Owner's Manual Supplement
22' - 28' Cruisers

Ciera
Engine Serial Number: ________________________________

Hull Identification Number: ________________________________

Hull Identification Number
The Hull Identification Number (HIN) is located on the starboard side of the transom. Be sure to record the HIN (and the engine serial numbers) in the space provided above. Please refer to the HIN for any correspondence or orders.

© 2000 Bayliner Marine Technical Publications. All rights reserved.
No part of this publication may be reproduced, stored in any retrieval system, or transmitted in any form by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of Bayliner.
Printed in the United States of America.

General Notes
The material in this document is for information only and is subject to change without notice. While reasonable efforts have been made in the preparation of this document to assure its accuracy, Bayliner assumes no liability resulting from errors or omissions in this document, or from the use of information contained herein. Due to our commitment to product improvement, Bayliner reserves the right to make changes in the product design, specifications, and equipment at any time without notice or obligation. Illustrations and/or photos may show optional equipment.
All Bayliner products meet or exceed USCG (United States Coast Guard) and/or NMMA (National Marine Manufacturer’s Association) construction standards. Manufactured with 1,1,1 Trichloroethane, a substance which harms public health and environment during the manufacturing process by destroying ozone in the upper atmosphere.

Proprietary Rights
This document discloses subject matter in which Bayliner has proprietary rights. The information and design disclosed herein were originated by and are the property of Bayliner. Neither receipt nor possession thereof confers or transfers any right to reproduce, copy, alter or disclose the document or any part thereof, any information contained therein, or to construct boats or any item from it, except by written permission from or written agreement with Bayliner. This document is to be returned upon request to Bayliner.
# CONTENTS

## Chapter 1: Welcome Aboard
1. Dealer Service
2. Boating Experience
3. Safety Standards
4. Engine & Accessories Guidelines
5. Qualified Maintenance
6. Structural Limitations
7. Special Care For Moored Boats
8. Sacrificial Anodes (Zincs)
9. Carbon Monoxide (CO)
   5. Sources of CO
10. Carbon Monoxide Alarm System
    5. What To Do If Carbon Monoxide Is Detected

## Chapter 2: Components/Systems
1. Electrical System
2. 12 Volt DC System - Fuses and Circuit Breakers
3. Battery Charger
4. Shore Power/110 Volt AC System
5. Fresh Water System
6. Water Heater
7. 110-Volt AC/12-Volt DC Refrigerator
8. Alcohol or Alcohol/Electric Stove
9. Air Conditioning (Optional)
10. Navigation and Interior Lights
11. Compass
12. Depth Finder
13. Portable toilet
14. Marine Head with Holding Tank
15. Fuel System
   13. Fuel Fills and Vents
   13. Anti-siphon Valve
   14. Fuel Filters
16. Bilge Blower
17. Bilge Pumps
   15. Locations and flow rates of bilge pumps:
   15. Bilge Pump Maintenance
   16. Autofloat Switch
18. Sleeper Seat Adjustment
   16. Fore-aft positions:
   16. Lounge positions:
19. Typical Label Locations
Chapter 3: Drawings & Diagrams
18  2252 Express (CP)
21  2355 Express (SJ)
25  2452 Express (CD)
28  2655 Sunbridge (SB)
30  2855 Sunbridge (ST)
33  2858 Command Bridge (EC)
38  2859 Express (SC)

Chapter 4: Wiring Diagrams
45  2252 Express (CP)
46  2355 Sunbridge (SJ)
47  2452 Express (CD)
48  2655 Sunbridge (SB)
49  2855 Sunbridge (ST), Gas Engine
50  2855 Sunbridge (ST), Diesel Engine
51  2858 Command Bridge (EC), Gas Engine
52  2858 Command Bridge (EC), Diesel Engine
53  2859 Express (SC), Gas Engine
54  2859 Express (SC), Diesel Engine
55  Single Dockside Wiring Diagram
56  Double Dockside Wiring Diagram

Limited Warranty
57  What Is Not Covered
57  Other Limitations
57  Your Obligation
Hazard Boxes & Symbols

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

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

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

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

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

![Hazard Symbols](image-url)
Chapter 1: Welcome Aboard

- This Owner’s Manual Supplement was prepared to provide specific information about your boat.
- Study the Cruiser & Yacht Owner’s Manual and this supplement carefully. Pay particular attention to the LIMITED WARRANTY section.
- Keep the Cruiser & Yacht Owner’s Manual and this supplement on your boat in a secure, yet easy to get to place.

Dealer Service

- Ask your dealer to explain all systems before taking delivery of your boat.
- Your dealer is your key to service.
- 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.

Boating Experience

WARNING!

CONTROL HAZARD! A qualified operator must be in control of the 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 the 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
- U.S. Coast Guard Auxiliary: 1-800-368-5647 or on the Internet at: http://www.cgaux.org

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

⚠️ DANGER!

PERSONAL SAFETY HAZARD! DO NOT allow anyone to ride on parts of the boat not designated 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.

⚠️ 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 the boat is moving and cause personal injury or death.

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, all of them were designed to insure your safety, and the safety of other people, vessels and property.

