Welcome Aboard

This manual has been specially prepared to assist you in the operation and care of your Bayliner boat. While not intended as an all-inclusive document designed to provide every detail, familiarization with this manual will contribute to the more effective operation of your boat.

Understanding your new boat and how it works is essential to your boating enjoyment and safety. We recommend that you perform the following steps:

1. Make certain that you receive a full explanation of all systems from the dealer before taking delivery of your boat.

2. Read this manual thoroughly, paying particular attention to the subjects of fueling, checking for fumes, starting, carbon monoxide, alcohol stoves, loading limits, trim tabs, recommendations for safety, and warranty.

3. Practice—all members of the family should be familiar with the operation and systems of your boat.

4. Participate in a safe boating course. Call your local U.S. Coast Guard for the time and place of their next class.

There is information in this manual related to the following Bayliner boats:

2850 Contessa Designer's Edition
2850 Contessa Command Bridge
3250 Conquest Sunbridge
3270 Motoryacht
3450 Tri-Cabin Motoryacht
3460 Trophy Convertible
3870 Motoryacht

Due to our ongoing commitment to product improvement, we reserve the right to change, without notice or other obligation, the specifications or information contained in this publication.
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PREPARATION

Prior to leaving on your first outing (or, for that matter, any outing) there are certain items to check and activities to perform. Familiarize yourself with your boat before leaving, and consider the following.

Recommendations for Safety

1. Personal Flotation Devices: One Coast Guard approved personal flotation device (PFD) of suitable size is required for each person aboard recreational boats. New PFD's bearing Coast Guard approval are now identified by "Types I, II, III, or IV".

   For boats sixteen feet (16') or over in length: One Type I, II, or III (wearable) for each person on board and one Type IV (throwable) in each boat is required.

2. Always have children wear PFD's. Always check those devices intended for young children for fit and performance in the water. Never hesitate to have "all hands" wear lifesaving devices whenever circumstances cause the slightest doubt about safety.

3. Do not overload or improperly load your boat. Maintain adequate freeboard at all times. Consider the sea conditions, the duration of the trip, the weather and the experience of the personnel. Do not permit persons to ride on parts of the boat that were not designed for such use. Bow riding and seat back or gunwale riding can be especially hazardous.

4. Falls are the greatest cause of injury both afloat and ashore. Eliminate tripping hazards where possible, make conspicuous those that must remain, and require proper footwear to be used on board.

5. Understand the meaning of the buoys, and never moor to one. (It is a Federal offense.)

6. Know the various distress signals. A recognized distress signal used on small boats is to slowly and repeatedly raise and lower the arms outstretched to each side.

7. Storm signals are for your information and safety. Learn them and be guided accordingly.

8. A special flag (red flag with white diagonal) flown from a boat or buoy means skin diving operations. Approach with caution and stay clear at least 25 yards.

9. Be especially careful when operating in any area where there might be swimmers.

10. Watch your wake. It might capsize a small craft. You are responsible for damage caused by your wake. Pass through anchorages at a minimum speed.

11. Obey the "rules of the road". Disregarding such rules is the greatest cause of boating collisions.
12. Always have up-to-date charts of your area on board.

13. Keep an alert lookout. Serious accidents have resulted from failure in this respect.

14. Always instruct at least one person on board in the rudiments of boat handling in case you are disabled or fall overboard.

15. Consider what action you would take under various emergency conditions such as man overboard, fog, fire, a damaged hull or other bad leaks, motor breakdown, bad storm or collision.

16. If you ever capsize, remember that if the boat continues to float it is usually best to remain with it. You are more easily located by a search plane or boat.

17. Keep firefighting and lifesaving equipment in good condition and readily available at all times.

18. Do not test fire extinguishers by squirting small amounts of the agent. The extinguisher might not work when needed. Always follow approved instructions in checking fire extinguishers.

19. Have an adequate anchor and sufficient line to assure good holding in a blow (at least six times depth of water).

20. Boat hooks are valuable when docking or when needed to retrieve objects (including people) overboard.

21. Keep electrical equipment and wiring in good condition. No knife switches or other arcing devices should be owner installed in fuel compartments. Allow ample ventilation around batteries.

22. Good housekeeping in your boat is important. Cleanliness diminishes the probability of fire.

23. Know your fuel tank capacity and cruising range. If it is necessary to carry additional fuel, do so only in proper containers. Take special precautions to prevent the accumulation of fuel vapors in confined spaces.

24. Before departing on a boat trip, you should advise a responsible friend or relative about where you intend to cruise. Be sure that the person has a good description of your boat. Keep them advised of any changes in your cruise plans. By doing these things, your friend or relative will be able to tell the Coast Guard where to search for you and what type of boat to look for if you fail to return. Be sure to advise the same person when you arrive to prevent any false alarms about your safety.

25. Your local U.S. Coast Guard Auxiliary/Power Squadron generally puts on a Safe Boating Class several times a year. They are very comprehensive and generally of minimal cost to you. Call your local U.S. Coast Guard Auxiliary or Power Squadron Flotilla for the time and place of the next class.
Safety Equipment

The following safety related items should be considered as part of your standard equipment:
1. Fire extinguishers (located for easy access).
2. Personal flotation devices.
3. Fenders, lines and boat hook.
4. Flares (night and day type).
5. Flashlight.
6. Charts of intended cruising area.
7. First aid kit.

Tool Chest

1. Assorted screwdrivers (Phillips and flat blade).
2. Pliers—regular, vice-grip, and water pump.
3. Wrenches—box, open-end, allen, and adjustable.
5. Hacksaw with spare blades.
6. Hammer.
7. Battery jumper cables.
8. Electrical tape.
10. Gear grease and penetrating oil.
11. Feeler gauges.

Miscellaneous Items

2. Propeller with fastening devices.
3. Propeller shaft packing material.
4. Spare shaft and strut.
5. V-belts.
7. Transmission lubricant.
10. Fuel can.
11. Light bulbs.
12. Spare set of injectors for diesel engines (remote area cruising), or spare set of spark plugs and other ignition parts for gas engines.

**Static Float Attitude**

The static attitude of your boat can be affected by many variables. Optional equipment and loading of gear are the biggest contributors to a boat’s listing. After launching, any new boat can be adjusted. If your boat lists to one side, store heavy items on the light side and light items on the heavy side.

**Other Tips**

1. When commissioning a new boat, do not plan an extensive trip or party until you have a shakedown cruise to make sure all equipment on your boat is functioning properly and you are familiar with its operation.

2. Use big fenders and fender boards as they will best protect your boat from floats, piers, and other boats.

3. Carry adequate line properly sized to your boat. We suggest at least four 50' lengths of 1/2" nylon line for boats up to 34 feet and four 60' lengths of 5/8" nylon line for boats over 34 feet.

**OPERATING**

**Fueling Procedures**

The following procedures apply primarily to gasoline engine-powered boats. However, by learning and using these steps, an extra margin of safety will be realized when fueling your Bayliner yacht equipped with diesel engines.

**CAUTION!** Fuel vapors are explosive and can become trapped in the lower portions of a boat. While fueling, all doors, hatches, and portlights should be closed.

1. Be sure that you are securely moored to the dock.

2. Turn off all equipment including engines, generator, appliances, bilge blower, lights, etc.

3. Extinguish all cigarettes, cigars or other items that may produce a spark or flame.

4. Close all openings including hatches, windows, doors, and portlights.

5. Through-deck fittings are provided for fuel tank filling. Remove cap and insert fuel supply nozzle, allowing the nozzle to maintain contact with the fitting—thereby preventing possible static sparking.

6. After about 10 gallons have been pumped into the tank, inspect the engine and tank area for signs of fuel leakage. Proceed with fueling if nothing is detected.

7. On very hot days allow for expansion. Do not fill the fuel tank completely.
8. If, when filling the tank, you can’t put fuel in at a reasonable rate, check the fuel vent line to see that it’s not kinked or plugged.

9. Replace the fill cap and wash and wipe off any fuel spillage.

10. Open engine compartment and windows, doors, etc., and inspect, visually and by smell, for fuel fumes or leakage. Any sign of fuel leakage or indication of fumes should be investigated and corrected prior to starting engine.

11. Operate bilge blower for at least four minutes prior to starting engine. Leave blower on until underway and at cruising speed.

