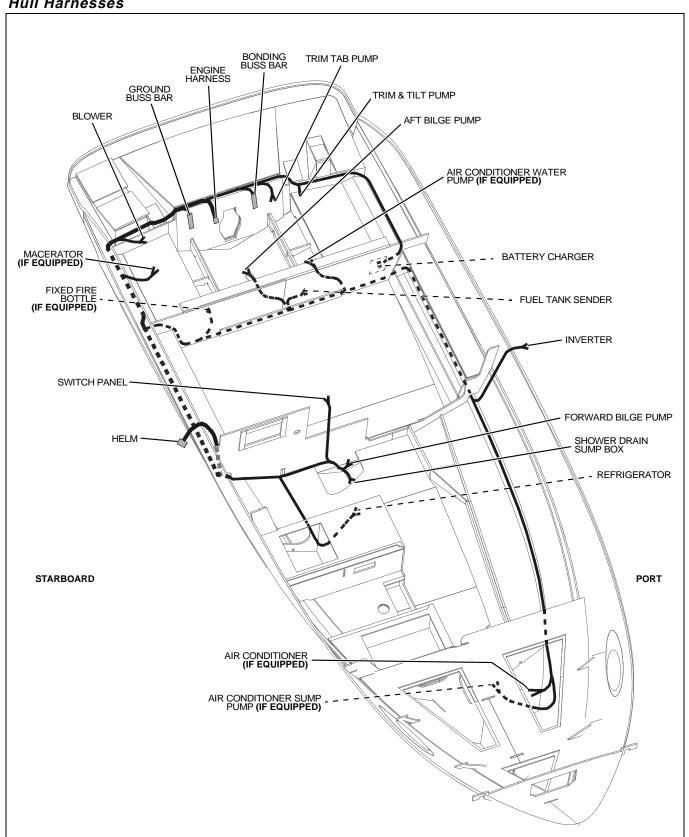
When only one dockside outlet is available, you can use the parallel switch to provide power to both lines.

