

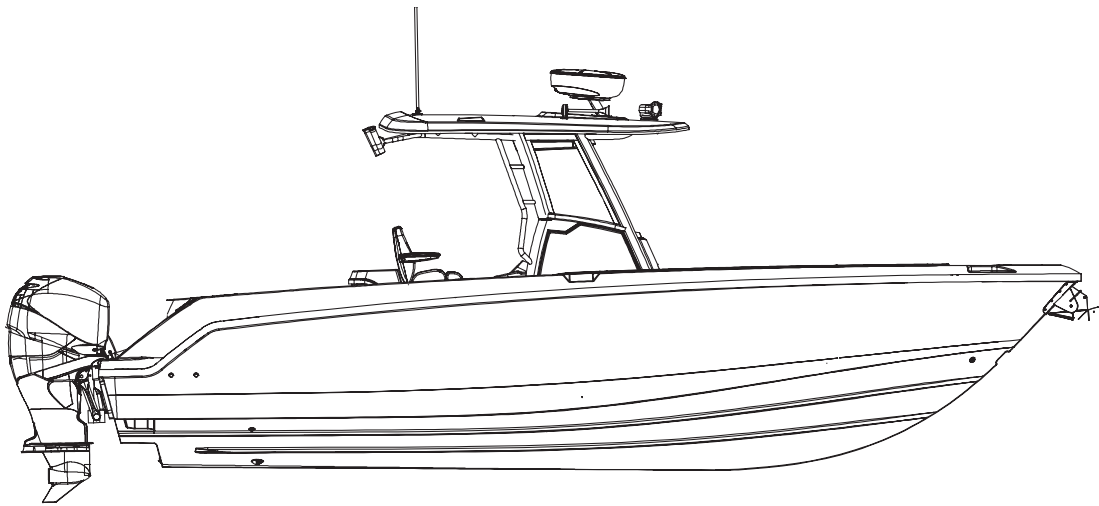
280 Outrage

Owner's Manual



THE UNSINKABLE LEGEND

280 Outrage



“The mission of Boston Whaler® is to provide consumers with the safest, highest quality, most durable boats in the world”



WARNING

Operating, servicing and maintaining a recreational marine vessel can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, service your vessel in a well-ventilated area and wear gloves or wash your hands frequently when servicing this vessel. For more information go to **www.P65warnings.ca.gov/marine**.



T H E U N S I N K A B L E L E G E N D™

Welcome to the Boston Whaler® family and congratulations on your purchase!

For over six decades, Boston Whaler has engineered the most reliable and forward-thinking boats on the water. Every chapter of our history starts with a belief in pushing the limits of what's possible, and this heritage is cause for both reflection and celebration.

Standing behind every Whaler is an extremely qualified network of dealers to provide you with a truly exceptional boating experience. Information and assistance is also available at bostonwhaler.com, where you will find customer resources including how-to videos, maintenance tips, and other technical content. While there, don't forget to sign up to receive future issues of Boston Whaler's lifestyle magazine, Whaler.

Since Boston Whaler's inception in 1958, we are committed to providing customers with the safest, highest-quality, most durable boats in the world. We are confident that as a Whaler owner you will love the quality and pride that is built into every boat.

From all of us here at Whaler, thank you for selecting one of our a legendary and innovative boats. May that choice bring you a lifetime of boating enjoyment.


Introduction

History

Since our founding, Boston Whaler has conceived and built peerless designs that meet boaters' diverse and changing needs. It all began in Braintree, Massachusetts with founder Richard Fisher's inspired new construction method featuring two significant innovations: first, a twin-sponson hull design that resulted in superior stability and a remarkably dry ride, and second, a unique foam-core construction that made the boat not only durable, but unsinkable as well. So for people whose livelihood and lives depend on their boat, Boston Whaler is the right choice because of our seaworthiness, dependability, and the inherent safety of a hull that won't sink even if severely damaged. Plain and simple, Boston Whaler boats are built to last.

In 1961, Fisher's demonstration of that unsinkability was captured by *Life* magazine in photos showing a Whaler® boat being sawed in half and Fisher then motoring away in the remaining half. True to Fisher's vision, Boston Whaler's world-class team has consistently pushed the envelope, furthering advances in manufacturing, design, navigation, and propulsion technologies.

On September 26, 1996, Richard Fisher was posthumously inducted into the National Marine Manufacturer's Association (NMMA) hall of fame for accomplishments made in marine engineering and construction.



In 1958, the legend is born as company founder Dick Fisher demonstrates a Boston Whaler's total unsinkability.

TABLE of CONTENTS

Welcome Letter	INTRO-1
History	INTRO-2
Preface	INTRO-6
Boston Whaler Limited Manufacturers Warranty (US and Canada).....	INTRO-7
Boston Whaler Limited Manufacturers Warranty (Non US or Canada)	INTRO-12
California Evaporative Emissions.....	INTRO-16
Privacy Statement	INTRO-17
Owner's manual	INTRO-18
Your responsibilities.....	INTRO-18
Source of Information.....	INTRO-18
Warranties	INTRO-18
Contact Information	INTRO-18

Chapter 1 • Safety

Safety Labels	1-1
Warning Labels	1-1
Safety Precautions.....	1-1
Safe Boating means.....	1-2
In Addition	1-2
Safe Boating Checklist	1-2
Before Departure.....	1-2
Trailing (if applicable).....	1-2
After Return	1-2
General Considerations	1-3
Maintain Control.....	1-3
Boarding.....	1-3
Impaired Operation	1-3
Operator's Responsibility	1-4
Legally Mandated Equipment (Minimum Required)	1-5
Personal Flotation Devices (PFD's)	1-5
Fire Extinguishers	1-5
Whistle, Horn	1-5
Visual Distress Signal	1-5
Additional recommended Equipment for Safe Operation	1-5
Carbon Monoxide (CO)	1-6
In the Event the CO Alarm Activates	1-6
Lifesaving Equipment.....	1-7
PFD Requirement	1-7
PFD Classification	1-7
Emergency Situations	1-9
Medical Emergency.....	1-9
Water Rescue.....	1-9
Returning to the victim.....	1-9

Making contact	1-9
Getting back on board.....	1-9
Unassisted Reboarding	1-9
Fire	1-9
To lessen the danger of fire	1-10
Flooding, Swamping and Capsizing	1-10
Flooding	1-10
Swamping	1-10
Capsizing	1-10
Collision.....	1-11
Propulsion, Control or Steering Failure	1-11
Grounding	1-11
Distress Signals.....	1-11
Visual distress signals (VDS).....	1-11
Audible distress signals	1-12
Radio Communication.....	1-12
Weather	1-12
Swimming, Diving & Water Skiing	1-13
Swimming	1-13
Diving.....	1-13
Water Skiing	1-14
Water Skiing Signals	1-14
Towed Inflatables	1-16
Engine Emergency Stop Switch	1-16
Theft Deterrent with 1st Mate & Connectivity System (Whaler Watch) (Option)	1-16
1 ST Mate Safety and Security System	1-17
Float Plan	1-17
Chart Your Course	1-17
Environmental Considerations	1-18
Fuel & Oil Spillage	1-18
Excessive Noise	1-18
Wake/Wash.....	1-18
Homeland Security Restrictions	1-18
America's Waterway Watch	1-18
Warning Label Locations	1-18
Symbols on Controls & Prints	1-24

Chapter 2 • General Information

Construction Standard	2-1
Our Hull.....	2-1
Hull Identification Number.....	2-1
Servicing Your Boston Whaler.....	2-1
Manufacturer's Certification.....	2-2
Certification Design Category.....	2-4
Power Capacity	2-4
Specifications & Dimensions.....	2-5

Introduction

Passenger Areas.....	2-6	Fuel/Water Separators	3-6
Recommended Passenger Locations	2-7	Maintenance.....	3-6
Thru-Hull Fittings	2-8	Storage.....	3-6
Features	2-9	Gyroscopic Stabilizer.....	3-7
Helm	2-10	Throttle and Shift Control.....	3-10
Anchor Locker	2-11	Buttons and Switches.....	3-11
Bilge Layout	2-11	Engine Start-up Procedure	3-11
Leaning Post	2-12	Engine Warm Up	3-12
Cockpit/Transom.....	2-13	Engine Shutdown	3-12
Console	2-15	Freshwater System.....	3-12
Hardtop (Option).....	2-16	Filling the Tank.....	3-12
Seating.....	2-17	Disinfecting The Tank.....	3-13
Helm Switch Panel.....	2-18	Freshwater Pump	3-13
VesselView.....	2-19	Maintenance	3-13
VesselView MOBILE	2-19	Leaning Post Faucet.....	3-13
Navigation Lighting.....	2-20	Freshwater Washdown	3-13
Operating The navigation Lighting	2-20	Raw Water System	3-15
Engine Trim	2-21	Operation.....	3-15
Active Trim	2-21	Raw Water Washdown	3-15
Trim Tabs.....	2-21	Maintenance	3-15
Operation.....	2-21	Livewell	3-16
Canvas (Option)	2-22	Operation.....	3-16
Propeller.....	2-23	Maintenance	3-16
Bow Tow Eye (Option)	2-24	Fish Box With Pumpout Discharge	3-16
Docking and Lifting	2-25	Prep Station.....	3-17
Docking	2-25	Head System	3-18
Lifting.....	2-25	Environmental Consideration	3-18
Trailerding	2-26	Portable Head with Pump-Out	3-18
Securing Boat to Trailer.....	2-26	Dockside Discharge	3-18
Securing Trailer to Tow Vehicle	2-26	Vacu-Flush System (Option)	3-19
Engine Trailerding	2-27	Macerator/Overboard Discharge	3-19
		Macerator Operation	3-19
		Maintenance	3-19
		Radial Outriggers (Option)	3-21
		Operation.....	3-21
		To Position The Outriggers	3-21
		Maintenance	3-21
		Entertainment System	3-22
		Bow Table (Option)	3-23
		Bow Filler (Option)	3-23
		Reboarding Ladder	3-23
		Foldaway Trolling Seat (Option).....	3-24
		Spotlight (Option)	3-24
		Operation.....	3-24
		Underwater Lights (Option).....	3-25
		Foldaway Aft Bench Seat	3-25
		Transom Door	3-26
		Dive Door	3-26
		Dive Ladder	3-26

Chapter 3 • Overview & Operation

Bilge Pumps.....	3-1
Fuel & Oil Spillage	3-1
Maintenance	3-1
Hydraulic Power Steering	3-2
Filling & Maintenance.....	3-2
Fuel System	3-3
Fuel Tank.....	3-4
Fuel Vent	3-4
Filling The Tank	3-4
Static Electricity.....	3-5
Ethanol Blended Fuel	3-5
Filling The Tank	3-6
Phase Separation	3-6
Additives	3-6
Fuel Filters	3-6

Introduction

Anchor Windlass (Option)	3-27	Canvas Care and Maintenance.....	5-6
Operation.....	3-27	Maintaining Appearance	5-6
Lowering The Anchor	3-27	Cleaning stubborn Stains.....	5-7
Raising The Anchor	3-27	Maintaining Zippers and Hardware.....	5-7
Anchoring	3-30	Cleaning Acrylic Windscreen.....	5-7
Considerations.....	3-30	Long term Storage & Winterization	5-8
Lowering the Anchor.....	3-31	Engine	5-8
Setting the Anchor.....	3-31	Fuel System	5-8
Weighing the Anchor	3-31	Electrical System	5-8
		Battery	5-8
		Deck.....	5-9
		Drainage.....	5-9
		Avoid Loss	5-9
		Cover.....	5-9
		Trailer Storage	5-9
		Environment	5-9
		Reinforcement Location Diagram	5-10

Chapter 4 • Electrical

DC Electrical System.....	4-1
Batteries	4-1
Battery Trays.....	4-1
Battery Switches.....	4-2
Dockside Battery Charging (Option).....	4-3
House Main breaker	4-4
Voltage Sensitive Relays (VSR)	4-4
12 Volt Accessory Receptacle	4-4
Component Breakers	4-4
Transducer Location Diagram	4-5
Fuse Blocks.....	4-6
Rigging.....	4-6
Electrical Schematics	4-6

Chapter 5 • Care & Maintenance

Routine Care & Maintenance	5-1
Aquatic Invasive Species (AIS)	5-1
Waxing the Gel Coat Surfaces	5-2
Hull Maintenance.....	5-2
Hull Blistering	5-2
Prevention	5-3
Bottom Painting	5-3
Zinc Anodes	5-3
Bottom Painting a Bare Hull.....	5-3
Bottom Painting a Pre-Painted Hull.....	5-3
Rubrail care	5-4
Cleaning Fiberglass & Non-Skid	5-4
Stainless Steel Care.....	5-4
Teak Maintenance	5-5
Seats (Mechanical Parts).....	5-5
Aluminum Care	5-5
Standard Vinyl Cushions	5-6
Cool Technology Vinyl Cushions (Option).....	5-6
Cleaning Instrument Gauges	5-6

Introduction

Preface

READ AND RETAIN this manual. If the boat is sold, ensure all documentation is transferred to the new owner.

Information in this publication is based on the latest product specifications available at the time of printing. Boston Whaler reserves the right to make changes at any time without prior notice. Boston Whaler is not responsible for specification changes to parts or accessories manufactured by other companies.

NOTE: Equipment may vary depending on options selected.

If needed in connection with selling your boat, service history or warranty records on vessels should be requested from the original selling dealer, the servicing dealer and/or the previous owner (where applicable). Information regarding open safety recalls is maintained by the United States Coast Guard, and can be obtained by visiting uscgboating.org.

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BOSTON WHALER LIMITED MANUFACTURER WARRANTY (US AND CANADA)

Boston Whaler, Inc. ("Boston Whaler") provides the following Limited Manufacturer Warranty to the original retail owner of its 2025 model year Boats, if purchased from an authorized Boston Whaler Dealer and operated under normal, non-commercial use, subject to the remedies, exclusions, and limitations set out below.

1. **Ten-Year Structural Hull Limited Warranty:** Any Structural Hull Defect in material or workmanship which is reported within ten (10) years from the date of sale to the original retail owner will be repaired or replaced at Boston Whaler's sole discretion. The "Hull" shall mean the single fiberglass molded shell and integral structural components. A Structural Hull Defect shall mean a substantial defect in the Boat's Hull which causes the Boat to be unfit or unsafe for general use as a pleasure craft under normal operating conditions.
2. **Three-Year Limited Warranty on Components Manufactured or Installed By Boston Whaler: (not applicable to 13 Super Sport or 16 Super Sport models):** Boston Whaler will repair or replace, at its sole discretion, any components manufactured or installed by Boston Whaler that are defective in factory materials and/or workmanship, which are reported within three (3) years from the date of delivery to the first retail purchaser, and are not addressed in the specific warranties listed in paragraphs 1 or 4 or set out in the Exclusions paragraph below.
3. **One-Year Limited Warranty on Accessory Components for the 13 Super Sport and 16 Super Sport Models:** Boston Whaler provides the following Limited Warranty to the original retail owner of any factory-authorized accessory for the 2025 model year 13 Super Sport and 16 Super Sport, if purchased from an authorized Boston Whaler Dealer, authorized Boston Whaler website or any Boston Whaler affiliate and utilized under normal, non-commercial use ("Accessory"), subject to the remedies, exclusions, and limitations set out below. Boston Whaler will repair or replace, at its sole discretion, any Accessory that is defective in material or workmanship, which is reported within one (1) year from the date of delivery to the first retail purchaser. Boston Whaler is not responsible for any defect and/or damage to the Accessory and/or the Boat caused by improper installation, whether performed by the retail owner, dealer or any other third party.
4. **One-Year Limited Warranty on Upholstered Items, Canvas, Teak, and Powder Coating:** Boston Whaler will repair or replace, at its sole discretion, any upholstered items, canvas, teak, and powder coating manufactured or installed by Boston Whaler that are defective in factory materials and/or workmanship and are reported within one (1) year from the date of delivery to the first retail purchaser.
5. **Limited Engine Warranty:** Retail owners will be entitled to the limited engine warranty as provided in the warranty manual from the engine manufacturer that was delivered to the retail owner with his or her Boston Whaler Boat.

EXCLUSIONS

This Limited Manufacturer Warranty does not apply to any Boat which has been salvaged or declared a total loss or constructive total loss for any reason not covered in this limited warranty. This Warranty also does not apply to the following items:

- 1) Expenses for hauling out or transportation to and from the dealer or Boston Whaler factory for warranty service.
- 2) Equipment or accessories which are not installed by Boston Whaler or which carry their own individual warranties, including but not limited to engines, engine components, batteries, propellers, controls, steering mechanisms, and electronics.
- 3) Damage, deterioration, discoloration or mold of cushions or cosmetic surface finishes, including scratches, gouges, chips, chalking, blistering, cracking, crazing, fading or oxidation of gel coat, stress lines, plated or

painted metal and stainless steel finishes, plastics or acrylic materials, or anti-fouling bottom paint.

4) Windshield breakage and leakage.

5) Any Boat initially sold at retail by a party other than an authorized Boston Whaler dealer.

6) Damage resulting from abuse, misuse, improper rigging and installation by an owner or any other person or entity that is not an authorized dealer, accidents, or overloading or powering in excess of the recommended maximum horsepower.

7) Failure of the owner to use, maintain, or store the Boat as specified in the Boston Whaler owner's manual; and any other failure to provide reasonable care and maintenance. Normal wear and tear maintenance items are excluded from warranty coverage including but not limited to filters, bulbs, batteries, bungees, wiper blades, anchor rope, trailer finishes, tires, brakes, bearings, and lights.

8) Any Boston Whaler Boat which has been altered or modified from Boston Whaler factory specifications, including penetration of the hull by anyone other than Boston Whaler factory personnel or Boston Whaler authorized dealer service personnel following factory specified procedures.

9) Damages resulting from use of improper trailer, improperly placed supporting bunks or slings, incorrect bunks placement, or improper boat lift or sling.

10) Damages due to failure to properly tow the Boat. For those Boats for which Boston Whaler offers a yacht tender package, damages due to towing when the package has not been installed.

11) Any Boston Whaler Boat used for commercial purposes, which includes, but is not limited to, any for-profit or other revenue-generating uses.

12) Any representation or implication relating to speed, range, fuel consumption or estimated performance characteristics.

13) Any failure or defect caused by an act of nature resulting in damage, cost, or expense.

14) Any failure or defect arising from a previous repair made by a non-authorized service provider.

15) Any item exceeding the expressed coverage limits specified in any Boston Whaler Limited Manufacturer Warranty.

16) Failure of the owner to use, maintain, or store an Accessory in reasonable fashion; and any other failure to provide reasonable care and maintenance.

17) Any accessory which has been altered or modified from Boston Whaler factory specifications.

18) Any accessory not purchased from an authorized Boston Whaler Dealer, authorized Boston Whaler website, or authorized Boston Whaler affiliate. For a list of Boston Whaler's affiliates, please refer to www.brunswick.com.

19) Any accessory used for commercial purposes, which includes but is not limited to, any for-profit or other revenue generating uses.

20) Any defect or repair requiring redesign of the Boat, except pursuant to the recall provisions of the United States Federal Boat Safety Act of 1971 or the recall laws of any other foreign jurisdiction.

SOLE REMEDY

THE REMEDY OF REPAIR OR REPLACEMENT OF PARTS OR MATERIALS THAT ARE FOUND TO BE DEFECTIVE IN FACTORY MATERIALS OR WORKMANSHIP COVERED BY THIS LIMITED MANUFACTURER WARRANTY SHALL CONSTITUTE THE OWNER'S SOLE AND EXCLUSIVE REMEDY AGAINST BOSTON WHALER FOR ANY CLAIMS WHATSOEVER OF ECONOMIC LOSS RESULTING FROM PRODUCT FAILURE.

ENVIRONMENTAL POLICIES

In keeping with environmental policies and practices, Boston Whaler reserves the right to utilize reconditioned, refurbished, repaired or remanufactured products or parts in the warranty repair or replacement process. Such products and parts will be comparable in function and performance to an original product or part and warranted for the remainder of the original warranty period. In no event shall any repair or replacement under this Limited Manufacturer Warranty exceed the fair market value of the product as of the date of the owner's claim. Acceptance of any product returned or any refund provided by Boston Whaler shall not be deemed an admission that the product is defective. Products that are replaced become the property of Boston Whaler.

OTHER LIMITATIONS

EXCEPT AS SET FORTH HEREIN, THERE ARE NO OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, PROVIDED BY BOSTON WHALER ON THIS BOAT. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING IMPLIED WARRANTIES OF FITNESS AND MERCHANTABILITY, ARE EXPRESSLY EXCLUDED. BOSTON WHALER FURTHER DISCLAIMS ANY LIABILITY FOR ECONOMIC LOSS ARISING FROM CLAIMS OF PRODUCT FAILURE, NEGLIGENCE, DEFECTIVE DESIGN, MANUFACTURING DEFECT, FAILURE TO WARN AND/OR INSTRUCT, LACK OF SEAWORTHINESS, AND ANY OTHER THEORY OF LIABILITY NOT EXPRESSLY COVERED UNDER THE TERMS OF THIS LIMITED MANUFACTURER WARRANTY.

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS DISCLAIMED. TO THE EXTENT THE IMPLIED WARRANTY CANNOT BE DISCLAIMED, IT IS LIMITED TO THE SHORTER OF ONE YEAR FROM THE DATE OF DELIVERY TO THE FIRST RETAIL OWNER OR THE DURATION OF THE RESPECTIVE EXPRESS LIMITED WARRANTIES STATED HEREIN. TO THE EXTENT ALLOWED BY LAW, NEITHER BOSTON WHALER, NOR THE SELLING DEALER, SHALL HAVE ANY RESPONSIBILITY FOR LOSS OF THE BOAT, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT BE APPLICABLE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT BE APPLICABLE. THIS WARRANTY GIVES THE OWNER SPECIFIC LEGAL RIGHTS, AND THE OWNER MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE OR COUNTRY TO COUNTRY.

STATUTE OF LIMITATIONS

Any action for rescission or revocation against Boston Whaler shall be barred unless it is commenced within one (1) year from the date of accrual of such cause of action. This provision does not grant any consumer a right of rescission or revocation against Boston Whaler, where such right does not otherwise exist under applicable law. Some states may not allow the applicable statute of limitations for rescission or revocation to be reduced, so this provision may not apply to each retail owner.

OWNER'S OBLIGATIONS

To initiate a warranty claim, it is the responsibility of the owner to contact an authorized Boston Whaler dealer immediately after discovery of any defect, describe the nature of the problem, and provide a hull serial number, date of purchase, and name of selling dealer. The authorized dealer will notify Boston Whaler, who is solely responsible for determining and authorizing in writing the remedial action(s) to be performed at

either an authorized Boston Whaler dealership chosen by Boston Whaler or at the Boston Whaler factory. The owner should notify Boston Whaler of any Boat being repaired by an authorized Boston Whaler dealer which has been at the dealership for fifteen (15) days, or of any claimed defect which was not corrected after one repair attempt. The owner must provide Boston Whaler with a reasonable opportunity to repair, and reasonable access to the Boston Whaler Boat for warranty service and the owner shall pay for all related transportation charges and/or travel time. If the owner cannot deliver the product to such a dealer, written notice must be given to Boston Whaler. Boston Whaler will then arrange for the inspection and any covered repair and the owner shall pay for all related transportation charges and/or travel time. Our privacy policies are available at www.bostonwhaler.com.

ASSIGNMENT OF COMPONENT WARRANTIES

Except as expressly set out herein, all warranties provided by the manufacturers and distributors of components, equipment, and parts on the Boat (collectively "Component Manufacturers") are hereby assigned to the owner to the extent permitted by the Component Manufacturers, as the owner's sole and exclusive remedy with respect to such items.

REGISTRATION & WARRANTY TRANSFER POLICY

The limited warranty coverage is activated by the authorized selling dealer registering the sale of a new Boat with Boston Whaler.

The Ten-Year, Three-Year, and One-Year limited warranties are transferable to a subsequent owner, except the one-year Accessory warranty which is not transferrable and this Limited Manufacturer Warranty will not transfer to any new owner of a Boat which has been salvaged and resold, or resold after a declaration of a total loss or a constructive total loss, i.e., the cost of repair exceeds the value of the Boat. The new owner must fill out and submit the online Boston Whaler warranty transfer form, accessible from www.bostonwhaler.com. A copy of the bill of sale will be required to submit with the form. The warranty transfer must be completed within 30 days of purchase. Notwithstanding anything in this Limited Manufacturer Warranty to the contrary, Boston Whaler reserves the right to reject any warranty transfer request for a Boston Whaler Boat that has been damaged, neglected, or otherwise previously excluded from warranty.

MODIFICATIONS & SEVERABILITY

The terms and conditions contained herein, as well as those of any documents prepared in conjunction with the sale of this vessel may not be modified, altered or waived by any action, inaction, or representations, whether oral or in writing, except upon the expressed, written authority of a management level employee of Boston Whaler. The invalidity or unenforceability of any one or more of the provisions herein shall not affect the validity and enforceability of the other provisions.

GOVERNING LAW AND VENUE

This Warranty shall be interpreted and construed according to and governed by the laws of the State of Tennessee, without regard to conflict of law principles. Venue for any and all disputes arising out of or related to this Warranty, including without limitation the interpretation, performance or breach of this Warranty, shall be solely and exclusively before the United States District Court for the Eastern District of the State of Tennessee. The parties consent to the in personam jurisdiction of said court for the purposes of any such litigation and waive, fully and completely, any right to dismiss and/or transfer any action pursuant to 28 U.S.C. Section 1404 or 1406 (or any successor statutes) or the doctrine of forum non conveniens. If the United States District Court does not have subject matter jurisdiction of said matter, then such matter shall be litigated solely and exclusively before the appropriate state court of competent jurisdiction located in Knox County, Tennessee, and the parties consent to the personal jurisdiction of such court for the purpose of such litigation.

SAFETY

It is your responsibility (as well as the responsibility of any other operator of this Boat) to be familiar with and observe all local, state and federal laws, rules and regulations regarding boating, navigation and boating safety. You and any other operator of this Boat should take a course in boating and boating safety before operation of this Boat and should be completely familiar with all systems regarding safe operation of this Boat. Personal flotation devices should be worn by each passenger in accordance with U.S. Coast Guard standards and state and federal law.

World Headquarters
100 Whaler Way, Edgewater, FL 32141
(386) 428-0057
www.bostonwhaler.com

BOSTON WHALER LIMITED MANUFACTURER WARRANTY (Outside the U.S. or Canada)

Boston Whaler, Inc. ("Boston Whaler") provides the following Limited Manufacturer Warranty to the original retail owner of its 2025 model year Boats, that if purchased from an authorized Boston Whaler dealer and operated under normal, non-commercial use, the authorized dealer will repair or replace, at its sole discretion, any defect in material or workmanship in the Boston Whaler Boat that is reported within the applicable Limited Manufacturer Warranty periods and within the scope as set out below.

Mandatory warranty rights, including a consumer's mandatory statutory rights, by law are not affected by this Limited Manufacturer Warranty and in particular not limited or excluded. These mandatory legal rights exist regardless of whether a warranty claim occurs or rights are asserted under this Limited Manufacturer Warranty.

SCOPE

This Limited Manufacturer Warranty applies only to Boston Whaler Boats purchased outside of the US and Canada, including the territory of the European Union and Australia, and to recreational use customers only (not commercial users). Commercial use, which voids the Limited Manufacturer Warranty, is defined as any use of the product which generates income, even if the product is only occasionally used for such purposes.

Routine maintenance outlined in the Operation and Maintenance Manual must be timely performed in order to maintain Limited Manufacturer Warranty coverage. This Limited Manufacturer Warranty applies to the following items:

- 1. Ten-Year Structural Hull Limited Warranty:** Any Structural Hull Defect in material or workmanship which is reported within ten (10) years from the date of sale to the original retail owner will be repaired or replaced at Boston Whaler's sole discretion. The "Hull" shall mean the single fiberglass molded shell and integral structural components. A Structural Hull Defect shall mean a substantial defect in the Boat's Hull which causes the Boat to be unfit or unsafe for general use as a pleasure craft under normal operating conditions
- 2. Three-Year Limited Warranty on Components Manufactured or Installed By Boston Whaler (not applicable to 13 Super Sport or 16 Super Sport models):** Boston Whaler will repair or replace, at its sole discretion, any components manufactured or installed by Boston Whaler that are defective in factory materials and/or workmanship, which are reported within three (3) years from the date of sale to the original retail owner, and are not addressed in the specific warranties listed in paragraphs 1 or 4 or set out in the Exclusions paragraph below.
- 3. One-Year Limited Warranty on Accessory Components for the 13 Super Sport and 16 Super Sport Models:** Boston Whaler provides the following Limited Warranty to the original retail owner of any factory-authorized accessory for the 2025 model year 13 Super Sport and 16 Super Sport, if purchased from an authorized Boston Whaler Dealer, authorized Boston Whaler website or any Boston Whaler affiliate and utilized under normal, non-commercial use ("Accessory"), subject to the remedies, exclusions, and limitations set out below. Boston Whaler will repair or replace, at its sole discretion, any Accessory that is defective in material or workmanship, which is reported within one (1) year from the date of sale to the original retail owner. Boston Whaler is not responsible for any defect and/or damage to the Accessory and/or the Boat caused by improper installation, whether performed by the retail consumer, dealer or any other third party.
- 4. One-Year Limited Warranty on Upholstered Items, Canvas, Teak, and Powder Coating:** Boston Whaler will repair or replace, at its sole discretion, any upholstered items, canvas, teak, and powder coating manufactured or installed by Boston Whaler that are defective in factory materials and/or workmanship and are reported within one (1) year from the date of sale to the original retail owner.

- 5. Limited Engine Warranty:** Retail owners will be entitled to the limited engine warranty as provided in the warranty manual from the engine manufacturer that was delivered to the original retail owner with his or her Boston Whaler Boat.

EXCLUSIONS

This Limited Manufacturer Warranty does not apply to any Boat which has been salvaged or declared a total loss or constructive total loss for any reason not covered in this limited warranty. This warranty also does not apply to the following items:

- 1) Expenses for hauling out, transportation to and from the dealer or the Boston Whaler factory for warranty service.
- 2) Equipment or accessories which are not installed by Boston Whaler or which carry their own individual warranties, including but not limited to engines, engine components, batteries, propellers, controls, steering mechanisms, and electronics.
- 3) Damage, deterioration, discoloration or mold of cushions or cosmetic surface finishes, including scratches, gouges, chips, chalking, blistering, cracking, crazing, fading or oxidation of gel coat, stress lines, plated or painted metal and stainless steel finishes, plastics or acrylic materials, or anti-fouling bottom paint.
- 4) Windshield breakage and leakage.
- 5) Any Boston Whaler Boat initially sold at retail by a party other than an authorized Boston Whaler dealer.
- 6) Damage resulting from abuse, misuse, improper rigging and installation by an owner or any other person or entity not being an authorized dealer, accidents, overloading or powering in excess of the recommended maximum horsepower.
- 7) Failure of the owner to use, maintain, or store the Boat as specified in the Boston Whaler owner's manual; and any other failure to provide reasonable care and maintenance. Normal wear and tear maintenance items are excluded from warranty coverage including but not limited to filters, bulbs, batteries, bungees, wiper blades, anchor rope, trailer finishes, tires, brakes, bearings and lights.
- 8) Damages due to failure to properly tow the Boat. For those Boats for which Boston Whaler offers a yacht tender package, damage due to towing when the package has not been installed.
- 9) Any Boston Whaler Boat which has been altered or modified from Boston Whaler factory specifications, including penetration of the hull by anyone other than Boston Whaler factory personnel or Boston Whaler authorized dealer service personnel following factory specified procedures.
- 10) Damage resulting from use of improper trailer, improperly placed supporting bunks or slings, incorrect bunks placement and improper Boat lift or sling.
- 11) Any Boston Whaler Boat used for commercial purposes, which includes, but is not limited to, any for-profit or other revenue-generating uses.
- 12) Any representation or implication relating to speed, range, fuel consumption or estimated performance characteristics.
- 13) Any failure or defect caused by an act of nature resulting in damage, cost, or expense;
- 14) Any failure or defect arising from a previous repair made by a non-authorized service provider.
- 15) Any item exceeding the expressed coverage limits specified in any Boston Whaler Limited Manufacturer Warranty.
- 16) Failure of the owner to use, maintain, or store an Accessory in reasonable fashion; and any other failure to provide reasonable care and maintenance.
- 17) Any Accessory which has been altered or modified from Boston Whaler factory specifications.
- 18) Any Accessory not purchased from an authorized Boston Whaler Dealer, authorized Boston Whaler

website, or authorized Boston Whaler affiliate. For a list of Boston Whaler's affiliates, please refer to www.brunswick.com.

19) Any Accessory used for commercial purposes, which includes but is not limited to, any for-profit or other revenue generating uses.

20) Any defect or repair requiring redesign of the Boat, except pursuant to the recall provisions of the United States Federal Boat Safety Act of 1971 or the recall laws of any other foreign jurisdiction.

ENVIRONMENTAL POLICIES

In keeping with environmental policies and practices, Boston Whaler reserves the right to utilize reconditioned, refurbished, repaired or remanufactured products or parts in the warranty repair or replacement process. Such products and parts will be comparable in function and performance to an original product or part and warranted for the remainder of the original warranty period.

ACCESS FOR SERVICE

The owner must provide Boston Whaler with a reasonable opportunity to repair, and reasonable access to the Boston Whaler Boat for warranty service. Warranty claims shall be made by delivering the Boston Whaler Boat for inspection to a Boston Whaler dealer authorized to service the product. If the owner cannot deliver the product to such a dealer, written notice must be given to Boston Whaler. Boston Whaler will then arrange for the inspection and any covered repair and the owner shall pay for all related transportation charges and/or travel time.

STATUTE OF LIMITATIONS

Without prejudice to your mandatory statutory rights, any action for rescission or revocation against Boston Whaler shall be barred unless it is commenced within one (1) year from the date of accrual of such cause of action, unless a longer period is prescribed by local law. This section shall not apply to Boston Whaler Boats purchased in Australia.

ASSIGNMENT OF COMPONENT WARRANTIES

Except as expressly set out herein, all warranties provided by the manufacturers and distributors of components, equipment, and parts on the Boat (collectively "Component Manufacturers") are hereby assigned to the owner to the extent permitted by the Component Manufacturers, as the owner's sole and exclusive remedy with respect to such items.

OWNER'S OBLIGATIONS

To initiate a warranty claim, it is the responsibility of the owner to contact an authorized Boston Whaler dealer immediately after discovery of any defect, describe the nature of the problem, and provide a hull serial number, date of purchase, and name of selling dealer. The authorized dealer will notify Boston Whaler, who is solely responsible for determining and authorizing in writing the remedial action(s) to be performed at either an authorized Boston Whaler dealership chosen by Boston Whaler or at the Boston Whaler factory. The owner should notify Boston Whaler of any Boat being repaired by an authorized Boston Whaler dealer which has been at the dealership for fifteen (15) days, or of any claimed defect which was not corrected after one repair attempt. Our privacy policies are available at www.bostonwhaler.com.

REGISTRATION & WARRANTY TRANSFER POLICY

The limited warranty coverage is activated by the authorized selling dealer registering the sale of a new Boat with Boston Whaler.

The Ten-year, Three-year, and One-year Limited Warranties are transferable to a subsequent owner, except

the One-year Accessory Warranty which is not transferrable, and this Limited Manufacturer Warranty will not transfer to any new owner of a Boat which has been salvaged and resold, or resold after a declaration of a total loss or a constructive total loss, i.e., the cost of repair exceeds the value of the Boat. The new owner must fill out and submit the online Boston Whaler warranty transfer form, accessible from www.bostonwhaler.com. A copy of the bill of sale will be required to submit with the form. The warranty transfer must be completed within 30 days of purchase. Notwithstanding anything in this Limited Manufacturer Warranty to the contrary, Boston Whaler reserves the right to reject any warranty transfer request for a Boston Whaler Boat that has been damaged, neglected, or otherwise previously excluded from warranty.

MODIFICATIONS & SEVERABILITY

The terms and conditions contained herein, as well as those of any documents prepared in conjunction with the sale of this vessel may not be modified, altered or waived by any action, inaction, or representations, whether oral or in writing, except upon the expressed, written authority of a management level employee of Boston Whaler. The invalidity or unenforceability of any one or more of the provisions herein shall not affect the validity and enforceability of the other provisions.

SAFETY

It is your responsibility (as well as the responsibility of any other operator of this Boat) to be familiar with and observe all local, state and federal laws, rules and regulations regarding Boating, navigation and Boating safety. You and any other operator of this Boat should take a course in Boating and Boating safety before operation of this Boat and should be completely familiar with all systems regarding safe operation of this Boat. Personal flotation devices should be worn by each passenger in accordance with applicable standards and state and federal law.

THE FOLLOWING SECTION IS APPLICABLE TO EMEA CONSUMERS ONLY

Boston Whaler Boats come with guarantees that cannot be excluded under EU and/or local Consumer Law. For the avoidance of doubt, the Boston Whaler Limited Manufacturer Warranty does not in any way adversely affect any possible right and/or protection the retail owner may have under said applicable legislation.

THE FOLLOWING SECTION IS APPLICABLE TO AUSTRALIAN CONSUMERS ONLY

Boston Whaler Boats come with guarantees that cannot be excluded under the Australian Consumer Law. Retail owners are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. Retail owners are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This Limited Manufacturer Warranty does not cover any expenses that retail owners may incur claiming the warranty.

The benefits to retail owners given by this Limited Manufacturer Warranty are in addition to other rights and remedies of the consumer under a law in relation to the goods or services to which the Limited Manufacturer Warranty relates.

World Headquarters
100 Whaler Way, Edgewater, FL 32141
011 1 (386) 428-0057
bostonwhaler.com

CALIFORNIA EVAPORATIVE EMISSIONS CONTROL SYSTEM WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and Boston Whaler, Inc. are pleased to explain the evaporative emission control system's warranty on your 2025 MY spark-ignition marine watercraft (SIMW). In California, new spark-ignition marine watercraft must be designed, built, and equipped to meet the State's stringent anti-smog standards. Boston Whaler, Inc. must warrant the evaporative emission control system on your spark ignition marine watercraft for the period listed below provided there has been no abuse, neglect, or improper maintenance of your spark-ignition marine watercraft.

Your evaporative emission control system may include parts such as: carburetors, fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, and other associated components.

MANUFACTURER'S WARRANTY COVERAGE:

This evaporative emission control system is warranted for three years. If any evaporative emission-related part on your spark-ignition marine watercraft is defective, the part will be repaired or replaced by Boston Whaler, Inc.

OWNER'S WARRANTY RESPONSIBILITIES:

- As the spark ignition marine watercraft owner, you are responsible for performance of the required maintenance listed in your owner's manual. Boston Whaler, Inc. recommends that you retain all receipts covering maintenance on your SIMW, but Boston Whaler, Inc. cannot deny warranty solely for the lack of receipts.
- As the SIMW owner, you should however be aware that the Boston Whaler, Inc. may deny you warranty coverage if your spark-ignition marine watercraft or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications.
- You are responsible for presenting your spark-ignition marine watercraft to a Boston Whaler, Inc. distribution center or service center as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have a question regarding your warranty coverage, you should contact Boston Whaler, Inc. at 1- 877-294-5645.