In addition to this owner’s manual supplement, please read the Cruiser & Yacht Owner’s Manual and all accessory instructions for important safety standards and hazard information.

Engine & Accessories Guidelines

NOTICE

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

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 to add accessories that will affect the boat’s running trim, have an experienced marine technician perform a safety inspection and handling test before operating your boat again.

Certain modifications to your boat can result in cancellation of your warranty protection. Always check with your dealer before making any modifications to your boat.

The engine and accessories installed on your boat come with their own operation and maintenance manuals. Read and understand these manuals before using the engine and accessories.

Qualified Maintenance

⚠️ WARNING!

To maintain the integrity and safety of your boat, allow only qualified personnel to perform maintenance on, or in any way modify: The steering system, propulsion system, engine control system, fuel system, environmental control system, electrical system or 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 Owner’s Manual Supplement, the engine owner’s manual and all accessory instruction sheets and manuals included in your boat’s owner’s packet.
Structural Limitations

If equipped, the transom platform and bow platform are designed to be lightweight for proper boat balance. The load limit for these platforms is 30 pounds per square foot, evenly distributed.

Special Care For Moored Boats

<table>
<thead>
<tr>
<th>NOTICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>• To help seal the hull bottom and reduce the possibility of gelcoat blistering on moored boats, apply an epoxy barrier coating, such as INTERLUX, Interprotect 2000E/2001E. The barrier coating should be covered with several coats of anti-fouling paint.</td>
</tr>
<tr>
<td>• 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.</td>
</tr>
</tbody>
</table>

Whether moored in saltwater or freshwater, your boat will collect marine growth on its hull bottom. This will detract from the boat’s beauty, greatly affect its performance and may damage the gelcoat.

- Periodically haul the boat out of the water and scrub the hull bottom with a bristle brush and a solution of soap and water.

Sacrificial Anodes (Zincs)

<table>
<thead>
<tr>
<th>NOTICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not paint between the zinc and the metal surface it contacts and do not paint over the zinks.</td>
</tr>
</tbody>
</table>

Your boat is equipped with sacrificial anodes (zincs) to protect underwater metal parts from excessive deterioration. Check the zincs regularly and replace them if they have deteriorated more than 70%.

There are many factors that affect the rate at which the zincs deteriorate, including:

- Water temperature
- Salinity
- Water pollution

Stray electrical current from the boat or dock may cause complete deterioration in just a few weeks. If there is rapid zinc deterioration, measure the electrolytic corrosion around your boat with a Corrosion Test Meter. If the zincs are not bonded correctly, they will not provide protection.
Carbon Monoxide (CO)

**DANGER!**

*CARBON MONOXIDE POISONING HAZARD!*

Carbon monoxide gas (CO) is colorless, odorless, and extremely dangerous. All engines, generators, and fuel burning appliances produce CO as exhaust. Direct and prolonged exposure to CO will cause BRAIN DAMAGE or DEATH.

Signs of CO poisoning include:
- Headache
- Nausea
- Dizziness
- Drowsiness

• 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.
• 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 increasing the effects of CO poisoning include:*
- Age
- Smokers or people exposed to high concentrations of cigarette smoke
- Consumption of alcohol
- Lung disorders
- Heart problems
- Pregnancy
**Sources of CO**

*Sources of CO include:*

- a. Using engine or generator when boat is moored in a confined space.
- b. Mooring close to another boat that is using its engine, generator or any other CO source.
- c. Running boat with trim angle of bow too high.
- d. Running boat without through ventilation (station wagon effect).

**To correct stationary situations (a) and/or (b):**
- Close all windows, portlights and hatches.
- If possible, move your boat away from the source of CO.

**To correct running situations (c) and/or (d):**
- Trim bow down.
- Open windows and canvas.
- When possible, run boat so that prevailing winds will help dissipate exhaust.

*Immediately* take corrective action if CO is detected or suspected (see, *Carbon Monoxide Alarm System*, below).

**Carbon Monoxide Alarm System**

- Your boat features a carbon monoxide (CO) alarm system.
- *Do not disconnect the alarm system.*
- Read and understand the manufacturer’s instructions for your CO alarm system. If you did not receive an instruction manual, call (800) 383-0269 and one will be mailed to you.
- If your boat is not equipped with a carbon monoxide alarm, consider purchasing one from your dealer or marine supply store.

**What To Do If Carbon Monoxide Is Detected**

- Immediately ventilate and evacuate any enclosed spaces that are occupied by people and reset your CO alarm.
- Immediately move anyone showing any symptoms of CO poisoning into fresh air.
- See a doctor if any symptoms persist. If the person is unconscious, immediately administer oxygen or CPR and call for emergency help.
Chapter 2: Components/Systems

Electrical System

We strongly recommend that you read and understand the Electrical Section of the Owner’s Manual.

⚠️ DANGER

EXTREME FIRE/EXPLOSION HAZARD!

• To minimize the risks of fire and explosion, NEVER install knife switches or other arcing devices in the fuel compartments.

• NEVER substitute automotive parts for marine parts. 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.

• Only qualified personnel should install batteries and/or perform electrical system maintenance.