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**Fuel Capacity Table**

<table>
<thead>
<tr>
<th>Model</th>
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<tbody>
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<td>2850 Contessa Designer's Edition</td>
<td>120</td>
</tr>
<tr>
<td>2850 Contessa Command Bridge</td>
<td>120</td>
</tr>
<tr>
<td>3250 Conquest Sunbridge</td>
<td>200</td>
</tr>
<tr>
<td>3270 Motoryacht</td>
<td>200 (100port/100stb)</td>
</tr>
<tr>
<td>3450 Tri-Cabin Motoryacht</td>
<td>275 (175fwd/100aft)</td>
</tr>
<tr>
<td>3460 Trophy Convertible</td>
<td>300 (175fwd/125aft)</td>
</tr>
<tr>
<td>3870 Motoryacht</td>
<td>304 (152port/152stb)</td>
</tr>
</tbody>
</table>

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**Launching**

1. Your Bayliner yacht may be equipped with a transom drain plug. Make sure this plug is in place and tight.

2. Inspect the bottom of your new Bayliner and make a mental note of all fittings below the waterline.

3. Once in the water, immediately board your boat and inspect the compartments for signs of leakage.

4. If any leaks are noted, the boat should be removed from the water. The selling dealer should be notified so the leaks may be repaired before relaunching the boat.

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**Starting**

The engine operating and maintenance manual furnished with your boat describes pre-start and starting procedures. The following are basic reminders and not intended to cover every detail of starting—we urge you to thoroughly read and understand your engine manual.

1. Check lubricating and cooling level fluids.

2. Visually check for fuel, oil, coolant, and exhaust leaks.
WARNING: Gasoline Vapors Are Highly Explosive. To prevent explosion and fire, check engine and fuel compartments before starting for fumes or accumulation of fuel. Always operate blower for at least four minutes before starting, during starting and when operating below cruising speeds.

3. Check that seawater coolant intake valve (seacock) is open.

4. Check water separators (if so equipped) and drain as required.

5. For gas powered models, advance throttle fully to set the automatic choke (for cold engine) and then pump (advance and return lever) the throttle two to three times.

6. With throttle in start position (approximately 1/4 throttle), start the engine. Note—the engine will not start unless the gear selector is in the neutral position.

7. Do not continuously operate the starter for more than 15 seconds at a time. Allow at least three minutes for cooling between start attempts.

8. For low temperature (below 14°F/-10°C) start of diesel engines, use the preheater system. Push button and hold in for 15-30 seconds (do not exceed 30 seconds).

9. If the engine fails to start, wait one minute and try again (on gas engines, only pump the throttle once).

10. As soon as the cold engine starts, set the engine speed at 1200 rpm (for V8; otherwise, 2000 rpm for 4 cylinder or 750-1200 rpm for diesels) and check your oil pressure. Oil pressure will vary from one engine to another, but it should come up immediately. If it does not, turn the engine off!

11. With the engine running, the voltmeter should indicate a reading between 12-14 volts.

12. Check steering operation by turning wheel full port and starboard and observing your outdrive.

13. While the boat is still securely moored to the dock and engine is idling at 600-800 rpm, advance the shift control to forward, to reverse, and into neutral to check shifting operation.

WARNING: CARBON MONOXIDE IS A POISONOUS GAS. IDLING AT THE DOCK FOR LONG PERIODS OF TIME, OR RUNNING YOUR BOAT WITH THE CAMPER BACK COVER OR SLANT COVER INSTALLED WITHOUT ADEQUATE VENTILATION CAN RESULT IN DANGEROUS ACCUMULATIONS OF CARBON MONOXIDE GAS INSIDE THE BOAT. ALWAYS REMOVE THE CANVAS OR OTHERWISE VENTILATE THE BOAT WHEN OPERATING THE ENGINES.
Before You Leave

Provided you have not encountered any problems, you are almost ready to go. (If you did encounter problems, do not attempt to operate your boat until they are corrected.) Before you leave, consider the following:

1. Check the operation of equipment such as bilge pumps, running lights, wipers, etc.
2. Instruct passengers in the use and location of flotation devices and fire extinguishers.
3. Obtain a reliable weather forecast and plan accordingly for comfort and safety.
4. Notify a responsible friend, relative, marine operator, or Coast Guard of your cruise plans. Upon your return or should your cruise schedule change, notify that person in order to avoid unnecessary concern.
5. Fill potable water tanks.

Maneuvering

With all your pre-departure checks now completed, you are ready to leave the dock.

Basic Maneuvering

Remember that all boats steer by the stern (the feeling is much like steering your automobile in reverse). For example, when you turn the steering wheel to the left, the stern of the boat will swing to the right as the boat goes into a left turn. This is especially important to keep in mind when docking and operating in close quarters with other boats.

There are no brakes on a boat. Stopping is accomplished by allowing the boat to slow down (under 5 mph) and then putting the engine in reverse. Gently increasing reverse power will allow you to stop the boat in a very short distance. A boat does not respond to steering in reverse nearly as well as it does when going forward, so do not rely on being able to accomplish tight turning maneuvers when backing up.

If your boat has twin propellers, you can engage one engine in forward gear, and the other in reverse gear and turn the boat completely around in its own length if the rudder is left in the center position. You can, of course, make such a turn in either direction. Port engine forward and starboard engine in reverse spins you clockwise. Starboard engine forward and port engine in reverse spins you counterclockwise. You can accentuate the spin by full rudder in the spin's direction.
Once you are away from the dock, devote some time to learning how to maneuver.
- Practice docking by using an imaginary dock.
- Practice stopping.
- When operating in close quarters or docking, all maneuvering should be done at idle speed. Proceed with caution in congested areas.
- Gradually increase your speed. Get used to the boat before any full throttle operation.

**Docking**

**Preparation:**
Proper docking begins with proper preparation. Start by making sure you have adequate equipment, and that it is stowed correctly and ready for use. Your dealer is the best source for the amount and type of equipment you should carry.

**Approaching the Dock:**
When approaching a mooring area, lower your speed within a reasonable distance to allow your wake to subside before it reaches other boats or docks. As you get close to your moorage check the wind and any tide current action that may affect your maneuver and make a conservative approach with these factors in mind. Try to use the elements to your advantage. Allow them to carry the boat into the dock. If there are high winds or strong currents, it is best to approach the moorage from the lee side. With a mild current or little or no wind it is best to approach from the windward side. When approaching check to see that all lines are attached to the cleats on the side that you will be mooring and that fenders are lowered on that side. Be sure to check that the fenders are hung at the proper height.

As you approach your mooring it is desirable to have a person on the bow
and the stern of the boat with a boat hook and a mooring line attached to a cleat. Approach at idle RPM in forward at approximately 45 degrees to the dock. When the bow is within a few feet of the dock (starboard side), the stern can be brought alongside the mooring by turning hard to port. Next turn to starboard and at idle RPM put the boat into reverse. This will stop the boat and bring the stern even closer to the dock. These steps are reversed for docking to port.

Mooring:
Attach lines to deck cleats by making a loop in one end, large enough to pass through the hole in the base of cleat and back over entire cleat. The line now can be used to secure your boat. Lines may be kept this way while running as long as they are coiled and cannot become fouled in gear or props. In heavy sea conditions, all lines should be removed from decks.

TIP: Tie up by running line from boat, around dock cleat, and back to boat. This way you can untie without jumping from deck to dock and back aboard. Just cast off one end and then bring the whole line on board.

Leaving the Dock:
Be aware of wind, tide, current or other forces that affect your direction when leaving the dock and account for this in your maneuvering. Most maneuvering to and from a dock is best accomplished at idle speeds.
Do not forget to release mooring lines and stow bumpers.
When leaving a mooring on your starboard side and your bow cannot be pushed away from the dock first, start forward with wheel to starboard for two or three feet. Then shift to reverse with steering full to port. Repeat if necessary to get the stern far enough away from the dock so you can back clear of any other boats that may be moored ahead of you. (Reverse wheel directions when leaving port docking.)

Boat Performance

Boat speeds are affected by a great many factors. Some, such as temperature and altitude, you cannot change but some factors you can:

1. Loading: Take only the necessary equipment with you. Keep weight low in the boat and balanced.

2. Propeller: Keep it in good repair and the correct pitch for your particular situation. The factory standard equipment propeller may not be the best for your particular boat and load conditions. If the engine RPM at full throttle is less than the maximum rating, try a prop of less pitch. If the engine RPM exceeds the maximum rating, try a prop of greater pitch.