SIMW EVAPORATIVE EMISSIONS WARRANTY PARTS:

Fuel tank	Grade Valves
Fuel feed hoses	Fuel Fill Deck Plate w/Cap and Pressure Relief Valve
Fuel Line Fittings	Hose Clamps on Fuel System Components
Fuel Demand Valves	Fuel Level Vent Valve

All other parts not listed that may affect the evaporative emissions control system.

PRIVACY STATEMENT

Thank you for purchasing a boat or requesting information from Boston Whaler. This Privacy Statement is to inform you how we collect, use, disclose, and safeguard the personal information you provide to us through your purchases, requests for brochures, product registration cards, promotions, surveys, call centers, or other customer contacts. To see our full Privacy Policy and any updates, please visit www.bostonwhaler.com and select the Privacy Policy link. "Personal information" may include your name, age, mailing address, residential phone number, or e-mail address. It may also include income ranges, marital status, product or lifestyle preferences, and information concerning dealer service.

How we collect personal information: Our authorized dealer provided Boston Whaler or our company in the European Union with personal information collected at the time of your boat order/purchase with other product registration data and will continue to provide warranty and servicing information on your boat. We will send you customer satisfaction surveys which you may elect to return to provide us with information on your boat purchase and your servicing needs. Your personal information may be gathered by or shared with Boston Whaler's marketing providers and affiliated companies, who have comparable levels of privacy protection, for the purposes described in this statement. Boston Whaler, your dealer, and our marketing providers collect personal information when you request information about our companies and from surveys, promotions, contests, correspondence, your e-mails, telephone inquiries, web forms, and other communications. **How We Use and Disclose Personal Information:** Unless you advise us otherwise, Boston Whaler, our authorized dealers, affiliated companies, and our marketing providers may generally collect, use, disclose, hold, and file your personal information for the following purposes: (1) Providing goods, brochures, information, incentives, and/or services to you or on your behalf; (2) Fulfilling the terms of our limited warranty or other service obligation; (3) Facilitating recalls or service campaigns if necessary; (4) Reviewing goods and/or services provided to you in product, services, and marketing analyses; (5) Ensuring your satisfaction through surveys or other contacts; (6) Administration, billing, accounting, and collections; and protecting against fraud and error; and (7) Investigating a breach or a contravention of a law, complying with a subpoena, warrant, court order, or as required or otherwise permitted by law. Boston whaler will not sell your personal information or subject you to telemarketing or unsolicited e-mail.

Safeguards: We use security safeguards appropriate to the sensitivity of personal information to protect it from loss or theft, as well as prohibiting unauthorized access, disclosure, copying, use or modification of your personal information. These safeguards include restricted access to offices and equipment, security clearances, the use of passwords and/or encryption, publishing our privacy policy to appropriate personnel with instructions to act in accordance with its principles, and contractual provisions with our marketing agents and authorized dealers to follow the principles of our privacy policy.

Access and correction to your personal information: Subject to the exceptions provided by applicable law, we will provide, upon written request, your specific personal information collected in a form which is generally understandable. Your Personal Information is held by us and for us by our marketing agency, Rollick Company, who has contractually agreed to protect your information according to our privacy policies at the following addresses: Boston Whaler Inc., 100 Whaler Way, Edgewater, FL 32141. Please direct corrections, withdrawal of consent for specific purpose, complaints or other inquiries regarding personal information to: Rollick Company, 1078 Headquarters Park Drive, Fenton, MO, 63026; phone: (636) 343-9988, fax: (636) 326-3282. You can withdraw consent for us to use your personal information at any time or provide corrections upon providing to us a 30-day notice, unless withdrawing consent would impede the performance of legal obligations. We are required by law to provide you with information for product recall and other product safety relates purposes. The withdrawal of your consent may also adversely affect our ability to provide products and services to you and to maintain our relationship. Please note, notifying us will not result in withdrawing consent from your dealer, who should be contacted separately.

Obtaining consent: If any supplementary disclosure is required, we will obtain your consent for disclosure to other persons or organizations and for other purposes than stated herein, unless otherwise permitted by law.

Thank you for your business. We hope you have many years of wonderful boating experiences!

Owner's Manual

The material here and in the rest of the Owner's Manual Packet:

- Gives you basic safety information;
- Describes the features of your boat;
- Describes the equipment on your boat;
- Describes the fundamentals of boat use; and
- Contains service and maintenance information.

You must learn to operate this boat as well as read, understand and use this manual.

What this manual does not give you is a course in boating safety, or how to navigate, anchor or dock your boat. Operating a power boat safely requires more skills, knowledge and awareness than is necessary for a car or truck.

Your responsibilities

For your safety, the safety of your passengers, other boaters and people in the water, you must:

- Take a boating safety course;
- Get instruction in the safe and proper handling of your boat;
- Understand and follow the "rules of the road";
- Learn how to navigate.

Source of Information

In North America, contact one of the following for boating courses:

- U.S. Coast Guard Auxiliary
- U.S. Power Squadron
- Canadian Power and Sail Squadrons
- Red Cross
- State Boating Offices
- Yacht Club

Contact the Boat/U.S. Foundation at 800-336-2628 or go to www.boatus.com/foundation

Outside of North America, contact your boat dealer and/or your governmental boating agency for assistance.

A comprehensive background in boating can be found in the book, *Chapman - Piloting, Seamanship*

and *Small Boat Handling*, by Elbert S. Maloney, published by Hearst Marine.

Warranties

In addition to the Boston Whaler Limited Warranty for your boat, each component and/or system on your boat has its own warranty that will be found with the specific information and manual for that component. The manuals are included with your Owner's Manual Packet. Locate and read the individual warranties, then keep them together for easy future reference.

Contact Information

Boston Whaler, Inc.

877-294-5645
www.bostonwhaler.com

United States Coast Guard

800-368-5647
www.uscgboating.org

Boat US Foundation

800-336-2628
www.boatus.com/foundation

Canadian Coast Guard

800-267-6687
www.ccg-gcc.gc.ca/

Safety Labels

The most important aspect of boating is safety. Although every effort is made to address the numerous issues regarding the safe usage of your boat, it is strongly recommended that you avail yourself of the training and knowledge available through boating safety courses, etc.

Warning Labels

Mounted at key locations throughout your boat are warning labels which advise the owner/operator of imperative safety precautions to follow when operating and/or servicing equipment.

The examples below indicate the level of hazard by color and explanation.

DANGER

Denotes an immediate hazard exists that **WILL** result in severe personal injury or death.

WARNING

Denotes hazards or unsafe practices that **MAY** result in severe personal injury or death.

CAUTION

Denotes hazards or unsafe practices that **COULD** result in minor personal injury, product or property damage.

NOTICE

Denotes information that is important to know prior to operation and/or maintenance, but is not hazard related.

Safety Precautions

The examples below are of precautions which appear throughout this manual and must be observed when operating or servicing your boat. Learn to recognize the degree of hazard and understand the explanations of safety prior to reading this manual.

Always use common sense in the operation and servicing of your boat.

DANGER

Denotes an immediate hazard exists that **WILL** result in severe personal injury or death.

WARNING

Denotes hazards or unsafe practices that **MAY** result in severe personal injury or death.

CAUTION

Denotes hazards or unsafe practices that **COULD** result in minor personal injury, product or property damage.

NOTICE

Denotes information that is important to know prior to operation and/or maintenance, but is not hazard related.

ATTENTION

Denotes information found in the owner's manual to call attention to the safe operation or certain features of this vessel.

Safe Boating Means

- Knowing the limitations of your boat
- Following the “RULES of the ROAD”
- Keeping a sharp lookout for people and objects in the water.
- Not boating in water or weather conditions that are beyond the boat’s and/or operator’s capability.
- Never operating the boat while under the influence of drugs or alcohol.
- Being aware of your passengers safety at all times.
- Reducing speed when there is limited visibility, rough water, people in the water nearby , boats or structures.

In Addition:

- Maintain your boat and its safety and other systems as recommended in this manual.
- Have the boat inspected by a qualified mechanic or dealer, at least annually.
- Ensure that the Coast Guard required safety equipment is on board and functioning.

NOTICE

As a boat owner or operator, YOU are responsible for your safety and the safety of your passengers and other boaters.

Boating in beautiful weather and calm water conditions can be a wonderful experience. Boating however requires considerably greater skills than operating a land vehicle. Taking a boating course is the best way to prepare for a safe and enjoyable experience on the water.

- Take a Coast Guard, U.S. Power Squadron or equivalent boating safety course. (Call the Boat/U.S. Foundation at 1-800 336-2628 for information on available courses, or go to: “www.boatus.com/foundation” on the internet.)
- Get hands-on training on how to operate your boat properly.

Safe Boating Checklist

Before Departure

- ☐ Update checklists when equipment is added or modified.
- ☐ Weather-forecast safe
- ☐ Required documents-on board
- ☐ Navigation charts & equipment-on board
- ☐ Safety equipment-on board
- ☐ Safety training-passengers & crew instructed on procedures, location, and use of safety equipment.
- ☐ Drain plugs-installed
- ☐ Bilge pumps-working & clean
- ☐ Blower-working
- ☐ Navigation lights-working
- ☐ Horn-working
- ☐ Fuel system-no leaks or fumes
- ☐ Fuel filter-tight & clean
- ☐ Power steering fluid-filled (if applicable)
- ☐ Steering system-working smoothly & properly
- ☐ Battery-electrolyte level within range
- ☐ Float plan-filed with friend or relative

Trailer (if applicable)

- ☐ Boat position-secure on trailer
- ☐ Tiedowns-tight
- ☐ Winch-locked
- ☐ Trailer hitch-connected
- ☐ Engine clearance-in trailering position
- ☐ Safety chains-attached
- ☐ Electrical-Lights, brake lights, turn signals working
- ☐ Mirrors-adjusted for trailering

After Return

- ☐ PFD’s & other safety gear-dry, stowed for next use
- ☐ Fuel tanks-filled (allow for expansion) to prevent condensation
- ☐ Fuel system-no leaks
- ☐ Bilge pump-operating properly
- ☐ Bilge-clean, no leaks
- ☐ Float plan-notify person with whom you filed plan

General Considerations

- Know how your boat handles under different conditions. Recognize your limitations and the boat's limitations. Modify speed in keeping with weather, sea and traffic conditions.
- Instruct passengers on location and use of safety equipment and procedures.
- Instruct passengers on the fundamentals of operating your boat in case you are unable to do so.
- You are responsible for passenger's actions. If they place themselves or the boat in danger, immediately correct them.
- ***Remember the "Rule of Thirds":*** Use one third of the fuel for the trip outbound, one third for the return trip, and keep one third for reserve.

Maintain Control

High performance boats require intimate knowledge of their handling characteristics for safe high speed operation.

- Learn the effects of trim, steering and throttle changes at gradually increasing levels of speed.
- Approach full throttle while adjusting trim for safe handling of the vessel.

On the water there are no marked traffic lanes, no traffic signs or lights, and boats have no turn signals. The boat operator must keep her or his attention focused not only on what's ahead but what's on the left, right and behind the boat.

The operator must always be alert to approaching boats (from the rear, right and left sides, as well as those ahead). There can be people in the water, partially submerged debris, and other navigational hazards such as rocks, sand bars or dangerous currents, to name a few.

Your passengers are relying on you to operate and maneuver the boat safely so that they are not in danger of going overboard. If you turn too quickly,

increase or decrease speed abruptly, your passengers are at risk of being thrown overboard or thrown about the boat.

When visibility becomes impaired because of weather or time of day, use navigational lights to ensure other boats can see you. In addition, if high bow angle causes reduced visibility, slow down to allow sufficient time to react if an emergency occurs.

Boarding

- Board only one person at a time.
- Never jump into boat. Step or climb into cockpit.
- Load gear after you are aboard. Carrying gear while boarding can cause you to lose balance.
- Distribute weight evenly.
- Instruct passengers where to sit during on-plane operation to reduce the possibility of falling overboard during high speed maneuvers.
- If gear is not immediately needed, stow it in secure areas.
- Safety gear must be immediately accessible at all times.

Impaired Operation

WARNING

CONTROL HAZARD-Federal laws prohibit operating a boat while under the influence of alcohol or drugs. These laws are vigorously enforced.

The detrimental effects of alcohol and drugs are increased by wind, waves and sun, and will decrease your response time and ability to act in critical situations. Give special attention to the effects of alcohol and drugs while boating. No other single factor causes as many marine accidents and deaths. Death or serious injury and damage to personal and private property can result from being impaired while operating a boat.

Operator's Responsibility

Your degree of enjoyment on the water depends on you, your equipment and other people who, like yourself boat responsibly. As a boat operator you should:

- Make sure that all occupants always wear a U.S. Coast Guard-approved life jacket while on the water.
- All boat operators should complete a boating safety course (a requirement in many states).
- All boat operators must become familiar with the proper operation of all vessel features prior to departure.
- Always maintain a safe speed.
- Be aware of conditions in every direction always when underway.
- Mind your wake. It can capsize a small boat or damage moored boats or other property. You are responsible for damage caused by your wake.
- Reduce speed and post a lookout to identify hazards when:
 - Visibility is impaired
 - In rough water
 - In congested waterways
- Display navigation lights between sunset and sunrise and during periods of restricted visibility, such as rain, fog, etc.

WARNING

A qualified operator must be in control of the boat at all times. Do not operate the boat while under the influence of alcohol or drugs. Never operate your boat at speeds which exceed the operator's ability to react if an emergency develops. At night, turn on the appropriate navigation lights and cruise at a reduced speed that will allow you plenty of time to avoid dangerous situations.

WARNING

STABILITY HAZARD

- **Load boat properly. The manufacturer's load rating is the maximum allowed under normal conditions. Adjust downward if weather, water or other conditions are adverse.**
- **Allow passengers to ride only in areas that do not pose a hazard to themselves or the boat.**

DO NOT allow passengers to ride on the bow of a closed bow boat.

DO NOT allow several passengers to ride in the bow of a small open-bow boat, causing the boat to "plow" into the water.

DO NOT allow passengers to ride on the stern cushion or gunwales.

DO NOT overload the stern.

- **Observe manufacturer's recommended seating and on-plane locations.**

PERSONAL INJURY HAZARD-Stay alert. Use of drugs, alcohol, or other substances which impair judgement poses a serious threat to yourself and others. The boat operator is responsible for the behavior of passengers.

DROWNING HAZARD-Boats must carry one wearable personal flotation device (PFD) for every passenger on board. Boats must have at least one throwable life preserver.

SLIPPING HAZARD-Wet decks are slippery. Wear proper footwear and use extreme caution on wet surfaces.

Legally Mandated Equipment (Minimum Required)

Consult your National Boating Law Enforcement Agency. The following equipment is the minimum required by the U.S. Coast Guard for a boat which is more than 26 ft. (7.9M) in length but less than 40 ft. (12.2M) in length.

Personal Flotation Devices (PFD's)

One (1) Coast Guard approved Type I, II or III is mandatory for each person aboard.

One (1) Throwable Type IV device is also required to be on board.

A Type V device is acceptable (See page 1-8) if worn for approved use. **ALWAYS WEAR A PFD WHEN BOATING**

WARNING

There is rarely time to reach stowed life jackets in time of emergency. Boaters should always wear a properly fitting, approved life jacket when on the water.

Children and non-swimmers MUST wear PFDs at all times when aboard.

NOTICE

Depending on the state or country of operation, the operator of a vessel may be fined for failure to comply with local or national rules regarding PFD usage.

Fire Extinguishers

If there is no fixed fire extinguishing system installed, two size 5-B or one 20-B portable fire extinguisher(s) must be on board. If a fixed system is installed one 5-B portable fire extinguisher is required.

The American Boat & Yacht Council (ABYC) recommends three 5-B type ABC portable fire extinguishers be on board and located within easy reach of helm, outside of engine compartment, and galley or passenger area.

Whistle, Horn

You must have on board, some means of making a loud sound signal. Navigation rules require that a sound made by any audible device be capable of a four (4) second blast, and be audible for 1/2 mi. (.80 Km).

Visual distress Signals

If you operate your boat in coastal waters or on the Great Lakes, you must have visual distress signals for day and night use on board. At least three (3) U.S.C.G. approved pyrotechnic devices marked with date showing service life must be carried, be readily accessible, in serviceable condition and not be expired.

Store all pyrotechnic signals in a well marked, waterproof container.

Additional Recommended equipment for safe operation

In addition to the legally mandated equipment, the following items are necessary for safe boating, especially if your boat will be out of sight of land.

- First Aid kit
- Charts/Maps
- Visual distress signals (for day or night use)
- Marine VHF radio
- Moisture repellent
- Mooring Lines
- Fenders
- Waterproof flashlights
- High power spotlight
- Spare propeller
- Tool kit:
 - Screwdrivers, (Phillips & flat)
 - Pliers, (regular, vise-grip, tongue & groove)
 - Wrenches, (box, open end, Allen & adjustable)
 - Socket set, (metric and U.S.)
 - Electrical tape & duct tape
 - Hammer
 - Spare parts kit, (spark plugs, fuses, etc.)
- Compass
- Manual bilge pump
- GPS or LORAN
- Spare keys
- EPIRB-Emergency positioning-indicating radio beacon
- Boat hook
- Extra batteries
- Instruction manuals
- Lubricating oil

Carbon Monoxide (CO)

DANGER

- **Fumes from the engine(s), Generator(s) and other equipment and appliances that burn fuel contain Carbon Monoxide. Carbon Monoxide can kill you. Open all doors, hatches, curtains and windows to allow fresh air to circulate and dissipate the amounts of Carbon Monoxide present in enclosed spaces, especially when the boat is moored or anchored.**
- **Proper ventilation must be maintained, even during inclement weather to prevent dangerous levels of Carbon Monoxide build-up.**
- **Sleeping aboard a boat will require a working Carbon monoxide detection system, preferably in each sleeping quarter.**

Carbon Monoxide is an odorless, colorless, and tasteless, extremely toxic gas produced by engines, heaters, stoves or generators. When inhaled it combines with hemoglobin in the blood, preventing absorption of oxygen and is unlikely to be noticed until the person is overcome.

Prolonged exposure to low concentration or very short exposure to high concentrations can result in asphyxiation and death.

Symptoms of Carbon Monoxide poisoning include:

- Dizziness
- Headaches
- Ringing in the ears
- Nausea
- Unconsciousness

GET MEDICAL ATTENTION AS SOON AS POSSIBLE.

Symptoms of CO poisoning are often confused with seasickness or intoxication, so those affected may not receive the medical attention they need.

The poisoning victim's skin often turns cherry red. If CO poisoning is suspected, have the victim breathe fresh air deeply. If breathing stops, resuscitate. A victim often revives, then relapses because organs are damaged by lack of oxygen.

Carbon Monoxide can accumulate in dangerous concentrations anywhere in or around your boat including on back decks, swim platforms, or in water around generator exhausts. CO can remain in or around your boat at dangerous levels even if your engines are no longer running.

Remember:

- If you can smell engine exhaust, you are inhaling CO.
- Changing course and speed to place boat heading into the wind can improve ventilation.

To minimize the danger of Carbon Monoxide accumulation when the Engine is running (or by use of fuel burning equipment.):

- Do not idle the engine without moving the boat for more than 15 minutes at a time.
- Inspect the exhaust system regularly.
- Operate all fuel burning appliances, such as charcoal, propane, LPG, CNG or alcohol cooking devices in areas where fresh air can circulate.

In the event the CO alarm activates:

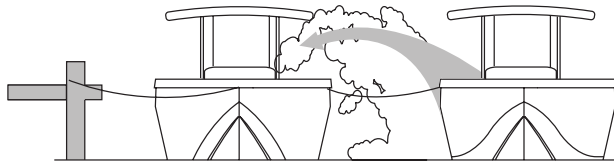
- Evacuate enclosed areas immediately.
- Shut OFF any fuel burning equipment or appliances.
- Open hatches, doors, portlights, etc. to improve ventilation.
- If making way, head boat into the wind.

DANGER

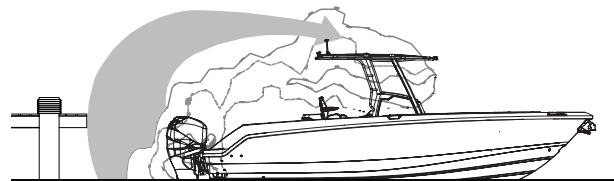
Never ignore an alarm.

Carbon Monoxide Accumulation Scenarios

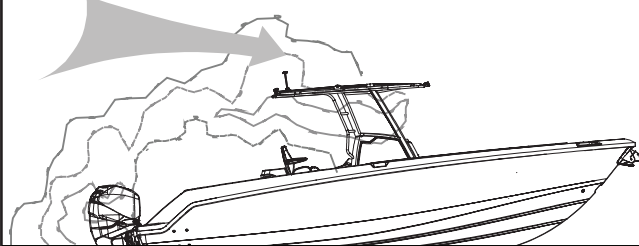
Examples of Accumulation of Carbon Monoxide
Figure 1.7.1



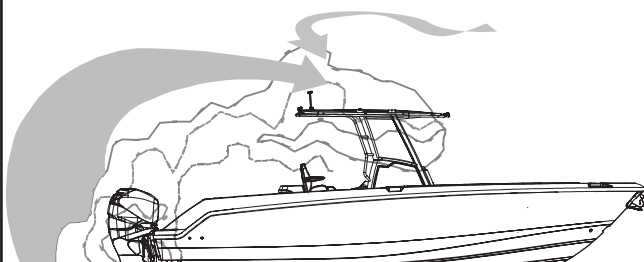
EXHAUST FROM OTHER BOATS



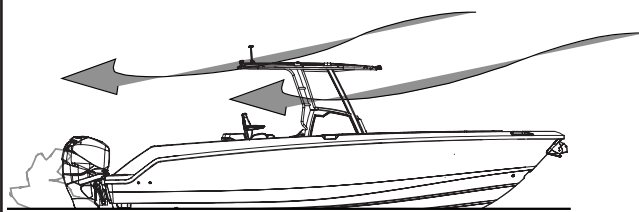
BLOCKAGE OF EXHAUST BY OBSTRUCTION



OPERATING AT A HIGH BOW ANGLE



OPERATING AT SLOW SPEED OR WHILE IDLING
(STATION WAGON EFFECT)



GOOD AIR FLOW

⚠ DANGER

Even in rainy cold weather, ventilation must be maintained to avoid Carbon Monoxide poisoning. You will get wet and/or cold.

Lifesaving Equipment

Even strong swimmers can tire quickly in the water and drown due to exhaustion, hypothermia, or both. The buoyancy provided by a personal flotation device (PFD) will allow the person who has fallen overboard to remain afloat with far less effort and body heat loss, extending survival time necessary to find and retrieve them.

PFD Requirement

One (1) Coast Guard approved PFD, Type I, II or III for each person aboard or being towed on water skis, tubes, etc.

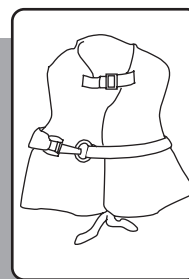
The law requires that PFDs must be readily accessible, if not worn. "Readily Accessible" means removed from storage bags and unbuckled.

NOTICE

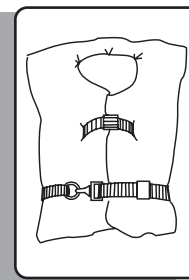
Children and non-swimmers MUST wear PFDs at all times when aboard.

PFD Classifications

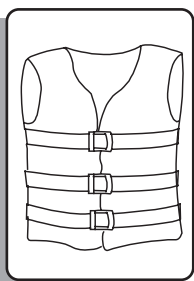
Listed below are the several different types of PFDs, each life jacket has different purposes, choose one that will suit your purpose.



Type I, Off-shore Life Jacket is considered the most buoyant, it is designed to turn an unconscious person face up. Use in all types of waters where rescue may be slow, particularly in cold or rough water conditions.



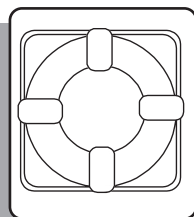
Type II, Near-shore Life Vest, "keyhole" vest with flotation filled head and neck support is also designed to turn a person face up, but the turning action is not as pronounced. Use in calm inland waters or where quick rescue is likely.



Type III, Flotation-aid Life vest is designed so that conscious wearers can turn face-up. Designed for comfort while engaged in water skiing or other forms of water activities.

Before purchasing PFDs, ensure that there is an attached tag indicating they are approved by the U.S. Coast Guard or by your National Boating Law Enforcement Agency.

The operator is responsible for instructing everyone onboard on their location and use. **The best precaution is to wear the PFD at all times while on the boat.**



Type IV, Throwable Devices, horseshoe buoys, ring buoys and buoyant cushions are designed to be grasped, not worn.



Type V, Special-Use devices, sailboat harnesses, white water vests, float coats, and hybrid vests which have minimum inherent buoyancy and an inflatable chamber.

Emergency Situations

NOTICE

The law requires the owner/operator to assist any person or boat in distress as long as rendering assistance does not endanger the owner/operator, the passengers or the boat.

Prevention is the safest approach. We hope that you are never involved in an emergency situation, but if you are it is imperative that you react.

Medical Emergency

You may be far from professional medical help when you are boating. At least two (2) persons on board your boat should be CPR certified, and should have taken a first aid course. Your boat should have a well stocked first aid kit on board. In many situations your radio will be your only link to reaching medical assistance. Keep the radio in working order and understand which channels are used for emergencies, these channels are constantly monitored and will be useful when situations arise. Cell phones are becoming more common and can help in some areas, but they are limited and unreliable and should not be used in the place of a good VHF radio.

Water Rescue

In most situations a person that has fallen overboard will succumb to hypothermia if not rescued immediately. Life expectancy decreases as rescue time increases in water temperatures below 70° (21.1°C).

There are three (3) steps that must be taken when a person has fallen overboard:

1. Returning to the victim:

- Immediately make everyone onboard aware that someone is overboard and keep the victim in sight.
- Slow the boat and keep pointing toward the person overboard. At night or in low light, point the best available light source at the person.
- Throw a life ring/preserver to the victim, even if they are wearing one it will serve as another marker.

2. Making contact:

- Stop or slow the boat and circle toward the person overboard.
- Try to approach heading into the wind or into the waves.
- Keep person overboard constantly in sight.
- When almost alongside, stop the engine in gear to prevent propeller “windmilling”.

3. Getting back aboard:

- Try to reach the person overboard with a pole, or by throwing a life preserver. NEVER swim to them except as a last resort.
- Assist the person in boarding. Boarding should be done at the stern of the boat.
- If the person is injured or incapable of boarding by themselves, a rescuer should don a life preserver with a safety line and enter the water to assist the person onto the boat.
- Handle the person carefully, spinal injuries might have occurred and could be worsened by rough handling.
- Check for other injuries, render medical assistance immediately.

Unassisted Reboarding

The transom ladder (See page 2-41) can be deployed to accommodate a person reboarding the boat without assistance.

Fire

Fire is a serious boating hazard. Boats will burn quickly. Do not remain onboard and fight a fire for more than a few minutes. If the fire is out of control and cannot be put out with the fire suppression equipment onboard, abandon ship immediately.

The fumes released during a fire are toxic and should be avoided. Even after the fire has been extinguished, proper ventilation of the area is required to minimize exposure to harmful fumes.

DANGER

- **Fires can spread quickly. Your reaction to the fire is important. Have the proper fire fighting equipment close at hand, and in good working order to respond quickly.**
- **Small fire extinguishers have small discharge times. Aim at the base of the fire with a sweeping motion to maximize the use of the fire extinguisher contents.**

To lessen the danger of fire:

- Extinguish all smoking materials, shut off blowers, stoves, engine(s) and generator(s).
- Keep bilge area clean, oil and fuel spills should be cleaned immediately.
- If possible throw burning materials overboard.
- If fire is accessible, release the contents of the fire extinguisher(s) into the base of the fire.
- If the fire is in an enclosed compartment, and you have an automatic extinguisher for the compartment, wait 15 min. before opening the compartment. Have an extinguisher handy in case of a flare up.
- If possible, signal for help. Radio, visual, and audible signal should be used as needed. You must render assistance to any boater requesting help.
- If fire is out of control, grab all necessary survival gear, distress signals, don your PFD's and prepare to abandon ship.
- If you do abandon ship, make sure the passengers have PFD's. Take a head count before entering the water and take another head count when in the water. **STAY TOGETHER.**

Flooding, Swamping and Capsizing

In the event of Flooding, Swamping or Capsizing:

Flooding-

- Always wear your PFD, or have it within reach.

- If the bilge pump(s) have not automatically turned ON, switch them ON immediately.
- Find the source of the flooding and determine the best fix.
- Keep the bilge pumps running until the flooding is under control.
- Call for assistance if the source of the flooding cannot be controlled.
- Head back to port if possible.

Swamping-

- Always wear your PFD, or have it within reach.
- Swamping is usually a result of wave action, immediately get control of the helm and turn the boat into the waves.
- Swamping can also be caused by an overloaded boat.
- If the bilge pump(s) have not automatically turned ON, switch them ON immediately.
- The deck scuppers on your boat are designed to drain the deck of water.
- Keep the bilge pumps running until the flooding is under control.
- Take a head count of all passengers.

Capsizing-

- “Capsized” is when a boat is on its side or completely upside-down (usually as a result of wave action, improper loading or load shifting).
- If the boat will not right itself, get out of the water and climb onto the exposed hull.
- Do a head count for all passengers
- **STAY TOGETHER**
- Usually a capsizing will happen quickly and without warning.
- Use whatever is at hand to signal for help.

The chances of flooding, swamping or capsizing can be reduced by being aware of:

- Weather
- Water Conditions
- Proper boat handling techniques
- Proper loading of the boat

Collision

In the event of collision:

- Cut the engine(s)
- Check on passengers
- If the bilge pump(s) have not automatically turned ON, switch them ON immediately.
- Determine the amount of damage to your boats structure.
- Call for assistance
- In the event of collision you are required to file an accident report. Contact a state enforcement agency or the nearest U.S. Coast Guard office. If you are boating outside U.S. waters, consult the nation you are visiting for accident reporting requirements.

Propulsion, Control or Steering failure:

If there is a propulsion, control or steering failure:

- Stop the engine, (shut off at Ignition or pull on the engine emergency stop switch lanyard.)
- Drop anchor to prevent drifting.
- Determine if the problem can be fixed or will assistance be needed.
- Call for assistance if needed.

When loss of propulsion or steering is noticed, your quick reaction is required to prevent further damage to your boat or injuries to your passengers.

Outboard engines require propulsion to control the direction the boat will take. Without propulsion, the steering is virtually useless. If you are in a congested waterway you will need to react quickly to warn

others that you have lost power, propulsion or steering control and that assistance will be needed.

Grounding

Running aground may be avoided by paying attention to marker buoys or indicated by waves as they form into breakers when passing over a sand bar.

If you do run aground, the course of action depends on how hard the boat hits bottom and whether the boat remains stranded. If it is a simple touch, you may need only to inspect the lower drive of the engine and the hull of the boat. If possible do a thorough inspection before trying to get loose, throwing the boat into reverse before this is done may do more damage.

Distress Signals

Visual Distress Signals, (VDS)

- U.S. Coast Guard regulations require boats in coastal waters and the Great Lakes to carry a Visual Distress Signal (VDS) for day and night use, as well as appropriate for the time of operation. Exempt from the day signals requirement, but not night signals, are boats less than 4.8 meters (16 feet), open sailboats less than 7.9 meters (26 feet), boats participating in organized events and manually propelled boats.
- If you are required to have visual distress signals, at least three safety approved pyrotechnic devices in serviceable condition must be readily accessible. They must be marked with a date showing the service life which must not be expired.
- Carry three signals for day use and three for night use. Some pyrotechnic devices such as red flares, meet both day and night use requirements.
- Store pyrotechnic signals in a cool, dry location. An orange or red watertight container prominently marked "DISTRESS SIGNALS" is recommended.

Other recognized visual distress signals include:

- Flames in a bucket
- Code flags November & Charlie
- Black square & ball on orange background flag.
- Orange flag (certified)
- Electric distress light (certified)-for night use
- Dye marker (any color)
- Person waving arms (slowly)
- U.S. ensign flown upside down

Audible Distress Signals, (ADS)

U.S. Coast Guard regulations require one hand, mouth or power operated whistle or horn, audible for at least 1/2 mile.

Other recognized audible distress signals include:

- Radio communication (see **Radio Communication** below)
- Radio-telegraph alarm
- Position indicating radio beacon
- Morse Code S-O-S (3 short 3 long 3 short) sounded by any means.
- Fog horn sounded continuously.

Radio Communication

A radio is the boat operator's main method of receiving safety information and summoning aid. VHF-FM radio is the primary means of short range communication. Single sideband radio (SSB) is used for longer range communication.

VHF-FM channel 16 and SSB 2182 kHz are designated for emergency use. Such situations can be categorized as:

- **EMERGENCY-**
“MAYDAY, MAYDAY, MAYDAY,”- used when life or vessel is in imminent danger.

- **URGENCY-**

“PAN-PAN, PAN-PAN, PAN-PAN” (pronounced PAHN-PAHN)-used when a person or vessel is in some jeopardy less than indicated by a “MAYDAY” call.

- **SAFETY-**

“SECURITY, SECURITY, SECURITY” (pronounced SAY-CURE-IT-AY)-used for navigational safety or weather warning.

An emergency situation will be hectic and there will not be time to learn proper radio procedure. Learn what to do before you need to do it. If you hear a distress call, stop all radio transmissions. If you can directly assist, respond on the emergency frequency. If you cannot assist, do not transmit on that frequency. However, continue to monitor until it is obvious that help is being provided.

Weather

DANGER

DO NOT attempt to boat in severe weather conditions. Death or serious injury can occur. Get to shore before the weather turns bad.

Getting caught in severe weather is hazardous. Bad weather and/or rough sea or water conditions can cause an unsafe situation. Consult local weather services for up-to-date forecasts on weather and sea conditions. Television, Radio, Internet can give you access to NOAA weather reports that will help you make a determination on where and when to get underway.

Following are some weather related rules:

- Understand the design limitations of your boat.
- Check the weather forecast and water conditions before leaving and while underway.
- Wear a Personal Flotation Device, (PFD)

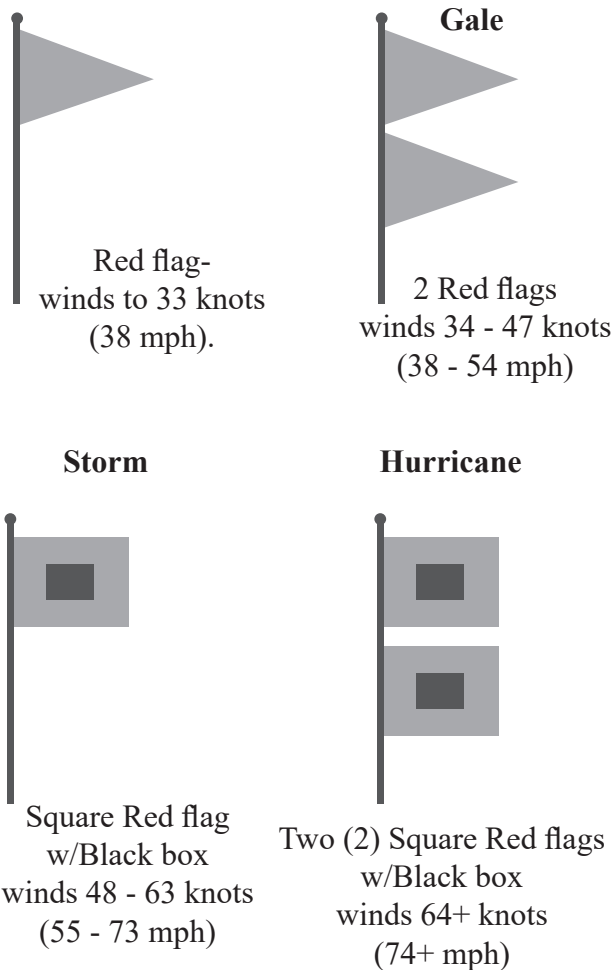
⚠ WARNING

A sudden change in wind direction or speed or an increase in wave height indicates deteriorating weather.

NOTICE

Check the weather forecast and water conditions before leaving and while underway

Weather Warning Pennants
Figure 1.13.1



- If a storm approaches, immediately seek a safe harbor.
- If a storm hits have everyone sit in the cabin or cockpit deck in the boat. Head the bow into the wind with enough power to maintain slow headway.

- If fog is encountered fog, determine your position, set a safe course, slow down and alert other boats of your presence using the appropriate sound signal for your situation at intervals of not more than two minutes apart.
- If a lightning storm approaches, the safest action is to dock and disembark. If you cannot return to shore, have passengers go inside the cabin and remain there until the storm passes.
- Stay out of the water during a lightning storm. If caught swimming during a storm, get back into the boat and remain there until the storm passes. (Remember that lightning can strike several miles away from the storm itself. Be aware of the storms location relative to your location and the direction the storm is moving).

Swimming, Diving & Water Skiing

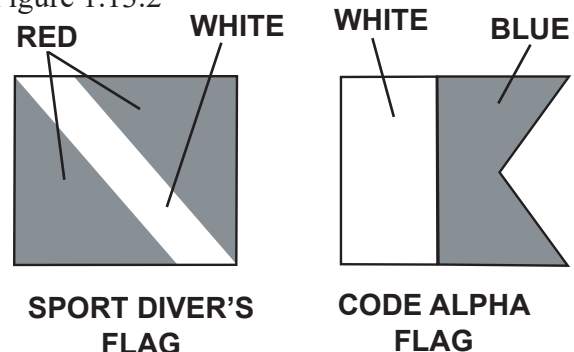
Swimming

- Do not swim from a moving boat.
- Many areas prohibit swimming from a boat except in designated areas.
- Turn off engine in gear (to prevent propeller “windmilling”) before picking up swimmer.

Diving

Recognize and respect diving flags. Keep at least 30 meters (100 ft.) away.

Diver's Flags
Figure 1.13.2



SPORT DIVERS FLAG-Red flag with diagonal white stripe marks a diver in the water.

CODE ALPHA FLAG-Blue and white pennant designates boat being used in dive operations.

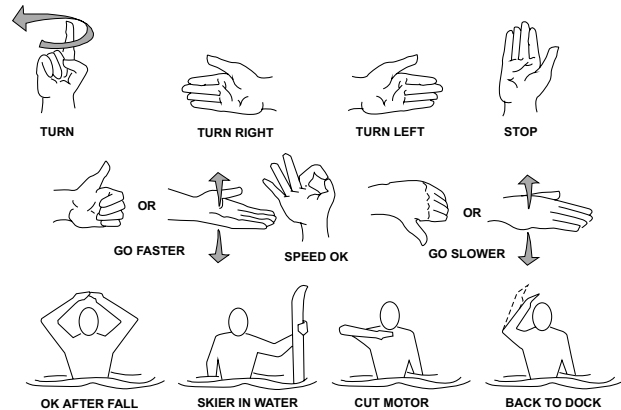
Water Skiing

- Always have two persons in the boat, one at the controls and one who can easily and continuously look at the skier.
- Insist that anyone who water skis must know how to swim.
- Insist that skiers wear approved Personal Flotation Devices (PFD's)
- Ski only in daylight when visibility is good.
- Never drive the boat directly behind a water skier. At 22 knots (25 m.p.h.), it takes only 5 seconds to overtake a fallen skier who was 60 meters (200 feet) in front.
- Ski only in areas where skiing is permitted.
- Observe local restrictions on length of tow line.
- Learn the signals to communicate with a skier. The skier is to control the boat through hand signals (Figure 1.14.1).
- Your boat will handle differently while towing a skier. Experiment carefully to learn the difference.
- Skiers may start from the shore or dock, if boat traffic allows. When returning, pick up skiers from water. Do not ski back to shore or dock.
- Give immediate attention to fallen skiers.
- Keep a downed skier in sight and on the operator's side of the boat when approaching the skier. **Never back up to anyone in the water.**
- Turn off engine in gear (to prevent propeller "windmilling") before picking up skier.
- If the skier suddenly releases the tow rope, it can backlash into cockpit. Spotters who are watching the skier must be aware of this fact and be prepared to take appropriate action to avoid injury.