• Insure that all battery switches are in the OFF position before performing any work in the engine spaces.

⚠️ WARNING

FIRE/EXPLOSION HAZARD!

• Fuel fumes are heavier than air and will collect in the bilge areas where they can be accidently ignited. Visually and by smell (sniff test), check the engine and fuel compartments for fumes or accumulation of fuel. Operate the bilge blower for at least four minutes prior to engine starting, electrical system maintenance or activation of electrical devices.

• Minimize the danger of fire and explosion by not exposing batteries to open flame or sparks. It is also important that no one smoke anywhere near the batteries.

⚠️ CAUTION

SHOCK/ELECTRICAL SYSTEM DAMAGE HAZARD!

• Never disconnect the battery cables while the engine is running as this can cause damage to your boat’s electrical system components.

• The battery charging systems (alternator and, if applicable, 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.

NOTICE

• Electrical connections are susceptible to corrosion. Minimize electrical problems due to corrosion by keeping all exposed electrical connections clean and protected with with a spray-on protectant such as Corrosion Guard®.

• VOLTAGES - All boats use either 110-volt AC/60 Hertz, 240-volt AC/60 Hertz or 220-volt AC/50 Hertz single phase systems, and 12-volt DC or 24-volt DC. Electrical distribution panels are labeled with voltage and frequency of AC and DC.
12 Volt DC System - Fuses and Circuit Breakers

Both the engine and accessory circuits are protected by a large circuit breaker located on the engine. In addition, a fuse block for branch accessory circuits is located behind the helm panel. Wires are color-coded to indicate which accessory each fuse services. Some items, such as radios and bilge pumps, may be fused individually at the unit. Autofloat switches are fused at the battery.

Battery Charger

Your boat may be equipped with a battery charger. Please refer to the manufacturer’s operating instructions included in the boat’s owner’s packet. The battery charger operates when AC dockside power is connected and the battery charger circuit breaker is ON. The battery charger will charge batteries regardless of the battery switch position.

---

**CAUTION**
The battery charger is 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.

---

Shore Power/110 Volt AC System

Your boat may be equipped with an AC system. AC systems are energized by dockside shore power. Standard dockside receptacles and cords provided are rated at 30 amps. Since some shore installations do not have 30 amp service, we recommend the purchase of 15 amp and 20 amp adapters. **Note:** When 15 amp or 20 amp adapters are used there will be a corresponding drop in supplied AC power.

---

**DANGER**

**FIRE/EXPLOSION/SHOCK HAZARD!**

- To minimize shock and fire hazard, DO NOT modify electrical systems or relevant drawings.
- DO NOT alter shore power connectors and use only compatible connectors.
- Only qualified personnel should install batteries and/or perform electrical system maintenance.

---

**CAUTION**

**SHOCK/ELECTRICAL SYSTEM DAMAGE HAZARD!**

- Never connect dockside power to your boat outside North America unless you have purchased the International electrical conversion option, which is rated for 220-volt/50 Hertz. North American systems are rated for 110-volt/60 Hertz power.
- Use double insulated or three-wire protected electrical appliances when possible.

---

**NOTICE**

When using shore power, the simultaneous operation of several AC accessories can result in an overloaded circuit. It may be necessary to turn off one accessory while operating another.
On boats with a single dock-side inlet, check for proper polarity as outlined in the previous warning. Activate the AC system by first turning on the master breaker, then each individual component breaker as required.

On boats with dual dockside inlets, check for proper polarity as outlined in the previous warning. Each dockside inlet is labeled inside the weather-proof cover, line 1 or line 2, which corresponds to the line each operates on the AC master panel. This system is designed so that each line operates independent of each other. Activate the AC system by first turning on the master breakers, then each individual component as required.
Fresh Water System

Fresh water systems are available on some models. These pressure-type (demand) systems operate when the water pump switch (located near the sink in the cuddy cabin) is in the ON position. Turn the pump switch OFF when the boat is not in use and when the water tank is empty.

Stored water can become stagnant and distasteful. Pump the water tank dry before leaving your boat unattended for long periods of time. Occasionally you may want to disinfect your water system. Ask your selling dealer about available treatments and procedures.

Your boat may be equipped with a shower. Please read and follow the manufacturer’s operating instructions supplied in the owner’s packet.

Water Heater

Your boat may come equipped with a water heater. Be sure to refer to the manufacturer’s operating instructions supplied in the owner’s packet. The water heater is connected to the AC power system. If your boat is equipped with optional freshwater engine cooling, the coolant from the closed engine cooling system may be circulated through the hot water tank for heating of potable water.

> **CAUTION**

**WATER HEATER DAMAGE HAZARD!** DO NOT energize the AC water heater electrical circuit until the heater is completely filled with water. Even momentary operation in a dry tank will damage the heating elements. Warranty replacements will not be made on elements or tank damaged in this manner. The tank is full if water flows from the tap when the hot water is turned on in the galley.