   A slightly bent or nicked propeller will adversely affect the performance of your boat.

3. Weeds, barnacles and other growth: Keep your boat bottom clean. When your boat starts "growing grass" it will slow down greatly.
Boat Running Attitude

1. If your boat runs with its bow too high at cruising speeds, the following suggestions will help you lower the bow:

   • Move weight forward in the boat.
   • Adjust trim tabs. (See Trim Tab section below.)
   • Adjust thrust angle of your outdrive—reduce distance between bottom of transom and drive unit.

2. If your boat runs with its bow too low at cruising speeds (usually indicated by water coming off the hull way forward and the boat being difficult to steer—veering off course), you can raise the bow by performing the opposite of above.

Trim Tabs

Trim tabs are intended for corrections to boat trim on the port and starboard axis with very minor changes in pitch or fore-and-aft attitude. For major corrections, redistribute loads.

1. If tab position is unknown, when idling away from the dock, put your tabs in the full bow-up position.

2. After power is applied and boat is cruising, push appropriate tab button to level the boat on lateral axis. Several short touches of the tab button are recommended. Allow the boat to react to the new position of the trim tab after each touch. When installed under manufacturer's recommendation, the port button on the trim tab switch operates the starboard trim tab and vice versa.

3. Both tabs can be lowered slightly to lower bow. Forcing the bow down with tabs will cause steering difficulty and a loss of efficiency.

4. When running in a following sea, run tabs in full bow-up position.

   **WARNING:** IMPROPER USE OF TRIM TABS CAN CAUSE A LOSS OF CONTROL. DO NOT USE TRIM TABS IN A FOLLOWING SEA AS THEY MAY CAUSE BROACHING OR OTHER UNSAFE HANDLING CHARACTERISTICS. DO NOT ALLOW THOSE UNFAMILIAR WITH TRIM TABS TO OPERATE THEM.

Steering Wheel Pressure

Sterndrive models can be adjusted so there is no pull on the wheel at one given speed or trim angle. This is done by turning the trim tab on the lower unit in the direction the wheel is pulling. Small adjustments should be made until the steering has neutral torque at the speed you desire. (We suggest using your normal cruising speed.) When running faster or slower than this speed, a minimal amount of torque will be present.
Instruments

While under way, instruments should be checked frequently for possible indications of trouble.

1. **Tachometer**—A tachometer is an electrical instrument that indicates engine revolutions per minute (RPM). The tachometer is useful for monitoring engine speed to avoid exceeding the maximum RPM rating. In addition, it can be used to detect performance changes by comparing speedometer readings at various RPM's.

2. **Temperature Gauge**—The temperature gauge indicates engine coolant temperature by monitoring a signal from a sending unit installed in the engine water jacket. When the gauge reads in the danger area, shut the engine off and diagnose the problem. A common cause of overheating is picking up a foreign object in the seawater intake. Usually, raising and lowering your outdrive will free it. Backing up in reverse gear then pulling ahead in forward gear for 10-15 feet is helpful, too. On those twin engine powered boats equipped with a hot water system whereby the cooling system of one engine is plumbed through the hot water tank to heat freshwater, the temperature gauge for that engine will read a different operating temperature than the other engine.

3. **Oil Pressure Gauge**—The oil pressure gauge indicates pressure by monitoring a signal from a sending unit. When gauge reads in the low pressure area, shut the engine off and diagnose the problem.

4. **Fuel Gauge**—The fuel gauge indicates fuel level. Since boats are exposed to rough water conditions and varying trim, fuel gauges may provide inaccurate readings at times. It is always good to keep track of your running time as a double check against an inaccurate gauge.

Dual Station Operation

Always start the boat at the station from which you will be operating. Remind anyone near the unattended control station to "KEEP HANDS OFF". When leaving one station to begin operating at the other, bring the boat to a complete stop. Never leave the helm while the boat is underway and assume that someone else has the boat under control. If you are operating your boat from the bridge and you encounter heavy sea conditions, you should bring your boat down to an idle, point it into the sea and have any bridge passengers move down to the cabin. If sea conditions become very heavy, you should also leave the bridge and operate your boat from the lower station. Children left unattended below should be made to wear life jackets.

Diesel Engine Shut-Down

1. Cool the engine down gradually,* allowing it to idle in neutral for at least five minutes.
WARNING: It is important to follow steps 2, 3, 4, and 5 in sequence to avoid possibility of electrical system damage.

2. To turn engine off, push the stop button.

3. After engine stops, turn the ignition key counterclockwise to the off position.

4. Turn off DC ignition breaker switches.

5. Turn the battery switch off.

6. Close seawater intake valve.

7. Close fuel supply valves.

8. Carefully inspect engine and compartment for indications of oil, fuel, water, or exhaust leakage.

NOTE: Steps 6, 7, and 8 need not be followed for short term shut-down (overnight).

*Gradual cool-down of a turbocharged engine is very important!

COMPONENTS/SYSTEMS

Electrical System (12 Volt)

Although Bayliner manufactures many different model powerboats the electrical systems on all models operate on the same basic theory.

1. Battery:
   Twin engine gas powered models are equipped with one battery used for starting and ignition on both engines and is charged by the port engine. Another battery is used for accessories and is charged by the starboard engine.

   Each battery is connected to a vapor proof switch. This circuit is fused in-line (AGC 10 amp) adjacent to the main battery switches. The fuse is marked "battery charger" and is not to be confused with the 110 volt battery charger.

   On the 3450, 3460 and 3870 models, three ON-OFF battery switches and two batteries are provided. A battery is used for starting and ignition on both engines and is charged by the port engine. A battery is used for accessories and is charged by the starboard engine. The third battery switch is a crossover switch between the start and accessory battery and is used to start the engines if the start battery goes dead. The crossover switch should be turned on only in emergencies. Leaving this switch ON can result in all onboard batteries being exhausted.
On 2850 models the condition of the battery can be read on the voltmeter when the ignition is in the ON position. On models 3250 through 3870 the condition of the main starting battery can be read on the voltmeter marked "ENGINE CIRCUIT", when the engine battery switch and the port ignition switch are in the ON position. The condition of the accessory battery can be read on the voltmeter marked "ACCESSORY CIRCUIT" when the accessory battery switch is in the ON position. The starboard ignition switch does not have to be ON to read the accessory battery condition.

With the engine not running, voltmeter readings in the 11.5 to 12.5 volt ranges are considered normal. Readings in the 10 to 11.5 volt range indicate a marginal charge condition. Readings below 10 volts indicate a serious discharge condition.

With the engine running (over 1500 rpm) voltmeter readings of 13 to 14 volts are considered normal. Readings below this indicate a severely discharged battery or a nonfunctioning charging system.

Check the battery water level regularly by removing the caps. If the zinc plates are exposed, add distilled water. Corroded battery terminals can also let you down. Clean them with baking soda and water, and coat them with a preservative or a light film of grease. Be sure all battery connections are tight. When storing the boat, it is best to remove the battery, give it a full charge, and store it inside away from extreme temperatures.

2. **Battery Charger:**
On 2850 models the automatic battery charger is normally connected to the main power lead at the fuse block behind the instrument panel. (If a battery selector switch is installed the battery charger output should be reconnected to the common terminal of this switch or no charging will occur when the switch is OFF.)

On 3250 - 3870 models the battery charger operates when the 110 volt dockside power is connected and the battery charger circuit breaker is ON. On those models equipped with a generator, the battery charger operates when the AC source selector switch is on "Generator", the generator is running, and the battery charger circuit breaker is ON. The battery charger will charge the batteries regardless of the battery switch position. The battery charger has two isolated outputs and charges both batteries simultaneously, as required.

3. **Fuse and Circuit Breakers (12 Volt):**
On 2850 models the engine and accessory circuits are protected by a large circuit breaker located on the engine. In addition, the power tilt motors on all Volvos are protected by a fuse. Fuse blocks on these models are located behind the instrument panel (at both stations on bridge model boats). The fuses are marked as to which accessory they protect. AGC 10 amp fuses are used on all standard equipment accessories.
Electrical power for trim tabs is taken directly off the battery and is fused in-line at the battery.