Water Skiing Signals

Skiing Signals

Figure 1.14.1



Turn – Arm raised, circle with index finger extended.

Turn Right – Extend arm out from body to the right.

Turn Left – Extend arm out from body to the left.

Stop – Raise arm with palm vertical and facing forward.

Faster – Thumb pointed up or palm up, move hand up and down.

Speed OK – Raise arm and form a circle with thumb and index finger.

Slow Down – Thumb pointed down or palm down, move hand up and down.

OK After a Fall – Clasp hands together overhead.

Skier in Water – Extend one ski vertically out of water.

Cut Motor – Draw finger across throat.

Back to Dock – Pat top of head.

WARNING

SWIMMING/DIVING HAZARD

- Keep clear of areas designated only for swimmers and skin divers. Recognize markers used for such areas.
- Never swim when there is lightning in the area.

SKIING HAZARDS

- Skiers must use a safety approved Personal Flotation Device (PFD).
- Ski only during daylight and in good visibility.
- Avoid shallow water, other boats, navigational aids and other obstructions.
- Keep at least 30 meters (100 ft.) from other objects.
- Never drive directly behind a water skier.
- A competent observer must watch the skier at all times. A competent observer is a person that has the ability to assess when a skier is in trouble, knows or understands water skiing hand signals and is capable of helping a skier.
- Keep a downed skier in constant sight.
- Turn off engine in gear before you get close to person in the water.
- Never back up to anyone in the water.
- Use caution in boat when skier is being towed. Sudden release of tow rope can cause it to backlash into the cockpit.

PERSONAL INJURY HAZARD

Use transom tow ring only to pull water skiers. Unless specified by the manufacturer, any other use, such as parasailing, kite flying, towing other boats, etc. may create too much stress on the tow ring, resulting in personal injury and/or equipment damage.

DANGER

PROPELLER SAFETY

- Before starting your boat, walk to the stern and look in the water to assure there is no one near your propeller.

People near propeller may not be visible from helm.

- NEVER allow passengers to board or exit your boat from the water when engines are on.
- Educate passengers about the dangers of propellers
- Be especially alert when operating in congested areas. NEVER enter swimming zones.
- Take extra precautions near boats that are towing skiers or tubers.
- NEVER permit passengers to ride on the bow, gunwale, transom, seatbacks, or other locations where they may fall overboard.
- STOP! If someone falls overboard. Slowly turn the boat around, and keep the person in sight as you approach. Turn your engine off FIRST and then bring the person aboard.
- NEVER reverse your boat to pick someone up out of the water.

Towed Inflatables

Towed inflatable types, aka tubes, produce tremendous stress on the tow point and rope, far greater than devices like water skis, kneeboards or wake boards. When pulling a tube use both stern eye strong points in combination with a proper tube harness and tow rope. Parasails and kites should never be used with a recreational boat.

ATTENTION

Personal Injury/Equipment Damage

Ski tow pylons/tower/hardtop/ski eye tow points are not designed for use with tubes. The added stress of the tube may cause a dangerous recoil or damage the equipment. Damage to the pylon/tower/hardtop/ski tow eye is not covered by the boat or equipment manufacturer's warranty. When towing inflatables/tubes, use both stern eye strong points with a tube tow harness to attach the tube tow rope.

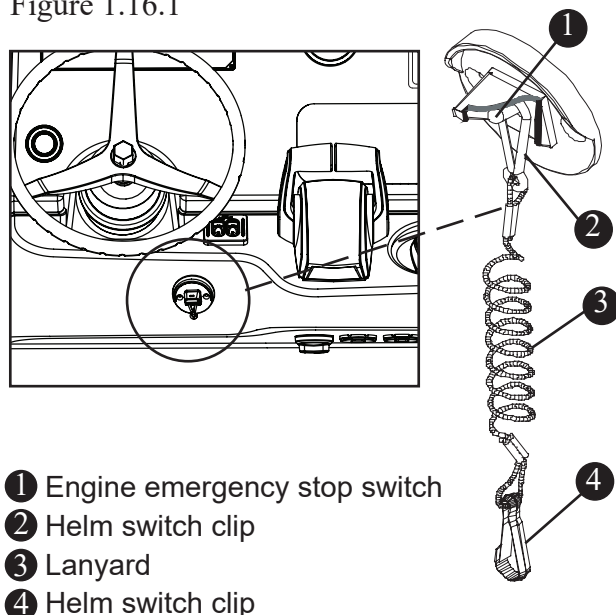
Engine Emergency Stop Switch

⚠ WARNING

Wear the lanyard at all times when operating the boat. Use it to stop only in an emergency. DO NOT use it to shut off the engine during normal operation

Your boat is equipped with an engine emergency stop switch. The switch is located below the gear shift and throttle control. The engine emergency stop switch incorporates a shut-off switch, switch clip, lanyard and lanyard clip, which is clipped to the operator when running. If an emergency arises and the engine must be shut down, a pull on the cord to release the clip from the shut-off shuts off the engine. This switch shuts off the engine when the operator leaves the helm, either accidentally by falling or by being ejected overboard. This most likely occurs as a result of poor operating practices.

Engine Emergency Stop Switch
Figure 1.16.1



- ① Engine emergency stop switch
- ② Helm switch clip
- ③ Lanyard
- ④ Helm switch clip

The lanyard should be long enough to prevent inadvertent activation. Do not let the lanyard become entangled.

Accidental loss of power can be hazardous, particularly while docking or in heavy seas, strong current or high winds. Passengers and crew may lose balance and the boat may lose steering control.

Should the operator fall out of the boat at planing speed, it may take several seconds for the engine and propeller to stop turning. The boat may continue to coast for several hundred feet, causing injury to anyone in its path.

Theft Deterrent w/ 1st Mate and Remote Connectivity System (Whaler Watch) (Option)

Whaler Watch is a remote-monitoring system that provides a snapshot of the boat's key components, operating systems, as well as alarm notifications.

Subscribing to Whaler Watch* allows use of the app and Web portal to monitor the following:

- 1st Mate safety and security system – Anti theft feature immobilizes engines.
- GPS tracking system with geofence notifications.

- Remote monitoring and notification of high-water bilge alarm, tank levels, batteries, shore power connections, and propulsion system information.
- Remote control of courtesy and underwater lights.

*A limited subscription to Whaler Watch is included and thereafter the service is subscription based. To access the system remotely visit whalerwatch.net.

For more information, see the owner's packet or contact an authorized Boston Whaler dealer.

1st Mate Safety and Security System (Option)

1st Mate is a marine safety and security system that syncs an engine-integrated hub to wearable fobs and the mobile app*, providing alerts to the captain and passengers should anyone go overboard. This system delivers an added level of safety beyond the engine shut-down system that links the captain's lanyard to the engine emergency stop switch. The 1st Mate system offers multiple, customizable security settings including:

- Man overboard alerts should a passenger(s) fall overboard, and engine shutdown should the captain fall overboard.
- Distress messaging and GPS location alerts sent to connected mobile devices.
- Theft-deterrent functionality including wireless engine(s) lock and/or reduced RPMs to prevent unauthorized use

For more information, see the owner's packet or contact an authorized Boston Whaler dealer.

*Download the 1st Mate app at: 1stmate.net

Float Plan

Float plans are important to you should you encounter problems on the water. A float plan should contain a description of your boat along with any distinguishing features. It should describe where you will be boating, your departure time and estimated return. The number and names of passengers, and destination should also be noted.

The float plan should be given to a friend or relative,

so they can give the information to a national boating agency like the U.S. Coast Guard, in the event you do not return at the time specified on the float plan.

If there are any changes to the float plan they should be conveyed to the person holding the float plan. Once you return you should contact the person holding the float plan to let them know you are back.

Chart Your Course

To avoid boating in unsafe areas where there are underwater obstructions, shallow water, unnavigable conditions such as dangerous currents, and others, you must chart a course. This means having and using National Oceanic and Atmospheric Administration (NOAA) charts for coastal waters, observing and understanding all navigational aids, using the knowledge and guidance of experienced boaters, and being aware of the tides and times where appropriate. If you are boating in an area you are unfamiliar with, proceed with caution and post a lookout to watch for hazards.

WARNING

Hitting an object in or under the water or boating in dangerous currents can cause serious injury or death to occupants in the boat.

You must know where the hazards are and avoid them. In uncharted waters, boat very slowly and post a lookout.

If an object is struck or if you run aground:

- **Shut the engine OFF**
- **Check the hull for damage**
- **Check propeller for damage**
- **If aground, consider the bottom grade before moving off, (damage to the hull and propellers could be worsened).**
- **Determine the tides and whether it will help or hinder you from the grounding.**
- **Do not have anyone other than a trained and competent service tow your boat.**

Environmental Considerations

Fuel & Oil Spillage

Regulations prohibit discharging fuel or oily waste in navigable waters. Discharge is defined as any action which causes a film, sheen or discoloration on the water surface, or causes a sludge or emulsion beneath the water surface. A common violation is bilge discharge. Use rags or sponges to soak up fuel or oily waste, then dispose of it properly ashore. If there is much fuel or oil in the bilge, contact a knowledgeable marine service to remove it. Never pump contaminated bilge overboard. Help protect your waters.

Excessive Noise

Many areas regulate noise limits. Even if there are no laws, courtesy demands that boats operate quietly.

Wake / Wash

WARNING

SPEED HAZARD - Watch your wake. It might capsize a smaller craft. You are responsible for damage caused by your wake.

CAUTION

Reduce speed in congested waterway. Be alert for No Wake markers.

Power boat wakes can endanger people and vessels. Each power boat operator is responsible for injury or damage caused by the boat's wake. Be especially careful in confined areas such as channels or marinas. Observe "no wake" warnings.

Homeland Security Restrictions

DANGER

DO NOT approach within 100 yards of any U.S. Naval vessel without first contacting the vessel on VHF-FM channel 16. To do so will result in a quick and severe response.

Recreational boaters have a role in keeping our waterways safe and secure. Violators of the restrictions below can expect a quick and severe response.

- Do not approach within 100 yards, and slow to minimum speed within 500 yards of any U.S. Naval vessel. If you need to pass within 100 yards of a U.S. Naval vessel for safe passage, you must contact the U.S. Naval vessel or the Coast Guard escort vessel on VHF-FM channel 16.
- Observe and avoid all security zones. Avoid commercial port areas, especially those that involve military, cruise line or petroleum facilities.
- Observe and avoid other restricted areas near dams, power plants, etc.
- Do not stop or anchor beneath bridges or in channels.

America's Waterway Watch

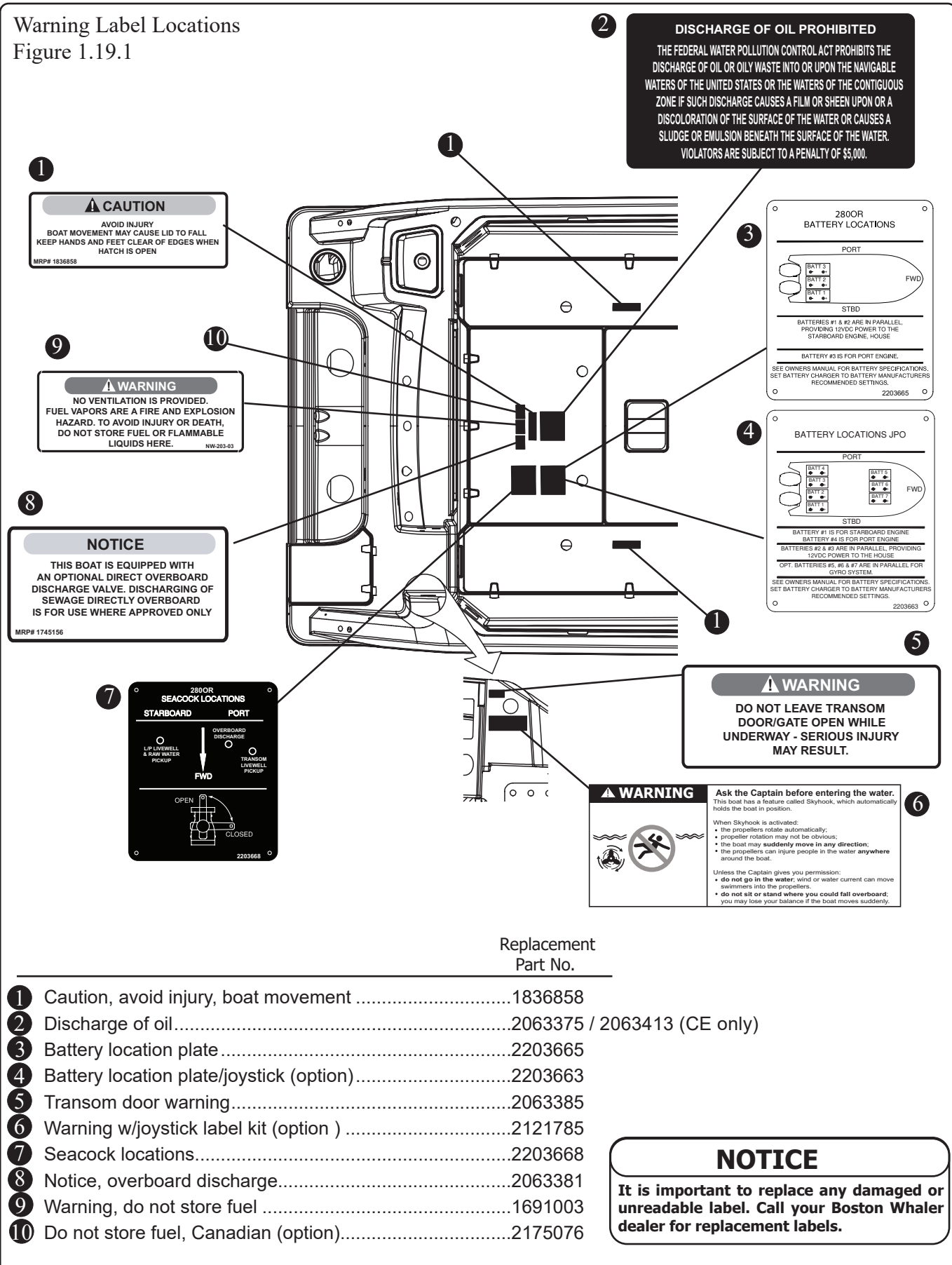
In March, 2005, the U.S. Coast Guard officially launched *America's Waterway Watch* to encourage the boating public to report suspicious activities in our nation's ports and waterways. *America's Waterway Watch* simply asks anyone who works, lives, or recreates on the water to keep an eye out for suspicious activities. Anyone who spots such activity is asked to call the National Response Center's 24-hour hotline, 800-424-8802 or 877-24WATCH (877-249-2824).

Warning Label Locations

Mounted at key locations throughout the boat (See pages 1-19 thru 1-22), warning labels advise the owner/operator of imperative safety precautions to follow when operating and/or servicing equipment. Do not remove or obstruct any warning label. Replace any label which becomes illegible.

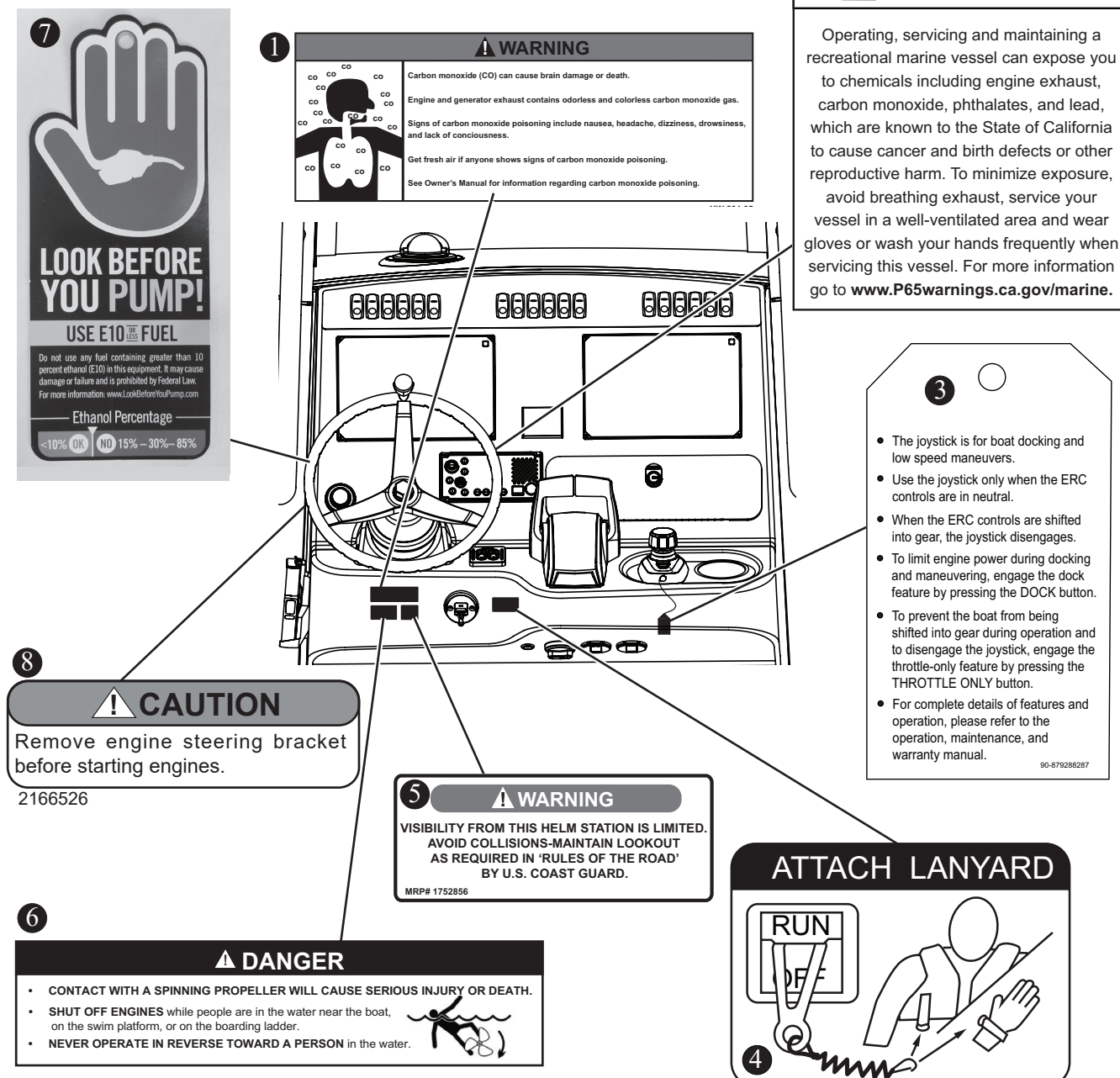
Warning Label Locations

Warning Label Locations
Figure 1.19.1



Warning Label Locations (Con't)

Figure 1.20.1

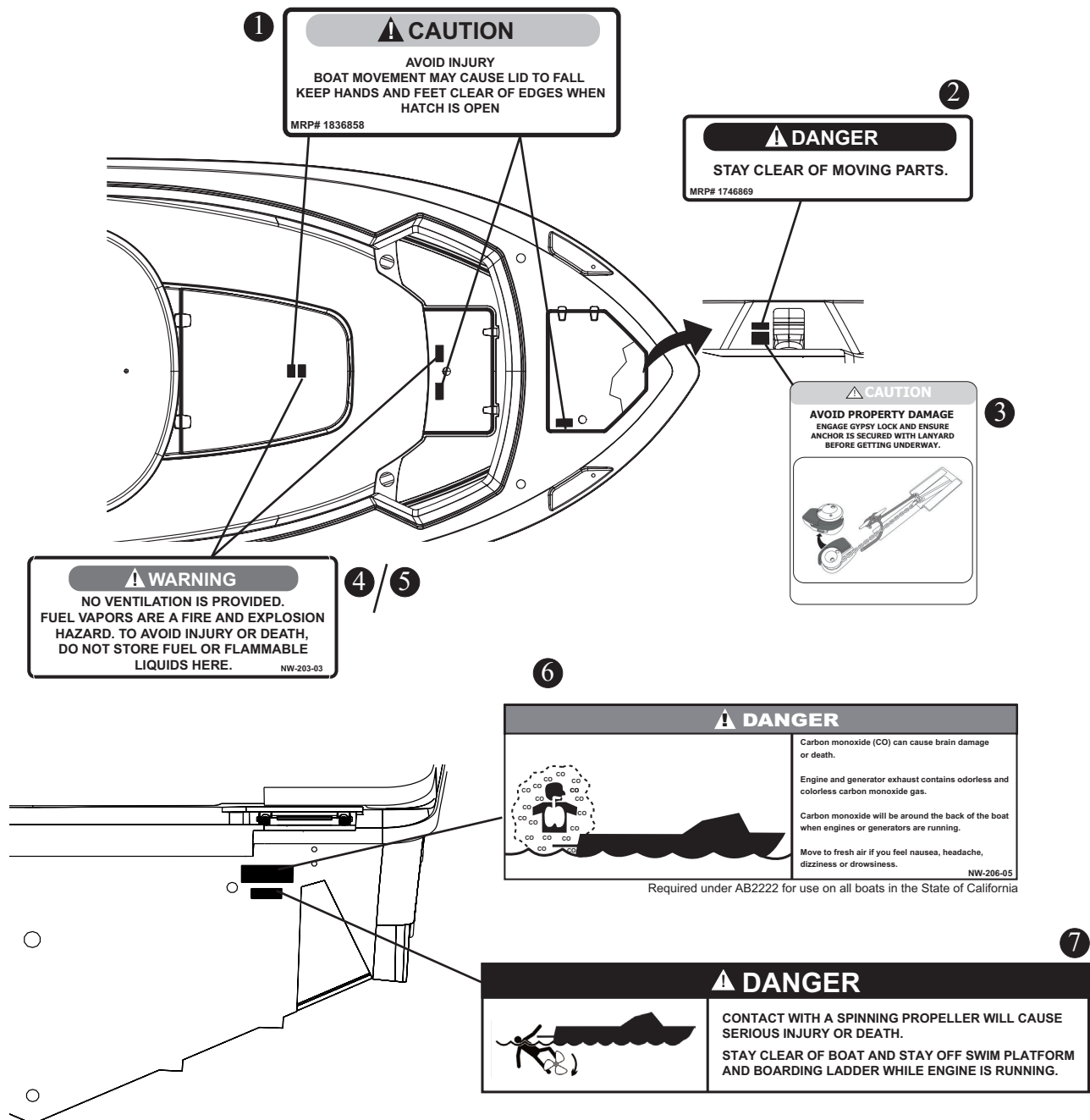


	Replacement Part No.
1 WARNING, CO HELM	1811368
2 PROPOSITION 65, HANG TAG	1795087
3 HANG TAG W/JOYSTICK LABEL KIT (OPTION)	879288287
4 WARNING WEAR YOUR LANYARD	2156485
5 WARNING, LTD VISIBILITY FROM HELM	2029123
6 DANGER, PROP DANGER	2417275
7 E10 FUEL WARNING HANG TAG	2304853
8 CAUTION REMOVE STEERING BRKT	2166526

NOTICE

It is important to replace any damaged or unreadable label. Call your Boston Whaler dealer for replacement labels.

Warning Label Locations (Con't)
Figure 1.21.1



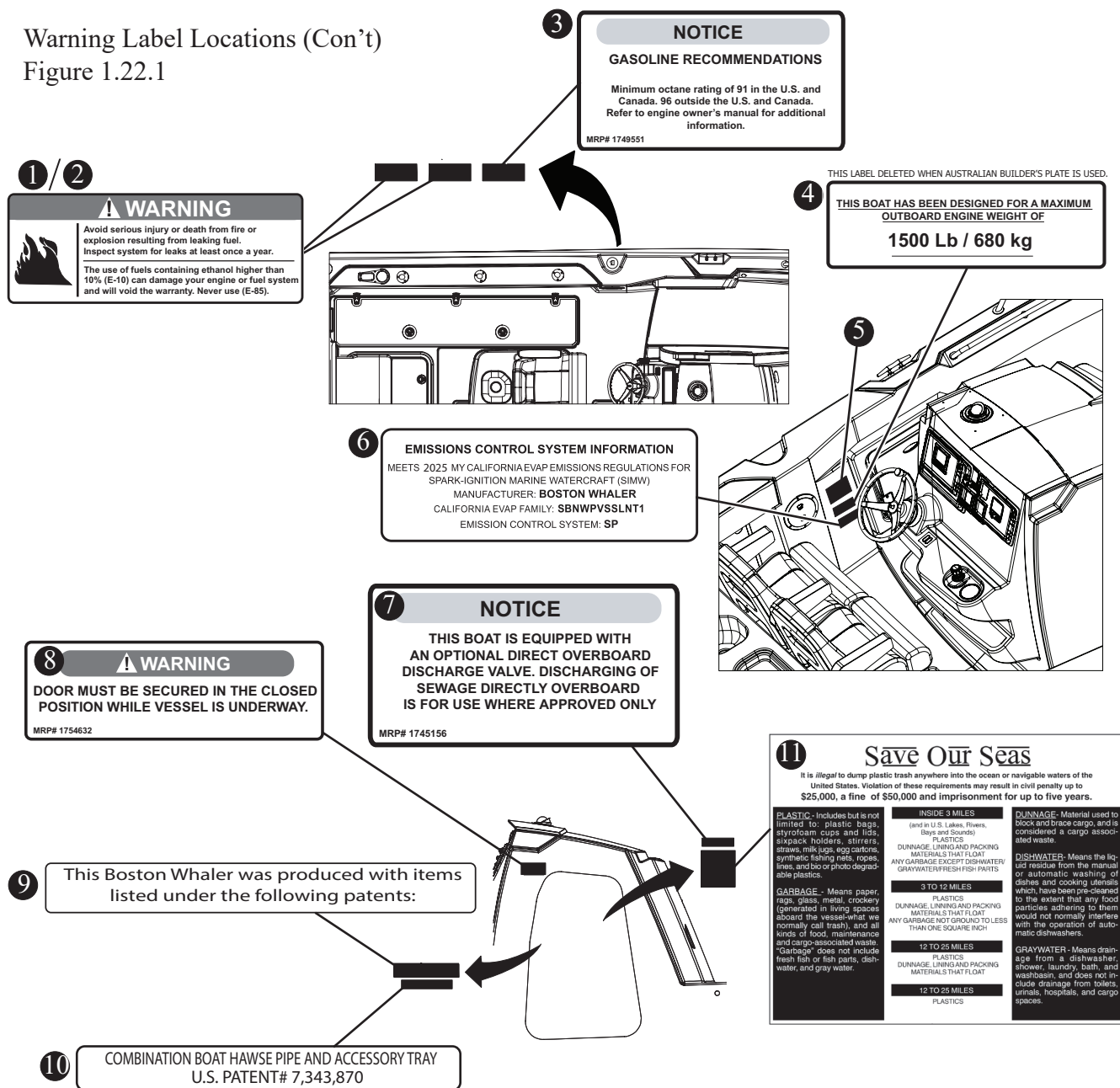
Replacement
Part No.

- | | | |
|----------|--|---------|
| 1 | CAUTION, AVOID INJURY, BOAT MOVEMENT | 1836858 |
| 2 | DANGER, STAY CLEAR OF MOVING PARTS | 2028932 |
| 3 | CAUTION, SECURE ANCHOR..... | 2147835 |
| 4 | WARNING, DO NOT STORE FUEL | 1691003 |
| 5 | DO NOT STORE FUEL CANADIAN (OPTION)..... | 2175076 |
| 6 | DANGER, CO TRANSOM | 1811367 |
| 7 | DANGER, ROTATING PROP DANGER..... | 2417276 |

NOTICE

It is important to replace any damaged or unreadable label. Call your Boston Whaler dealer for replacement labels.

Warning Label Locations (Con't)
Figure 1.22.1

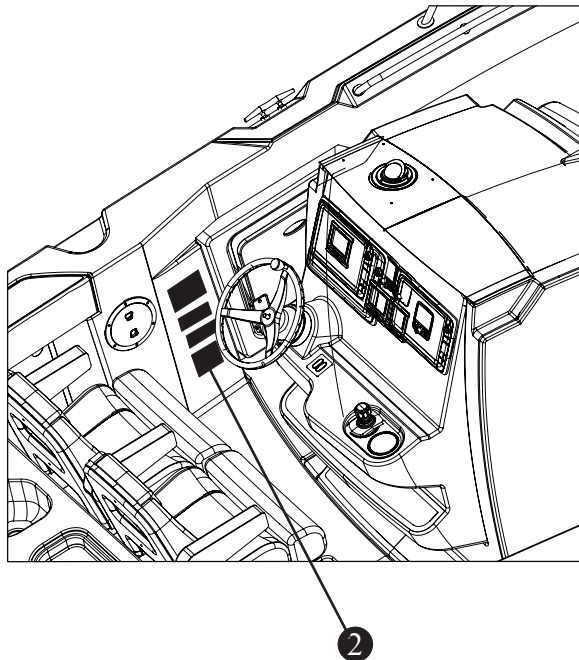
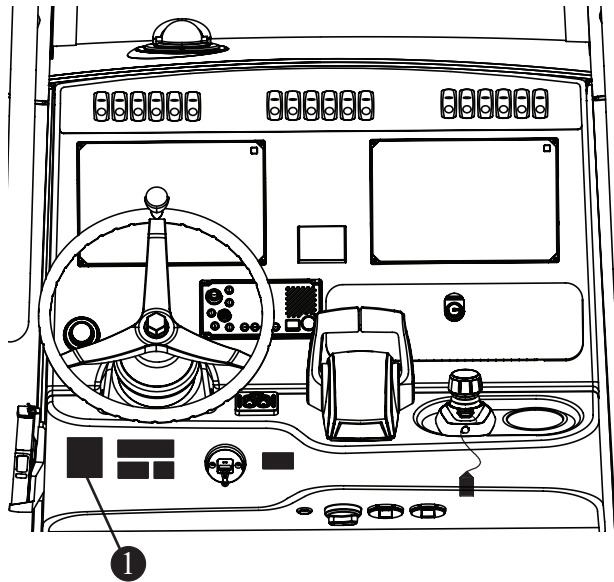


	Replacement Part No.
1 WARNING, FUEL HAZARD	2096004
2 FUEL HAZARD CANADIAN(OPTION)	2175077
3 FUEL RECOMMENDATION	2038447
4 MAXIMUM ENGINE WEIGHT	2411321
5 BUILDER'S PLATE	(see Chapter 2)
6 LABEL, CALIFORNIA CARB COMPLIANCE	2431706
7 NOTICE, OVERBOARD DISCHARGE	2063381
8 WARNING, DOOR SECURED	2063402
9 LABEL, PATENT HEADER	2088481
10 LABEL, PATENT HAWSE PIPE/DRINK HOLDER	2063995
11 SAVE-OUR-SEAS (DISPOSAL OF GARBAGE)	2029125

NOTICE

It is important to replace any damaged or unreadable label. Call your Boston Whaler dealer for replacement labels.

Warning Label Locations (Con't)
Figure 1.22.1



1

⚠ WARNING


Failure to follow these warnings could cause SEVERE INJURY or DEATH.

- **CHECK WEATHER FORECAST BEFORE DEPARTING DOCK** and heed all weather advisories.
- **WEAR SAFETY LANYARD** at all times while operating boat to prevent unmanned boat operation. 
- **NEVER OPERATE WHILE UNDER THE INFLUENCE** of drugs or alcohol.
- **DO NOT OVERLOAD THE BOAT. ENSURE THAT WEIGHT IS PROPERLY AND EVENLY DISTRIBUTED** fore and aft and on both sides of the boat to avoid poor handling, sudden loss of control, swamping and/or capsizing.
- **PASSENGERS SHOULD WEAR U.S. COAST GUARD APPROVED LIFE JACKETS.**
- **MAKE SURE THAT ALL PASSENGERS ARE PROPERLY SEATED WHILE UNDERWAY.** To avoid passengers falling overboard or being ejected from the boat, do not allow passenger to sit on seat backs, gunwales or outermost deck edges while boat is moving. 
- **REDUCE SPEED BEFORE ATTEMPTING SUDDEN OR SHARP TURNS, AND MAINTAIN SAFE SPEEDS** for water conditions and environment at all times. Maneuverability at high speeds is limited, and sudden turns may cause loss of boat control.
- **KEEP PROPER LOOKOUT AND SAFE DISTANCE** for the conditions at all times to avoid collisions. 
- **OBEY APPLICABLE NAVIGATION RULES AND BOATING LAWS.**
- **USE CAUTION AND PROPER LIGHTING** during nighttime boating and boating in adverse weather.
- **READ THE OWNER'S MANUAL AND COMPLETE THE BOATER'S PRE-OPERATION CHECKLIST** prior to boat operation.

2

⚠ WARNING

Failure to follow these warnings could cause SERIOUS INJURY or DEATH.

- **REMAIN PROPERLY SEATED AND HOLD ON** to available handrails while boat is moving to avoid falling overboard or being ejected from the boat. Do not sit on seat backs, gunwales or outermost deck edges. 
- **WEAR U.S. COAST GUARD APPROVED LIFE JACKETS.**
- **DO NOT OVERLOAD THE BOAT. OCCUPANTS AND GEAR MUST BE PROPERLY AND EVENLY DISTRIBUTED** fore and aft, and on both sides of the boat. Improper loading and/or overloading may result in poor handling, sudden loss of control, swamping and/or capsizing.
- **REFER TO AND OBEY THE DESIGNATED OCCUPANT SEATING POSITIONS** that are indicated by the manufacturer for your specific model.
- **OBEY THE OPERATOR** at all times.
- **DO NOT RESTRICT THE OPERATOR'S VISION.**
- **DO NOT DEPART THE VESSEL** without informing the operator.

NOTICE




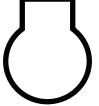





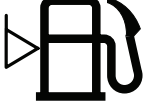



























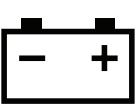




It is important to replace any damaged or unreadable label. Call your Boston Whaler dealer for replacement labels.

Replacement
Part No.

- 1 MULTI HAZARD HELM2420526
- 2 MULTI HAZARD OCCUPANT DECK2420527

Symbols on Controls

Although not used in this manual, some of these symbols may be found on the controls, gauges, and hardware on this vessel. This page is to help you understand what the symbols mean.

				 WARNING ELECTRICAL HAZARD	 FIRE RISK
 ENGINE EXHAUST CONTROL	 ENGINE	 ENGINE START	 ENGINE STOP	 ENGINE COOLANT WATER JACKET TEMPERATURE	 ENGINE OIL PRESSURE
 FUEL GENERAL	 FUEL LEVEL	 LEADED FUEL	 UNLEADED FUEL	 FUEL FILTER	 ENGINE ROTATIONAL SPEED
 BILGE PUMP	 OUTBOARD DRIVE	 OUTBOARD DRIVE TILT	 PROPELLER	 SEAWATER	 SEWAGE
 BILGE BLOWER	 SINGLE LEVER CONTROL	 LIFT POINT / SLING LOCATION	 LIFT POINT	 RUNNING LIGHTS UNDER POWER	 ROTARY CONTROL (WIDTH OF SYMBOL INDICATES INCREASE)
 ANCHOR	 ANCHOR LIGHT	 INTERIOR LIGHT	 HORN	 WINDSHIELD WIPER AND WASHER	 MAGNETIC COMPASS
 PROPULSION SYSTEM TRIM BOW UP	 PROPULSION SYSTEM TRIM BOW DOWN	 PROPULSION SYSTEM TRIM	 TRIM TAB TRIMMING OPERATION	 FRESHWATER	 GRAY WATER
 OIL	 BATTERY	 CONTROL LEVEL OPERATION DIRECTIONS	 WATER PUMP	 ACCESSORY	 NO OPEN FLAME NO SMOKING

Construction Standards

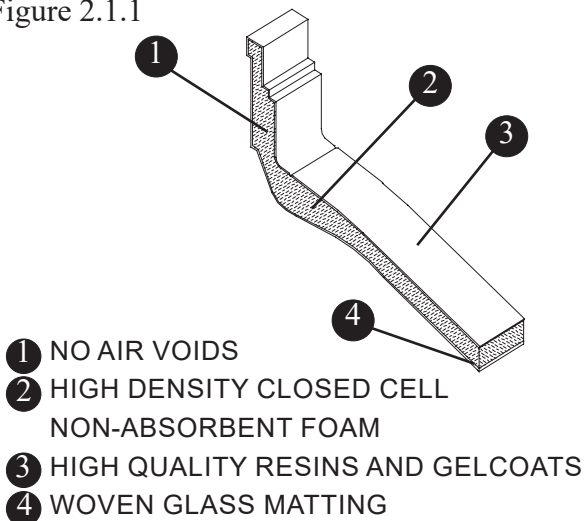
Boston Whaler is dedicated to creating a superior product which will provide comfort, performance, safety and dependability. All of our boats comply with the safety standards set by the United States Coast Guard and are designed, engineered and manufactured in accordance with applicable recommendations and guidelines of the American Boat and Yacht Council (A.B.Y.C.) and certified by the National Marine Manufacturers Association (N.M.M.A.).

Our Hull

Boston Whaler hulls are constructed with our patented Unibond construction process. This involves foam injection into a closed mold system where the foam expands to fill all voids in the hull. When the finished product is pulled from the mold, the hull and deck are chemically bonded to form a solid, inseparable unit.

Hull Construction

Figure 2.1.1



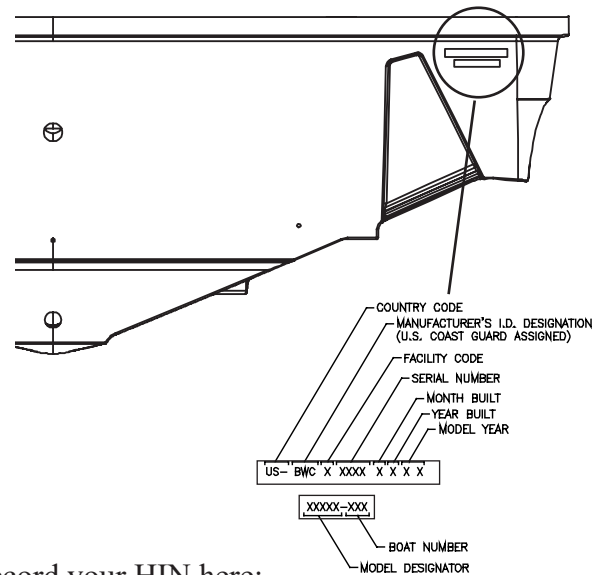
Hull Identification Number

The “Hull Identification Number” is located on the starboard side of the transom.