110-Volt AC/12-Volt DC Refrigerator

Your boat may come equipped with a 110-volt AC/12-volt DC refrigerator. Please refer to the manufacturer’s instructions included in the boat’s owner’s packet. The refrigerator operates on 110-volt AC and 12-volt DC power. When the 110-volt AC system is not hooked up to an AC source, the refrigerator operates on 12-volts DC. When a 110-volt AC source is supplied by dockside power and the AC refrigerator breaker is ON, the refrigerator automatically switches to 110-volt AC.

> **NOTICE**

The refrigerator has the heaviest continuous draw on the 12-volt system. In less than 24 hours, the refrigerator can render a 100-amp battery useless for engine starting. 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 (2). It is also advisable to turn off your refrigerator at night or when not in use. If you are going to be out for more than one day and cannot connect to dockside power, you should plan to run the engine each day to maintain a charged battery.
Alcohol or Alcohol/Electric Stove

Operating instructions for the alcohol or alcohol/electric stove can be found in the boat’s owner’s packet. Carefully read and follow the manufacturer’s operating instructions and warnings before using the stove.

**WARNING**

FIRE HAZARD - Reduce the possibility of fire by removing all combustible materials away from the stove before/during use.

**WARNING**

FIRE/PERSOAL INJURY HAZARD - Before each use of the 2858 (EC) galley stove, the lower helm seat’s back rest MUST be lowered into the counter top position to reduce the possibility of fire or injury (see drawing below).

---

Air Conditioning (Optional)

Your boat may be equipped with an optional air conditioning system. Please refer to the manufacturer’s operating instructions included in your boat’s owner’s packet.
Navigation and Interior Lights

We strongly recommend that you understand navigation light usage by reading the navigation section of the Owner’s Manual. The navigation and interior lights supplied with 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 in the switch panel).
2. The bulb may be burned out (Carry spare bulbs for replacement).
3. The bulb base may be corroded (Clean the base periodically and coat it with non-conductive grease).
4. A wire may have come loose or may be damaged (Repair as required).

CAUTION

- Avoid the storage of gear where it would block navigation lights from view.
- Prolonged operation of cabin interior lights (overnight) will result in a drained battery. Be conservative in the use of battery power.

Compass

Your boat may come equipped with a compass. Carefully read and follow the manufacturer’s calibration and operating instructions provided in the boat’s owner’s packet.

Depth Finder

Your boat may come equipped with a depth finder. It will provide you with measurements of water depth beneath the boat. In many cases it may help you locate schools of fish. We suggest that you read the manufacturer’s owner’s operating instructions included in the boat’s owner’s packet before using the unit.

WARNING

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

Your boat may come equipped with a portable toilet. Be sure to read and carefully follow the manufacturer’s operating instructions included in your boat’s owner’s packet.

Marine Head with Holding Tank

Your boat may come equipped with a marine head and holding tank. Be sure to follow the manufacturer’s operating instructions included in the boat’s owner’s packet.

Seawater is used to flush waste from the toilet into the holding tank. The holding tank is plumbed to a waste fitting on the deck for use at a dockside pump-out station, and to a macerator pump so that waste may be pumped overboard (where regulations permit). The switch for the macerator is usually located at the helm station.

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

To winterize the toilet, shut off the intake valve and pump until the bowl is dry. Remove the drain plug in the base and pump again to remove all water. Do not fill the bowl with antifreeze. The inlet seacock should be left closed while the boat is underway, or whenever the boat is left moored in the water.
Fuel System

**WARNING**

_FIRE/EXPLOSION HAZARD - It is very important that the fuel system be inspected thoroughly the first time it is filled and at each subsequent filling. For your safety and the safety of your passengers, the fueling instructions in the Owner’s Manual must be carefully followed._

**NOTICE**

Air in the diesel supply system (if equipped) can stop an engine or severely restrict performance. If you suspect air in your diesel fuel lines, refer to your engine owner’s manual for detailed instructions on how to “bleed” the system.

**CAUTION**

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

**Fuel Fills and Vents**

Fuel fills are located either on the aft deck or on the side decks adjacent to the aft cockpit. Fuel receptacle caps are marked “Diesel” 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, check to see that the fuel fill and vent lines are free of obstructions and kinks.

**Anti-siphon Valve**

Your boat may be equipped with an anti-siphon valve, which is an integral part of the barb fitting on the fuel tank in which the neoprene fuel line attaches. The valve is spring loaded and is opened by fuel pump vacuum. These valves will prevent fuel from siphoning from the tank in the event of a fuel line rupture.

**NOTICE**

If an engine running problem is diagnosed as fuel starvation, check the anti-siphon valve. In the event the valve is stuck or clogged, it should be changed or replaced while the engine is shut down. Under NO circumstances should the anti-siphon valve be removed, except in an emergency.
**Fuel Filters**

All tanks are equipped with a fine mesh screen filter on the fuel pickup tube (located inside or on the outside of the tank) to the fuel line fitting. In addition, when supplied by the engine manufacturer, and additional filter is installed on the engine. Fuel filters should be replaced periodically to ensure they remain clean and free of debris. Consult your selling dealer or local marina concerning fuel additives that help to prevent fungus or buildup in your fuel tanks.

---

**Bilge Blower**

The bilge blower removes fumes from the engine compartment and draws fresh air into the compartment through the deck vents. To ensure fresh air circulation, operate the bilge blower for at least four minutes before starting the engine, during starting, and while operating the boat below cruising speed.