Some equipment, such as the stereo, CB radio, and depth sounder, are individually fused. Literature specific to the equipment should be referred to for information.

On models 3250 through 3870 the engine circuits are protected by a large circuit breaker located on the engines. The accessory circuits are separate from the engine circuit and are protected by a large circuit breaker located at the main battery switches. The ignition circuits are protected by a fuse located on the back of the instrument panel in an in-line fuse holder at the ignition switch or in the main fuse block.

The fuses or breakers for these models are located on the face of the instrument panel, except model 3270, which has two fuse blocks behind the instrument panel. The main power supply for the accessories is protected by a large circuit breaker which is located at the main battery switch. Also located at the main battery switch are in-line fuses for the accessory battery charging circuit and the automatic switch for the bilge pump. On the 3250, the blower and Volvo drive lift controls are fused in-line behind the instrument panel and receive power from the engine circuit.

Optional accessories are fused at the instrument panel with the exception of the power windlass which has its own control switch panel and is protected by a circuit breaker at battery switches.

Electrical System (110 Volt AC)

The AC system is energized by either shore power or the on-board generator (optional on some models).

Shore power receptacles are either 30 or 50 amp and appropriate power cords are furnished. Since not every shore installation has 30 amp service, we recommend that 15 and 20 amp adapters be purchased.

When connecting to shore power, turn off main circuit breakers. Always attach the cord to boat first, then attach the cord to the shore outlet, thereby avoiding accidental dropping of a "hot" cord into the water. Correspondingly, remove the end at the dock outlet first. After connection to shore power, check "dockside polarity" indicators before turning on main circuit breakers.

Whether using shore power or the generator, the simultaneous operation of several 110 volt accessories can result in an overloaded circuit. It might be necessary to turn off one accessory while operating another.

All models with a 110 volt receptacle in the head are equipped with a ground fault interrupter to protect users from electric shock. This device will also protect other labeled outlets.
Generator

The literature package supplied with your boat has a very complete operator's manual for your generator. We urge you to read this manual prior to initially operating your generator. Some highlights concerning your generator are:

1. Follow instructions in the operator's manual for pre-start checks and break-in procedures.

2. For gas generators, be sure to operate the blower for at least four minutes before starting.

3. Never operate the starter switch for more than 30 seconds. If generator does not initially start, wait at least 30 seconds before another attempt.

4. In addition to servicing the filters attached to the generator, any separate filter/separators should be serviced as indicated by the instructions included in your literature package.

5. The coolant mixture installed at the factory consists of equal parts water and antifreeze.

6. The seawater intake valve must always be open during generator operation, and the seawater strainer should be frequently checked for debris.

Hot Water Heaters

On all models the hot water heater is connected to the 110 volt power system. For boats equipped with freshwater cooling, the hot water heater system may also be pumped to the engine cooling system. Heaters should be kept full of water to avoid damage to heating elements. They should also be drained (power turned off) when the possibility of freezing exists.

Air Conditioning/Heating

On boats equipped with optional air conditioning, both heating and cooling are controlled at each panel.

To operate the system, proceed as follows:

1. Be sure the seawater inlet valve is open and 110 volt panel circuit breaker switches are OFF.

2. Set the control switch at each location to OFF.

3. Turn on main circuit breaker on 110 volt panel.

4. Turn "Thermostat" fully clockwise for cooling or fully counterclockwise for heating.
5. Set fan speed control on "high" position.

6. Turn the control knob to "start". This energizes the fans and the seawater pump. Check the overboard discharges to be sure that water is flowing through the condensing units.

7. Turn the control knob to "run". The compressor will start to cool or heat according to the setting of the thermostat.

8. To set the thermostat, allow sufficient time for the unit to operate to heat or cool the area to the desired temperature. When the area is sufficiently heated or cooled, turn the thermostat knob slowly to the center position until it "clicks" once. The thermostat is now set to maintain a constant temperature.

9. Select a fan speed desired. When operating on the heat cycle, allow the unit to run on low fan for 5 to 15 minutes until it begins to heat well. Then increase fan to efficient heat output. On the cooling cycle, use any fan speed desired. Keep in mind, however, that the lower the fan speed, the less capacity the system has.

10. To turn the system off, turn the system switch on the switch assembly to OFF. Do not use the circuit breaker switches on the 110 volt panel to directly turn the system off or on.

Fuel Systems

CAUTION: It is very important that the fuel system be inspected thoroughly at the time it is first filled and then at each subsequent filling. We recommend for your safety and the safety of your passengers that the "Fueling" instructions of this manual must be followed.

1. Fuel Fills and Vents:
   Fuel fills are located either on the aft deck or on the side decks and are marked "Fuel" or "Gas". Fuel vents are normally located in the hull or transom below and in the same general area as the fill. If you experience difficulty filling the fuel tank, you should check to see that the fuel fill and vent lines are free from obstructions and kinks.

2. Antisiphon Valves:
   As required by the U.S. Coast Guard, the fuel systems on all gas powered boats are equipped with an antisiphon valve. This valve is an integral part of the barb fitting on the fuel tank to which the neoprene fuel line attaches. The valve is spring loaded and is opened by fuel pump pressure. These valves will prevent gasoline from siphoning from the fuel tank in the event of a fuel line rupture.
NOTE: If an engine running problem is diagnosed as fuel starvation, the antisiphon valve should be checked. In the event the valve is stuck or clogged it should be cleaned or replaced with the engine off. Under no circumstances should it be removed except in an emergency.

3. Fuel Filters:
All fuel tanks installed by Bayliner are equipped with a fine mesh screen filter on the fuel pick-up tube in the tank. In addition, when supplied by the motor manufacturer, an additional filter is installed on the engine. Fuel filters should be checked periodically to see that they are clean and free of debris.

4. On those models equipped with inboard engines, two fuel tanks are used. The fuel lines from these tanks are run to a manifold made up of two OFF/ON valves and a crossover valve. If the boat is equipped with the optional generator there is also a valve on the manifold for the generator fuel line. Under normal conditions, the boat should be run with the main valves open and the crossover valve closed. If for some reason one of the tanks runs dry, the valve to that tank can be shut, the crossover opened and both engines run off the tank with fuel. When running two engines off one tank, you should run the engines at lower RPM’s.

CAUTION: Avoid the storage or handling of gear near the fuel lines, fittings and tanks.

5. Diesel Fuel:
The diesel fuel systems utilized in Bayliner boats are similar in many ways to the gas system. Diesel engine operation requires a return fuel line from the engine to the tank. Thus, the fuel system has two lines between the engine and the tank instead of one. The diesel fuel tanks are not fitted with antisiphon valves. Fuel filters are utilized in every diesel installation. It is very important that the filters be checked and cleaned regularly.

The best advice for fuel tank maintenance is make sure that the source of supply is reputable and can be relied upon to furnish clean, proper, high quality fuel. Also, once you have found such suppliers, keep your tank as full as possible with their fuel. Then, if you are forced to add to the tank with a potentially poor quality supply, the portion of poor quality fuel will be minimized.

Diesel fuel of ASTM grade 2-D is recommended. The minimum cetane value is 40 (45 for cold temperature operation), and the maximum sulfur content is 0.5%. If sulfur content exceeds 0.5% oil changes should be performed twice as frequently as indicated in the engine manual.

It is important to prevent air from entering the fuel supply system causing poor performance or an engine that will not run. Should air be introduced into your fuel lines, detailed instructions for "bleeding" can be found in your engine manual.

Consult your dealer or local marina concerning fuel additives intended to prevent fungus or other growth in your fuel tanks.
Shaft-Transmission Alignment (Inboard Engines)

Alignment between your engine transmission output shaft and the propeller shaft is very critical. Although this alignment has been carefully performed at the factory, it should be checked again after the boat has been in the water for 48 hours. Alignment inspection should be performed as routine maintenance (after initial 30 hours of operation, then every 60 hours) and whenever unusual noise or vibration is noticed. To insure proper alignment when the boat has been launched after a haul-out or dry storage, wait for 48 hours before making final adjustments.