This is the most important identifying factor and must be included in all correspondence related to your vessel. Also of vital importance are the engine serial numbers, part numbers, etc. when writing about or ordering parts for your engine.

Hull Identification Number (HIN)

Figure 2.1.2



Record your HIN here:

Servicing a Boston Whaler

When your Whaler requires service or maintenance work, it should be taken to an authorized Boston Whaler dealer.

To find a Boston Whaler dealer in your area call: 800-942-5379 (Domestic/International).

In the unlikely event that a problem is not handled to your satisfaction, discuss any warranty related problems directly with the service manager of the dealership or your sales person. Give the dealership an opportunity to help the service department resolve the matter for you.

Manufacturer's Certification

All boats must comply with federal regulations regarding maximum capacities. The *Specifications and Dimensions* table, listed later in this chapter, indicates the maximum weight, number of persons, and maximum horsepower this vessel is rated to handle. Do not exceed these specifications. The information on the certification plate does not relieve the operator of responsibility. Use common sense and sound judgement when placing equipment and/or passengers in this vessel. Do not load to capacity in poor weather/rough water. The number of seats does not indicate passenger capacity in poor weather/rough water. At speeds above idle, all passengers should be seated on the seats provided.

Certification Plates

NOTE: The type of capacity plate varies depending on the local governing authority.

NMMA Plate

An NMMA Certification indicates that your boat has been verified by the National Marine Manufacturers Association (NMMA) to be in compliance with applicable federal regulations and American Boat and Yacht Council (ABYC) standards. Recreational vessels up to 20 feet (6.1 meters) have passenger and cargo weight capacities compliant with USCG regulations. Vessels 26 feet (7.9 meters) and under have passenger and cargo weight capacities compliant with ABYC standards. Vessels over 26 feet have NMMA yacht certification.



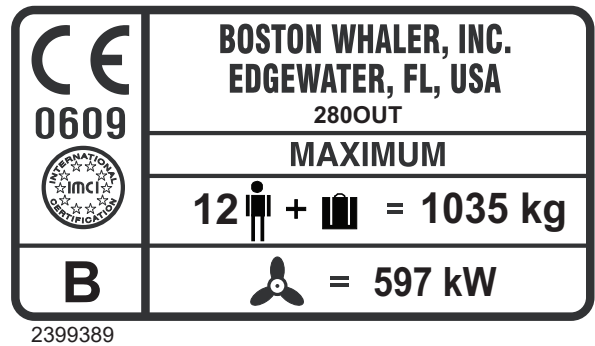
Canadian Conformity Plate

A Canada Compliance Notice indicates that your boat has been certified to comply with construction standards for small vessels by Transport Canada (TC). Recreational vessels up to 6 meters (19.7 feet) have passenger and cargo weight capacities compliant with TC regulations. Vessels over 6 meters are also compliant with TC regulations, but do not state capacities on the plate.



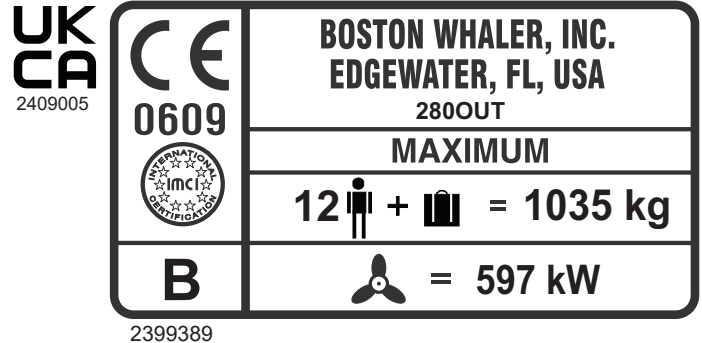
CE Mark Builder's Plate

A CE mark indicates that your boat has been certified for the EU and the passenger and cargo weight capacities comply with the International Organization for Standardization (ISO) regulations.



UK Conformity Assessment

A UKCA mark indicates that your boat conforms to current requirements for products being placed on the market in Great Britain (England, Scotland and Wales), and also complies with the passenger and cargo weight capacity regulations set by the International Organization for Standardization (ISO). Currently the mark is used in conjunction with the capacities listed on a CE Builder's Plate.



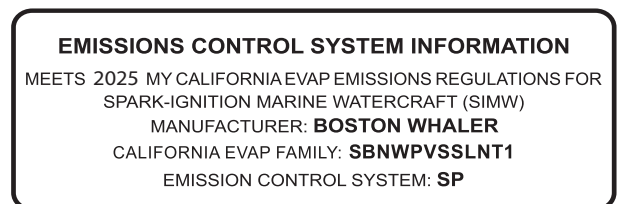
Australian Builder's Plate

An Australian Builder's Plate indicates that your boat has been certified and the passenger and cargo weight capacities comply with either the International Organization for Standardization (ISO) regulations or American Boat and Yacht Council (ABYC) standards as noted on the capacity plate.



Emission Control System Plate

An Emissions Control System Information plate indicates that your boat is compliant with California emissions regulations. This plate is included on all boats regardless of destination.



2431706

Certification Design Category

A: A recreational craft given design category A is considered to be designed for winds that may exceed wind force 8 (Beaufort scale) and significant wave heights of 4 meters and above but excluding abnormal conditions, such as storm, violent storm, hurricane, tornado and extreme sea conditions or rogue waves.

B: A recreational craft given design category B is considered to be designed for a wind force up to, and including, 8 and significant wave heights up to, and including 4 m.

C: A watercraft given design category C is considered to be designed a wind force up to, and including 6 and significant wave heights up to, and including, 2 m.

D: A watercraft given design category D is considered to be designed for a wind force up to, and including 4 and significant wave heights up to, and including, 0,3 m, with occasional waves of 0,5 m maximum height.

The significant wave height is considered to be the primary factor for determining design category. Other parameters (e.g. meteorological) are descriptions of when these wave heights may be expected to occur. Refer to page 1-11 for weather information.

NOTICE

The 280 Outrage is design category B

WARNING

It is imperative that you follow the recommendations listed on your capacity plate regarding the maximum amount of weight the boat can safely carry.

Power Capacity

The “Specifications & Dimensions” list on the following page indicates the maximum rated power listed for your boat. **DO NOT EXCEED THIS RATING.** The various engine types offered today are more powerful and require constant maintenance to stay at optimal performance. It is required of the operator to read all information regarding safety features, warning notices and maintenance schedules for continued safe operation of the engine.

The engine on the 280 Outrage has been tested and proven to be best suited for general use under normal conditions and load.

If you are re-powering your Boston Whaler, you should pay particular attention to the maximum/minimum horsepower and maximum safe engine weight load your Boston Whaler boat is rated for. There is a maximum engine weight label located port of the helm console (See Figure 1.19.1).

NOTICE

The 280 Outrage is designed for a **MAXIMUM** outboard engine weight of 1500 LBS (680 kg).

WARNING

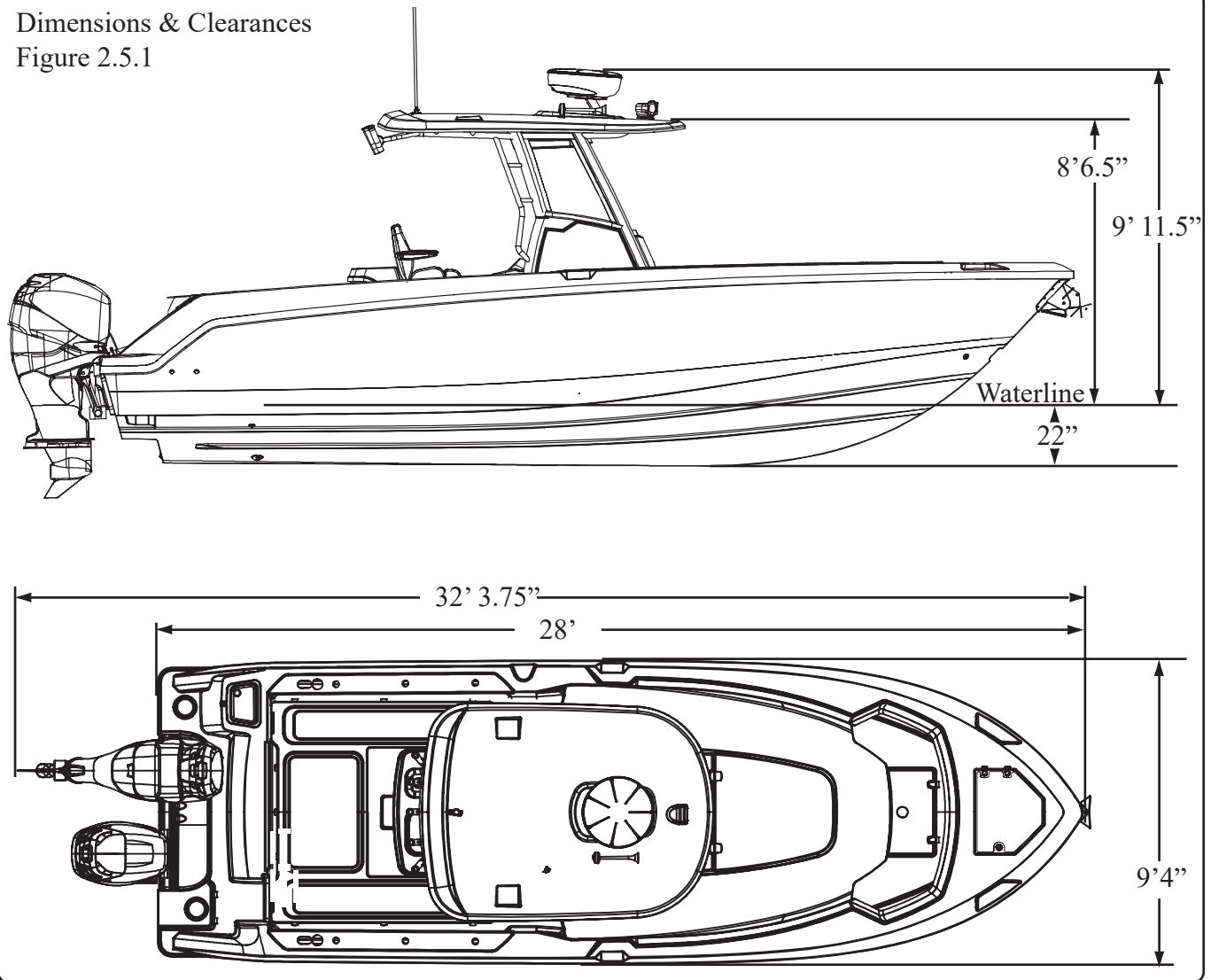
- **DO NOT** Exceed the maximum engine power rating stated on the certification plate.
- Use caution while accelerating. Make sure passengers are safely seated in designated areas of the boat and all gear is stowed securely.

NOTICE

Always adjust the speed and direction of the craft to the varying sea conditions.

Dimensions & Clearances

Figure 2.5.1



Specifications & Dimensions

(Specified measurements are approximations and are subject to variance.)

Overall Length	28'	8,53 m	Maximum Weight,		
Bridge Clearance (hardtop)	8' 6 1/2"	2,6 m	(passengers, engine(s), gear ²)	3750 lbs	1,701 kg
Bridge Clearance (w/radar)	9' 11 1/2"	3,04 m	(passengers, gear ²)	2282 lbs	1,035 kg
Beam	9' 4"	2,84 m	Persons	12	
Draft, (Hull only) ¹	22"	.56 m	Maximum Horsepower	800 HP	597 kw
Weight (dry, no engine)	6200 lbs.	2,812 kg	Minimum Horsepower	500 HP	373 kw
Weight (fuel, water, engine)	8961 lbs.	4,065 kg	Fuel Capacity	186 gal.	704 L
Swamped Capacity	4450 lbs	2,018 kg	Water Capacity	26 gal.	98.4 L
Maximum Engine Weight	1500 lbs.	680 kg	Waste Capacity	6.5 gal.	24.6 L

¹ Optional equipment and loading of the boat will affect the draft measurements. Follow the recommendations listed on your capacity plate regarding the maximum amount of weight your boat can safely carry.

² Exceeding this weight will affect the boat's performance. **DO NOT** Exceed the weights listed on the capacity plate.

Passenger Areas

Deck Occupancy
Figure 2.6.1

Working deck



This area is intended for occupation **ONLY** while mooring, anchoring, loading/unloading or when the boat is at rest. **NEVER** operate the engine while loading or unloading swimmers/divers from the swim platform/ladder.

Accommodation deck



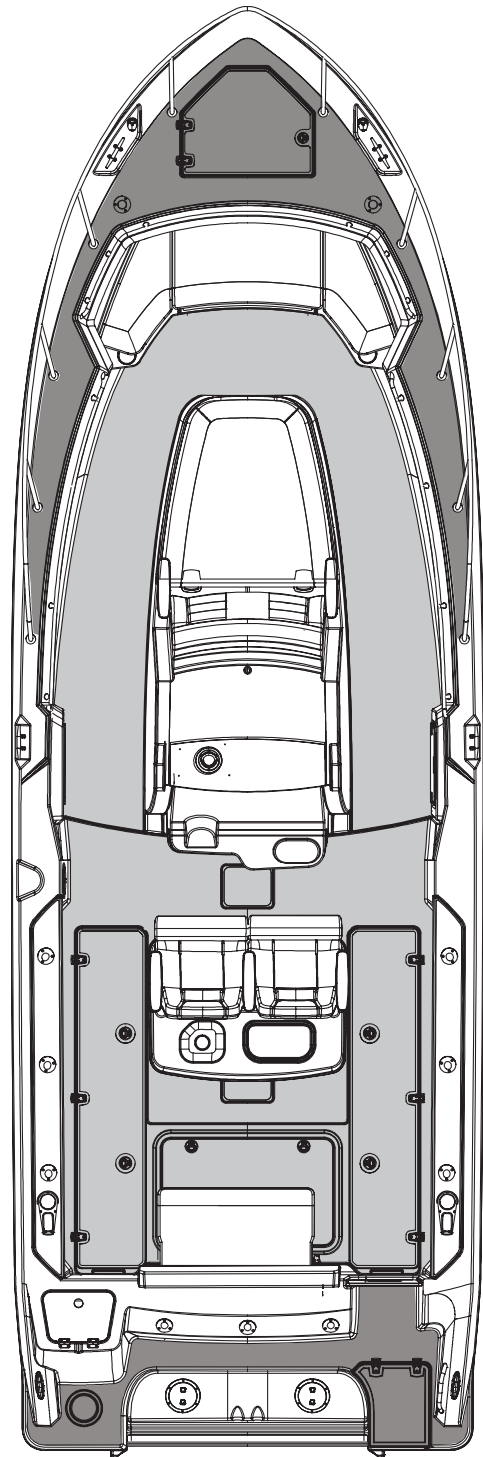
This area of the boat is inside the cockpit and includes helm seating. Movement in this area should be done with extreme caution while the boat is underway. A sudden shift in boat direction can cause a loss of balance and lead to injury or death.

DANGER

Be aware of your footing while the boat is underway, slipping or falling could result in serious injury or death, especially if the boat is in motion or in rough seas. Keep the accommodation deck clean, so if movement is necessary it will be free of obstruction.

WARNING

- Gelcoat surfaces are slippery when wet. Use extreme caution when walking on wet surfaces.
- Never occupy the working decks while the boat is underway.
- Use care when waxing to ensure that walkways are not made dangerously slippery.



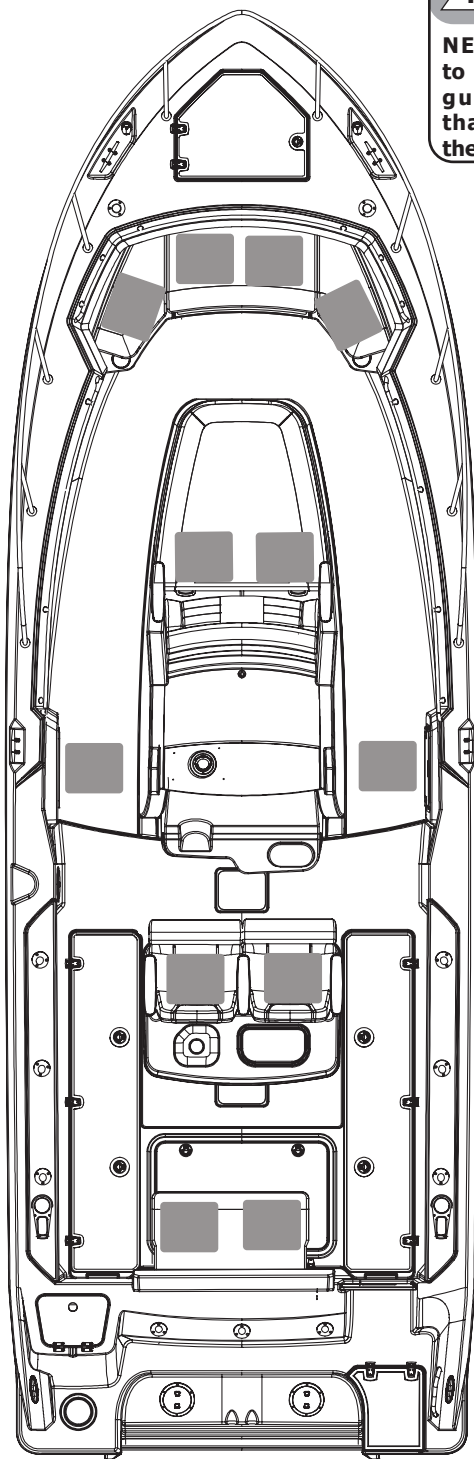
Recommended Passenger Locations

Recommended Seating & On-Plane Locations

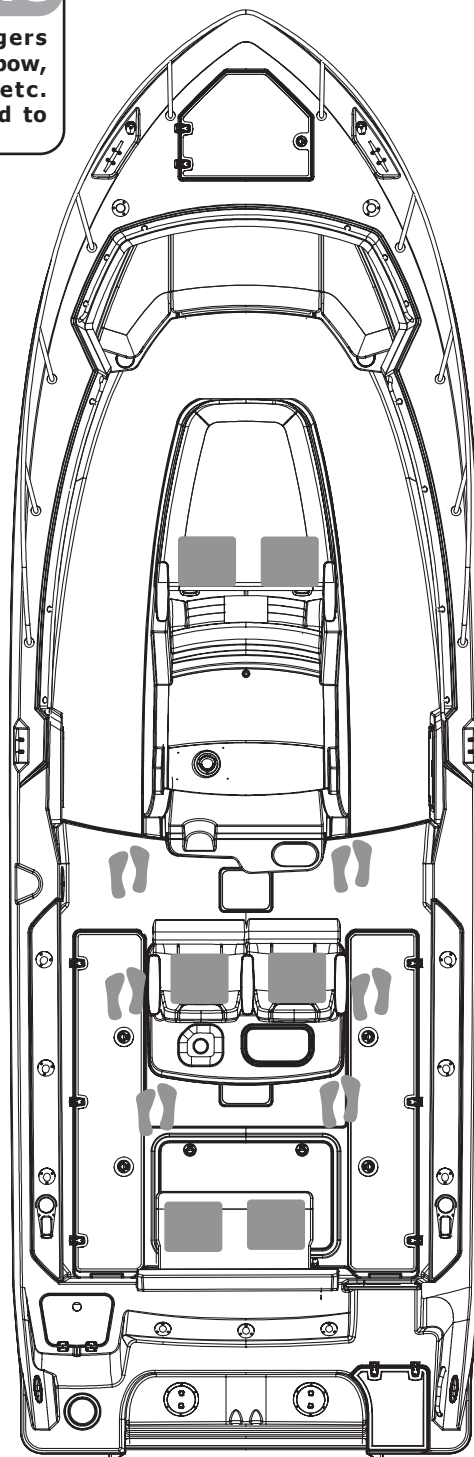
Figure 2.7.1

WARNING

NEVER allow passengers to ride in an area (i.e. bow, gunwales, transom, etc.) that will pose a hazard to themselves or the boat.



RECOMMENDED SEATING
While moored, at idle or at speed under 5 mph

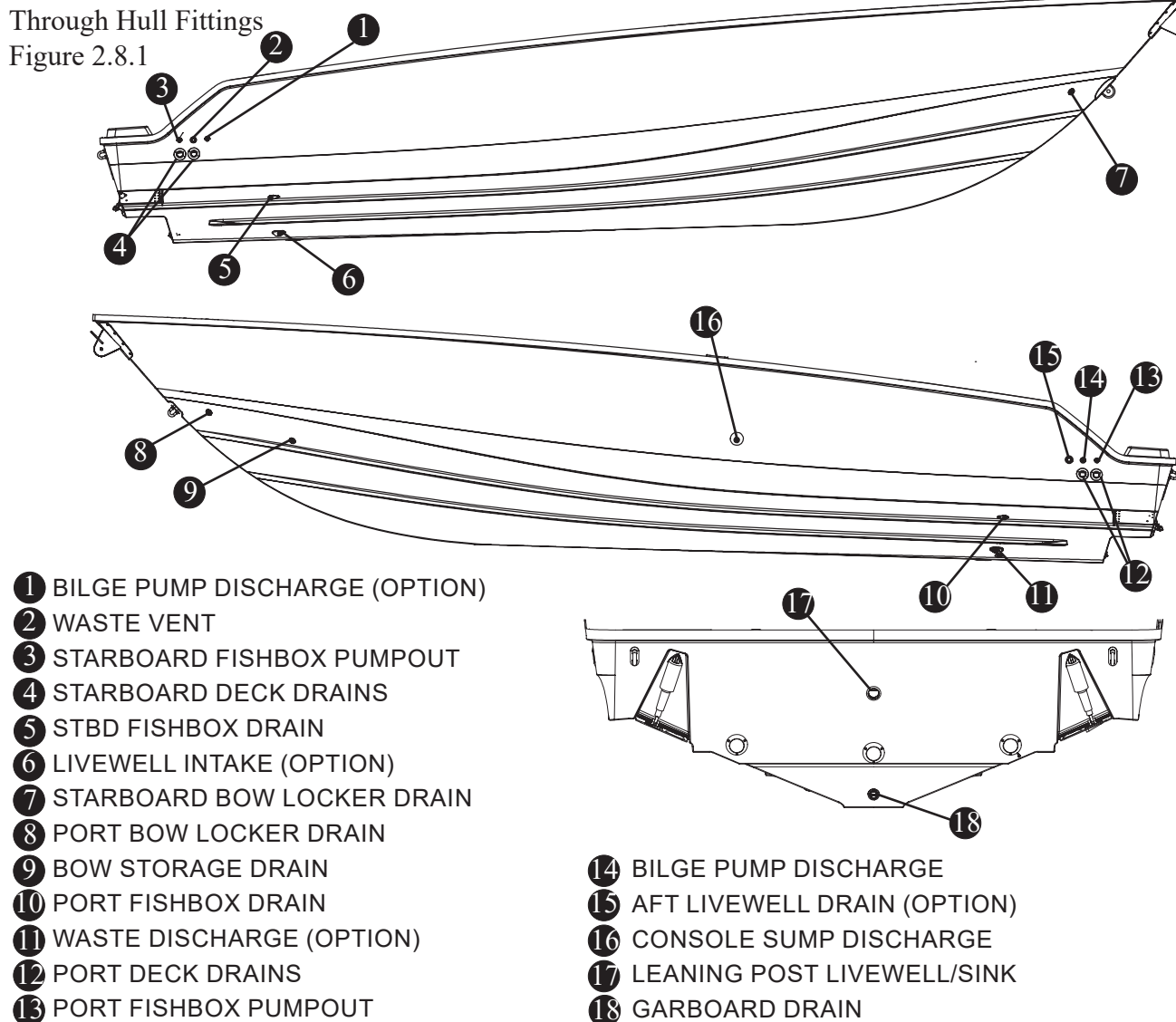


**RECOMMENDED ON-PLANE
LOCATIONS**

NOTE: Hardtop removed for clarity

Location of Thru-Hull Fittings

Through Hull Fittings
Figure 2.8.1



NOTICE

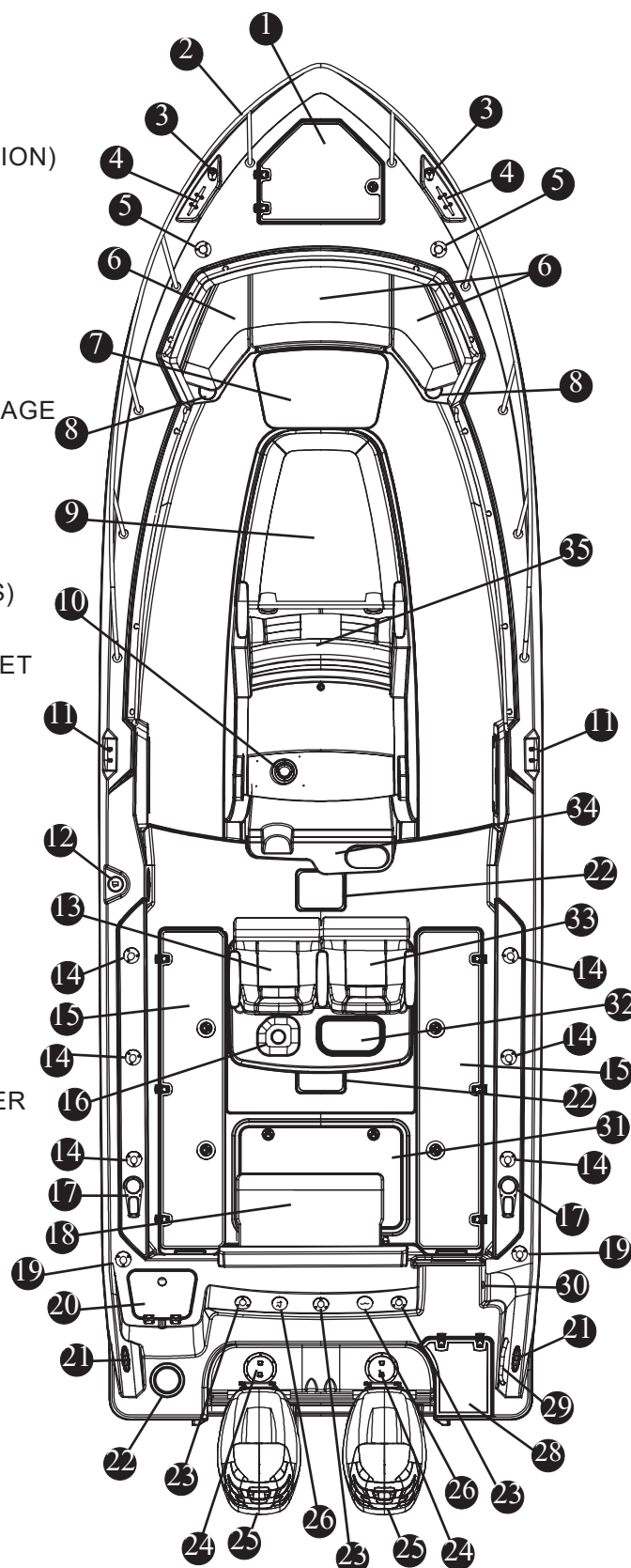
- The deck drains provide self-bailing capabilities while the boat is static in the water and no passengers on board. This feature prevents the accumulation of water in the cockpit.
- Depending on the type of boat you have, you may have underwater fittings that need drain plugs. Garboard drain plugs and fishbox drain plugs need to be in place before the boat goes into the water. Any fitting that will be underwater needs to be plugged or the seacock needs to be closed.
- Through hull fittings and deck drain scupper flaps should be checked for proper seal annually. When the boat is in the water the underwater fittings can be checked for dripping. It is recommended that the underwater fittings be removed, cleaned and resealed every other year.
- If the through hull fittings need to be replaced, it is recommended that an authorized Boston Whaler® dealer perform this type of repair. Through hull fittings that are improperly installed can cause premature hull failure and may void the Boston Whaler® limited warranty.
- A standard 1" "Snap-Tite" style plug can be used to replace the drain plug(s) in your boat. It is recommended that you carry spare plugs to be used in the event that the drain plug(s) become lost or damaged.

Features

Features

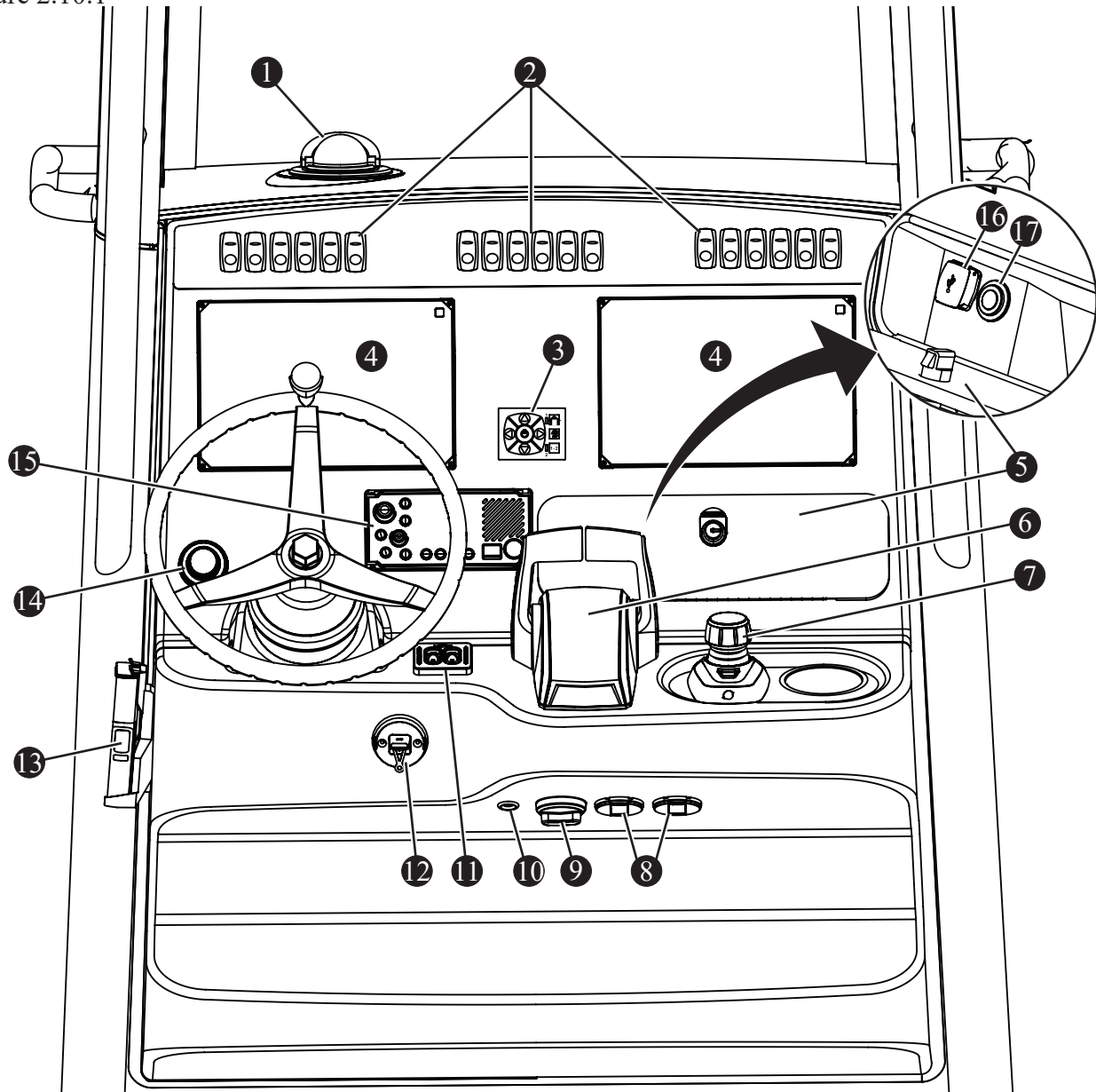
Figure 2.9.1

- 1 ANCHOR LOCKER
- 2 STAINLESS STEEL LOW PROFILE RAIL (OPTION)
- 3 BOW NAVIGATION LIGHTS (P&S)
- 4 BOW CLEATS (P&S)
- 5 FORWARD ROD HOLDERS (P&S) (OPTION)
- 6 BOW SEATING W/ STORAGE UNDER
- 7 BOW FILLER (OPTION)
- 8 CUP HOLDERS (P&S)
- 9 FWD CONSOLE SEAT W/INTEGRATED STORAGE
- 10 MAGNETIC COMPASS
- 11 SPRING LINE CLEATS (8" P&S)
- 12 FUEL FILL
- 13 CAPTAIN'S CHAIR
- 14 GUNWALE MOUNTED ROD HOLDERS (6-P&S)
- 15 AFT FISHBOX (54 GAL) W/PUMPOUT (P&S)
- 16 LEANING POST SINK W/EXTENDABLE FAUCET
- 17 HAWSE PIPE W/CUP HOLDER (P&S)
- 18 AFT BENCH SEAT
- 19 ROD HOLDER (P&S) (OPTION)
- 20 AFT LIVEWELL (20 GAL) (OPTION)
- 21 TRANSOM CROSS TIE CLEATS (OPTION)
- 22 DECK ACCESS
- 23 TRANSOM MOUNTED ROD HOLDERS (3)
- 24 MOTORWELL DECK ACCESS
- 25 FOUR STROKE MERCURY ENGINES
- 26 WASTE DOCKSIDE PUMPOUT
- 27 FRESHWATER FILL
- 28 SWIM PLATFORM W/COVERED SWIM LADDER
- 29 STAINLESS STEEL GRAB RAIL
- 30 TRANSOM FRESHWATER SHOWER
- 31 MECHANICAL ACCESS HATCH
- 32 LIVEWELL (30 GAL) (OPTION)
- 33 HELM COMPANION'S SEAT
- 34 CONSOLE HELM
- 35 FORWARD CONSOLE LOUNGE



Helm

Figure 2.10.1



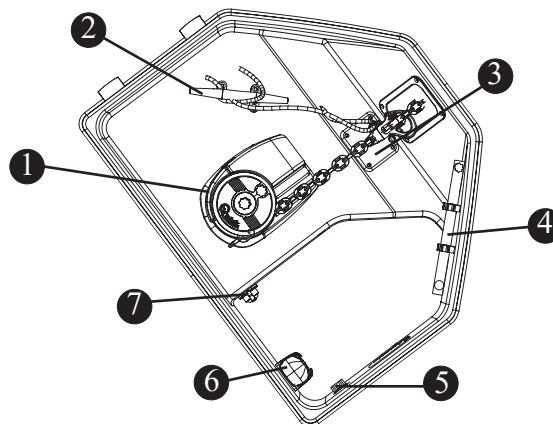
- | | |
|----------------------------------|-------------------------------------|
| ① MAGNETIC COMPASS | ⑩ AIR TEMPERATURE SENSOR |
| ② HELM SWITCH PANEL | ⑪ TRIM TAB CONTROL PAD |
| ③ SPOTLIGHT CONTROL PAD (OPTION) | ⑫ EMERGENCY ENGINE SHUT DOWN SWITCH |
| ④ HELM DISPLAY | ⑬ VHF RADIO REMOTE HANDSET (OPTION) |
| ⑤ LOCKABLE CONSOLE STORAGE | ⑭ STEREO VOLUME/MUTE KNOB (OPTION) |
| ⑥ THROTTLE AND SHIFT CONTROL | ⑮ VHF RADIO (OPTION) |
| ⑦ JOYSTICK STEERING (OPTION) | ⑯ USB STEREO INPUT (OPTION) |
| ⑧ MICRO SD CARD READER | ⑰ 12V OUTLET |
| ⑨ ENGINE DIAGNOSTIC PORT | |

NOTE: Helm features may vary based on accessory options.