---

**WARNING**

Operation of the blower system is **NOT A GUARANTEE** that explosive fumes have been removed. If you smell any fuel, **DO NOT** start the engine. If the engine is already running, immediately shut off the engine and all electrical accessories. Investigate immediately. **DO NOT** obstruct or modify the ventilation system.
Bilge Pumps

Your boat is equipped with two impeller-type bilge pumps. They are controlled by a switch on the dash panel, which should be activated whenever water begins to accumulate in the bilge. Some models will also have an automatic bilge pump switch (“autofloat switch”), mounted next to the bilge pump. This is a float-type switch that will activate a bilge pump automatically whenever the bilge water accumulates above a pre-set level. It is wired directly to the battery so it will normally function even when the boat is completely shut down and unattended, such as when the boat is moored at a marina.

**Locations and flow rates of bilge pumps:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Aft (8.3 gpm)</th>
<th>Aft (20.83 gpm)</th>
<th>Fwd (8.3 gpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2252 (CP)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>2355 (SJ)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>2452 (CD)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>2655 (SB)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>2585 (EC)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>2859 (SC)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

**Bilge Pump Maintenance**

Bilge pumps should be checked often to verify that they are working properly. To check a bilge pump’s operation, activate the dash-mounted switch. Verify that water in the bilge is pumped overboard. If bilge water is present and the pump motor is running but not pumping, inspect the discharge hose for a kink or collapsed area. If no problems are found, check the bilge pump housing for clogging debris:

**To remove the power cartridge:**

1. Lift the tab while rotating the fins counter-clockwise and lift out the power cartridge (Fig. 1).
2. Clear the housing of debris.

**To reinstall the power cartridge:**

1. Make sure the “O” ring is properly located and coat the “O” ring with a light film of vegetable oil or mineral oil (Fig. 2).
2. Align the two cams on either side of the power cartridge with the two slots on the outer housing. Press the power cartridge into the housing and twist clockwise. Ensure proper reinstallation by attempting to twist the fins counter-clockwise without lifting the tab. The cartridge should stay in place.
Autofloat Switch

If applicable, the autofloat switch should also be checked often for proper operation. Lift the float by turning the plastic insert where the wires enter the housing, 1/4 turn counter-clockwise (Fig. 3).

As the float is lifted, the bilge pump should turn on. If lifting the float does not turn the pump on, check the inline fuse. If the fuse is good but the switch does not work, it may indicate a bad switch or possibly a low battery.

Sleeper Seat Adjustment

Your boat may be equipped with adjustable sleeper seats. These seats can be adjusted fore and aft in the upright position. The seat bottoms of these models also adjust into backrests while the seats are in the lounge position.

**Fore-aft positions:**

To slide a seat forward or backward, lift up on the front edge of the seat bottom (A). Move the seat forward until the locking mechanism engages in one of the three different positions. Lift the aft seat at point (B) and slide the aft seat towards the forward seat.

**Lounge positions:**

1. To put the seat into the lounge position, lift up on the front edge of the seat (A) and pull the seat all the way forward. Lift the aft seat at (B) and pull the aft seat away from the forward seat until the seat is laid out flat.
2. Lift up on the forward or aft seat bottom at point (C) until the seat bottom drops into the locked position.
3. To lower the seat bottom, lift the seat at points (C) and (D) at the same time. Drop the seat bottom flat while holding the seat up at point (D).
4. To return the seat to the operating position, lift the seat back at point (E) and push the seat bottom toward the center of the seat until it locks into place.
Typical Label Locations

- **WINDSHIELD CLOSED LABEL**
- **CAPACITY LABEL**
- **CARBON MONOXIDE POISON LABEL**
- **STEP WARNING LABEL**
- **SUNLOUNGE WARNING**
- **MARINE CORE**
- **USM THANKS/5YEAR/NMMA**
- **BOARDING WARNING**
- **FUEL WARNING**
- **DO NOT STEP LABELS**
- **BATTERY LOCATION**
- **POTABLE WATER LABEL**
- **TRANSOM**
Chapter 3: Drawings & Diagrams

2252 Express (CP)

Layout View

<table>
<thead>
<tr>
<th>Overall Length</th>
<th>Bridge Clearance</th>
<th>Beam</th>
<th>Maximum Draft</th>
<th>Fuel Tank Capacity (gal)</th>
<th>Water Tank Capacity (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>22' 3&quot;</td>
<td>6' 6&quot;</td>
<td>8' 1&quot;</td>
<td>2' 10&quot;</td>
<td>55</td>
<td>13</td>
</tr>
</tbody>
</table>

Hull Exterior Hardware

- STARBOARD HULLSIDE
  - ANCHOR LOCKER DRAIN
  - BOW EYE
  - FISHBOX DRAIN
  - AFT BILGE PUMP DRAIN

- PORT HULLSIDE
  - WATER TANK VENT
  - WATER TANK VENT
  - WASTE TANK VENT
  - WASTE OVER DRAIN (OPTION)
  - BOW EYE
  - GALLEY DRAIN
  - FWD BILGE DRAIN