Proper alignment is usually achieved by moving the engine. We recommend that alignment be performed by an experienced marine mechanic. However, checking alignment is relatively easily done by following these procedures:

1. Remove the flange bolts at the transmission to shaft coupling and slide the shaft aft until the flanges are separated by about 1/4".

2. Rotate the shaft to see if there is obvious "wobble" of the shaft flange, indicating shaft damage.

3. Move the shaft up and down and from side to side to determine, as closely as possible, the central position where the shaft is normally located. At this position, the transmission flange should align with the shaft flange without moving the shaft to either side or raising it more than 1/8". If this is not the case, a misalignment condition exists.

4. Move the shaft flange into contact with the transmission flange. Check for gap between flange faces by attempting to insert a .003" feeler gauge at the tcp, bottom and each side. Repeat this operation after rotating the shaft flange 1/4 turn (3 times). Misalignment is indicated when the feeler gauge is easily inserted at any point.

Shaft Log Stuffing Box Packing (Inboard Engines)

The propeller shaft emerges from the bottom of the boat through an opening called the shaft log. The shaft stuffing box is connected to the shaft log by a short length of special flexible hose. Packing rings are compressed around the shaft by the packing nut. The "Stuffing Box" prevents excessive amounts of water from leaking around the shaft and into the boat.

Normal wear can cause the stuffing box leakage to increase. It can usually be stopped by loosening the locknut, tightening the packing nut slightly, and then resetting the locknut tightly. Do not overtighten, bear in mind that a slight leak (up to 10 drops per minute while running) helps to lubricate the packing and is therefore desirable.

When stuffing box leakage becomes excessive, even after following the above steps, packing replacement can be performed as follows:

1. Remove boat from the water.

2. Loosen locknut and back packing nut off the sleeve. Remove old packing.
3. Wrap new packing around shaft and cut rings with a razor blade at approximately 30 degrees to long axis of shaft. Stagger ends of each ring and insure rings are fully seated in packing nut recess.

4. Tighten packing nut by hand only until resistance of packing contacting the stuffing box is felt. Tighten locknut securely.

5. When initially launched, the packing must be allowed to leak at a rate of about 5 to 30 drops a minute as it will expand and seal from water contact and friction heat of the turning shaft. Failure to allow this leakoff will result in packing burnout after a short period of running.

**Rudder Stuffing Gland (Inboard Models)**

As in the case of the shaft log stuffing box, the rudder stuffing gland is part of the assembly where the rudders emerge from the bottom of the boat.

It is very similar to the propeller shaft stuffing box and will require the same maintenance. Since it obviously does not receive the same wear as the propeller shaft, repacking is seldom required. This shaft stuffing gland should not leak water.

**Steering**

Your steering system is not power steering. At no time should you expect this system to turn as easily as a car’s power steering.

If rhythmic pulsing is noticed when turning the wheel, this is the standard operation of the pump and not a malfunction. Also, at times when coming off a hardover position, a resistance is felt followed by a distinct sound. This is a normal situation resulting from the release of the check valve.

The fluid reservoir for some steering systems is usually located in the aft end of the engine compartment. Following instructions in your literature package and on the reservoir, check fluid level and pressure regularly.

**Refrigerator**

The refrigerator used by Bayliner operates on 110 volt AC and 12 volt DC power. When the 110 volt system is not operating, the refrigerator operates on 12 volts. When an AC source is supplied, by a generator or dockside power, the refrigerator automatically switches to 110 volt.

The refrigerator is the heaviest continuous draw on the 12 volt DC system. If no other 12 volt accessories are used, the refrigerator can draw a battery dead in less than 24 hours. For this reason it is recommended that when operating on 12 volts, the cold setting on the refrigerator should not be set higher than position two. It is also advisable to turn the refrigerator off at night. If you are going to be out more than one day and cannot connect to dockside, you should plan to run your generator or engines to maintain a charged battery.

**Seawater Strainers**

Seawater strainers should be periodically checked for debris. Depending
on the boat model, there may be strainers for engines, for the generator, for the air conditioning system (option), and for the seawater washdown pump.

**Exhaust System (Inboard Engines)**

Your exhaust system is designed to keep water out of the engines in most conditions. It operates with a special check valve, or flapper valve, that protects the engine from backwash. However, care should be taken not to anchor stern to sea, and the engines should not be shut off if the seas are too high. Always use good seamanship and consider the seas before anchoring or shutting off the engines.

Check all of the clamps the first 20 hours. Check exhaust system clamps periodically and check the flapper to see if it is operating properly.

**Marine Head with Holding Tank**

The marine head with holding tank is designed so waste may be flushed into the holding tank or, for those traveling where regulations permit, flushed overboard. This is accomplished by routing the head discharge hose through a "Y" connector to the holding tank or overboard. There are valves in each of these lines. To flush waste overboard the gate valve to the tank must be closed and the through-hull seacock should be open. To flush into the holding tank, close the through-hull seacock and open the gate valve to the holding tank. To empty the holding tank the boat must be taken to a pump out station. We suggest that you leave discharge seacocks normally closed to prevent inadvertent overboard discharge.

To operate the marine head, open the seacock on the seawater intake. Before using, pump some water in to wet the bowl. After using, pump until thoroughly cleaned. Pump a few more times to clean lines. If excess waste should cause water to rise in bowl, stop pumping until water recedes.

If at any time you are unable to pump water into the bowl, the probable reason is debris sucked into the pump diaphragm. To remedy, shut inlet seacock and dismantle pump. Pump is generally held together with six screws. The design is simple and the problem will be obvious when pump body is split open.

To winterize toilet, shut off intake valve. Pump until dry. Remove drain plug in base and pump again to remove all water. Do not use antifreeze. The inlet seacock should be closed while the boat is underway or when the boat is left moored in the water.
### Holding Tank and Valve Location Table

<table>
<thead>
<tr>
<th>Model</th>
<th>Cap. (Gal.)</th>
<th>Location of Hold. Tank</th>
<th>Location of Inlet Seacock</th>
<th>Location of Discharge thru Hull</th>
<th>Location of Y-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2850 Contessa Designer's Edition</td>
<td>13</td>
<td>stb side aft berth access</td>
<td>head compartment</td>
<td>stb side midship</td>
<td>stb side aft berth access</td>
</tr>
<tr>
<td>2850 Contessa Command Bridge</td>
<td>13</td>
<td>port side beneath dinette</td>
<td>beneath cabin sole thru access hatch</td>
<td>beneath cabin sole thru access hatch</td>
<td>beneath dinette thru access hatch</td>
</tr>
<tr>
<td>3250 Conquest Sunbridge</td>
<td>13</td>
<td>stb side engine well</td>
<td>under head access</td>
<td>stb side aft</td>
<td>stb side aft access</td>
</tr>
<tr>
<td>3270 Motoryacht</td>
<td>13</td>
<td>beneath salon stb side access</td>
<td>beneath salon stb side access</td>
<td>beneath salon stb side access</td>
<td>beneath salon stb side access</td>
</tr>
<tr>
<td>3450 Tri-Cabin Motoryacht</td>
<td>36</td>
<td>beneath shower &amp; stb side aft</td>
<td>by stb engine &amp; beneath port st'trm</td>
<td>beneath v-berth &amp; aft of head</td>
<td>beneath v-berth &amp; outbd of head</td>
</tr>
<tr>
<td>3460 Trophy Convertible</td>
<td>34</td>
<td>beneath shower</td>
<td>beneath port stateroom</td>
<td>beneath V-berth</td>
<td>beneath V-berth</td>
</tr>
<tr>
<td>3870 Motoryacht</td>
<td>36</td>
<td>beneath forward cabin sole</td>
<td>beneath galley sole</td>
<td>behind galley stb side</td>
<td>beneath galley sole</td>
</tr>
</tbody>
</table>

### Potable Water System

The water filter should be frequently inspected and cleaned as required. When connected to a dockside water supply, the DC power switch for the water pump is best left in the OFF position.

Sinks and showers ("gray water") drain overboard. Sinks above the waterline are gravity drain, and sinks and showers below the waterline are pump drained. Drain pumps should be turned OFF after the shower or sink is drained.

Water tanks on most models do not have level indicators. Therefore, water tanks should be topped off at every opportunity to avoid the possibility of running short of potable water.
When your boat is to be left unattended for an extended period of time, it is advisable to pump the water tanks dry to prevent stored water from becoming stagnant and distasteful.