Anchor Locker

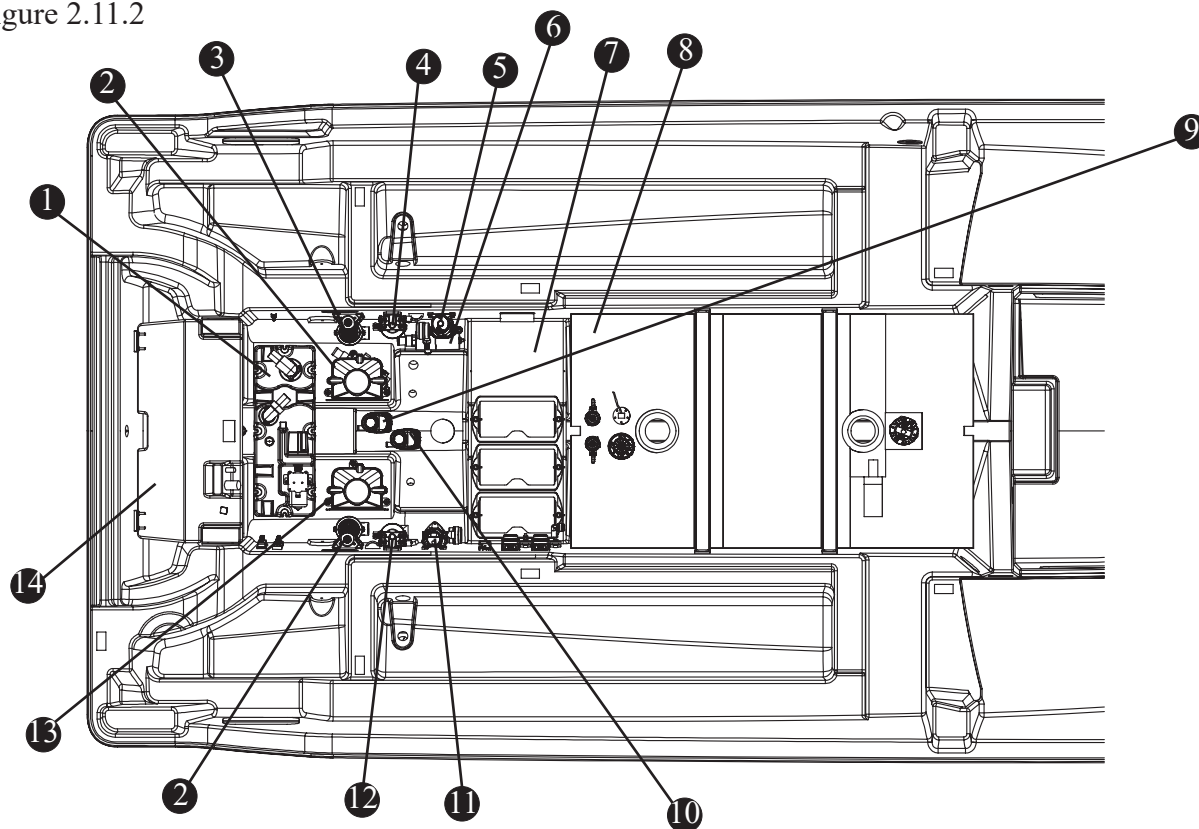
Figure 2.11.1

- ① WINDLASS W/RODE AND STAINLESS STEEL ANCHOR (OPTION)
- ② ANCHOR LOCKER CLEAT
- ③ CHAFE PLATE (OPTION)
- ④ WINDLASS EMERGENCY HANDLE (OPTION)
- ⑤ FRESHWATER WASHDOWN
- ⑥ WINDLASS REMOTE (OPTION)
- ⑦ WINDLASS REMOTE POWER SOURCE (OPTION)



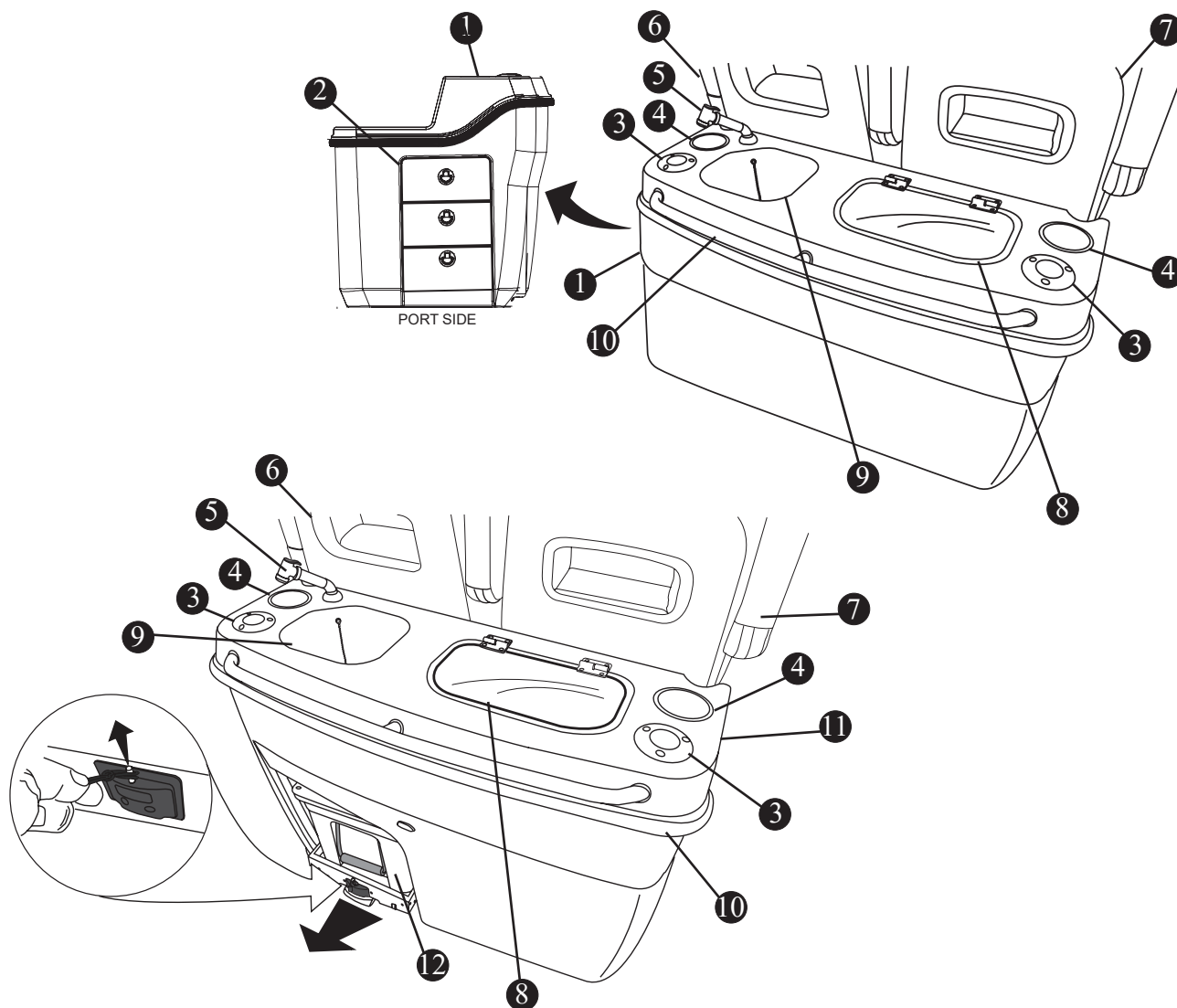
Bilge Layout

Figure 2.11.2



- ① 6.5 GAL. (24.6 L) WASTE HOLDING TANK W/PUMPOUT
- ② POWER STEERING PUMP
- ③ PORT FISHBOX PUMP
- ④ PORT ENGINE FUEL/WATER SEPARATOR
- ⑤ RAW WATER PUMP
- ⑥ MACERATOR
- ⑦ BATTERY TRAYS
- ⑧ 186 GAL (704 L) FUEL TANK
- ⑨ 1100 GPH (4,164 LPH) BILGE PUMP
- ⑩ 1100 GPH (4,164 LPH) AUXILIARY BILGE PUMP (OPTION)
- ⑪ FRESHWATER PUMP
- ⑫ STARBOARD ENGINE FUEL/WATER SEPARATOR
- ⑬ POWER STEERING PUMP
- ⑭ 26 GAL. (98.4 L) FRESHWATER TANK

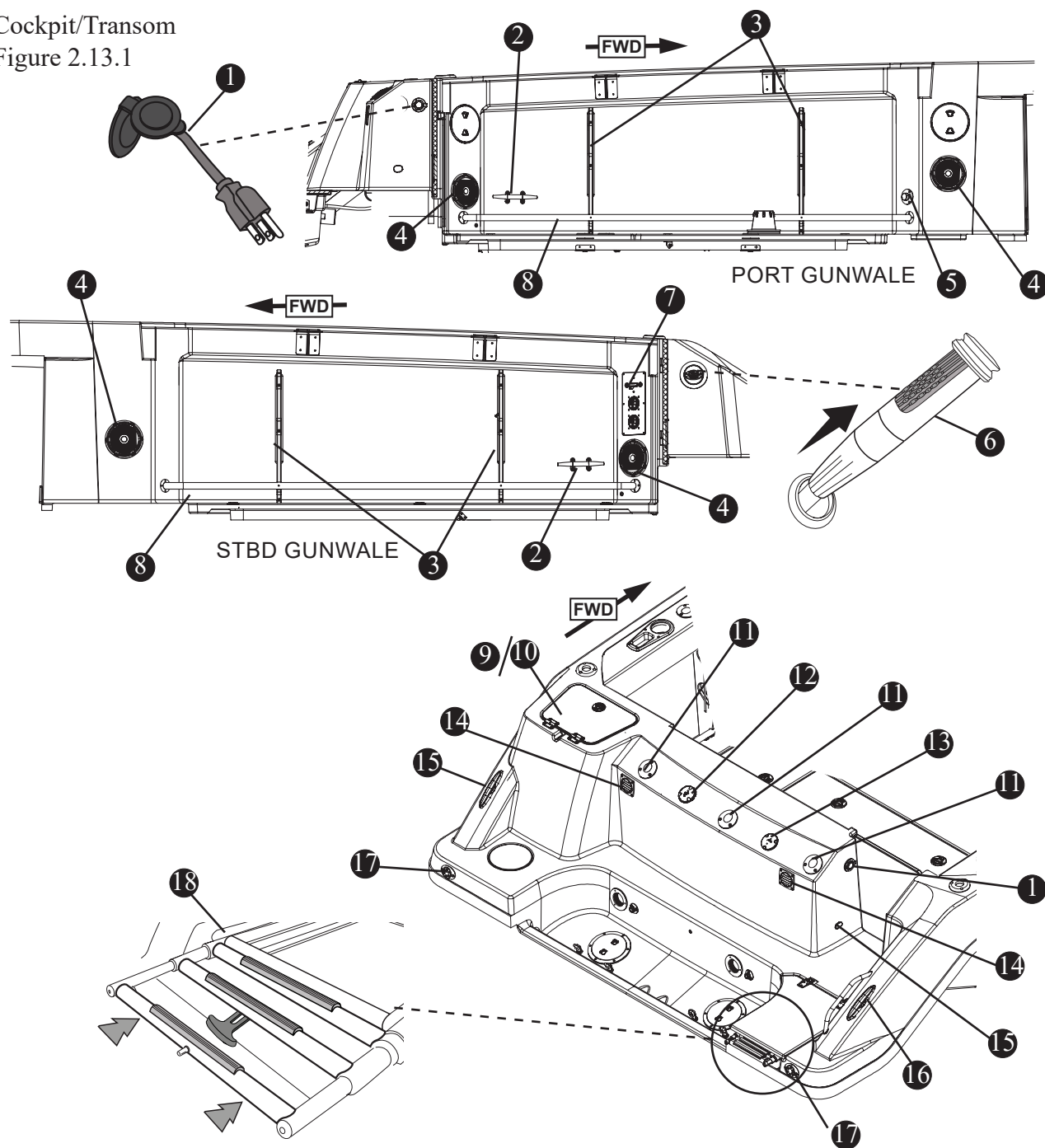
Leaning Post
Figure 2.12.1



- ① STANDARD LEANING POST
- ② 3 DRAWER STORAGE
- ③ ROD HOLDER
- ④ CUP HOLDER
- ⑤ EXTENDABLE FAUCET
- ⑥ CAPTAIN'S HELM SEAT

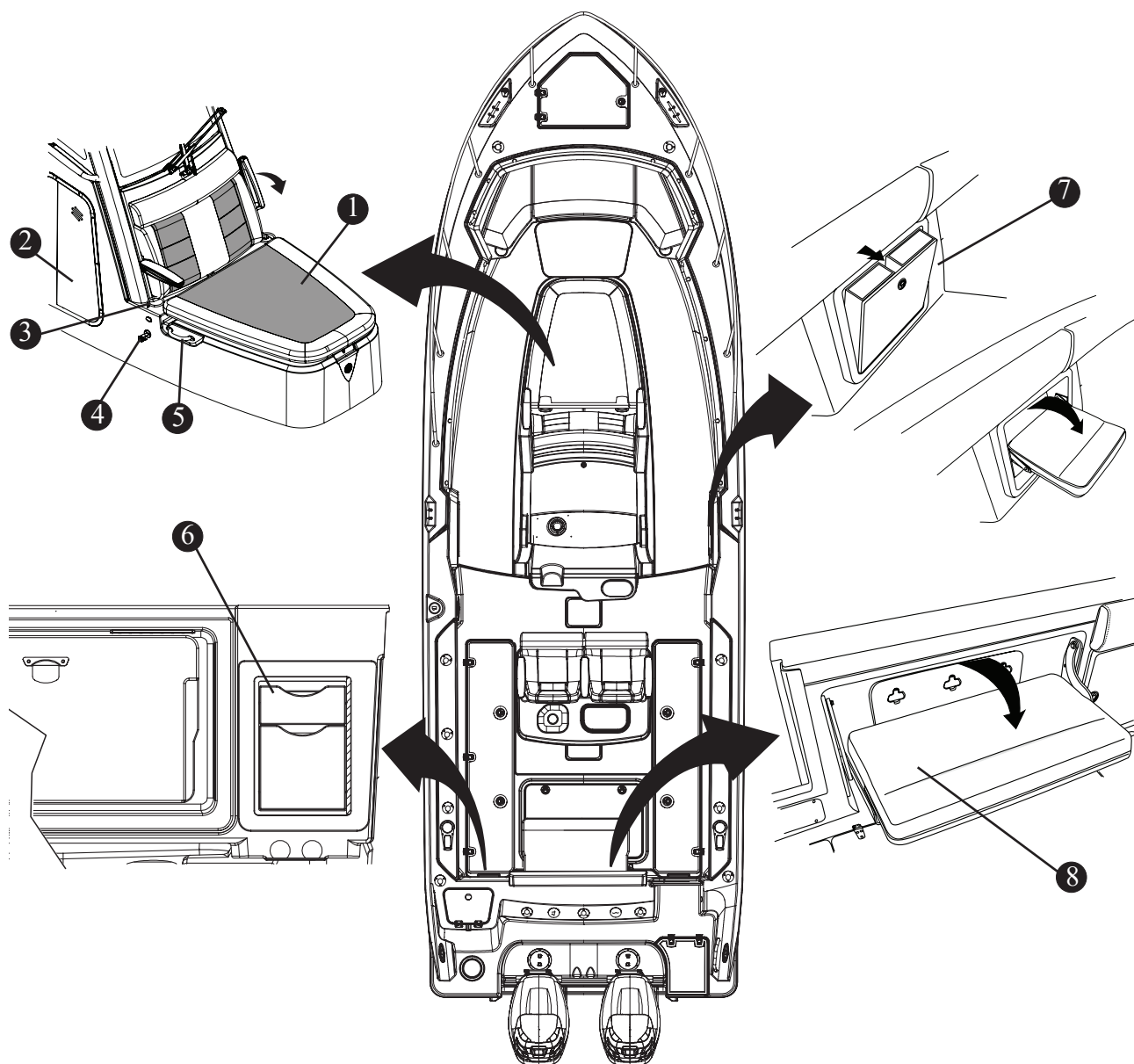
- ⑦ COMPANION'S HELM CHAIR
- ⑧ STORAGE/LIVEWELL
- ⑨ SINK
- ⑩ GRAB RAIL
- ⑪ DELUXE LEANING POST
- ⑫ REMOVABLE COOLER

Cockpit/Transom
Figure 2.13.1



- | | |
|--------------------------------------|--|
| ① DOCKSIDE BATTERY CHARGER (OPTION) | ⑪ TRANSOM ROD HOLDERS |
| ② STERN CLEAT | ⑫ WASTE PUMPOUT |
| ③ UNDER GUNWALE ROD HOLDERS | ⑬ FRESHWATER DECK FILL |
| ④ WATERPROOF STEREO SPEAKER (OPTION) | ⑭ BILGE VENT (OPTION) |
| ⑤ RAW WATER WASHDOWN CONNECTION | ⑮ COURTESY LIGHT |
| ⑥ TRANSOM SHOWER | ⑯ CROSS TIE CLEAT |
| ⑦ BATTERY SWITCH PANEL | ⑰ JOYSTICK "ACTIVE" INDICATOR LIGHT (OPTION) |
| ⑧ TOE RAIL | ⑱ SWIM PLATFORM W/COVERED SWIM LADDER |
| ⑨ AFT STORAGE | |
| ⑩ AFT LIVEWELL (20 GAL) (OPTION) | |

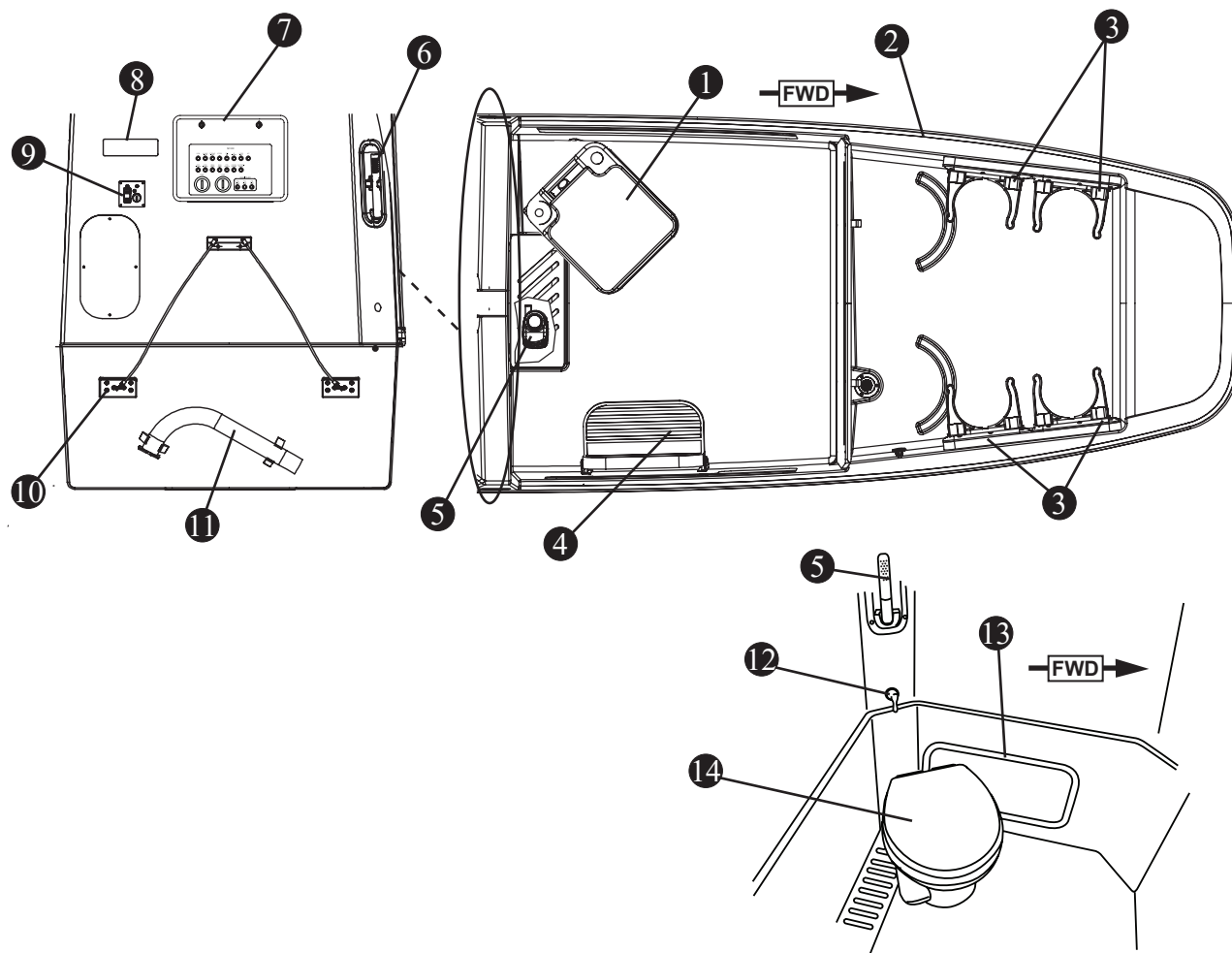
Cockpit/Transom (Cont'd)
Figure 2.14.1



- 1 CONSOLE LOUNGE AND STORAGE
- 2 INTERIOR CONSOLE ACCESS DOOR
- 3 CUP HOLDERS (P&S)
- 4 ACCESS DOOR LATCH

- 5 GRAB RAIL (P&S)
- 6 AFT TACKLE STORAGE
- 7 PULL OUT TROLLING SEAT (P&S) (OPTION)
- 8 AFT BENCH SEAT

Console
Figure 2.15.1

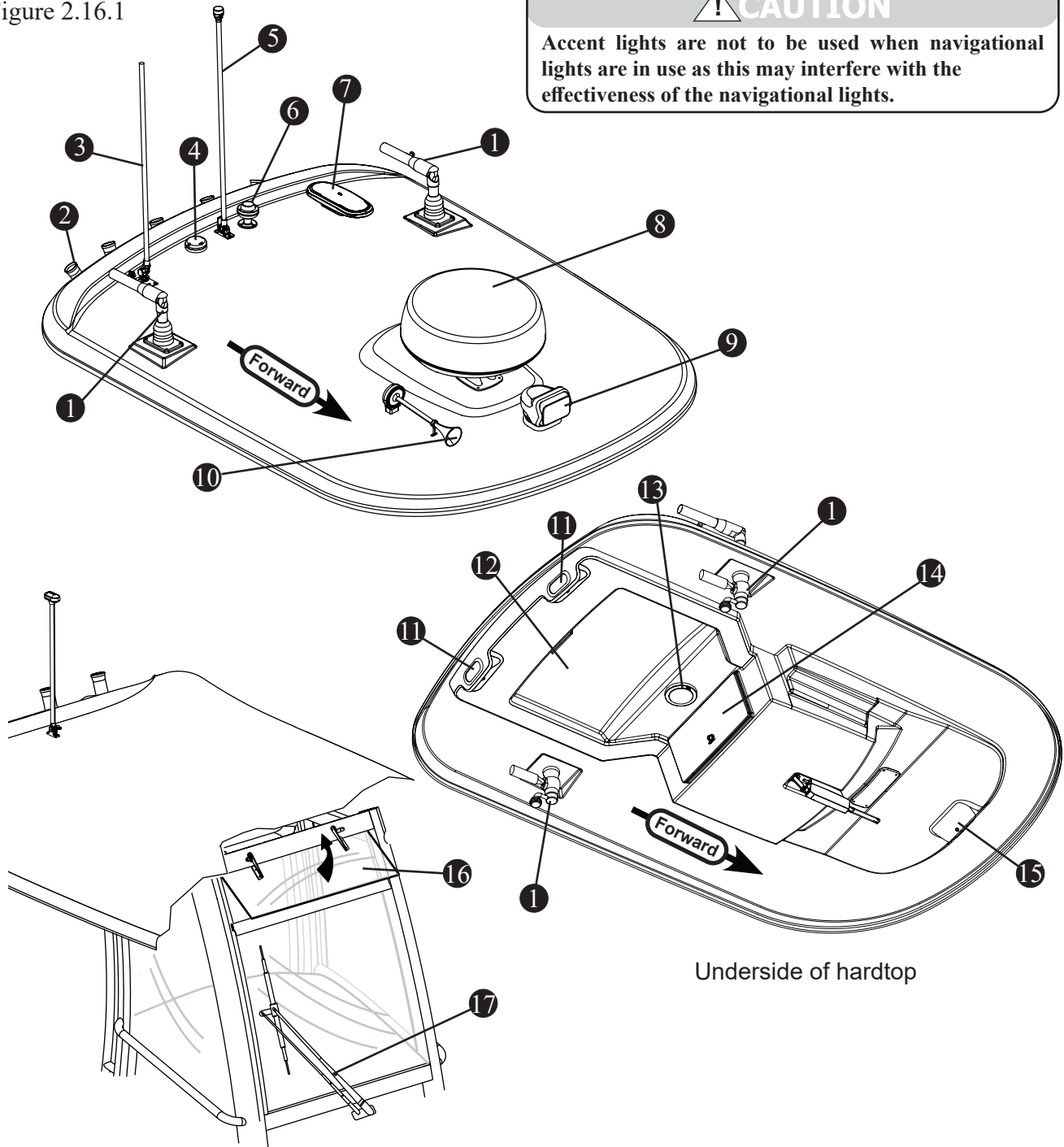


- ① 6.5 GAL PORTABLE HEAD W/PUMPOUT
- ② CONSOLE LOUNGE STORAGE
- ③ DIVE TANK RACKS (OPTION)
- ④ FOLD AWAY ENTRY STEP
- ⑤ 750 GPH (2,839 LPH) FORWARD BILGE PUMP
- ⑥ FRESHWATER SHOWER (OPTION)
- ⑦ DC BREAKER PANEL
- ⑧ STEREO (OPTION)
- ⑨ OVERBOARD DISCHARGE PANEL (OPTION)
- ⑩ BOW TABLE STORAGE (OPTION)
- ⑪ BOW TABLE PEDESTAL STORAGE (OPTION)
- ⑫ SHOWER FAUCET (OPTION)
- ⑬ STORAGE COMPARTMENT (P&S)
- ⑭ TOILET (OPTION)

Hardtop (Option)
Figure 2.16.1

⚠ CAUTION

Accent lights are not to be used when navigational lights are in use as this may interfere with the effectiveness of the navigational lights.

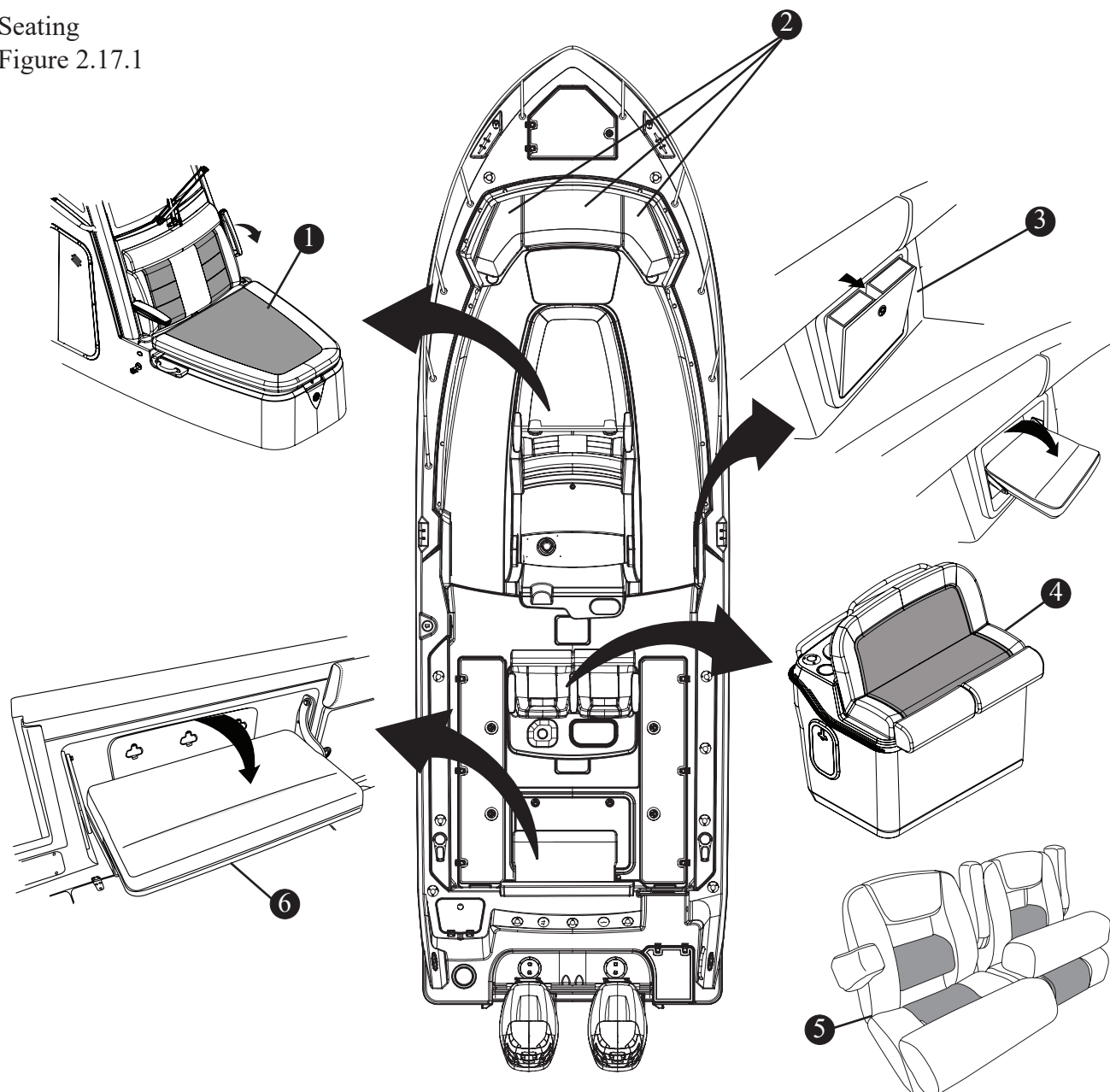


Underside of hardtop

- | | |
|------------------------------|----------------------------|
| ① RADIAL OUTRIGGER (OPTION) | ⑩ HORN |
| ② ROD HOLDER (5) | ⑪ COCKPIT FLOOD LIGHTS |
| ③ VHF RADIO ANTENNA (OPTION) | ⑫ PFD STORAGE BAG |
| ④ GPS ANTENNA (OPTION) | ⑬ DOME LIGHT |
| ⑤ ALL-ROUND (ANCHOR) LIGHT | ⑭ ELECTRONICS BOX |
| ⑥ SATELLITE ANTENNA (OPTION) | ⑮ BOW FLOOD LIGHT |
| ⑦ AUTO PILOT GPS (OPTION) | ⑯ ELECTRIC WINDSHIELD VENT |
| ⑧ RADAR DOME (OPTION) | ⑰ WINDSHIELD WIPER |
| ⑨ SPOTLIGHT (OPTION) | |

Seating

Seating
Figure 2.17.1



- ① FORWARD CONSOLE LOUNGE
- ② BOW CUSHIONS (OPTION)
- ③ FOLD DOWN TROLLING SEAT (P&S) (OPTION)
- ④ HELM SEATING
- ⑤ HELM SEATING (OPTION)
- ⑥ STERN FOLD AWAY BENCH SEAT

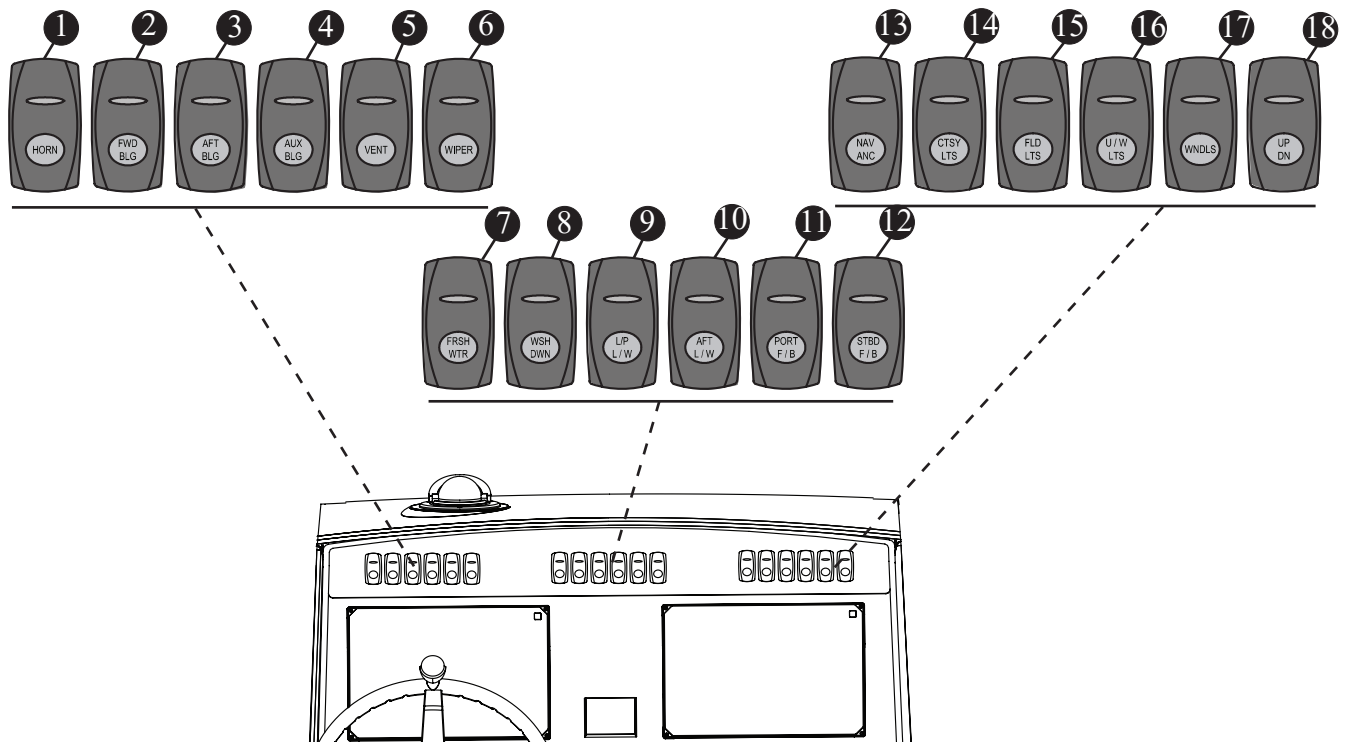
NOTICE

SEAT MAINTENANCE

- Always wash metallic parts with soap and water and rinse thoroughly with fresh water. Once dry, apply a light coating of lubricant to protect moving parts.
- Check for loose or damaged hardware and tighten or replace as necessary.

Helm Switch Panel

Figure 2.18.1



- | | |
|--|------------------------------------|
| ① HORN SWITCH | ⑩ AFT LIVWELL |
| ② FORWARD BILGE PUMP SWITCH | ⑪ PORT FISHBOX PUMPOUT SWITCH |
| ③ AFT BILGE PUMP SWITCH | ⑫ STARBOARD FISHBOX PUMPOUT SWITCH |
| ④ AUXILIARY BILGE PUMP SWITCH (OPTION) | ⑬ NAV LIGHTS SWITCH |
| ⑤ WINDSHIELD VENT | ⑭ COURTESY LIGHTS SWITCH |
| ⑥ WINDSHIELD WIPER | ⑮ FLOOD LIGHTS SWITCH |
| ⑦ FRESHWATER PUMP SWITCH | ⑯ UNDERWATER LIGHTS |
| ⑧ RAW WATER PUMP SWITCH | ⑰ WINDLASS POWER SWITCH |
| ⑨ LEANING POST LIVWELL SWITCH | ⑱ WINDLASS CONTROL SWITCH |

VesselView Display (Option)

If equipped, the VesselView display (see Figure 2.19.1), installed at the helm, allows the boat operator to receive operational information. The system continuously monitors and reports information ranging from basic operating data to detailed vessel environment information.

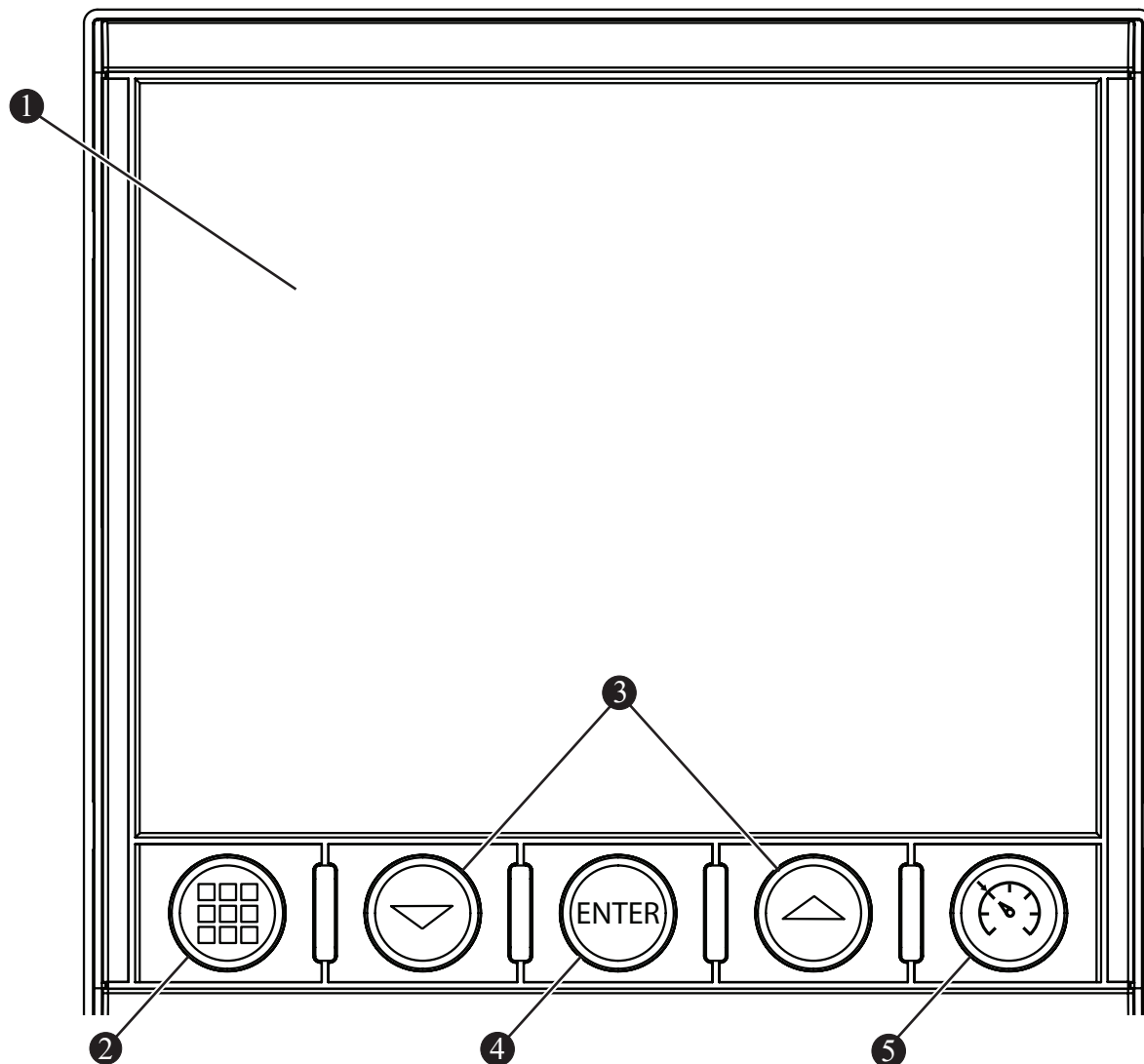
The vessel view display will activate when the engine ignition key switch(s) located inside the console, are turned on.

VesselView Mobile (Option)

If equipped, VesselView Mobile connects the data network to your iPhone or android mobile device. With VesselView Mobile you can connect on your mobile device with all the digital data your engine supports plus new features such as maintenance reminders, mapping, performance summary, and fault code diagnostics.

VesselView Display

Figure 2.19.1



- ① DISPLAY SCREEN
- ② MENU BUTTON
- ③ DATA NAVIGATION BUTTON

- ④ ENTER BUTTON
- ⑤ SPEED CONTROL BUTTON

Navigation Lighting

NOTICE

Regulations state that all boats, no matter the size, must display navigation lights.

This vessel comes equipped with navigation lighting for your safety. Regulations state that all boats must display navigation lights between sunset and sunrise and during periods of restricted visibility, such as rain, fog, haze, etc. If operating in reduced visibility or between sunset and sunrise it is necessary to maintain a safe speed and post a lookout.

It is the operator's responsibility to ensure that the navigation lights are in good working order and that the proper lighting is shown and not obstructed in its intended arc of visibility. Do not modify navigation lights. This vessel's navigation lights may include an expiration date on the housing. If one is located, replace light before expiration date, even if light is functional, as lighting quality may be compromised.

Do not add lights that interfere with required navigation lights. Some lights, such as blue colored lights, may be illegal to display on a boat. It is the owner's responsibility to ensure that displayed lights are also compliant with local regulations.

NOTICE

The improper sequence of navigation lighting may be as dangerous as no lighting at all.

Operating the Navigation Lighting

A three-position switch, located on the console switch panel marked "NAV/ANC" (See Figure 2.20.1) controls the navigation and anchor lighting.

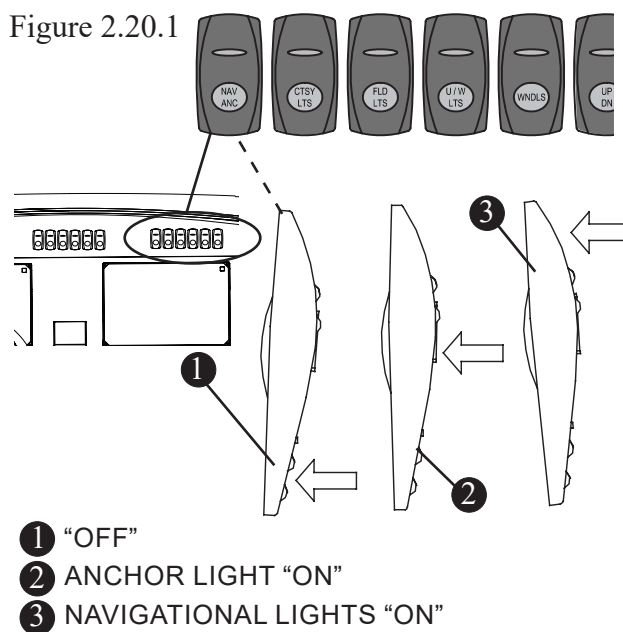
In the "Navigation Lights" position the port (red), starboard (green) and all around (white) lights will illuminate. These lights let other vessels know the approximate size and direction of travel of your boat, depending on which lights they can see. In the "Anchor Lights" position, the white, 360 degrees, all around light will illuminate, showing other boaters your location while at anchor.