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



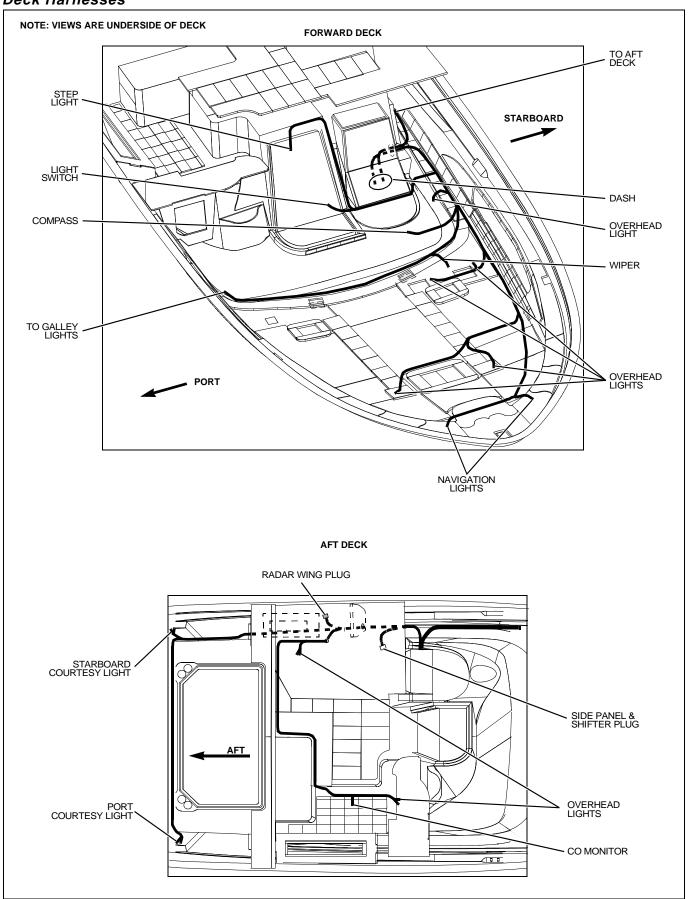
Electrical Routings

Hull Harnesses



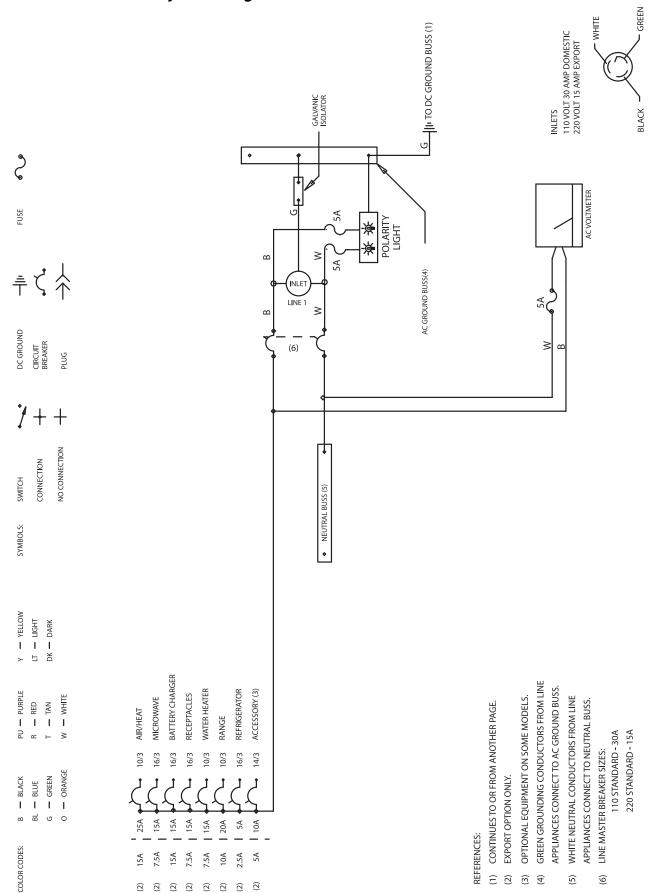


Deck Harnesses

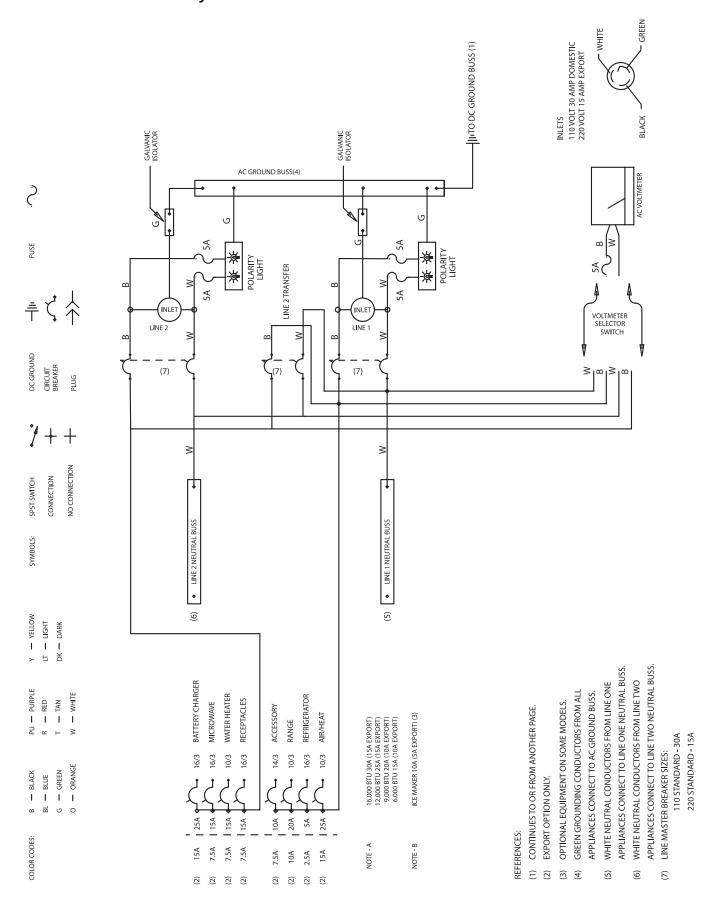




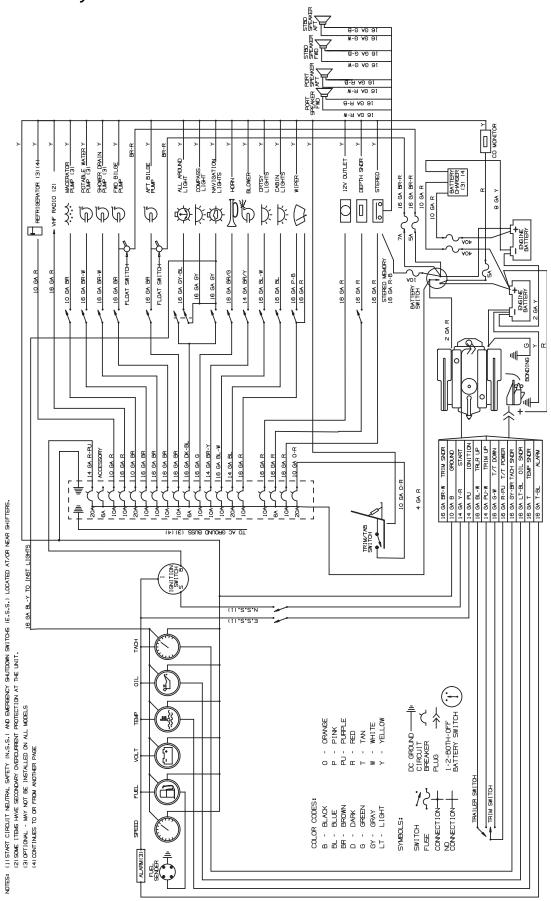
110-Volt AC Electrical System Single Dockside



110-Volt AC Electrical System Dual Dockside



Engine Electrical System



Important Records

Selling Dealer		Electronics	
Name Of	Dealership	Manufacturer	Model Name/Number
Add	dress	Seria	al Number
Phone/F	AX/E-mail		
		Manufacturer	Model Name/Number
Sales I	Manager	Seria	al Number
Service	Manager	Conc	
		 Manufacturer	Model Name/Number
Engine			
J		Seria	al Number
Manufacturer	Model Name/Number		
Engine Se	rial Number	Manufacturer	Model Name/Number
		Seria	al Number
Propeller			
		Manufacturer	Model Name/Number
Manufacturer	Pitch	Seria	al Number
Model	Number		
Fuel System			
Fuel Capacity	Filter Type		
Key Numbers			
Ignition	Other		



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		Persons Onboard			
Reg	gistration/Documentation N	lumber		Full Name	
Length	Make	Туре	Age	Health	Phone Number
Hull Color		Trim Color		Full Name	
Fuel Capacity	Engine Type	Number of Engines			
	0 ,,	· ·	Age	Health	Phone Number
	Distinguishing Features	3			
	Distinguishing Features			Full Name	