- TRANSOM VIEW
  - TRIM TAB (TYPICAL PORT/STBD)
  - DECK DRAINS (TYPICAL PORT/STBD)
  - GARBOARD DRAIN
  - FUEL TANK VENT
  - STERN EYES (TYPICAL PORT/STBD)
**Electrical Routing**

**HULL ELECTRICAL ROUTING**
- Ground Plug
- FUEL TANK
- MACERATOR PUMP
- FRESH WATER PUMP
- AFT BILGE PUMP & FLOAT SWITCH
- BLOWER

**DECK ELECTRICAL ROUTING**
- FUEL FILL BONDING WIRE
- HARD TOP OPTION PLUG
- SHIFTER
- FWD BILGE PUMP
- MARINE HEAD LIGHT
- HORN
- BOW LIGHTS
- SPEAKERS
- DASH
- WIPER
- LIGHTS
- TRIM PUMP
- AFT BILGE ENGINE
- LIGHTS

**Fresh Water System**

- TO WATER FILL DECK FITTING
- TO TANK VENT THRU-HULL
- TO GALLEY FAUCET
- FRESH WATER TANK
- INLINE PUMP STRAINER
- WATER PUMP
**Galley Drain System**

- SINK
- THRU-HULL
- DRAIN HOSE

**Marine Head (Option)**

- WASTE DECK FITTING
- TO THRU-HULL
- TANK VENT THRU-HULL
- MACERATOR
- HOLDING TANK
- MACERATOR PANEL
- HEAD PICKUP SEACOCK VALVE
- HEAD TO HOLDING TANK
- MARINE HEAD
- PICKUP TO MARINE HEAD
2355 Express (SJ)

Layout View

<table>
<thead>
<tr>
<th>Overall Length</th>
<th>Bridge Clearance</th>
<th>Beam</th>
<th>Maximum Draft</th>
<th>Fuel Tank Capacity (gal)</th>
<th>Water Tank Capacity (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>23' 4&quot;</td>
<td>6' 2&quot;</td>
<td>8' 6&quot;</td>
<td>2' 10&quot;</td>
<td>55</td>
<td>13</td>
</tr>
</tbody>
</table>

Hull Exterior Hardware
**Electrical Routing**

**DECK ELECTRICAL ROUTING (UNDERSIDE VIEW OF DECK)**

- SPEAKERS
- BOW LIGHT
- HORN
- TO WINDLASS RELAY & DECK SWITCHES
- WIPER MOTOR
- COMPASS
- HEAD LIGHT
- SPEAKER SHIFTER
- WINDLASS ENTRY
- STERN LIGHT
- COCKPIT STEP LIGHT
- AFT BERTH LIGHTS
- ENTRY STEP LIGHT
- WINDLASS MAIN SWITCH
- WINDLASS CIRCUIT BREAKER

**AFT BILGE AREA**

- TRIM TAB BLOWER
- WIRE PLUG TO ENGINE
- TILT PUMP
- BLOWER
- WIRE HARNESS
- WIRE TO DASH ASSY
- WIRE TO HEAD PICK UP

**FWD BILGE AREA**

- WIRE TO GALLEY
- WIRE TO FLOAT SWITCH
- WIRE TO BILGE PUMP
- WIRE TO BILGE PUMP
- WIRE TO HEAD PICK UP

**GALLEY BACKSIDE**

- LIGHT SWITCHES
- CASSETTE STEREO
- MASTER CIRCUIT BREAKER PANEL
- SPEAKER SELECTOR SWITCH

**AFT BILGE AREA**

- WIRE BREAKER (OPTION)
- BATTERY CHARGER (OPTION)
- TO WATER HEATER (OPT)
- STBD
- WIRE TO MACERATOR PUMP (OPT)
- WIRE TO BILGE PUMP
Fresh Water System Option

Waste System Option
2452 Express (CD)

Layout View

<table>
<thead>
<tr>
<th>Overall Length</th>
<th>Bridge Clearance</th>
<th>Beam</th>
<th>Maximum Draft</th>
<th>Fuel Tank Capacity (gal)</th>
<th>Water Tank Capacity (gal)</th>
<th>Holding Tank Capacity (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>23' 5&quot;</td>
<td>8' 4&quot;</td>
<td>8' 4&quot;</td>
<td>2' 11&quot;</td>
<td>78</td>
<td>20</td>
<td>78</td>
</tr>
</tbody>
</table>

Hull Exterior Hardware

Air Conditioning Option
**Electrical Routing**

**DECK ELECTRICAL ROUTING**
- Fuse Block Location
- Cabin
- Dash Harness
- Dinette Lights
- Stereo
- Hard Top
- Wipers
- Head Light
- Galley Lights
- Speakers
- Horn
- Bow Light
- V-Berth Light

**HARDBOARD ELECTRICAL ROUTING**
- Dash Connection
- Lights
- Anchor Light

**Macerator Option**
- Marine Head to Waste Tank
- Macerator Pump
- STBD
- AFT
- Waste Holding Tank
- To Pump Out Deck Fitting
- To Overflowboard Thru-Hull
- Waste Tank to Macerator
Fresh Water/Marine Head System