CAUTION

Accent lights are not to be used when navigational lights are in use as this may interfere with the effectiveness of the navigational lights.

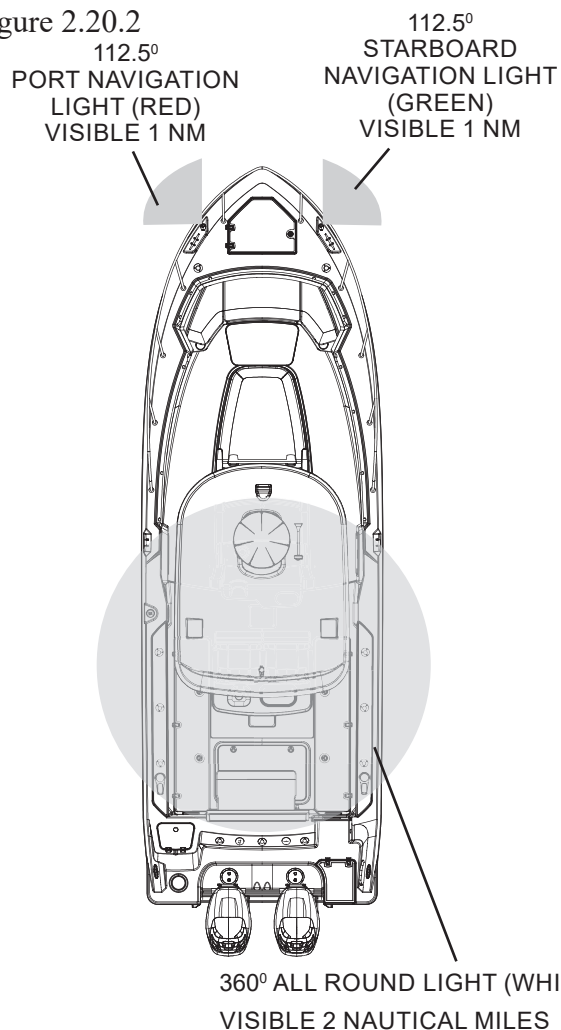
NAV/ANC Switch

Figure 2.20.1



Navigation/Anchor Lighting

Figure 2.20.2



Engine Trim

Engine trim, also referred to as power trim, allows the operator to raise and lower the engines for trailering, launching, beaching, and the bow up transition to planing. Use the engine trim switch to obtain ideal boat angle (in relation to the water surface) for a given load and water condition. In most cases the best all-around performance is obtained when the boat runs at an angle between 3 and 5 degrees. Engine trim can be done manually by Pressing the *trim all* engines switch located on the throttle and shift control. See *Throttle and Shift Control* earlier in this chapter.

ATTENTION

Ensure continuous visibility of other boats, swimmers and obstacles during bow-up transition to planing. Adjust engine to an intermediate trim as soon as boat is on plane.

⚠ DANGER

Visibility from the helm is limited, use of trim tabs is necessary to maintain adequate visibility in some running conditions. Avoid serious injury or death from collisions. Maintain a lookout as required by USCG navigation rules.

Active Trim

Engine trim can also be controlled automatically using active trim, a GPS, speed-based engine trim system that adjusts engine trim based on changes in boat speed and maneuvers to improve performance, fuel economy, and ease of operation. Active trim switches, located on the side of the throttle and shift control, have several selectable trim profiles that allow the operator to compensate for changes in boat load, operator preference, and weather conditions.

REFER TO OWNER'S PACKET FOR COMPLETE INSTRUCTIONS AND WARRANTY INFORMATION.

Trim Tabs

Trim tabs are located on the bottom of the hull at the transom and are used to assist in leveling the vessel caused by uneven weight distribution or strong cross winds (see Figure 3.21.1).

Operation

The trim tabs are controlled by switches (see Figure 3.21.2) located at the helm. Short momentary bursts of the switches will achieve proper attitude of the hull. The trim tab switch is marked bow up and bow

down. Using the trim tabs can:

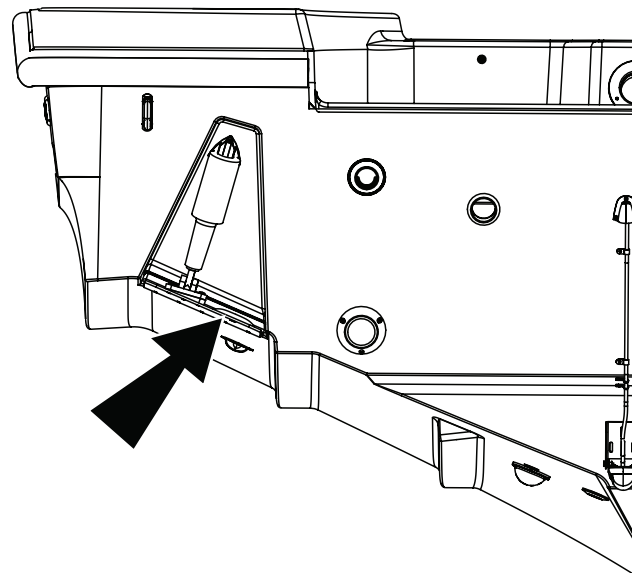
- Level the boat; fore and aft, port and starboard
- Reduce resistance in the steering system
- Increase speed
- Reduce strain on the engines
- Provide a smoother, more stable ride

NOTICE

Ensure continuous visibility of other boats, swimmers and obstacles during bow-up transition to planing. Adjust engine to an intermediate trim as soon as boat is on plane to avoid possible ejection due to boat spinout. Do not attempt to turn boat when the engine is trimmed extremely down, under or in.

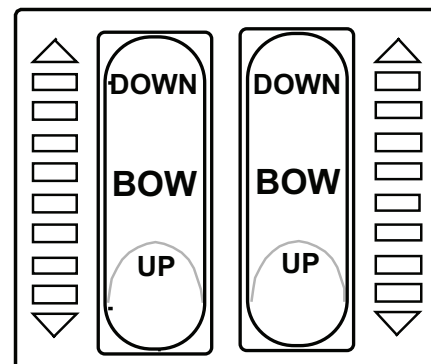
Trim Tabs

Figure 3.21.1



Trim Tab Switch Pad

Figure 3.21.2



The trim tabs units are sealed, waterproof and maintenance free. General cleaning is recommended, and marine growth should be removed when the boat is out of the water. Also inspect the sacrificial anodes regularly and replace as necessary, refer to Chapter 5, *Care & Maintenance* for additional information.

REFER TO THE OWNER'S PACKET FOR COMPLETE INSTRUCTIONS AND WARRANTY INFORMATION.

Canvas (Option)

The optional canvas (Figure 2.22.1) will keep its appearance and maintain proper working order provided you follow a few simple steps for cleaning and maintenance (See “Canvas Care & Maintenance”, section 5 of this manual).

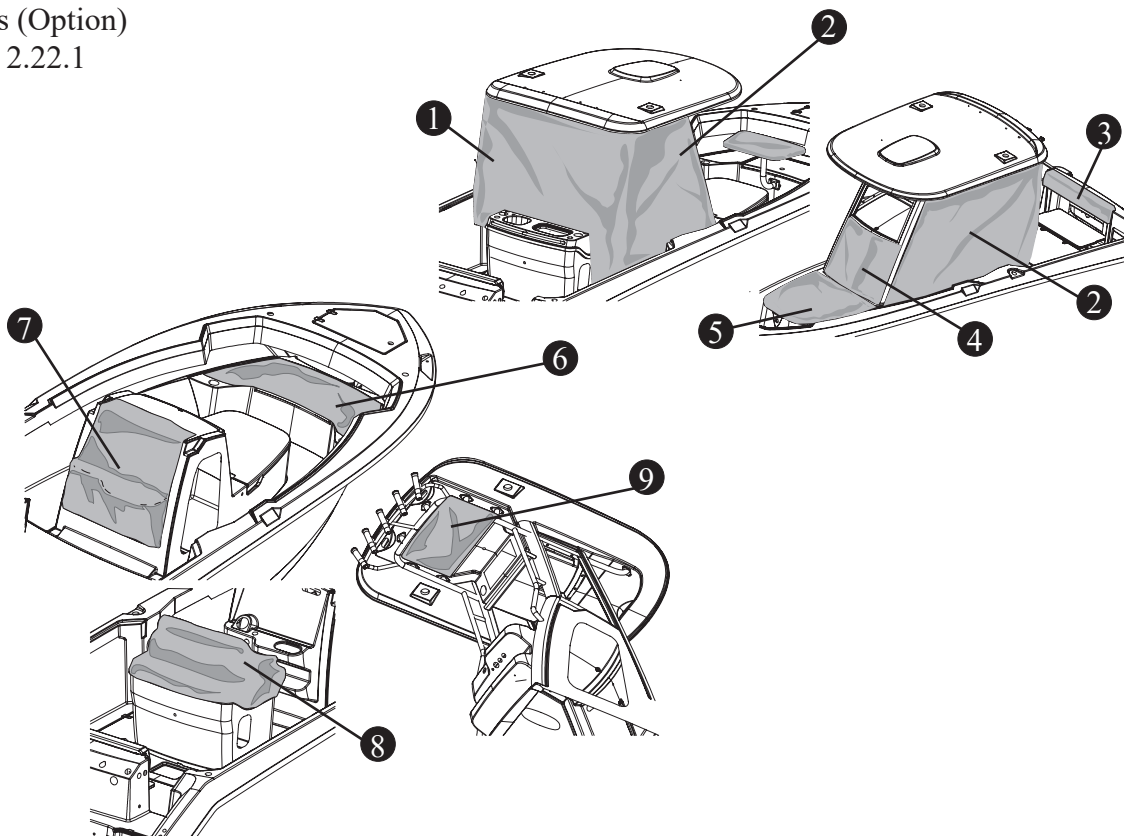
NOTICE

Consult your Boston Whaler® dealer or check with your canvas owner's manual before using any chemical treatments on your canvas.

NOTICE

NEVER store canvas in such a way that the vinyl window sections will touch vinyl to vinyl. Place a separator sheet (i.e. towel or soft blanket, etc.) between the pieces of vinyl.

Canvas (Option)
Figure 2.22.1



- | | |
|---------------------|----------------------|
| ① WING ENCLOSURE | ⑥ BOW CUSHIONS COVER |
| ② WING CURTAIN | ⑦ CONSOLE COVER |
| ③ STERN SEAT COVER | ⑧ LEANING POST COVER |
| ④ LOUNGE COVER | ⑨ CANVAS STORAGE |
| ⑤ LOUNGE BASE COVER | |

Propeller

NOTICE

- **It is advised that you always carry spare propellers, propeller hardware and a propeller wrench on board. Should your propellers become damaged they can then be easily replaced.**
- **Under no circumstance should you use a propeller which allows the engine to operate at a higher than recommended RPM.**

The engine on your 280 Outrage has been equipped with a propeller which our tests have shown to be best suited for general use under normal conditions and load. In some situations you may wish to change the propeller to give your boat slightly different performance characteristics.

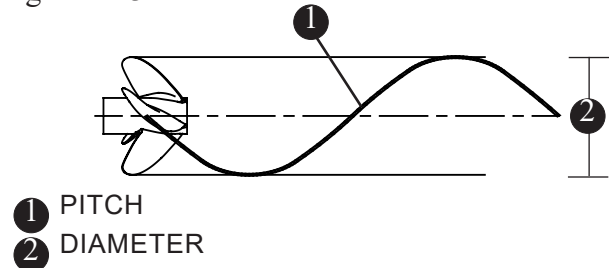
Propellers have two basic characteristics, diameter and pitch.

Diameter is that distance measured across the propeller hub from the outer edge of the 360 degrees that is made by the propeller's blade during a single rotation.

Pitch is that distance in inches that a propeller will travel if rotated one revolution without any slippage.

Propeller Pitch & Diameter

Figure 2.23.2



In general, changing to a lower pitch propeller will increase acceleration and load pulling capability, with a slight decrease in top end speed. If you choose to change propellers, the type should be discussed with your Boston Whaler® dealer. All propellers are designed to provide maximum forward thrust, consequently, the reverse thrust of the propeller will not be as efficient.

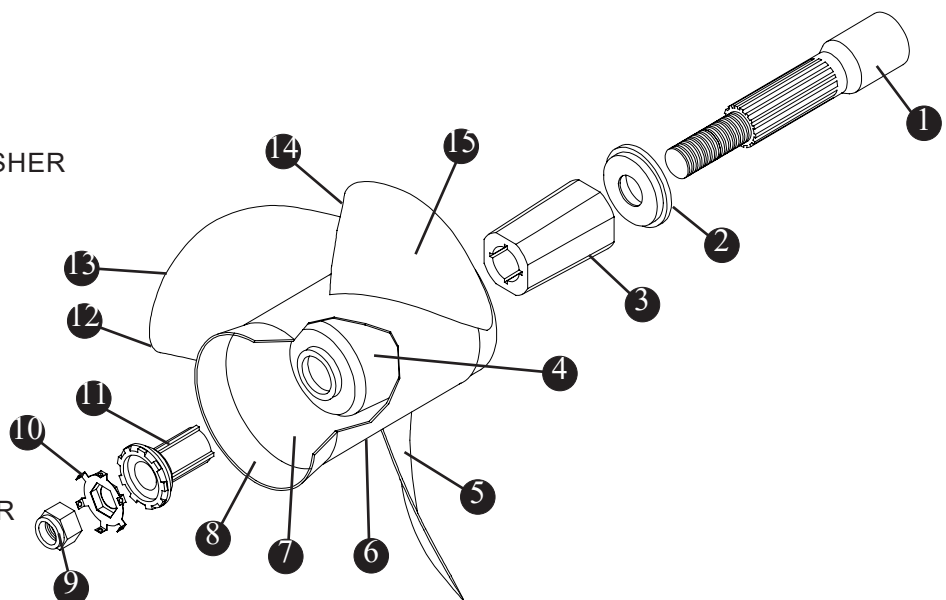
⚠ DANGER

Disconnect power by moving the battery switches to the "OFF" position prior to removing the propeller for maintenance, etc.

Propeller Assembly

Figure 2.22.1

- 1 ENGINE SHAFT
- 2 FORWARD THRUST WASHER
- 3 DRIVE SLEEVE
- 4 INNER HUB
- 5 BLADE BACK
- 6 OUTER HUB
- 7 EXHAUST PASSAGE
- 8 DIFFUSER RING
- 9 PROP NUT
- 10 LOCK RING
- 11 DRIVE SLEEVE ADAPTER
- 12 BLADE TIP
- 13 LEADING EDGE
- 14 TRAILING EDGE
- 15 BLADE FACE



Bow Tow Eye (Option)

WARNING

PERSONAL INJURY HAZARD

Towing or being towed stresses the boat(s) hardware and lines. Failure of any part can seriously injure people or damage the boat(s).

DO NOT stand directly in line with the tow line. If it were to break, it would “snap Back” causing injury or damage to everything in its path.

The optional bow tow eye which is located on the hull, extreme front of the boat, is reinforced with a stainless steel backing plate located in the anchor locker.

In the event that it becomes necessary for you to have your boat towed, the U.S. Coast Guard or a private salvage company experienced in this type of operation are better equipped to perform the service.

Use another recreational boat only as a last resort. Doing so may cause damage to one or both boats due to operator inexperience or other conditions such as weather and/or current.

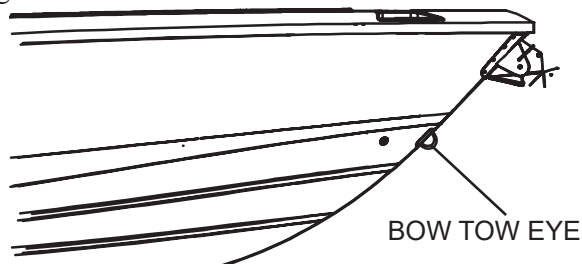
In addition, the pitch of most propellers on average recreational vessels is geared toward maximizing the speed of the vessel, not torque, thus making towing inefficient and stressful on the engine.

CAUTION

NEVER use the tow eye to remove your boat or another vessel which has run aground or for any other usage that would apply similar extreme forces to your boat.

Bow Tow Eye (Option)

Figure 2.24.1



If it becomes necessary to tow your boat:

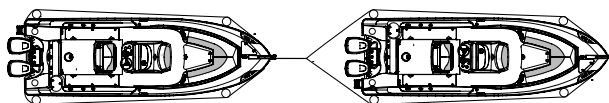
If possible, create a bridle with a line around the hull or superstructure or use spring lines to secure the towed vessel to the towing vessel (See below).

Either of these methods will distribute the load over a wide area. Be sure to use fenders or other chafe protection at the pressure points.

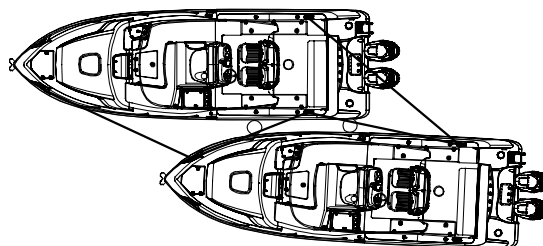
Methods of Towing

Figure 2.24.2

BRIDLE



SPRING LINES

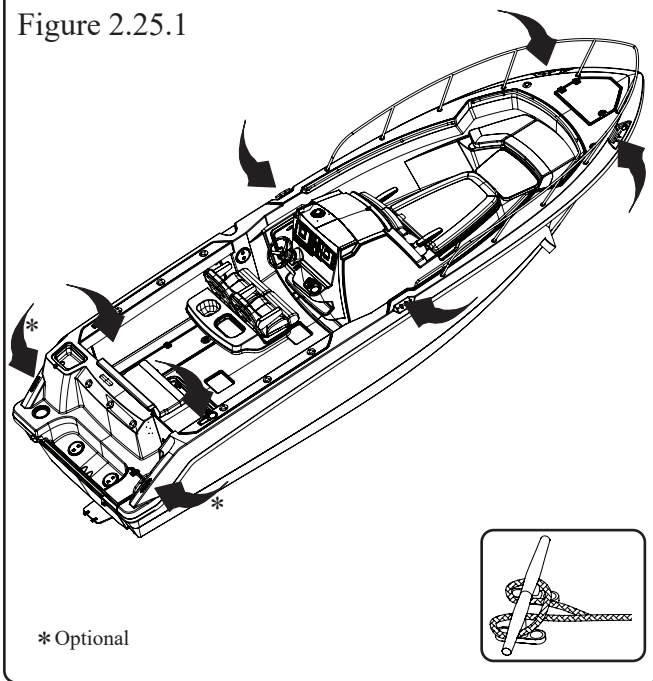


If using the bow eye to tow is the only option:

- Use double-braided or braid-on-braid line. NEVER use three-stranded twisted nylon; it has too much elasticity, can break and “snap back” causing severe injury or damage.
- Attach the tow line to the bow tow eye only. DO NOT attach the tow line to a cleat or deck rail.
- Have towing vessel move slowly to prevent strain on a slack line.
- Keep someone at the helm of the towed vessel to steer.
- Keep lines clear of propellers on both boats.
- Keep hands and feet clear of the other boat.
- NEVER hold a towline after it is pulled taut.

Docking and lifting

Cleat Locations
Figure 2.25.1



Docking

Your 280 Outrage has nine cleats, One in the anchor locker, two located at the bow, two midship with hawse pipes, two with hawse pipes located in the aft cockpit under the port & starboard gunwale and two cross tie cleats at the transom.

The cleats are used to secure the boat to the dock while loading/unloading or mooring. Please learn the proper way to secure the boat and how best to use the mooring points of your boat.

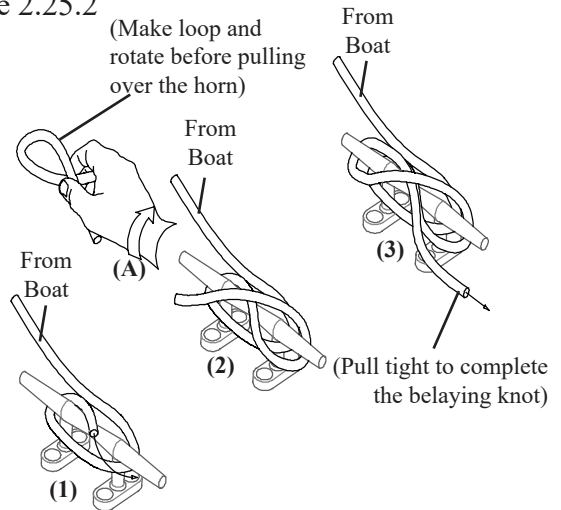
Figure 2.25.2 shows the correct method for tying a belaying knot, commonly used to secure a boat to a dock. This knot will hold fast and is simple to release when needed.

Lifting

The bow eye is used to haul out and hold your boat onto a trailer. The stern eyes are used as tie down points while trailering the boat. The bow and stern eyes may be used only for short term lifting of the boat such as service. Long term lifting with bow and stern eyes will cause stress on the fiberglass and gel coat.

Belaying Knot

Figure 2.25.2



⚠ DANGER

Use only the lifting points specified. Using the cleats for lifting is dangerous and could cause serious injury or death.

⚠ CAUTION

Long term lifting with the bow and stern eyes can cause stress on the fiberglass and gel coat and is not recommended.

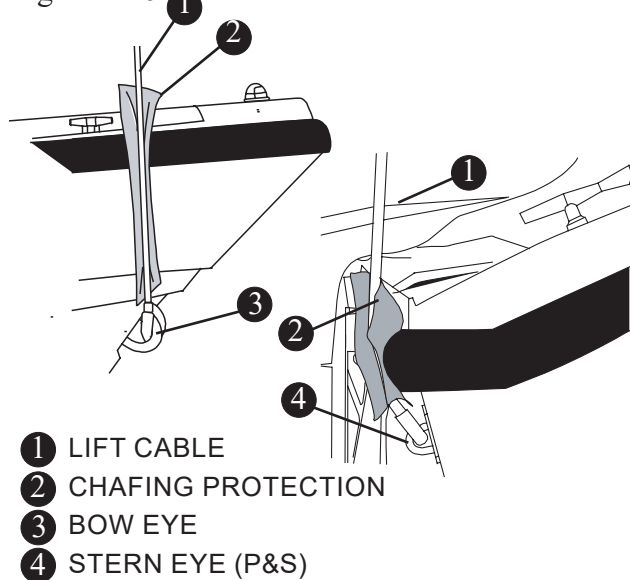
For long term lifting or storage, use flat, wide belt-type slings and spreaders long enough to keep pressure from gunwales. DO NOT place slings where they may lift on underwater fittings.

Whether you are lifting your boat out of the water for routine maintenance or long term storage, consider the following:

- If you are using a professional lifting service, it is prudent to check all credentials and ask for proof of insurance to protect your investment.
- Use a wide, flat, belt-type sling for lifting, to minimize stress on the gunwales. Careful location of the sling is required. Do not place slings where contact with underwater fittings will occur.

Proper Short Duration lifting

Figure 2.26.1



- If you are using a professional lifting service, it is prudent to check all credentials and ask for proof of insurance to protect your investment.
- Use a wide, flat, belt-type sling for lifting, to minimize stress on the gunwales. Careful location of the sling is required. **DO NOT** place slings where contact with underwater fittings will occur.
- If using a lifting hook, attach to bow eye and the stern lifting eyes mounted on the transom. Always use a spreader bar on the stern eyes and use chafing protection on the top of the transom.
- All drain plugs (i.e. transom, fishwell, deck, etc.) should be pulled out and the boat positioned with the bow slightly higher than the stern so that any water which is allowed to accumulate in the cock pit and/or bilge can easily drain from the boat.

Trailer

NOTICE

The warranty may be void if a trailer with rollers is used. Use a trailer with bunks only.

This vessel has the option of being fitted with an aluminum trailer which is best suited to the boat's length and width. If a trailer is not provided by Boston Whaler, then the following design considerations must be followed to not void your structural hull warranty:

- Trailers equipped with rollers can damage the hull of this vessel and should never be used to support the hull bottom.
- A single roller at the *WINCH STAND/ASSEMBLY* (see Figure 2.26.1) is permitted.
- The hull bottom must be solely supported by a fixed *BUNK STYLE ASSEMBLY* (see Figure 2.26.1).

Securing Boat to Trailer

Bow Eye Safety Chain/Cable

There is a safety chain/cable that attaches to the bow eye and will keep the boat from sliding off the trailer in the event that the winch strap or cable breaks. Hook this up first.

Tie-Down Straps

Can be used to secure the boat from the stern. The tie-down straps hook into the tie-down loops on the trailer frame and to the stern eyes on the transom. Padding (or similar) chafe protection should be used wherever the tie-down straps come in contact with the hull.

Securing Trailer to Tow Vehicle

⚠ DANGER

Never use only tie down straps as they are only used to help keep boat secured to the trailer. Make certain that the safety chain is properly secured to the bow eye.



CAUTION

Never use improperly matched hitch ball and coupler.
Do not secure chains to bumper of tow vehicle.

Vehicle Safety Chains/Cables

Safety chains/cables (see Figure 2.27.1) are connected to the trailer and should be of sufficient length to reach the frame of the tow vehicle and should be long enough to allow the tow vehicle to turn without binding or tensioning.

Trailer Hitch

A properly matched trailer hitch ball and coupler is important. Ensure the coupler and the hitch ball are properly seated and locked.

Engine Trailering



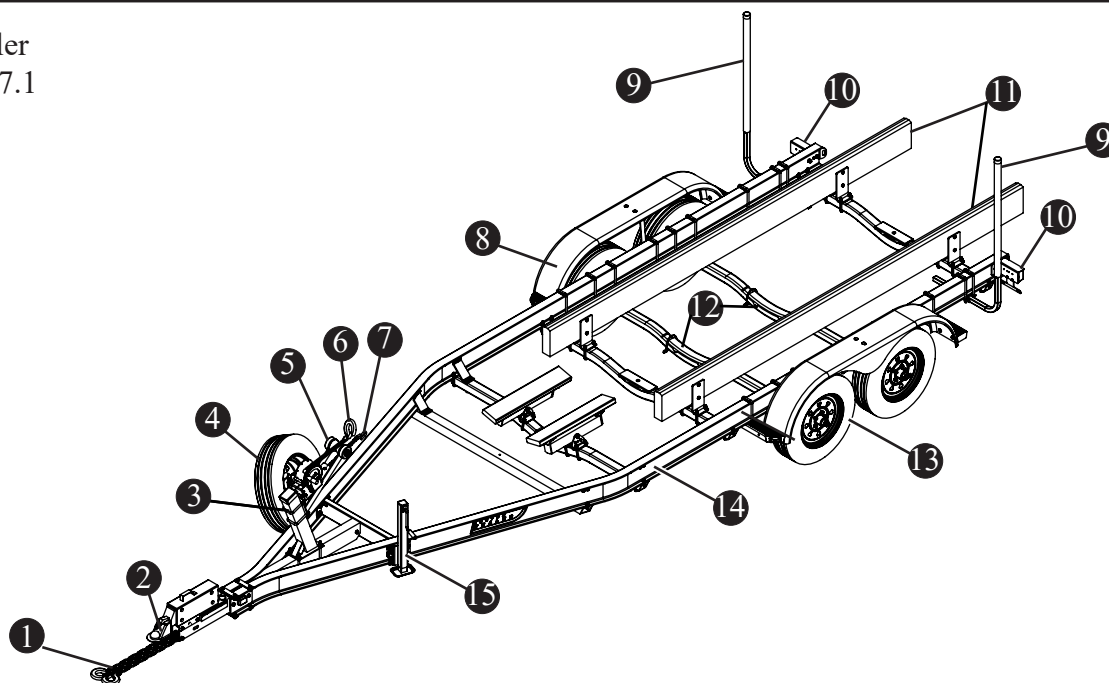
CAUTION

Do not rely on power trim/tilt system or tilt support lever on the outboard to maintain proper ground clearance for trailering. The outboard tilt support lever is not intended to support the outboard for trailering.

Trail the boat with the outboard tilted down in a vertical operating position. However, if additional road clearance is required due to railroad crossings, driveway clearance, trailer bounce, etc., the outboard should be tilted up and supported using an accessory outboard support device. Consult a Boston Whaler dealer for engine support recommendations.

REFER TO ENGINE MANUFACTURER'S MANUAL IN OWNER'S PACKET FOR COMPLETE INSTRUCTIONS AND WARRANTY INFORMATION.

Bunk Trailer
Figure 2.27.1



- | | |
|--------------------------------|------------------------|
| 1 VEHICLE SAFETY CHAINS/CABLES | 9 GUIDEPOST |
| 2 TONGUE/BALL HITCH | 10 TAILLIGHT |
| 3 WINCH STAND/ASSEMBLY | 11 BUNK STYLE ASSEMBLY |
| 4 SPARE TIRE | 12 AXLE (S) |
| 5 CABLE ROLLER | 13 RADIAL TIRES |
| 6 WINCH HOOK/CABLE | 14 TRAILER FRAME |
| 7 BOW EYE SAFETY CHAIN | 15 TONGUE JACK |
| 8 FENDER WITH STEP | |

NOTE: Trailer shown represents typical trailer construction and is not specific to this model.

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Bilge Pumps

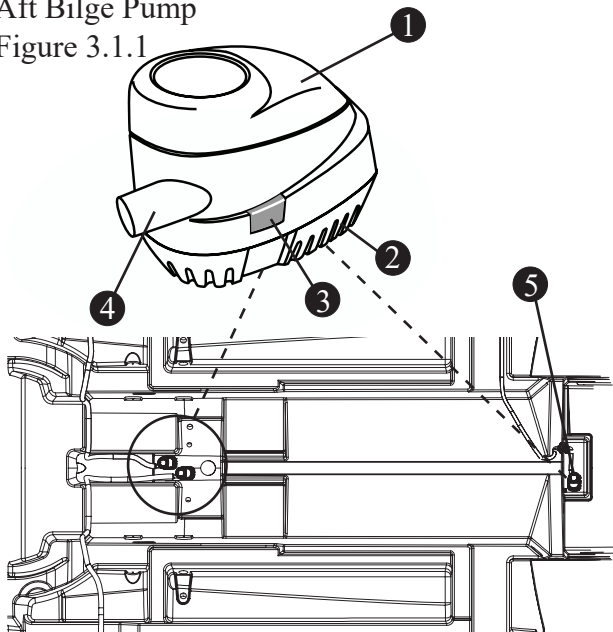
The 280 Outrage is equipped with two bilge pumps. The forward pump is rated at 750 GPH (2,839 LPH) and located in the aft floor of the console and can be accessed by lifting the grate in the floor.

The aft pump is rated at 1,100 GPH (4,164 LPH). The aft pump is located in the bilge and can be accessed by lifting the floor hatch in the aft cockpit. Each pump is activated automatically by a mercury free float switch when the water in the bilge reaches a predetermined level.

If equipped there is an auxiliary pump rated at 1,100 GPH (4,164 LPH) located in the bilge along with the aft pump.

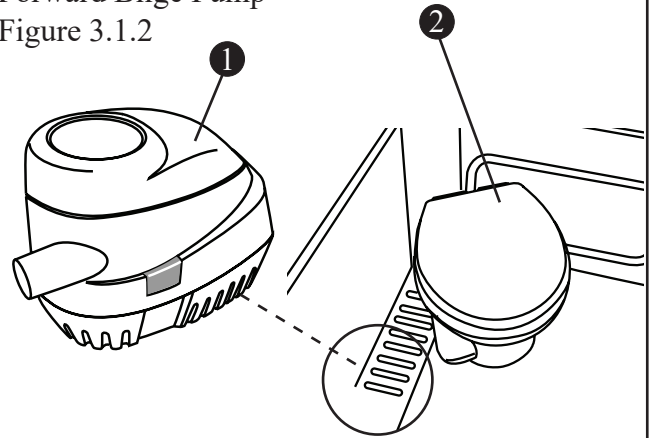
Switches on the console switch panel labeled *FWD BILGE*, *AFT BILGE* & *AUX BILGE* control the operation of the pumps. The switches should remain in the AUTO position while in use, unless the operator wishes to manually operate the pumps by depressing the switch to the ON position. For more information about the switches refer to *Chapter 2, General Information*.

Aft Bilge Pump
Figure 3.1.1



- ① AFT BILGE PUMP (1,100 GPH/4164 LPH)
- ② WATER INLET
- ③ LOCKING TABS
- ④ DISCHARGE
- ⑤ FORWARD BILGE PUMP (1,100 GPH/4164 LPH)

Forward Bilge Pump
Figure 3.1.2



- ① FORWARD BILGE PUMP (750 GPH/2,839 LPH)
- ② VACU-FLUSH TOILET

The bilge pumps discharge water overboard by way of thru-hull fittings.

Fuel & Oil Spillage

Regulations prohibit discharging fuel or oily waste in navigable waters. Discharge is defined as any action which causes a film, sheen or discoloration on the water surface, or causes a sludge or emulsion beneath the water surface. A common violation is bilge discharge. Violators are subject to severe penalties and may also be responsible for the cost of cleanup which may be substantial.

Use rags or sponges to soak up fuel or oily waste, then dispose of them properly ashore. If there is a large quantity of fuel or oil in the bilge, contact a knowledgeable marine service to remove it. **Never pump contaminated bilge discharge overboard.**

Maintenance

The aft pump can be accessed through the hatch in aft cockpit. Access the forward pump by lifting the grate in the aft floor of the console.

Frequently inspect the area under the float switches to ensure they are free from debris and gummy bilge oil. To clean, soak in heavy duty bilge cleaner for 10 minutes, agitating several times. Check for unrestricted operation of the float. Repeat the cleaning procedure if necessary.

NOTICE

The bilge pumps are wired directly to the battery. Therefore it is imperative that the float switch remain clear of debris to prevent continuous operation and subsequent discharge of the battery.

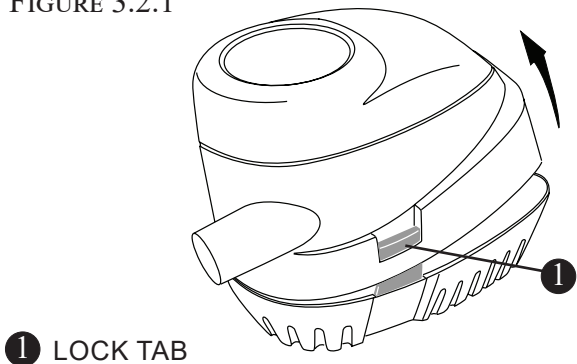
Inspect the bilge pump intakes and keep them free of dirt or material which may impede the flow of water through the pump.

To clean the pump strainer, depress the lock tabs on both sides of the pump and lift the pump motor (Figure 3.2.1).

If water does not come out of discharge hose:

1. Remove the motor module to see if the impeller rotates with the power on.
2. Remove any debris that may have accumulated in the nozzle section or strainer base.
3. Check hose and connection on hull side for debris and proper connections.

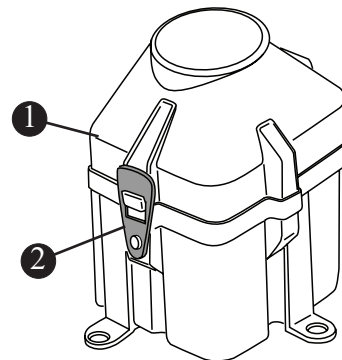
BILGE PUMP MAINTENANCE
FIGURE 3.2.1



Hydraulic Power Steering

The Verado® four-stroke engines on your boat incorporate hydraulic power steering by use of an enclosed hydraulic pump located in the aft bilge. The pump can be accessed through the aft cockpit floor hatch. The pump is electrically operated to provide hydraulic pressure to the steering system.

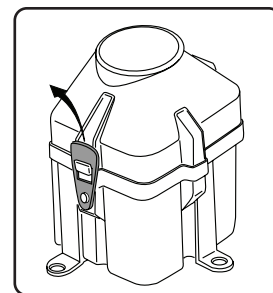
HYDRAULIC POWER STEERING PUMP
FIGURE 3.2.2



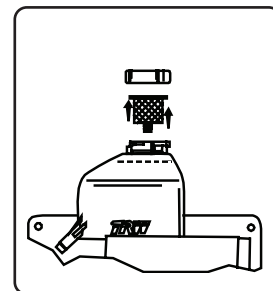
Filling & Maintenance

The system is virtually maintenance free, aside from regular fluid checks and visually inspecting the outside of the unit for signs of leaks or damage.

- Release cover by pulling the locking strap up and out.



- Unscrew cap and check the fluid level in the reservoir, fill if necessary using **SAE 0W-30 Full Synthetic Power Steering Fluid ONLY.**



- Replace cap and cover

Make it a habit of checking the fluid level before each trip.

REFER TO THE ENGINE MANUFACTURER'S MANUAL IN YOUR OWNER'S MANUAL PACKET FOR COMPLETE INSTRUCTIONS AND WARRANTY.

Fuel System

⚠ CAUTION

- Oil and fuel spills can be dangerous and can subject offenders to severe penalties
- Leaking fuel is a fire and explosion hazard, inspect the system regularly. Examine fuel tanks and exposed lines for leaks and corrosion.

This system has been designed to meet the EPA regulations using certified components to limit the fuel vapor emissions.

Your fuel system provides the following benefits:

- Automotive style refueling, automatic nozzle shut-off, fuel nozzle retention. This system sends a signal to the pump nozzle to shut off before there is any spit-back or well-back through the fill opening.
- Overfill protection is included with each system, reducing the possibility of accidental fuel spills.

⚠ CAUTION

Use of improper fuel can seriously damage your engine. Engine damage resulting from use of improper fuel is considered misuse of engine and will void the warranty. Follow engine manufacturer's recommendations regarding the types of fuel and oil to use.

NOTICE

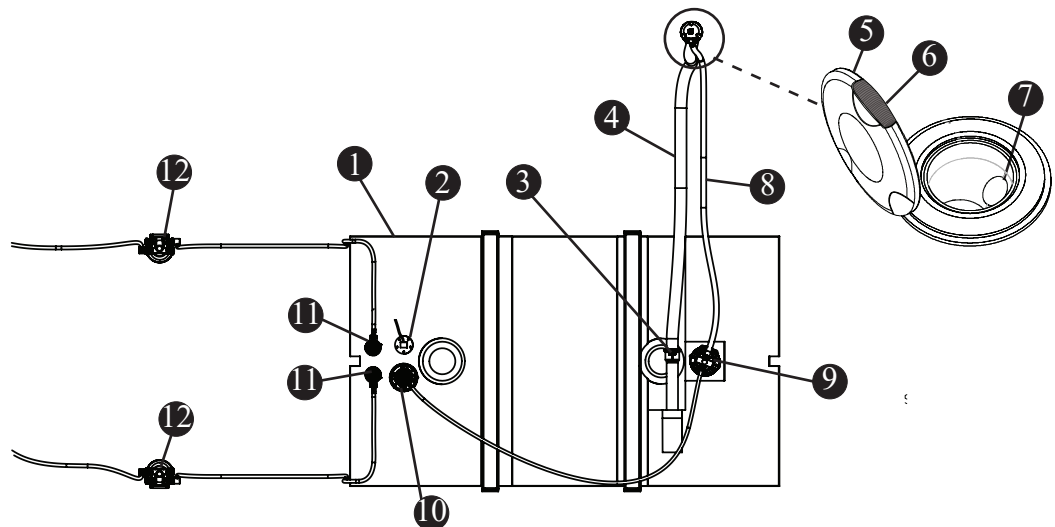
It is your responsibility to read and understand the engine manufacturer's manual in your owner's manual packet for complete fuel and fueling information and warnings.