	Distinguishing i eatures	•			
			Age	Health	Phone Number
Operator of	Boat				
•				Full Name	
	Full Name		Age	Health	Phone Number
			J		
Male or Female	Age	Health			
	Address			Full Name	
			Age	Health	Phone Number
	Address				
	Phone/FAX/E-mail			Full Name	
	T HOHOT TOVE HIGH				
	Operator's Experience		Age	Health	Phone Number
				Full Name	
			Age	Health	Phone Number
			Aye	Health	i none radinoei
				Full Name	
			Age	Health	Phone Number



Survival Equipment

Marine Radio (Yes/No)	Туре	Frequencies	Departi	ng From
Number of PFDs	Flares (Yes/No)	Mirror (Yes/No)	Departure Date	Departure Time
moke Signals (Yes/No)	Flashlight (Yes/No)	Food (Yes/No)		
			Stope	over 1
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	Stopo	over 2
			Arrive No Later Than: Date	Arrive No Later Than: Time
/ehicle Desc	ription			
			Stope	over 3
Make		Model	Arrive No Later Than: Date	Arrive No Later Than: Time
Color		License Number		
W	here is the Vehicle Parked	?	Stope	over 4
			Arrive No Later Than: Date	Arrive No Later Than: Time
			Stopo	over 5
			Arrive No Later Than: Date	Arrive No Later Than: Time
			Stopo	over 6
			Arrive No Later Than: Date	Arrive No Later Than: Time
			Final Destination Port (If I	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, cal local authority.

Trip Expectations



Local Authority Phone Number

Owner's Notes