Hot Water System Option
2655 Sunbridge (SB)

**Layout View**

![Layout View Diagram]

<table>
<thead>
<tr>
<th>Overall Length</th>
<th>Bridge Clearance</th>
<th>Beam</th>
<th>Maximum Draft</th>
<th>Fuel Tank Capacity (gal)</th>
<th>Water Tank Capacity (gal)</th>
<th>Holding Tank Capacity (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>27' 9&quot;</td>
<td>7' 0&quot;</td>
<td>8' 5&quot;</td>
<td>2' 10&quot;</td>
<td>70</td>
<td>27</td>
<td>13</td>
</tr>
</tbody>
</table>

**Hull Exterior Hardware**

![Hull Exterior Hardware Diagram]

**Hull Electrical Routing**

![Hull Electrical Routing Diagrams]
Deck Electrical Routing

Galley Details

Marine Head Holding Tank

Deck Fittings and Drains
2855 Sunbridge (ST)

**Layout View**

![Layout View Diagram]

<table>
<thead>
<tr>
<th>Overall Length</th>
<th>Bridge Clearance</th>
<th>Beam</th>
<th>Maximum Draft</th>
<th>Fuel Tank Capacity (gal)</th>
<th>Water Tank Capacity (gal)</th>
<th>Holding Tank Capacity (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30' 3&quot;</td>
<td>7' 5&quot;</td>
<td>9' 7&quot;</td>
<td>3' 1&quot;</td>
<td>109</td>
<td>33</td>
<td>13</td>
</tr>
</tbody>
</table>

**Hull Exterior Hardware**

![Hull Exterior Hardware Diagram]
Hull Electrical Routing

Deck Electrical System
Helm Area

Air Conditioning System

Freshwater System

Marine Head System and Waste Fitting
2858 Command Bridge (EC)

Layout View

| Hull Fittings and Hardware |

<table>
<thead>
<tr>
<th>Overall Length</th>
<th>Bridge Clearance</th>
<th>Beam</th>
<th>Maximum Draft</th>
<th>Fuel Tank Capacity (gal)</th>
<th>Water Tank Capacity (gal)</th>
<th>Holding Tank Capacity (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30'6&quot;</td>
<td>9'3&quot;</td>
<td>9'10&quot;</td>
<td>3'6&quot;</td>
<td>113</td>
<td>34</td>
<td>26</td>
</tr>
</tbody>
</table>

Hull Fittings and Hardware

- AFT BILGE PUMP DRAIN
- WATER TANK VENT
- STARBOARD HULLSIDE
- CLAM SHELL COVER (ANCHOR WELL DRAIN)
- BOW EYE
- FWD BILGE PUMP DRAIN
- SHOWER SUMP DRAIN
- HEAD SINK DRAIN
- GALLEY SINK DRAIN
- PORT HULLSIDE
- HOLDING TANK VENT
- FUEL TANK VENT
- DECK DRAINS (TYP PORT & STBD)
- TRANSOM VIEW
- STERN EYES
- TRIM TABS (TYP PORT & STBD)
- MACERATOR DISHCARAGE
- GARBOARD DRAIN
12 Volt DC Wire Routing
110 Volt AC Wire Routing (Romex)

Fresh Water System
A/C Hose Routing (OAB)

Shower Drain System
Marine Head System

Seawater Pickup System (Diesel Engine Option)
2859 Express (SC)

Layout View

<table>
<thead>
<tr>
<th>Overall Length</th>
<th>Bridge Clearance</th>
<th>Beam</th>
<th>Maximum Draft</th>
<th>Fuel Capacity (gal)</th>
<th>Water Tank Capacity (gal)</th>
<th>Holding Tank Capacity (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>27' 8&quot;</td>
<td>9' 1&quot;</td>
<td>9' 9&quot;</td>
<td>3' 0&quot;</td>
<td>102</td>
<td>36</td>
<td>30</td>
</tr>
</tbody>
</table>

Hull Exterior Hardware
Marine Head System

Seawater Pickup System (Diesel Engine Option)
**Fresh Water System**

**Cabin Heat**
Shower Drain System

FROM PUMP TO THRU-HULL
FROM SHOWER DRAIN TO PUMP
FILTER
SHOWERS PUMP
STBD
AFT
PORT
FWD
SHOWERS PUMP

Galley Sink Drain

SINK
GALLEY HOT
GALLEY COLD
SINK DRAIN TO THRU-HULL
Deck 12 Volt DC Wire Routing

Hull 12 Volt DC Wire Harness
**Hull 110 Volt AC Harness**

- **AFT HANGING LOCKER OUTLET**
- **REFRIGERATOR OUTLET**
- **TO BATTERY CHARGER**
- **HEAD OUTLET**
- **TO DECK**
- **TO GALLEY**

**Air Conditioning Routing**

- **SEAWATER PUMP**
- **SEA STRAINER**
- **VENT TO AFT BERTH FWD BULKHEAD**
- **HIGH SPEED PICK UP AND SEACOCK VALVE**
- **HANGING LOCKER TOP**
- **A/C UNIT**
Helm Area

Fuel System
Chapter 4: Wiring Diagrams

Please read the electrical sections included in the Owner’s Manual and this Owner’s Manual Supplement for important safeguards concerning your boat’s electrical system.