- Reduce hydrocarbon emissions through the use of a specially designed fuel fill. This fuel fill has a permanently attached cap with a positive closure mechanism with an audible click, to let you know when it is sealed.

NOTICE

Fuel gauge only reads accurately when boat is level (not underway).

Fuel Tank
Figure 3.3.1



- | | |
|--|--------------------------------|
| ① 186 GAL (704 L) FUEL TANK | ⑦ INTEGRATED FUEL TANK VENT |
| ② FUEL TANK SENSOR | ⑧ FUEL VENT HOSE |
| ③ INTEGRATED CHECK VALVE (ICV) | ⑨ FILL LIMIT VENT VALVE (FLVV) |
| ④ FUEL FILL HOSE | ⑩ GRADE VALVE |
| ⑤ FUEL FILL DECK FITTING W/INTEGRATED VENT | ⑪ FUEL DEMAND VALVE (FDV) |
| ⑥ FUEL FILL PLATE RELEASE BUTTON | ⑫ FUEL/WATER SEPARATOR |

Fuel tank

Your boat is equipped with a low permeation crosslink Polyethylene fuel tank with a usable fuel capacity of 186 gallon (704 L). The usable capacity of the fuel tank is different from the tank capacity marked on the tank from the manufacturer. The difference is the non-usable portion of the tank which results from the fuel in the tank that is below the pickup tube and the ullage area that has been incorporated into your tank. It is recommended that you follow all instructions regarding the filling of fuel tanks. **Please take time to read and understand all the fuel related information and warnings regarding gasoline and your boat, in the engine owner's packet.**

Fuel tanks with levels less than 1/4 full can cause engine stalling problems due to fuel starvation or by allowing sediment and dirt to enter the fuel supply lines. Keep the tank full and monitor the fuel level often to prevent this from happening.

Fuel Vent

The fuel tank vent is integrated into the fuel fill deck fitting (See Figure 3.2.1). The VaporTec fuel pressure management system, (fuel fill deck fitting, integrated check valve, fill limit vent valve, grade valve), ensures that the fuel system constantly maintains proper vapor pressure in all situations. This eliminates any unintended pressure which can seriously damage a boat or engine. The vent serves as an over pressure/vacuum release with anti-surge and flame/spark arresting protection. The fuel vent system also plays an important role in controlling the "FULL" level of fuel with the use of the FLVV (Fill Limit Vent Valve). Grade Valves have been added to the tank which allows proper ventilation of the tank when the boat is stored, or trailered, on a moderate incline, without fuel seepage.

Filling The Tank

WARNING

The fuel system on this vessel complies with all applicable ABYC standards. Fueling station pump flow rates that exceed 18 gallons (68 liters) per minute may damage system components and cause fuel leakage into the vessel.

This fuel system is designed to automatically shut off the fuel nozzle when the tank is full, similar to an automotive fuel system. The tank is filled when the fuel fill nozzle has shut itself off the second time. The SecureStop automatic fuel shutoff system (Fuel Fill Deck Fitting, Integrated Check Valve, Fill Limit Vent Valve), guarantees the boater a clean trouble-free fill up. Details such as valve design and deck fill nozzle retention features ensure consistent fill up/shutoff. Attempting to fill the tank past this point may cause some of the components to not function properly, or malfunction.

The fuel is delivered from the tank to the engine through the Fuel Demand Valve (FDV), anti-siphon valve, and the fuel line. The FDV prevents the built up pressure inside the tank from being transferred to the engine while still allowing fuel to flow as the engine requires it for operation. The anti-siphon valve is a safety feature designed to prevent the fuel from siphoning out of the tank if the fuel line were to be cut or broken below the level of the fuel in the tank. In this case, some fuel would leak from the line, but would not allow the entire contents of the tank to siphon into the boat.

WARNING

The use of a portable fuel tank to fill your boat's tank can result in overfilling and circumvent the safety features designed into your tank.

WARNING

The modification of any of the fuel system components or the replacement of these components with unauthorized parts may result in over-pressurization of the fuel system and circumvent the safety features designed into your tank.

NOTICE

Keep records of the fuel capacity and consumption of your boat. Drastic changes in consumption and mileage may indicate a problem.

REFER TO THE ENGINE MANUFACTURER'S MANUAL IN YOUR OWNER'S MANUAL PACKET FOR COMPLETE INSTRUCTIONS AND WARRANTY.

Static Electricity

DANGER

- **Static electricity can ignite gasoline vapors causing serious injury, death and/or destruction of property.**
- **Check for leaks in tubing, connections and hoses. Avoid all forms of ignition when the odor of fuel is noticed.**

Correct the cause of the leaks and ventilate the area to insure that no fumes remain prior to energizing any electrical equipment, smoking and/or starting the engines.

There is a danger that static electricity can ignite gasoline vapors that have not been ventilated outside an enclosed area. Use extreme caution when fueling your boat from a source outside the regular venues, (e.g. marinas, fuel service stations).

Your boat's bonding system protects it from creating and discharging static electricity. Your boat must be in contact with the water or a land-based grounding system. The following suggestions will help keep you safe from static electricity while refueling your boat.

Your boat has safety features that can be circumvented by not adhering to standard fueling practices.

- **NEVER** fuel your boat in unsafe conditions such as suspended on a sling or in a situation that increases the likelihood of static discharge.
- **NEVER** use homemade containers to fill your fuel tanks.
- Fuel carried on-board outside of a fixed fuel system should be stored in an approved container or in a portable tank such as provided for outboard engines and be stowed safely outside of the engine or living compartment(s).
- Shut down the engines, motors and fans prior to taking on fuel. Any ignition sources should be extinguished before filling the fuel tank.

CAUTION

- **Oil and fuel spills can be dangerous and can subject offenders to severe penalties**
- **Leaking fuel is a fire and explosion hazard, inspect the system regularly. Examine fuel tanks and exposed lines for leaks and corrosion.**

- Close all ports, windows, doors and hatches.
- Fueling should never be done at night except in well-lighted areas.
- Always keep the fuel nozzle in contact with the fuel fill plate or the edge of the fuel tank opening throughout the filling process.
- Allow areas where gasoline vapors could collect to be ventilated before starting the engine.
- Wipe any spillage completely and dispose of rags or waste on shore.
- Secure the fill cap tightly.
- Portable tanks should only be filled while on shore, never on board the boat.

REFER TO YOUR OWNER'S MANUAL PACKET FOR MORE INFORMATION.

Ethanol-Blended Fuel

Ethanol is an oxygenated hydrocarbon compound that has a high octane rating and therefore is useful in increasing the octane level of unleaded gasoline.

The fuel-system components of your Mercury engine(s) have been tested to perform with the maximum level of ethanol-blended gasoline (10% ethanol) currently allowed by the EPA in the United States. Special precautions should be considered with the use of fuel containing ethanol in your system. Fuels with ethanol can attack some fuel-system components, such as tanks and lines, if they are not made from acceptable ethanol-compatible materials. This can lead to operational problems or safety issues such as clogged filters, leaks or engine damage.



CAUTION

The use of fuels containing ethanol higher than 10 percent (E-10) can damage your engine and/or fuel system and will void the warranty.

E85 FUELS COULD SERIOUSLY DAMAGE YOUR ENGINES AND MUST NEVER BE USED.

Your boat was manufactured, and shipped from the factory, with ethanol-compatible materials. Before introducing gasoline with ethanol into your fuel tank, ask your dealer if any components have been added or replaced that are not recommended by Boston Whaler, Mercury or may not be ethanol-compatible.

Filling the Tank

It is best to maintain a full tank of fuel when the engine is not in use. This will reduce air flow in and out of the tank due to changes in temperature as well as limiting exposure of the ethanol in the fuel to humidity and condensation.

Phase Separation

Humidity and condensation create water in your fuel tank which can adversely effect the ethanol blended fuel. A condition called phase separation can occur if water is drawn into the fuel beyond the saturation point. The presence of water in the fuel beyond the saturation level will cause most of the ethanol in the fuel to separate from the bulk fuel and drop to the bottom of the tank, significantly reducing the level of ethanol in the fuel mixture in the upper level (phase). If the lower level (phase), consisting of water and ethanol, is deep enough to reach the fuel inlet, it could be pumped directly to the engine(s) and cause significant problems. Engine problems can also result from the reduced ethanol/fuel mixture left in the upper phase of the tank.

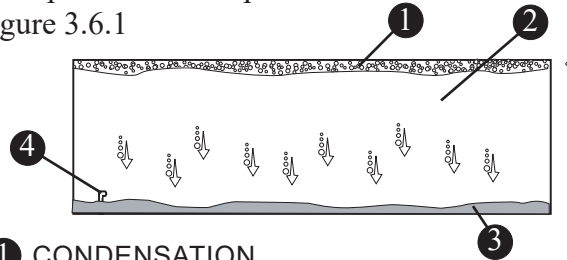
Additives

NOTICE

The use of improper gasoline or additives can damage your fuel system and is considered misuse of the system. Damaged caused by improper gasoline or additives WILL NOT be covered under warranty.

Example of Phase Separation

Figure 3.6.1



- 1 CONDENSATION
- 2 UPPER PHASE (WATER+FUEL+ETHANOL)
- 3 LOWER PHASE (WATER+ETHANOL)
- 4 FUEL INLET TO ENGINE

There is no practical additive known that can prevent or correct phase separation. The only solution is to keep water from accumulating in the tank.

If phase separation does occur, your only remedy is to drain the fuel, clean and dry the tank completely and refill with a fresh, dry load of fuel.

Fuel Filters

Mercury already provides the appropriate level of filtration to protect the engine from debris. The addition of another *in-line* filter to the system may create a possible flow restriction that can starve the engine(s) of fuel. It is advisable to carry extra *on-engine* filters in case filter plugging from debris in the fuel tank becomes a problem during boating.

Your Boston Whaler dealer will have recommendations regarding filters that meet Mercury's specifications.

Fuel/water Separator

The fuel/water separator has been determined to be within Mercury specifications and will not restrict the flow of adequate fuel to the engine(s).

Maintenance

Periodically inspect for the presence of water in the fuel tank. If any is found, all water must be removed and the tank completely dried before refilling the tank with any fuel containing ethanol.

Storage

Long periods of storage and/or non-use, common to boats, create unique problems. When preparing to store a boat for extended periods, of two months or more, it is best to completely remove all fuel from the tank. If it is not possible to remove the fuel,

maintaining a full tank of fuel with a fuel stabilizer added to provide fuel stability and corrosion protection is recommended.

- Add fuel stabilizer/treatment at manufacturers recommended dosage.
- Run engine(s) for 10 minutes.
- Shut OFF fuel valve. Allow engine to run until it stops.
- Top off fuel tank, leaving space for expansion. DO NOT fill to point of overflow.
- DO NOT cap the tank vent.

A partially full tank is not recommended because the void space above the fuel allows air movement that can bring in water through condensation as the air temperature moves up and down. This condensation could potentially become a problem.

REFER TO THE ENGINE MANUFACTURER'S MANUAL IN YOUR OWNER'S MANUAL PACKET FOR COMPLETE INSTRUCTIONS AND WARRANTY.

Gyroscopic Stabilizer (Option)

CAUTION

Operating gyroscopic stabilizer without raw water seacock open will damage the unit and void the warranty.

The gyroscopic stabilizer (GYRO), located inside the leaning post, reduces the rolling motion of the boat caused by waves, thus making it easier to move around the vessel. Stabilizing the boat also helps reduce the possibility of motion sickness.

The gyro is controlled from the helm display by tapping on the *Seakeeper* app (see Figure 3.7.1). If the helm display becomes disabled, a control pad on top of the gyro is located behind the access panel beneath the helm seat on the front of the leaning post (see Figure 3.8.1).

In order to get up to full operational speed and be ready to assist with boat stability, the gyro needs to go through a spooling up process. Boston Whaler recommends spooling be done at the dock while connected to shore power to extend gyro battery power for use away from the dock.

To start the gyro:

1. Ensure *BREAKER* located inside console lounge storage is on (see Figure 3.8.2).
2. Open *SEACOCK* located inside mechanical access hatch (see Figure 3.9.1).
3. Turn on *BATTERY SWITCH* located inside console lounge storage (see Figure 3.8.2)
4. On helm display, tap on Seakeeper app to access gyro controls and power on unit.

To shut down the gyro:

1. Turn off gyro from the helm display. Spool down time is between 2-8 hours, depending on model.
2. Turn off GYRO BATTERY SWITCH located inside console storage (see Figure 3.8.2)
3. Close SEACOCK located inside mechanical access hatch (see Figure 3.9.1).

REFER TO OWNER'S PACKET FOR COMPLETE INSTRUCTIONS AND WARRANTY INFORMATION.

WARNING

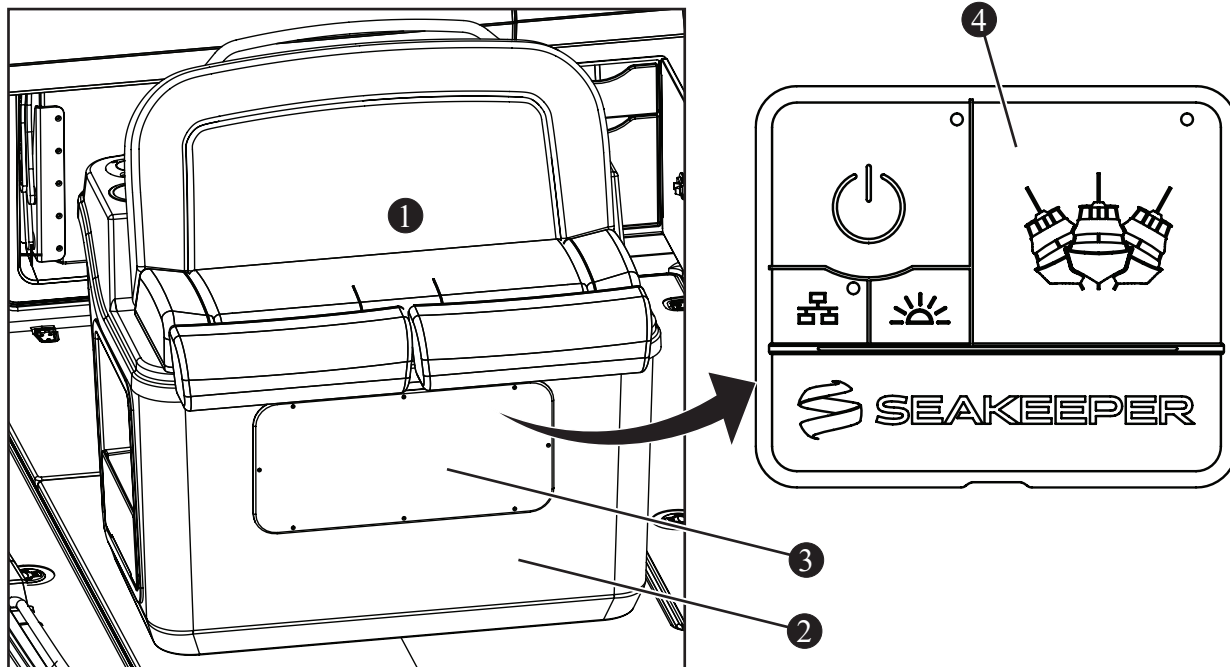
Gyroscopic stabilizer cover prevents personnel or equipment from contacting unit while in operation; keep covered. Do not step on or place anything on cover. If contact is necessary while unit's flywheel is spinning, lock control at remote display to stop gyroscopic stabilizer from precessing (tilting). Maintenance should not be attempted unless gyroscopic stabilizer is locked and the flywheel has stopped spinning.

Gyroscopic Stabilizer App (Option) Figure 3.7.1



Gyroscopic Stabilizer Control Pad (Option)

Figure 3.8.1



① HELM SEAT

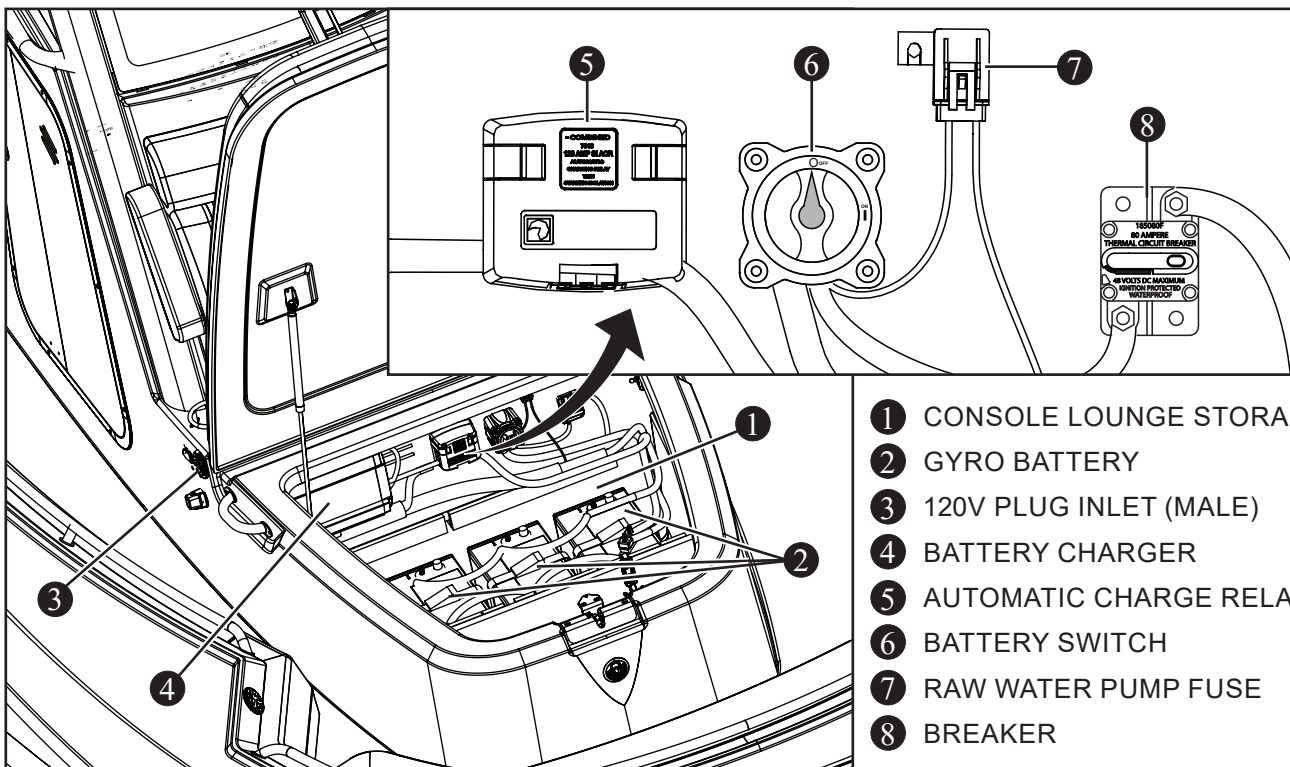
② LEANING POST

③ ACCESS PANEL

④ GYRO CONTROL PAD

Gyroscopic Stabilizer (Option)

Figure 3.8.2



① CONSOLE LOUNGE STORAGE

② GYRO BATTERY

③ 120V PLUG INLET (MALE)

④ BATTERY CHARGER

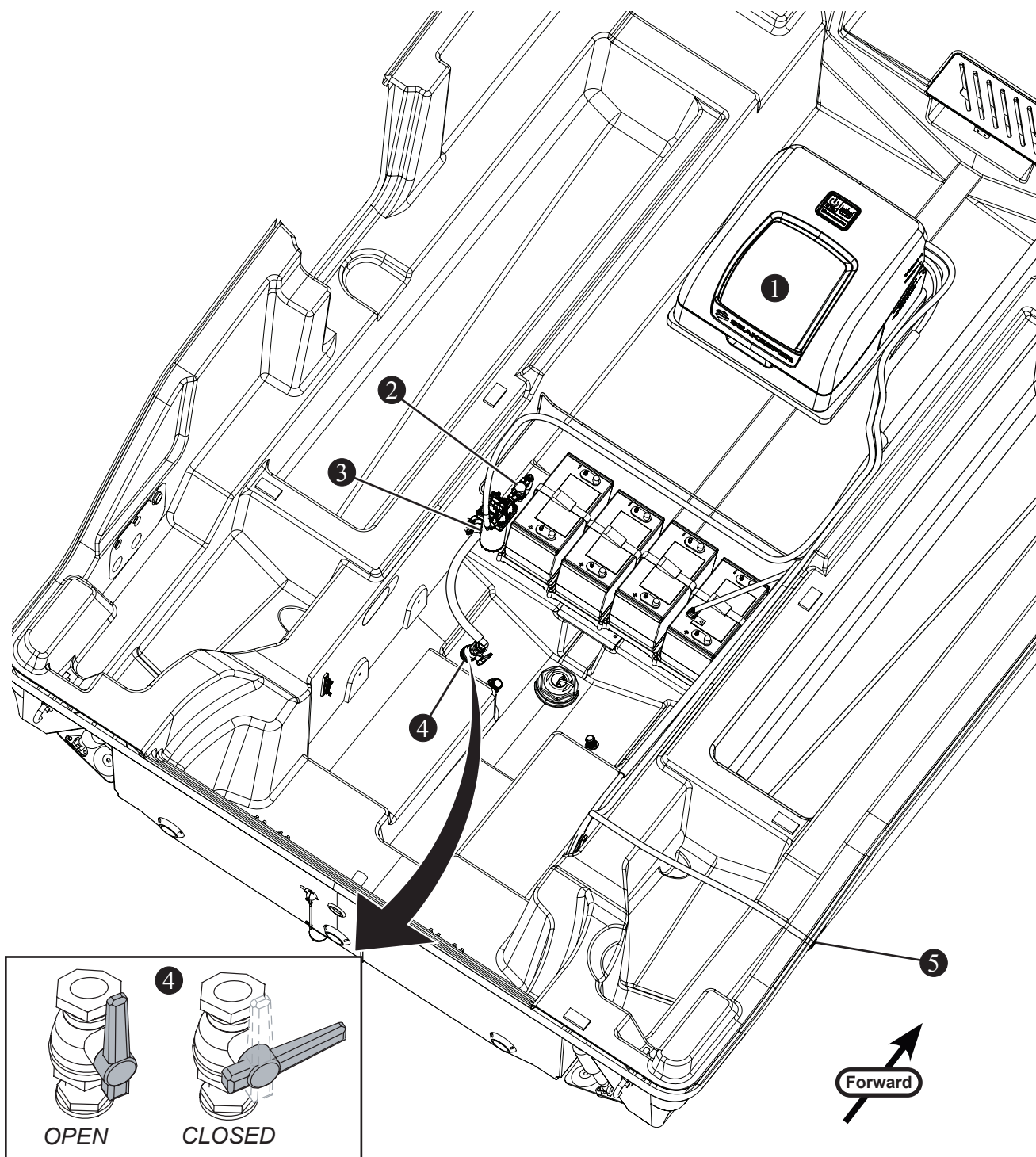
⑤ AUTOMATIC CHARGE RELAY

⑥ BATTERY SWITCH

⑦ RAW WATER PUMP FUSE

⑧ BREAKER

Gyroscopic Stabilizer (Option)
Figure 3.9.1



- ① GYROSCOPIC STABILIZER
- ② RAW WATER STRAINER
- ③ RAW WATER PUMP

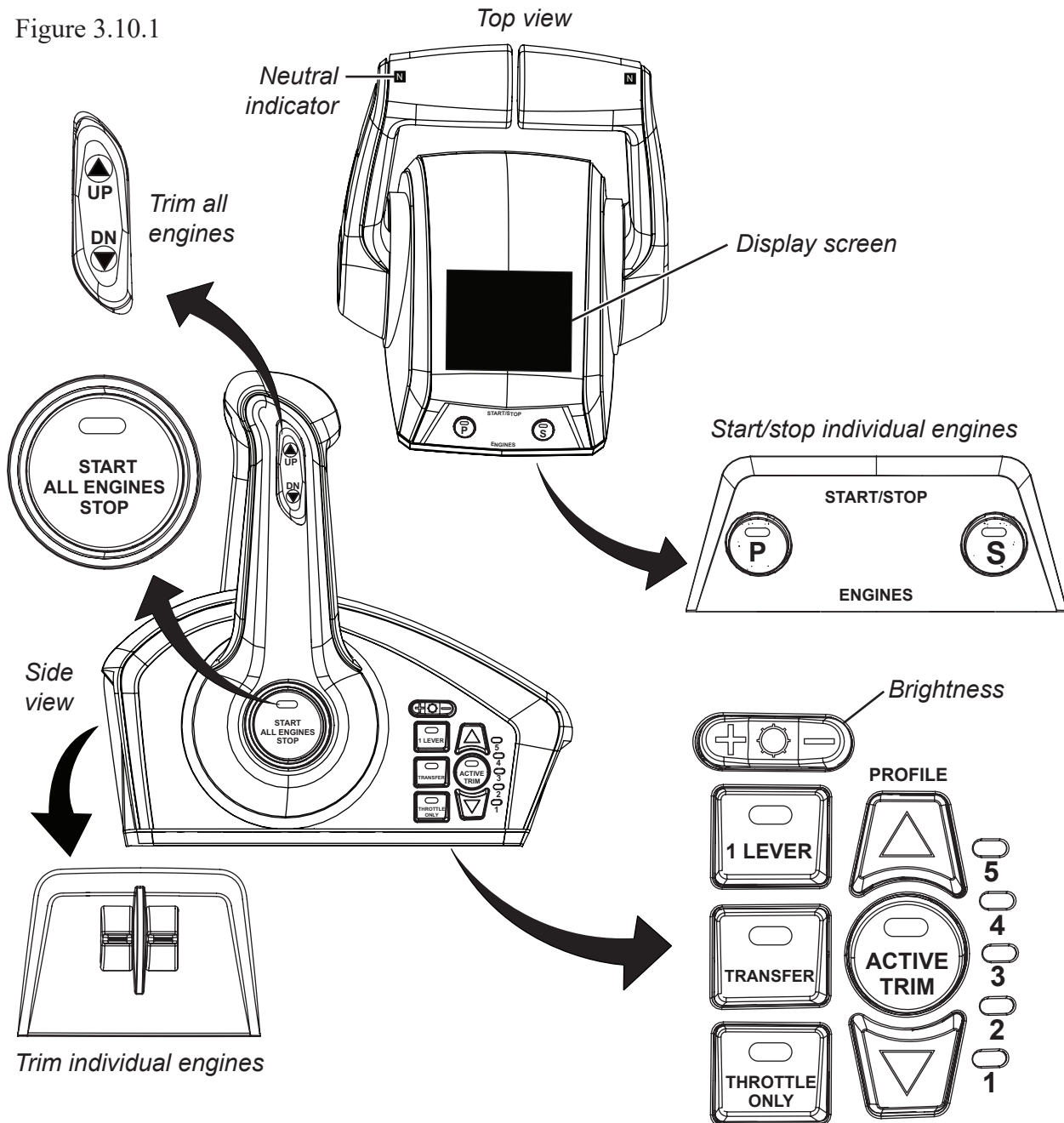
- ④ SEACOCK
- ⑤ THRU-HULL DRAIN

Throttle and Shift Control

The throttle and shift control is used to manage both the shifting mechanism and the throttle (see Figure 3.10.1). This control regulates engine RPMs, which controls the speed of the boat. Moving the levers forward shifts the engines into forward gear. Continuing to move the lever forward progressively increases the forward speed of the boat. Moving the lever backwards shifts the engines into reverse gear, and continuing to move the lever back progressively increases the reverse speed of the boat. The levers must be in the neutral position to start the engine(s). When in neutral, otherwise known as the idle position, the propeller is not engaged. A green neutral LED light is illuminated atop the gear shift and throttle control when in neutral.

Throttle and Shift Control

Figure 3.10.1



Buttons and Switches

Basic button/switch use on the gear shift and throttle control are detailed below (see Figure 3.10.1).

Neutral Indicator

Illuminates when engines are in neutral gear position.

Trim All Engines

Raises and lowers all engines.

Start All Engines Stop

Starts or stops all engines sequentially from port to starboard.

Start/Stop Individual Engines

Starts or stops an individual engine.

Display Screen (Optional)

Shows pop-ups for advanced features as well as system information and faults.

Trim Individual Engines

Raises and lowers individual engines.

Brightness

Increases and decreases brightness on control unit.

1 Lever

Enables gear shift and throttle control functions of all engines to be controlled by the port lever.

Transfer

Transfer boat control to a different helm.

Throttle Only

Increase engine RPMs without shifting into gear.

Active Trim

Turns the Active Trim feature on or off.

Profile

Changes the selected Active Trim profile.

REFER TO ENGINE MANUFACTURER'S MANUAL IN OWNER'S PACKET FOR COMPLETE INSTRUCTIONS AND WARRANTY INFORMATION.

Engine Start-up Procedure

NOTICE

To prevent damage to water pump or engine overheating, never start or operate engine(s) (even momentarily) without water circulating through cooling water intakes in the gear case.

1. Turn on remote engine battery switches on panel located on aft wall STBD gunwale (see Figure 3.12.1).
2. Ensure the lower unit of the engines are in the water.
3. If equipped with 1st Mate safety and security system, please refer to chapter 1, *Safety*, for more information.
4. On gear shift and throttle control, ensure throttle and shift levers are in the neutral position.
5. Insert one end of safety lanyard into engine emergency stop switch and check to ensure it's in the *run* position.
6. Attach opposite end of lanyard to self (operator).
7. Insert ignition keys and rotate to the *ON* position (see Figure 3.12.2).
8. On gear shift and throttle control, press *START ALL ENGINES STOP* button.

ATTENTION

Shift controls into neutral before starting engine. Shift only when engine is at idle. Reversing at high speeds can cause flooding/swamping due to water being pushed over the transom.

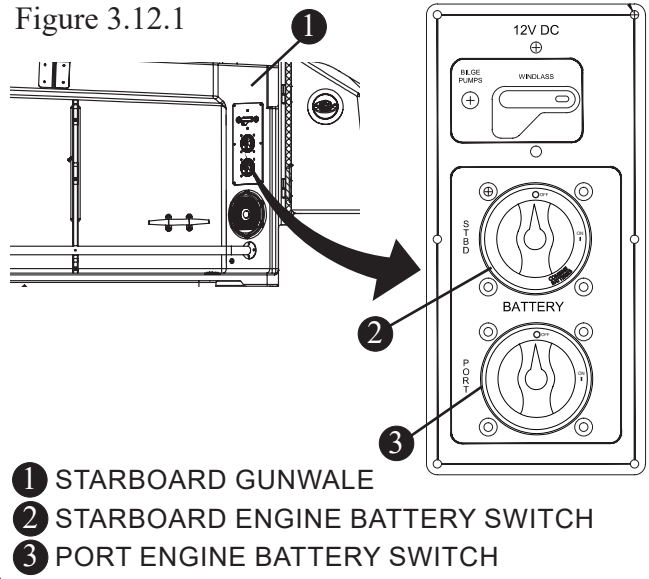
ATTENTION

Wind and sea currents can change how this vessel responds while in motion. Understanding this vessel and its reactions at speed will make boating safer and more enjoyable.

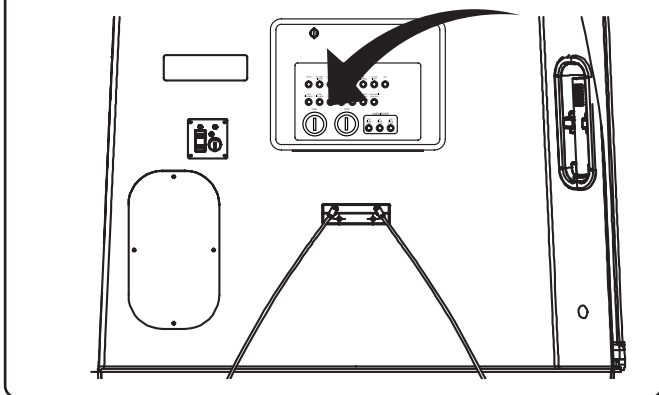
ATTENTION

Ensure continuous visibility of other boats, swimmers and obstacles during bow-up transition to planing. Adjust engine to an intermediate trim as soon as boat is on plane to avoid possible ejection due to boat spinout. Do not attempt to turn boat when the engine is trimmed extremely down, under or in.

Remote Battery Switches
Figure 3.12.1



Master Ignition Switches
Figure 3.12.2



Engine Warm Up

The *THROTTLE ONLY* button on the gear shift and throttle control (see Figure 3.10.1) allows the operator to increase engine RPMs for warm-up without being in gear. To operate:

1. Ensure gear shift and throttle control levers are in neutral.
2. Press and hold *THROTTLE ONLY* button while moving port gear shift and throttle control lever forward.
3. Hold in *THROTTLE ONLY* button until horn sounds twice and neutral lights start flashing. Flashing lights indicate *THROTTLE ONLY* program is engaged.
4. Advance port gear shift and throttle control

lever to increase engine RPMs; RPMs are limited to prevent engine damage.

5. To disengage *THROTTLE ONLY*, return port throttle and shift lever back to neutral position.

Engine Shutdown

1. Ensure throttle and shift levers are in neutral (see Figure 3.10.1).
2. Press *START ALL ENGINES STOP* button.
3. Turn ignition key switches off.
4. Turn off remote battery switches.

NOTICE

Never turn battery switch to off position while engine is running as equipment damage will occur.

Freshwater System

NOTICE

- **Be sure to fill the water tank from a source known to provide safe, pure drinking water.**
- **If you do not use the freshwater system for long periods of time or only use it seasonally it is recommended that you disinfect the system before using it.**

The freshwater system on your boat includes a 26 Gal.(98.4 L) freshwater tank, pump, and plumbing connections for water service to the leaning post faucet, bow wash down, and transom shower.

Filling the Tank

The water tank can be filled through the water fill inlet located on the transom. Fill the tank only from a source known to provide safe, pure drinking water. Use only a plastic hose to fill the water tank. Using a rubber hose can give the water a disagreeable taste.

The hose should be dedicated to filling use only and should be stored in a clean, dry place. It is a good practice to cover the ends of the hose to ensure the inside stays clean.

Disinfecting the Tank

Before you fill the freshwater system it is vital that it be properly disinfected. Ask your dealer if this has been done.

The following procedure is recommended to disinfect the freshwater system:

1. Flush the entire system thoroughly by allowing potable water to flow through it.
2. Drain the system completely.
3. Fill the entire system with an approved disinfecting solution (check with your dealer for recommendations) and follow the method prescribed by the manufacturer.
4. After disinfecting, drain the entire system.
5. Flush the entire system thoroughly several more times with potable water.
6. Now the system is ready for use, fill with fresh potable water.

This should be done annually or before using the system if it has been laid up for an extended period of time.

Freshwater Pump

The freshwater pump draws water from the water tank and provides pressure to the entire system.

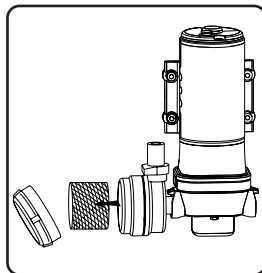
To energize the system, depress the “FRESHWATER PUMP” switch located on the helm switch panel.

Maintenance

Maintenance of the freshwater system will require you to check the fittings and hoses for system integrity to prevent leaks.

Periodically check the in-line strainer attached to the freshwater pump, and clean if necessary.

The system should be run at least every other month to maintain the pump's impellers in a stable operating condition.

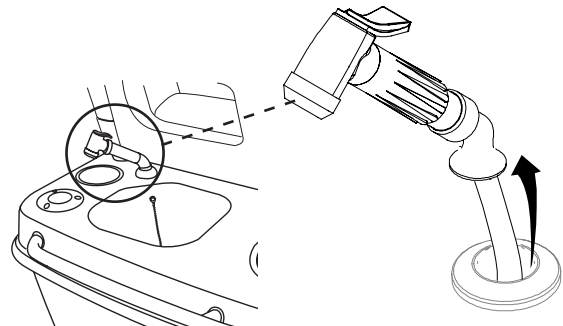


The freshwater pump can be accessed through the aft cockpit deck hatch.

Leaning Post Faucet

Your boat features a bait prep station located directly behind the helm seating. The integral swivel faucet is pressurized by the freshwater pump which provides cold running water to the station. The faucet is attached to a hose which can be extended approximately 6 ft. (1.82 m).

Leaning Post Faucet
Figure 3.13.1

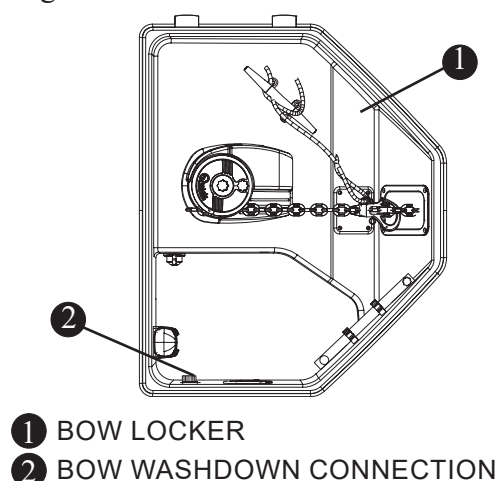


Freshwater Washdown

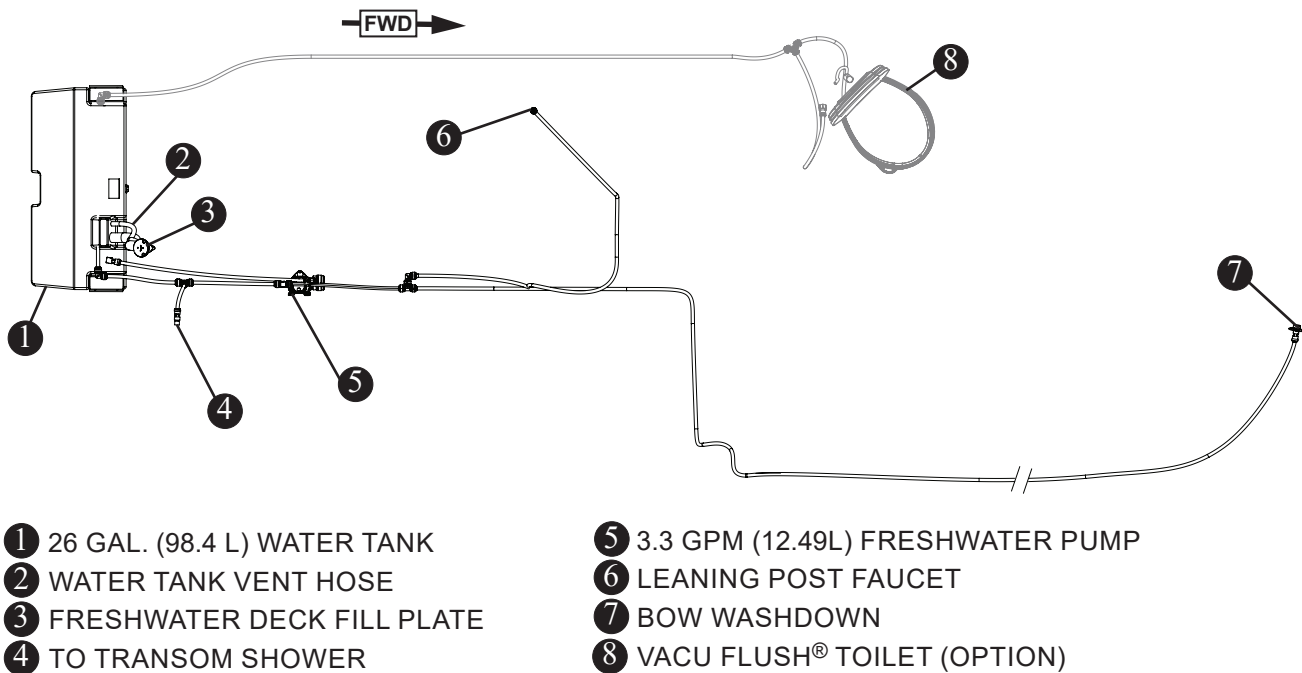
The freshwater washdown bow connection is located inside the bow locker on the outboard wall.