<table>
<thead>
<tr>
<th>Model</th>
<th>Location</th>
<th>System</th>
<th>Water Fill Location</th>
<th>Capacity (gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2850 Contessa</td>
<td>V-berth</td>
<td>demand pump</td>
<td>bow deck</td>
<td>30</td>
</tr>
<tr>
<td>Designer's Edition</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2850 Contessa</td>
<td>under cabin</td>
<td>demand pump</td>
<td>stb deck</td>
<td>30</td>
</tr>
<tr>
<td>Command Bridge</td>
<td>sole midship</td>
<td></td>
<td>midship</td>
<td></td>
</tr>
<tr>
<td>3250 Conquest</td>
<td>engine room</td>
<td>demand pump</td>
<td>port deck</td>
<td>45</td>
</tr>
<tr>
<td>Sunbridge</td>
<td>sole aft</td>
<td></td>
<td>aft</td>
<td></td>
</tr>
<tr>
<td>3270 Motoryacht</td>
<td>under cabin</td>
<td>demand pump</td>
<td>stb deck</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td>sole midship</td>
<td></td>
<td>midship</td>
<td></td>
</tr>
<tr>
<td>3450 Tri-Cabin</td>
<td>under floor</td>
<td>demand pump</td>
<td>stb deck</td>
<td>62</td>
</tr>
<tr>
<td>Motoryacht</td>
<td>midship</td>
<td></td>
<td>midship</td>
<td></td>
</tr>
<tr>
<td>3460 Trophy</td>
<td>under floor</td>
<td>demand pump</td>
<td>stb deck</td>
<td>62</td>
</tr>
<tr>
<td>Convertible</td>
<td>midship</td>
<td></td>
<td>midship</td>
<td></td>
</tr>
<tr>
<td>3870 Motoryacht</td>
<td>under galley</td>
<td>demand pump</td>
<td>stb deck</td>
<td>86</td>
</tr>
<tr>
<td></td>
<td>sole midship</td>
<td></td>
<td>midship</td>
<td></td>
</tr>
</tbody>
</table>

Pressure type (demand) systems operate at any time the electrical switch is ON. When not using the boat, or when tank is dry, be sure the switch is OFF. Pressure pump switches are located in the galleys on all models. On those models with showers, the shower sump switch is located in the head.

**Starter Motor**

The engine starter motor is designed to deliver high horsepower for only very short intervals. Avoid operation for more than 15 seconds at one time. Due to its high horsepower this motor builds up considerable heat and can be permanently damaged with prolonged use. If it does not operate, check the battery charge and all direct wiring for shorts or loose connections. If excess bilge water is allowed to accumulate, the starter can be damaged. Automatic bilge pumps are recommended for boats left in open moorage.
Bilge Blower

The bilge blower removes fumes from the engine compartment and draws fresh air into the compartment through the deck vents.

The bilge blower is to be used before starting the engine, during starting, and while the boat is operating below cruising speed to ensure fresh air circulation. Operate the blower for at least four minutes before starting the engine.

WARNING: Operation of the blower is NOT A GUARANTEE that explosive fumes have been removed. If you smell any fuel, shut off all electrical accessories and engine and investigate immediately.

Bilge Pump

The electric bilge pump supplied with your Bayliner is of an impeller type. If bilge water is present and the pump motor is running but not pumping, check to see if it is clogged by debris. If it is clear but still does not pump, check the discharge hose for kinks or a collapsed area.

NOTE: The Federal Water Pollution Control Act prohibits the discharge of oil or oil waste into or upon the navigable waters and contiguous zone of the United States if such discharge causes a film or sheen upon, or discoloration of, the surface of the water, or causes a sludge or emulsion beneath the surface of the water. Violators are subject to penalty of $5000.

Running Lights

Although the night lights or navigation lights supplied with your Bayliner are of top quality, failure may occur for a variety of reasons:

1. You may have blown a fuse.
2. The bulb may be burned out.
3. The bulb base may be corroded.
4. A wire may be loose due to vibration or mis-stowed gear.

NOTE: Prolonged operation of cabin interior lights (overnight) will result in a dead battery. Be conservative in the use of battery power.

Alcohol Stoves

Carefully read and follow manufacturer’s operating instructions supplied with your stove, and consider the following:

1. Use only denatured alcohol labeled specifically for marine use.
2. Do not operate the stove while underway.
3. Do not fill stoves near an open flame or hot object.
4. All alcohol spilled should be wiped up prior to lighting the stove.
5. Do not put cooking utensils on stove until burners are lit and functioning properly.
   
   **CAUTION:** On pressure type alcohol stoves, flare-up may occur during preheating, particularly if burner valve is opened before preheating is completed. If flare-up occurs, shut off burner and restart.

**Electric Stoves**

Stove top must be down. Lift lower end of latch to unlock it. Left electric control knob operates the high speed left burner and the right control knob operates the low speed right burner. The burners will cycle on and off during operation. When finished cooking, be sure both knobs are OFF and the indicator lights are out.

**Propane Stoves**

The propane system is a very safe and simple system. A solenoid shutoff valve has been included as standard equipment on the propane system. The shutoff valve is actuated by a switch located on the galley face. To operate, the main power switch plus the range switch on the 12 volt accessory panel must be ON. By turning the switch OFF, propane is turned off instantly at the tank. It is important that the stove instructions, provided as part of the owner's package, be read completely before operating the stove.

**Loading Limits**

1. **Command bridges:**
   - 1000 pounds maximum for model 3870.
   - 700 pounds maximum for all other models (2850-3460).
2. **Hardtops:**
   - 100 pounds maximum.
3. **Transom platforms:**
   - 250 pounds maximum.
4. **Auxiliary outboard motor (transom platforms with molded outboard brackets):** 10 horsepower maximum.

**GENERAL MAINTENANCE AND REPAIRS**

In addition to instructions found elsewhere in this manual and in the literature specific to certain components, the following information is provided for general maintenance and repair.

Because conditions vary widely in different areas and frequency and type of use can differ greatly between owners, intervals for maintenance are not stated herein. Common sense often should determine the frequency of maintenance.
Bilges/Engine Compartment

1. Pump bilges dry and remove all loose dirt. Be sure all limber holes are open. If there is oil in the bilge and the source is not known, look for leaks in engine oil lines or engine gaskets. Oil stains are best removed by use of a bilge cleaner available from your dealer or a marina. Do not use flammable solvents.

2. Check all wiring to be sure it is properly supported, insulation is intact, and there are no loose or corroded terminals. If there are corroded terminals, they should be thoroughly cleaned with sandpaper or replaced. Tighten securely using a lock washer and spray with WD-40 or similar preservative.

3. Inspect the entire fuel system (including fill lines and vents) for any evidence of leakage. Any stains around joints could indicate a leak. Try a wrench on all fittings to be sure they are not loosening, but do not overtighten. Clean fuel filters and vent screens. Operate all valves to be sure they are in good condition.

4. Inspect the entire bottom for evidence of seepage, damage or deterioration, paying particular attention to hull fittings, hoses, and clamps. Straighten kinked hoses and replace any that do not seem pliable. Tighten loose hose clamps and replace those that are corroded. Tighten any loose nuts, bolts, or screws. Operate seacocks to be sure they are in good condition.

5. Refer to your engine operating manual for details of maintenance. Wipe off engines to remove accumulated dust and grease. If a solvent is used, make sure it is nonflammable. Go over the entire engine and tighten nuts, bolts, and screws, including the mounts. Inspect the wiring on the engine and clean and tighten terminals. Inspect belts and tighten if needed. Replace any belt that is cracked or frayed. Clean and lubricate battery terminals; fill cells with distilled water as needed.

Cabin and Topside Areas

1. Test all electrical equipment and appliances to make sure they operate properly. Inspect all wiring for proper support, sound insulation and tight terminals. Pay particular attention to portable appliance cords and plugs.

2. Inspect and operate heads, basins, showers, sinks, and freshwater system, including tank. Check and operate water pumps, including shower pump and sink drain pumps. Check all water lines and connections for leaks and make sure all connections are secure.

3. Check bow rails, ladders, and grab rails for loose screws, breaks, sharp edges, etc., that might be hazardous in rough weather. Inventory and inspect life jackets for tears and deterioration. Check your first aid kit to make sure it is complete. Check signalling equipment. Inspect anchor lines, mooring and towing lines and repair or replace as required. DO NOT stow wet lines or they may mildew and rot.