2252 Express (CP)
2655 Sunbridge (SB)
2855 Sunbridge (ST), Gas Engine
2855 Sunbridge (ST), Diesel Engine
2858 Command Bridge (EC), Gas Engine
2858 Command Bridge (EC), Diesel Engine
2859 Express (SC), Gas Engine

CHAPTER 4: WIRING DIAGRAMS
2859 Express (SC), Diesel Engine
CHAPTER 4: WIRING DIAGRAMS

REFERENCE:
(1) CONTINUES TO OR FROM ANOTHER PAGE.
(2) EXPORT OPTION ONLY.
(3) OPTIONAL EQUIPMENT ON SOME MODELS.
(4) GREEN GROUNDING CONDUCTORS FROM LINE APPLIANCES CONNECT TO AC GROUND BUS.
(5) WHITE NEUTRAL CONDUCTORS FROM LINE APPLIANCES CONNECT TO NEUTRAL BUS.
(6) LINE MASTER BREAKER SIZES:
   110 STANDARD – 30A
   220 STANDARD – 15A

NOTE – A ICE MAKER 10A (5A EXPORT) (3) OR MICROWAVE 10A (5A EXPORT) (3)
CHAPTER 4: WIRING DIAGRAMS
Ciera 22

Double Dockside Wiring Diagram

COLOR CODES: B = BLACK  P = PURPLE  Y = YELLOW
BL = BLUE  R = RED  LT = LIGHT
G = GREEN  T = TAN  DK = DARK
O = ORANGE  W = WHITE

SYMBOLS: SPST SWITCH  DC GROUND
 CONNECTION  CIRCUIT BREAKER
 NO CONNECTION  PLUG

(NOTE - A)  12/3 AIR CONDITIONER (3)
(NOTE - B)  14/3 SPARE (3)
(NOTE - C)  14/3 SPARE (3)

(2) 5A 5A  14/3 BATTERY CHARGER
(2) 10A 15A  14/3 RECEPTACLES
(2) 10A 15A  14/3 WATER HEATER
(2) 10A 20A  12/3 RANGE
(2) 2A 2A  14/3 REFRIGERATOR
(NOTE - C)  14/3 SPARE (3)

NOTE - A  16,000 BTU 30A (15A EXPORT)
12,000 BTU 25A (15A EXPORT)
9,000 BTU 20A (10A EXPORT)
6,000 BTU 15A (10A EXPORT)

NOTE - B  ICE MAKER 10A (5A EXPORT) (3)
NOTE - C  MICROWAVE 10A (5A EXPORT) (3)

REFERENCES:
(1) CONTINUES TO OR FROM ANOTHER PAGE.
(2) EXPORT OPTION ONLY.
(3) OPTIONAL EQUIPMENT ON SOME MODELS.
(4) GROUNDING CONDUCTORS FROM ALL
APPLIANCES CONNECT TO AC GROUND BUS.
(5) WHITE NEUTRAL CONDUCTORS FROM LINE ONE
APPLIANCES CONNECT TO LINE ONE NEUTRAL BUS.
(6) WHITE NEUTRAL CONDUCTORS FROM LINE TWO
APPLIANCES CONNECT TO LINE TWO NEUTRAL BUS.
(7) LINE MASTER BREAKER SIZES:
110 STANDARD = 30A
220 STANDARD = 15A
Limited Warranty

Bayliner warrants to the original purchasers of its 1999 and 2000 model boats, purchased from an authorized dealer, operated under normal, noncommercial use that the selling dealer will: (A) Repair any structural hull defect which occurs within five (5) years of the date of delivery; and (B) Repair or replace any parts found to be defective in factory material or workmanship within one (1) year of the date of delivery.

What Is Not Covered

This limited 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. Plexiglass windscreens; rainwater leakage on runabout models; rainwater leakage through convertible tops; minor gelcoat discoloration, cracks or crazing or air voids;
4. Hull blisters that form below the waterline;
5. Normal deterioration, i.e., wear, tear, or corrosion of hardware, vinyl, tops, vinyl and fabric upholstery, plastic, metal, wood, or trim tape;
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 ARE NO OTHER EXPRESS WARRANTIES ON THIS BOAT. TO THE EXTENT ALLOWED BY LAW:

1. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO THE DURATION OF ONE YEAR.
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 jurisdictions do not allow limitations on how long any implied warranty lasts, so the above limitation may not apply to you. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This limited 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 regulations, it is essential that your limited warranty registration card be submitted within 30 days of delivery of your boat. Return of the limited warranty registration card is a condition precedent to limited warranty coverage. Before any warranty work is performed, we require that you contact your dealer to request warranty assistance.

YOU MUST GIVE US WRITTEN NOTICE OF YOUR WARRANTY CLAIM PRIOR TO THE EXPIRATION OF YOUR LIMITED WARRANTY AND ALLOW US AN OPPORTUNITY TO RESOLVE THE MATTER.

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, haulouts and other expenses incurred in returning the boat for warranty service.