4. Salt and brackish water are capable of etching and damaging window glass. Keeping windows clean is the best preventive measure you can
take. When cleaning, flush with plenty of freshwater.

To clean plexiglass, which is being used with much more frequency because of its safety and weight, caution should be exercised because of its tendency to scratch.

First, use generous amounts of water to wash off as much dust as possible. Use your bare hands with plenty of water to dislodge any caked dirt. Then use a soft grit-free cloth or clean soft sponge with a detergent or nonabrasive type soap. Dry with a clean damp chamois, with a blotting action. Never use a glass cleaning solution or a duster as they will scratch the surface. Remove any grease or oil with kerosene or hexane. DO NOT use solvents such as acetone, benzine, carbon tetrachloride, fire extinguisher fluid, dry cleaning fluid, or lacquer thinner since they will attack the surface.

5. To keep teak looking fresh, it should be treated with teak oil at least twice a year (more often if exposure is severe). If the teak is in particularly bad condition, the teak oil should be rubbed in using 220 grit wet and dry sandpaper.

6. Use nearly any of the metal cleaners on the market today to spruce up hardware. After a good cleaning, a coat of paste wax will add greatly to its luster. All metal fittings, including dash panel, instruments, railings and hardware, should be sprayed with a rust inhibitor similar to WD-40. If not maintained on a regular basis, stainless steel railings and fittings will discolor.

7. A variety of high quality fabrics have been used in the construction of your boat. Proper care and cleaning of all fabrics will contribute to their long life.

Prior to cleaning any fabric we suggest that you test your cleaning solution and method on a hidden or inconspicuous area.

Fabric tops, windshield covers and component covers, as well as vinyl upholstery, can be cleaned using a regular vinyl cleaner. Vinyl cleaners may be obtained in grocery or auto parts stores. To prevent rainwater seepage at the seams, a coating of "Scotch Guard" can be applied to the seams on the inside of the vinyl. Mildew can occur if your boat does not have adequate ventilation. Heat alone will not prevent mildew. If mildew does occur, it can be removed using a solution of hot water and "Clorox" (one cup of "Clorox" to one gallon of hot water). Brush into affected area, let set for 10 to 15 minutes and rinse with freshwater. If at all possible, the vinyl top parts of your boat should be stored indoors in a fairly warm, dry place. This will greatly extend the life of the material.

Dry cleaning should be considered for interior fabrics other than vinyl.

8. Your marine instruments have been designed and constructed of the best possible materials and with proper care will give you years of trouble free operation.

When instruments are exposed to a saltwater environment, salt crystals may form on the bezel and the plastic covers. These salt crystals should be removed with a soft damp cloth; never use abrasives or rough dirty
cloths to wipe plastic parts. Mild household detergents or plastic clean-
ers can be used to keep the instruments bright and clean.

**Hull**

1. The finish on the fiberglass boat is similar in character to that of an auto-
mobile and will respond to the same system of care and cleaning. Car
waxes and cleaners are often used to maintain a sparkling finish. Also, a
variety of polishes and cleaners for fiberglass are now on the market.
Some are very good and we suggest you experiment with different
brands to determine what you like best.

2. Almost unavoidable during the life of your boat is damage to the gelcoat
or colored surface. This is not as serious as you might think. Repair is not
costly and can be done by the novice.

*Scratches:* If the scratch does not penetrate the gelcoat surface, use
automotive rubbing compounds. Dampen a soft rag and apply rubbing
compound with plenty of "elbow grease". The scratch may not disappear
completely, however, its noticeability will decrease.

*Gouges and Chips:* To repair, simply obtain "Patch Paste" from your
Bayliner dealer and follow this recommended procedure:

- Clean area to be repaired of wax and oil. Acetone is a good solvent
- Use a small portion of patch paste on a piece of cardboard, mix
  thoroughly with the catalyst (two or three drops of catalyst to a
  tablespoon of paste).
- Apply to pit, chip, or gouge with a single edge razor blade to match the
  surface contour of the area being repaired. It is better to have an
  excess than not enough of the paste.
- Allow to harden thoroughly. In most climates, one to two hours should
  be sufficient.
- Shape the patch as desired, using fine wet sandpaper.
- Finish using automotive rubbing compound in the same manner as for
  scratches.

**WARNING:** Teak oil, acetone and catalyst are hazardous materi-
als and should be used only in well ventilated areas. Follow
manufacturer's instructions.

3. There are many factors that will come into play in determining if and how
often it will be necessary for you to paint the bottom of your boat. First of
all, it is necessary for you to understand that the bottom paint on boats is
designed to slowly dissolve to prevent the retention of marine growth.
This fact is generally not understood, but it is unusual to find a boat
bottom that does not need repainting after a season's use.

As necessary, usually once a year, your boat should be pulled from the
water, scrubbed and repainted. It is not always necessary to repaint the
bottom each time it is scrubbed, but no bare spot should be permitted.

Our recommended procedure for repainting the bottom is as follows:
• Prepare the bottom by sanding, cleaning and fairing as required.
• It is imperative that the new paint be applied over a perfectly dry surface. Fiberglass hulls should never be hauled, painted and relaunched in the same day since this does not allow sufficient time for the moisture which has been absorbed into the old paint film to completely dry out. Generally, 24-36 hours of drying time will be required.
• If factory applied, the hull below the waterline has been originally painted with either "Petit" Bioguard (#1265) or "International" Tri-Lux (#66). When repainting, use either of these two paints or a paint that is compatible.

IMPORTANT: Blistering can occur in the gelcoat finish below the waterline on boats that are permanently moored. To protect against this possible occurrence Bayliner recommends antifouling bottom paint be applied. This should include three coats of International Paint Company's Interlux 404/414 barrier coat primer and two coats of Tri-Lux bottom paint or an equivalent. It is best and least expensive to have antifouling paint applied prior to first launching.

4. Whenever your boat is out of the water you should check for stray current corrosion. Stray current corrosion, or electrolysis, can be prevented several ways. The following are the most common causes and the simplest cures:

• Keep a clean dry bilge. Wiring may leak a certain amount of electricity.
• A poorly grounded zinc anode: Check ground wire, clean contact surfaces.
• The zinc anode may be deteriorated beyond effectiveness: Replace at usually 50% loss.
• Do not use a copper based bottom paint as it can cause electrolysis on some metal parts. If your boat is permanently moored we recommend you contact someone in your area specializing in corrosion control and have them check your boat in its moorage to see that it is properly protected.

5. Also, while your boat is out of the water, propellers, rudders, and shafts should be inspected for damage.

Every attempt has been made to equip your boat with a propeller that will optimize performance. Variances in altitude and load can impact performance. Your boating needs may dictate a propeller change. Your Bayliner dealer can help you in the selection of propellers better suited to your needs.

Rudders should be parallel such that the difference between the center of the leading edges and trailing edges is less than 1/4-inch. Adjustment is performed at the transom, inside the engine compartment.
1. If your boat is to be stored out of the water, it is extremely important that its hull is properly supported to avoid permanent hull shape distortion. If stored inside, it should be in a well ventilated building.

2. If covered storage isn't available then a temporary winter cover is recommended. A proper winter cover should keep the weather off the boat, but still provide adequate ventilation. Wrapping a boat up in a tight plastic cover can do more damage than good. Dampness and lack of air circulation provide ideal conditions for the fungi that cause mildew and dry rot.

3. Remove batteries, fill cells to proper level, and charge. Store in a warm place and periodically (once per month) charge.

4. Refer to your engine manual for storage instructions.

5. Drain the freshwater tanks and system by first opening all faucets and operating the water pump (be sure that the hot water tank power switch is turned off). Operate the pump until empty, draining accumulated water in the pump to avoid damage due to freezing.

6. Flush each head several times. If stored in saltwater, close seacock, add fresh water to bowl and allow to stand for a day or more to dissolve accumulated salt. With seacock closed, flush until pumped dry. Pump out holding tank.

7. Fuel tanks should be filled so there is little air space, thereby minimizing condensation.

8. Refer to your engine manual for storage procedures related to the engine seawater cooling system and batteries.

9. Thoroughly clean your boat. If possible, remove cushions, mattresses, blankets, towels and other items that can hold moisture and cause mildew. Such items left on board should be positioned for maximum air circulation—stand mattresses and cushions on edge.

10. Defrost and dry out refrigerator and freezer, prop doors open. Leave drawers and locker doors open.

11. Clean hardware and coat with rust inhibitor.

12. Lubricate steering mechanism and throttle control in engine compartment.

13. Close seacocks.

14. Provide as much heat and ventilation for interior spaces as is safe and practical.

We hope the preventive measures will help make a spring get-ready less work. Should you have any questions, your Bayliner dealer is anxious to provide assistance.
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABEAM</td>
<td>On either side of the boat.</td>
</tr>
<tr>
<td>AFT</td>
<td>To the rear or near the stern.</td>
</tr>
<tr>
<td>BEAM</td>
<td>The width of the hull.</td>
</tr>
<tr>
<td>BILGE</td>
<td>The lowest portion inside a boat (in a fiberglass boat, generally the underdeck and lower portion of the engine compartment).</td>
</tr>
<tr>
<td>BOW</td>
<td>The forward portion of the boat.</td>
</tr>
<tr>
<td>CHINE</td>
<td>The intersection of the side and bottom of a V-bottom boat.</td>
</tr>
<tr>
<td>DRAFT</td>
<td>Vertical distance from the waterline of boat to the lowest point of the boat.</td>
</tr>
<tr>
<td>FATHOM</td>
<td>A measurement of six feet generally used to measure water depth.</td>
</tr>
<tr>
<td>FREEBOARD</td>
<td>Vertical distance from deck to waterline.</td>
</tr>
<tr>
<td>GUNWALE</td>
<td>Where hull and deck meet.</td>
</tr>
<tr>
<td>HATCH</td>
<td>A covered opening in the deck.</td>
</tr>
<tr>
<td>HEAD</td>
<td>Toilet or toilet room.</td>
</tr>
<tr>
<td>HELM</td>
<td>Steering wheel.</td>
</tr>
<tr>
<td>KEEL</td>
<td>The lowest external portion of the boat.</td>
</tr>
<tr>
<td>KNOT</td>
<td>Nautical mile per hour; nautical mile is 6,076 ft.; land mile is 5,280 ft.</td>
</tr>
<tr>
<td>LEE</td>
<td>Opposite from which the wind blows.</td>
</tr>
<tr>
<td>MAYDAY</td>
<td>International spoken distress signal for radiotelephone.</td>
</tr>
<tr>
<td>PORT</td>
<td>To the left or left side of the boat.</td>
</tr>
<tr>
<td>PORTLIGHT</td>
<td>A hinged window in the boat's cabin or hull.</td>
</tr>
<tr>
<td>SCUPPER</td>
<td>An opening in a deck or cockpit permitting water to drain overboard.</td>
</tr>
<tr>
<td>STANCHION</td>
<td>A fixed, upright post used for support (of rails or lifelines).</td>
</tr>
<tr>
<td>STARBOARD</td>
<td>To the right or right side of the boat.</td>
</tr>
<tr>
<td>STERN</td>
<td>The rear of the boat.</td>
</tr>
<tr>
<td>STERNDRIVE</td>
<td>Inboard/outboard unit.</td>
</tr>
<tr>
<td>TRANSOM</td>
<td>The vertical part of the stern.</td>
</tr>
<tr>
<td>WINDWARD</td>
<td>The direction from which the wind is blowing.</td>
</tr>
</tbody>
</table>
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model/Engine</th>
<th>Prop/ Rotation</th>
<th>Max RPM</th>
<th>Max Cruise RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2850 Contessa Designer's Edition</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>260 Volvo</td>
<td>15 x 17 - L</td>
<td>4400</td>
<td>3600</td>
</tr>
<tr>
<td>125 Volvo (T)</td>
<td>15 x 17 - L/R</td>
<td>4800</td>
<td>4500</td>
</tr>
<tr>
<td>225 Volvo (T)</td>
<td>15 x 19 - L/R</td>
<td>4400</td>
<td>3600</td>
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<tr>
<td><strong>2850 Contessa Command Bridge</strong></td>
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</tr>
<tr>
<td>260 Volvo</td>
<td>15 x 17 - L</td>
<td>4400</td>
<td>3600</td>
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<tr>
<td>125 Volvo (T)</td>
<td>15 x 17 - L/R</td>
<td>4800</td>
<td>4500</td>
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<tr>
<td>225 Volvo (T)</td>
<td>15 x 19 - L/R</td>
<td>4400</td>
<td>3600</td>
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<tr>
<td><strong>3250 Conquest Sunbridge</strong></td>
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<td></td>
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<tr>
<td>260 Volvo (T)</td>
<td>15 x 19C - L/R</td>
<td>4400</td>
<td>3600</td>
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<tr>
<td><strong>3270 Motoryacht</strong></td>
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<td></td>
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<tr>
<td>110 USM (T)</td>
<td>17 x 15 - L/R</td>
<td>3000</td>
<td>2800</td>
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<tr>
<td>225 Volvo (T)</td>
<td>16 x 14 - L/R</td>
<td>4400</td>
<td>3600</td>
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<tr>
<td><strong>3450 Tri-Cabin Motoryacht</strong></td>
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</tr>
<tr>
<td>175 USM (T)</td>
<td>19 x 18 - L/R</td>
<td>3000</td>
<td>2800</td>
</tr>
<tr>
<td>260 Volvo (T)</td>
<td>18 x 19 - L/R</td>
<td>4400</td>
<td>3600</td>
</tr>
<tr>
<td><strong>3460 Trophy Convertible</strong></td>
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</tr>
<tr>
<td>175 USM (T)</td>
<td>19 x 18 - L/R</td>
<td>3000</td>
<td>2800</td>
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<tr>
<td>260 Volvo (T)</td>
<td>18 x 19 - L/R</td>
<td>4400</td>
<td>3600</td>
</tr>
<tr>
<td><strong>3870 Motoryacht</strong></td>
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<td></td>
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<tr>
<td>130 Chrys (T)</td>
<td>19 x 18 - L/R</td>
<td>3150</td>
<td>2800</td>
</tr>
<tr>
<td>175 USM (T)</td>
<td>20 x 24 - L/R</td>
<td>3000</td>
<td>2800</td>
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</tbody>
</table>
WARRANTY

One Year Limited Warranty

Bayliner warrants to the original purchaser of its boats operated under normal, noncommercial use in the U.S. or Canada that it will repair or replace any parts found to be defective in factory materials or workmanship within one year from date of retail delivery.

What Is Not Covered

This warranty does not apply to: (1) Engines, drive trains, controls, props, batteries or other equipment or accessories carrying their own individual warranties; (2) Engines, parts or accessories not installed by Bayliner; (3) Window breakage or leaks; gelcoat finish, blisters, cracks or crazing; (4) Hardware, vinyl tops, vinyl and fabric upholstery, plastic, metal, wood or tape trim; (5) Any Bayliner boat that has been altered, subjected to misuse, negligence or accident, or used for racing purposes; (6) Any Bayliner boat which has been overpowered according to the maximum horsepower specifications on the capacity plate provided on each Bayliner outboard boat; (7) Any Bayliner boat used for commercial purposes; (8) Any defect caused by failure of the customer to provide reasonable care and maintenance.

Other Limitations

THERE IS NO OTHER EXPRESS WARRANTY ON THIS BOAT. TO THE EXTENT ALLOWED BY LAW:

1. Any implied warranty of merchantability is limited to the duration of this written warranty.

2. Neither Bayliner nor the selling dealer shall have any responsibility for loss of use of the boat, loss of time, inconvenience, commercial loss or consequential damages.

3. Some states do not allow limitations on how long any implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Your Obligation

In order to comply with Federal regulations, it is essential that your warranty registration card be submitted within 30 days of delivery of your boat. Return of this card is a condition precedent to warranty coverage. Before any warranty work is performed, we require that you contact your selling dealer to request warranty assistance.

We require that you return your boat, at your expense, to your selling dealer or, if necessary, to the Bayliner factory. You will be responsible for all transportation, haul-outs and other expenses incurred in returning the boat for warranty service.

Bayliner Marine Corporation
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Seattle, WA 98124