The fittings allow for the connection of a common garden hose. There is a cap that is tethered to the fitting and should remain on the connection when not in use.

Freshwater Washdown
Figure 3.13.2



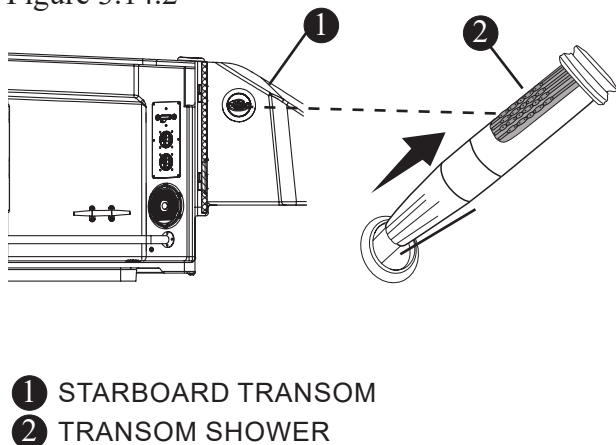
Freshwater System
Figure 3.14.1



Transom Shower

The transom shower is located on the starboard transom. The shower hose extends approximately 6 ft. (1.82 m) and is fitted with a spray head.

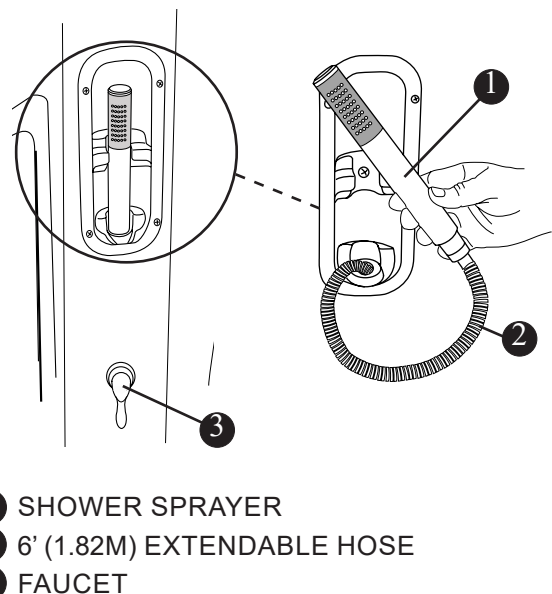
Transom Shower Unit
Figure 3.14.2



Console Shower (Option)

The console shower is located on the port wall of the console interior. The shower is pressurized by the freshwater pump. The spray head is attached to a hose which can be extended approximately 6 ft. (1.82 m) and is activated by a faucet handle below the unit.

Console Shower (Option)
Figure 3.14.3



Raw Water System

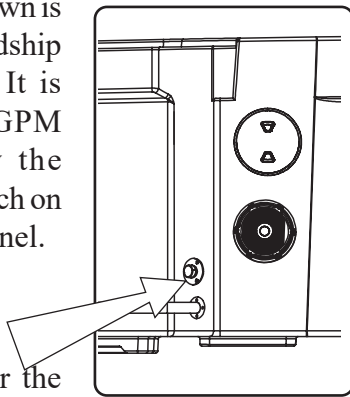
The raw water system on your boat includes a 30 Gal.(113.5 L) livewell, intake seacock, pump, and plumbing connections for water service to the livewell, and raw water washdown connection.

Operation

Before operating the system make certain the hull seacock and livewell valve are in the open position. The hull seacock can be accessed through the aft cockpit deck hatch.

Raw Water Washdown

The raw water washdown is located on the port midship below the gunwale. It is supplied by a 3.5 GPM pump activated by the “WASHDOWN” switch on the console switch panel.



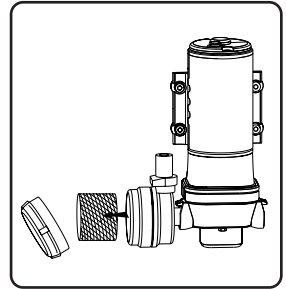
The fitting allows for the connection of a common garden hose. There is a cap that is tethered to the fitting and should remain on the connection when not in use.

Maintenance

Maintenance of the raw water system will require you to check the fittings and hoses for system integrity to prevent leaks.

Periodically check the in-line strainer attached to the pump, and clean if necessary.

The system should be run at least every other month to maintain the pump's impellers in a stable operating condition.

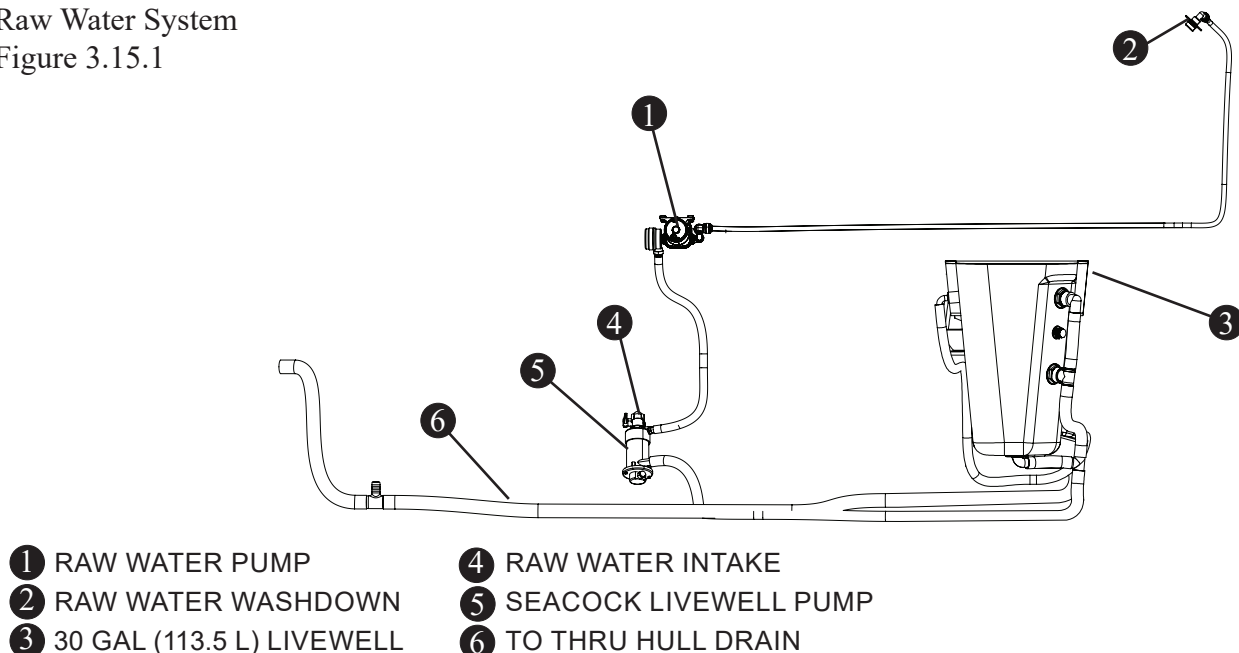


The raw water pump can be accessed through the aft cockpit deck hatch.

ATTENTION

The seacock **MUST** be in the **OPEN** position when washdown is in use. Running the pump dry may damage the unit.

Raw Water System
Figure 3.15.1



- | | |
|-----------------------------|-------------------------|
| ① RAW WATER PUMP | ④ RAW WATER INTAKE |
| ② RAW WATER WASHDOWN | ⑤ SEACOCK LIVEWELL PUMP |
| ③ 30 GAL (113.5 L) LIVEWELL | ⑥ TO THRU HULL DRAIN |

Livewell

Your boat is equipped with a 30 gal. (113.5 L) livewell. Located on the starboard side of the leaning post, the livewell keeps bait fish alive by circulating fresh seawater through the tank.

Operation

ATTENTION

The seacock MUST be in the OPEN position when livewell is in use. Running the pump dry may damage the unit.

The Full Fill livewell has been designed to provide a stable environment to reduce fatigue on your bait fish.

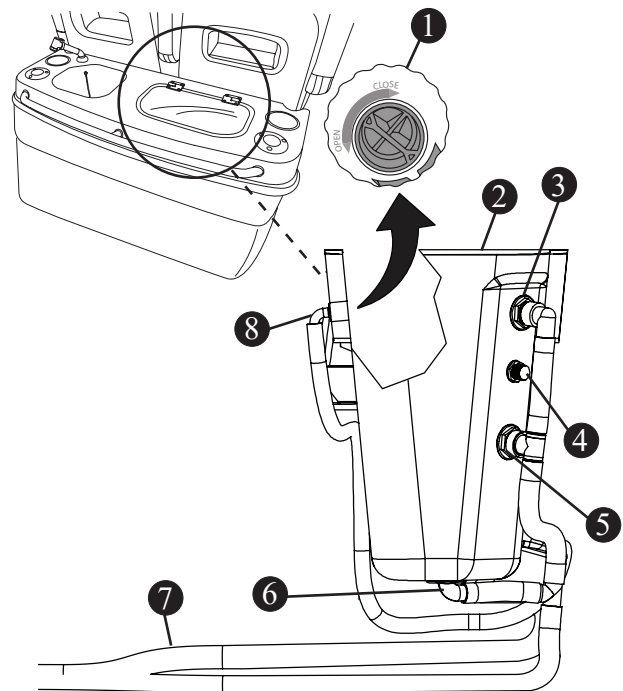
Insert a drain plug (supplied) into the mid overflow drain and fill the livewell completely. The upper overflow drain will allow the water to rise to just below the lid before starting to drain. Maintaining this water level enhances the stability of the water in the tank and reduces stress on the bait resulting in a more active and longer lasting product.

Before operating the system make certain the hull seacock and flow control valve are in the open position. The hull seacock can be accessed through the aft cockpit deck hatch. The flow control valve is located at the raw water fill inlet. The valve lets you adjust the flow of water into the livewell tank by rotating the valve to “OPEN” or “CLOSE” (Figure 3.16.1).

Fill the livewell by pressing the switch marked “L/P L/W” on the console switch panel. A drain tube with strainer connects to the livewell overflow drains and will direct overflow/excess water to the transom thru-hull drain.

You can regulate the amount of water in the livewell by inserting the second drain plug (supplied) into the lower overflow drain thus raising the level of water to the upper overflow drain. Filling the livewell to the upper drain enhances the stability of the water in the tank and reduces stress on the bait resulting in a more active and longer lasting product.

Livewell
Figure 3.16.1



- 1 FLOW CONTROL VALVE
- 2 30 GAL. (113.5 L) LIVEWELL
- 3 UPPER DRAIN
- 4 WHITE LED LIGHT
- 5 LOWER DRAIN
- 6 BOTTOM DRAIN
- 7 TO THRU HULL DRAIN
- 8 RAW WATER FILL HOSE

Maintenance

Maintenance of the livewell system requires periodic inspection of the raw water intake strainer and all hose connections. Clean away debris and/or tighten hose connections as required.

Fish Box with Pump Out Discharge

The 280 Outrage has two (2) deep well fish boxes. One each located port and starboard in the aft cockpit

The fishboxes utilize an electrical pump system for each box to discharge water overboard by way of thru-hull fittings port and starboard. In addition, there is a bottom drain with a plug in the port and starboard compartments.

The discharge pumps for the aft fishboxes are located aft of the compartments on the port and starboard and can be accessed through the hatch in the aft cockpit deck.

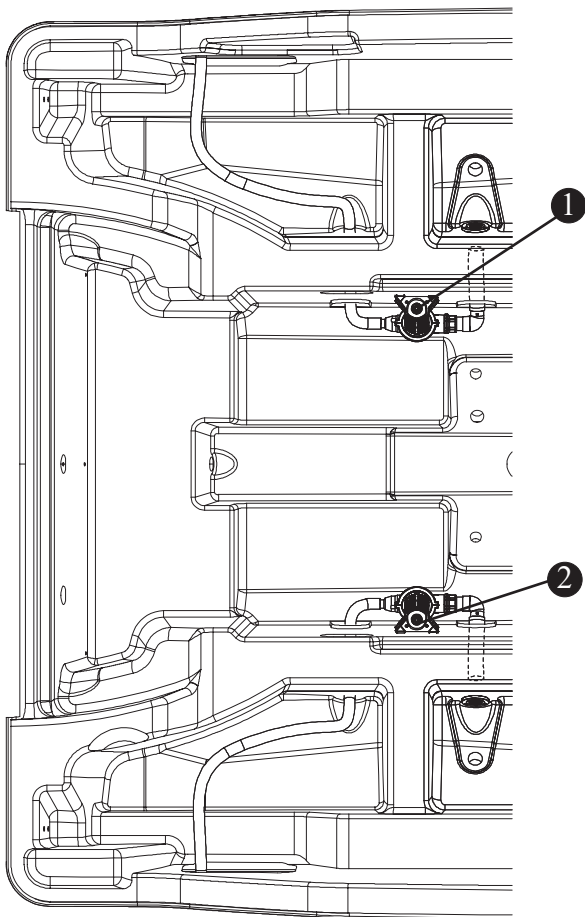
The pumps are independently activated by switches on the console switch panel and are protected by breakers located on the battery switch panel, *See Chapter 4 Electrical.*

Check these breakers first and reset if a problem arises with the pumps failing to activate when the switches are depressed.

WARNING

The fishbox drain plugs MUST be installed before putting your boat into the water

Fish Boxes
Figure 3.17.1



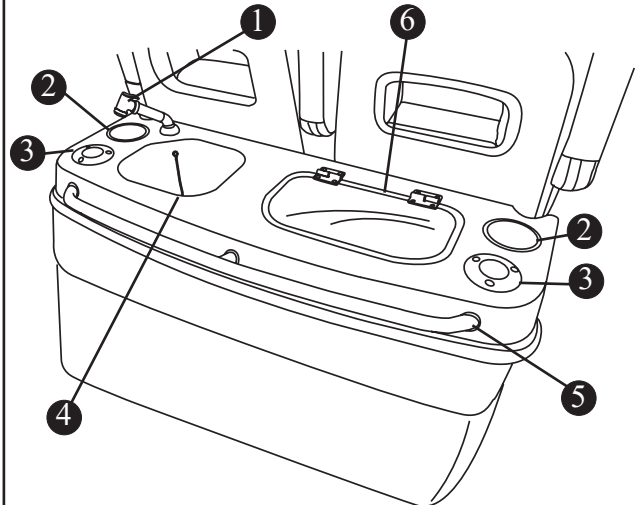
- ① PORT FISHBOX DISCHARGE PUMP
- ② STARBOARD FISHBOX DISCHARGE PUMP

Prep Station

Your boat features a bait prep station located directly behind the helm seating in the leaning post.

The integral faucet is pressurized by the freshwater pump which provides cold running water to the station.

Prep Station
Figure 3.17.2



- ① FAUCET W/EXTENDABLE HOSE
- ② CUP HOLDER
- ③ ROD HOLDER
- ④ SINK
- ⑤ GRAB RAIL
- ⑥ 30 GAL (113.5 L) LIVEWELL

Head System

Environmental Considerations

The Environmental Protection Agency (EPA) standards state that in freshwater lakes, reservoirs, impoundments whose inlets or outlets are such as to prevent the ingress or egress by vessel traffic subject to this regulation, or in rivers not capable of navigation by interstate traffic subject to this regulation, marine sanitation certified by the United States Coast Guard (U.S.C.G.) installed on vessels shall be designed and operated to prevent the overboard discharge of sewage, treated or untreated or any other waste derived from sewage.

The EPA standards further state that this shall not be construed to prohibit the carriage of Coast Guard certified flow through treatment devices which have been secured so as to prevent such discharges. They also state that the waters where a Coast Guard certified marine sanitation device permitting discharge is allowed include: Coastal waters, Estuaries, The Great Lakes and Intercoastal waterways, Freshwater lakes and Impoundments accessible through locks and other flowing waters that are navigable interstate by vessels subject to this regulation. (40 CFR, 140.3)

NOTICE

This boat is equipped with an overboard discharge seacock.

Severe state and federal penalties are levied for discharging raw sewage and solid waste in waters where it is not permitted.

Demonstrating that you have disabled the macerator by locking the system and/or removing the seacock handle may avoid a fine.

It is also illegal for any vessel to dump plastic trash anywhere in the ocean or navigable waters of the United States.

Portable Head with Pump-Out

The 280 Outrage waste system provides for dockside pumpout from the 6.5 gal (24.6 L) waste tank located in the aft of the bilge.

In addition, there is a portable waste containment system (Figure 3.18.1) located in the console. The unit has a lower tank and an upper tank. The upper tank holds freshwater used for flushing the system. The lower tank has a waste containment capacity of 5.2 Gal. (19.7 L).

Dockside Discharge

NOTICE

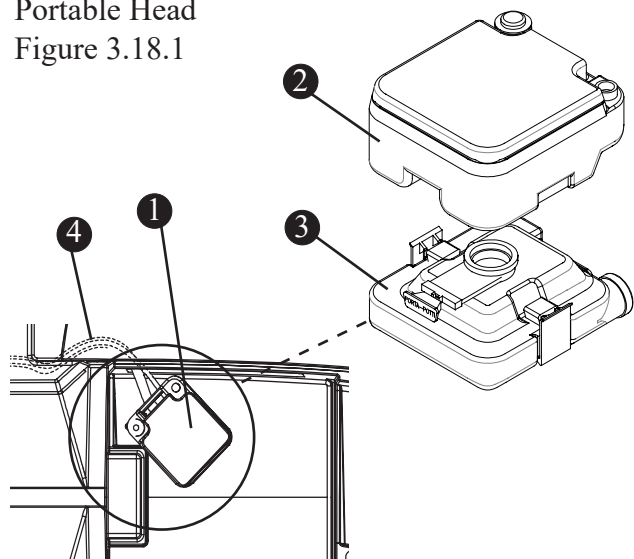
Dockside discharge is the preferred method of waste disposal.

The dockside discharge deck plate is located on the transom and is marked, *WASTE*. Access is gained by use of a special key that is included in the owner's manual packet.

The dockside facility will have a connection to fit your boat.

REFER TO THE MANUFACTURER'S MANUAL IN YOUR OWNER'S MANUAL PACKET FOR COMPLETE INSTRUCTIONS AND WARRANTY.

Portable Head
Figure 3.18.1



- ① PORTABLE HEAD
- ② UPPER UNIT (FRESHWATER TANK)
- ③ 5.2 GAL. (19.7 L) CAPACITY LOWER UNIT
- ④ TO 6.5 GAL (24.6 L) WASTE TANK

Vacu-Flush System (Option)

If equipped, the optional head system includes a Vacu-Flush toilet, macerator, lockable discharge seacock, dockside pump-out connection and a thru-hull vent.

The macerator/discharge pump draws solid and liquid waste from the holding tank and processes it prior to discharging it overboard through the macerator seacock located in the aft bilge. The macerator is designed to handle waste, toilet and facial tissue and will not pump solids. The key necessary to actuate the overboard discharge unit can be found in your owner's manual packet.

NOTICE

Because your waste system is a "low water" use system, there is special paper which **MUST be used to prevent clogs. The manufacturer has provided information regarding the type of paper that must be used.**

NEVER use residential tissue paper in your marine waste system.



WARNING

The discharge seacock should always be in the closed position when the toilet is not in use. Failure to do so could result in flooding, property damage and/or loss of life.

Macerator/Overboard Discharge

Macerator Operation

The macerator control panel is located on the aft wall of the head compartment. If the "FULL" light is on you must empty the holding tank before the system will function properly.

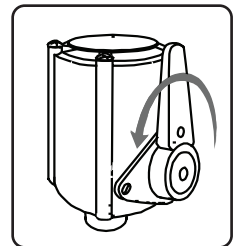
To Operate the Macerator:

- Make sure the discharge seacock is in the open position.
- Insert the macerator key, which is included in your owners manual packet, into the panel.
- De-energize the vacuum pump by depressing the push button/switch. The button should be extended.
- Depress the lever on the toilet to deplete the vacuum.
- Turn the key clockwise and hold it there. The key switch is a momentary type, which means that it needs to be held during the discharge cycle. Turning the key switch clockwise will discharge the contents of the holding tank through the macerator pump, which processes it before evacuating it overboard.
- When you are satisfied that the tank has been emptied, return the key to the upright position.
- Energize the system by depressing the push button/switch. The button will remain depressed.
- The system is now ready for normal operation.

There are bodies of water where discharge of raw sewage is prohibited. Keep seacock lock engaged when in waters where discharge is not permitted.

Contact your dealer or local Coast Guard station for information on overboard discharge in your area and its penalties. Demonstrating that you have disabled the macerator by locking the system and/or removing the seacock handle may avoid a fine.

To lock the discharge seacock; rotate the handle until the hole in the handle is aligned with the hole in the locking plate and insert a padlock (not supplied).

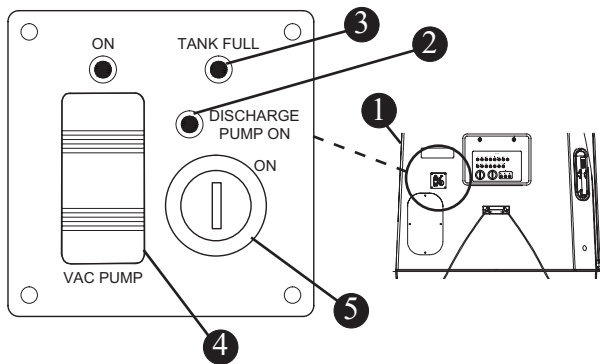


Maintenance

After long periods of non-use, the macerator pump may not turn freely. Regular use of the system will reduce the chances of this occurring. If the system does require maintenance contact your nearest dealer.

Because your waste system is a low water use device, there is special paper which must be used to prevent clogs.

Macerator Control Panel
Figure 3.20.1



- ❶ AFT WALL OF CONSOLE
- ❷ DISCHARGE PUMP INDICATOR
- ❸ FLUID LEVEL INDICATOR LIGHT
- ❹ VACUUM PUMP SWITCH
- ❺ VACUUM PUMP KEY SWITCH

NOTICE

NEVER use residential tissue paper in your marine waste system.

NOTICE

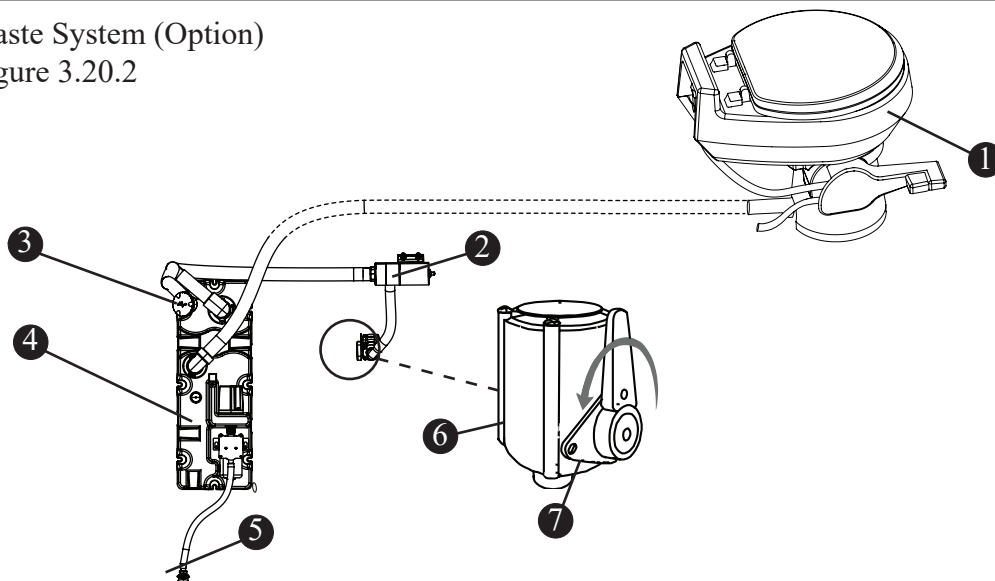
It is important that you close your macerator discharge seacock prior to using the dockside discharge function.

NOTE: Prior to using **either** method of discharging sewage:

- De-energize the vacuum pump by depressing the push button/switch.
- Depress the lever on the toilet to deplete the vacuum.
- After completion of the discharge, energize the vacuum pump by returning the switch or button to its normal position.

REFER TO THE MANUFACTURER'S MANUAL IN YOUR OWNER'S MANUAL PACKET FOR COMPLETE INSTRUCTIONS AND WARRANTY.

Waste System (Option)
Figure 3.20.2



- ❶ TOILET
- ❷ MACERATOR PUMP
- ❸ "WASTE" PUMPOUT DECK PLATE
- ❹ 6.5 GAL. (24.6 L) HOLDING TANK
- ❺ THRU-HULL VENT
- ❻ LOCKABLE DISCHARGE SEACOCK
- ❼ LOCKING PLATE

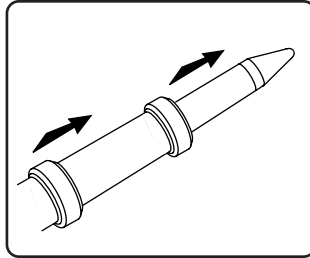
Radial Outriggers (Option)

If equipped, there are two (2) radial outriggers. One each located on the port and starboard side of the hardtop. The outriggers are adjustable to provide ease of operation and convenient ready-to-use storage.

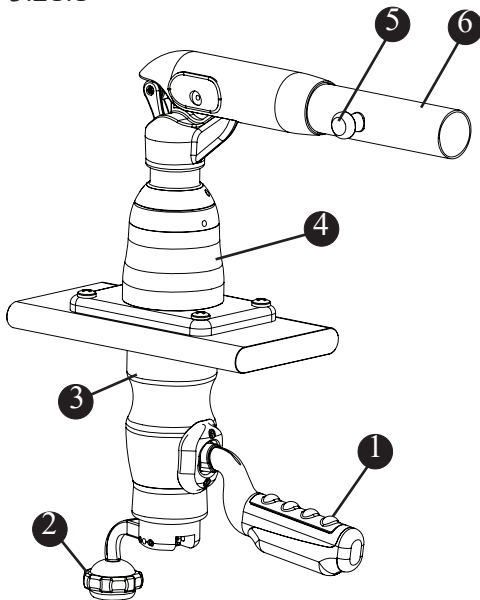
Operation

Extending Outriggers:

Starting with the outboard section, extend each section out until the locking button snaps into place.



Radial Outriggers (Option)
Figure 3.21.1

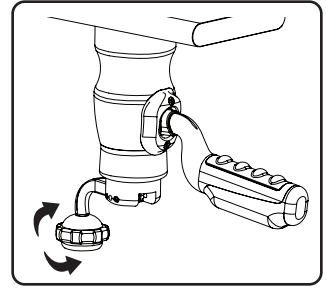


- ① ROTATION ADJUSTMENT HANDLES
- ② POWER CRANK HANDLE
- ③ LOWER UNIT
- ④ UPPER UNIT
- ⑤ SHAFT LOCK
- ⑥ EXTENDABLE SHAFT

To position the outriggers:

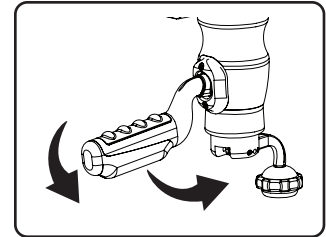
Raising or lowering:

Extend the power crank handle out and lock into place. To raise, turn handle clockwise. To lower, turn handle counterclockwise.



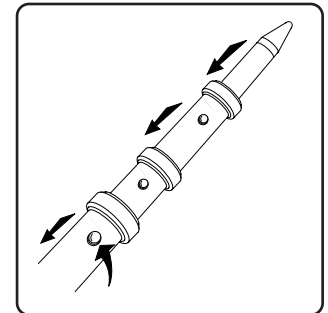
Rotating Outriggers:

Pull down on the lower unit handle and rotate to the desired position. When released the handle will hold the outrigger shaft into position.



Retrieving Outriggers:

Starting with the inboard most section, Push in the locking button on each succeeding section and insert sections into the shaft until all sections are completely seated in the stowed position.



Maintenance

When at port, extend the outriggers and clean with a mild, non-abrasive soap and freshwater, wipe with a dry cloth and allow to air dry. When dry, collapse the outriggers to the stowed position. Periodically lightly lubricate the cam and the shaft of the cam knob.

Entertainment System

Stereo

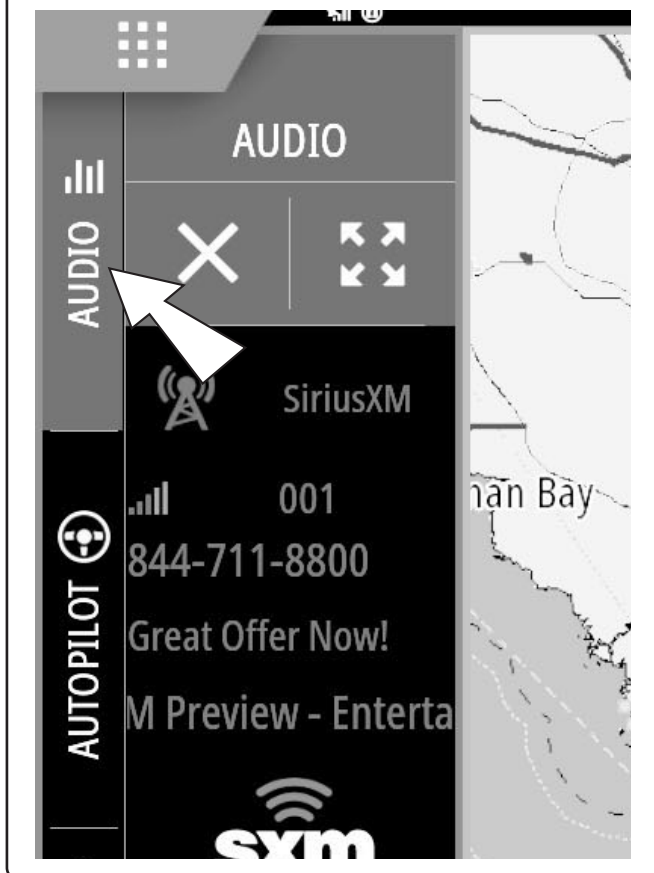
The AM/FM stereo is satellite radio ready, iPhone and Android phone compatible. The system is bluetooth compatible and consists of an AM/FM stereo, four waterproof speakers, and a USB input located inside the lockable console storage. The stereo system is automatically provided power when the house battery switch is turned on.

Stereo Control

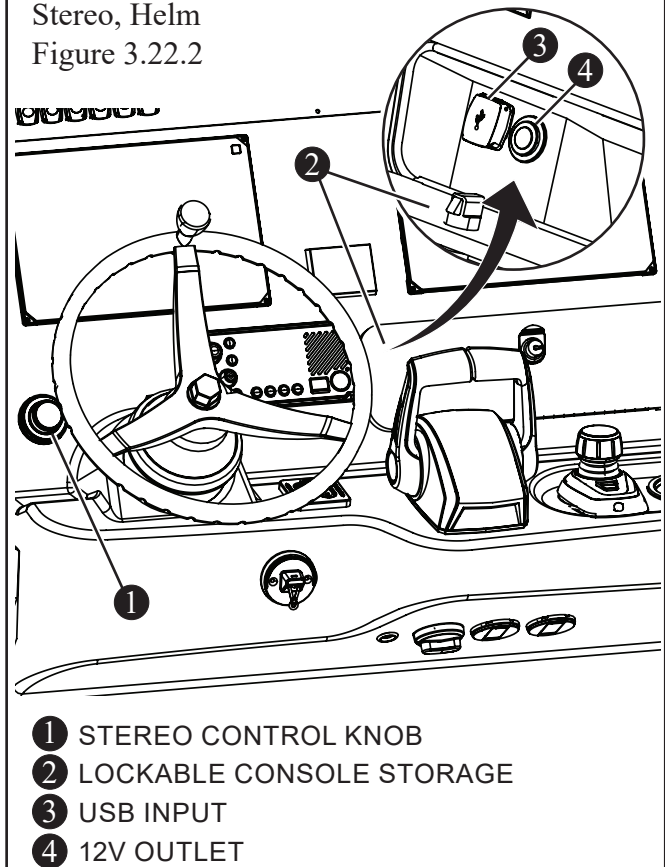
- Press on any app on the helm display to see a menu bar on the left side of the screen. Tap on *AUDIO* (see Figure 3.22.1).
- Volume/mute *Stereo Control Knob* located at the helm (see Figure 3.22.2).
- Remote control is located on the starboard side of the bow seating (see Figure 3.22.3).

REFER TO OWNER'S PACKET FOR COMPLETE INSTRUCTIONS AND WARRANTY INFORMATION.

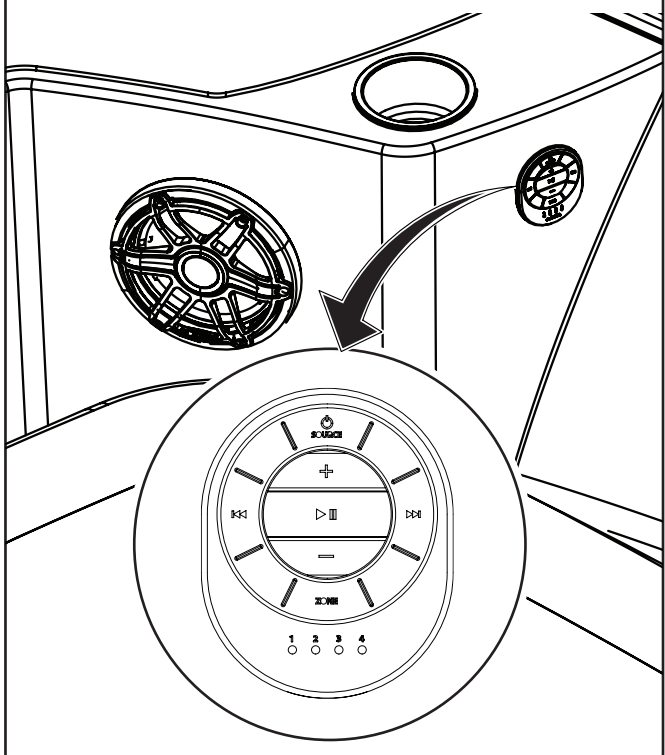
Helm Display
Figure 3.22.1



Stereo, Helm
Figure 3.22.2



Bow Seating Stereo Remote Control
Figure 3.22.3



Bow Table (Option)

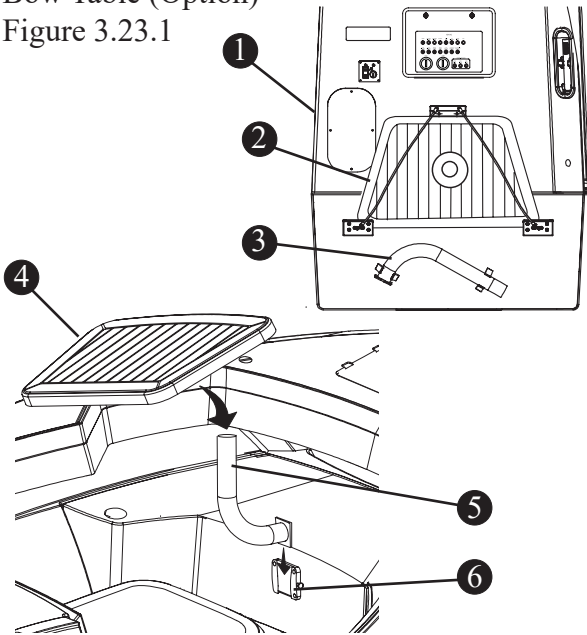
To install the optional bow table, place the single support stand into the receptacle and place the table top onto the top of the stand. When not in use, the bow table and stand pipe can be stowed in the console. Slide the table top into the storage brackets and secure the elastic straps to hold the table in place.

ATTENTION

Cover tables with the included cover when not in use. Refer to teak care instructions in chapter 5.

Bow Table (Option)

Figure 3.23.1



- 1 AFT WALL OF CONSOLE INTERIOR
- 2 BOW TABLE (STOWED)
- 3 TABLE STAND PIPE (STOWED)
- 4 BOW TABLE
- 5 TABLE STAND PIPE
- 6 STAND PIPE RECEIVER PLATE

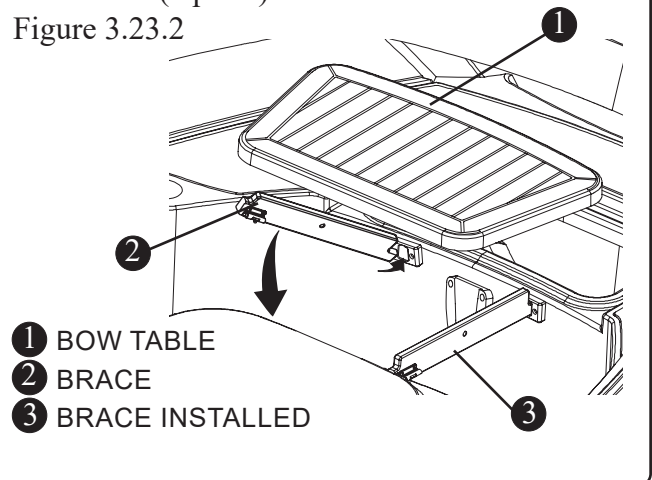
Bow Filler (Option)

If selected, the bow table (Figure 3.23.2) can be installed to extend the forward lounge, incorporating the bow cushions to provide a large lounge area in the bow of your boat,

- Insert brace into forward receiver.
- Rotate brace into receiver on the front of the forward console lounge.
- Slide dead bolt to secure the brace.
- Place bow table on braces.

Bow Filler (Option)

Figure 3.23.2



Reboarding Ladder

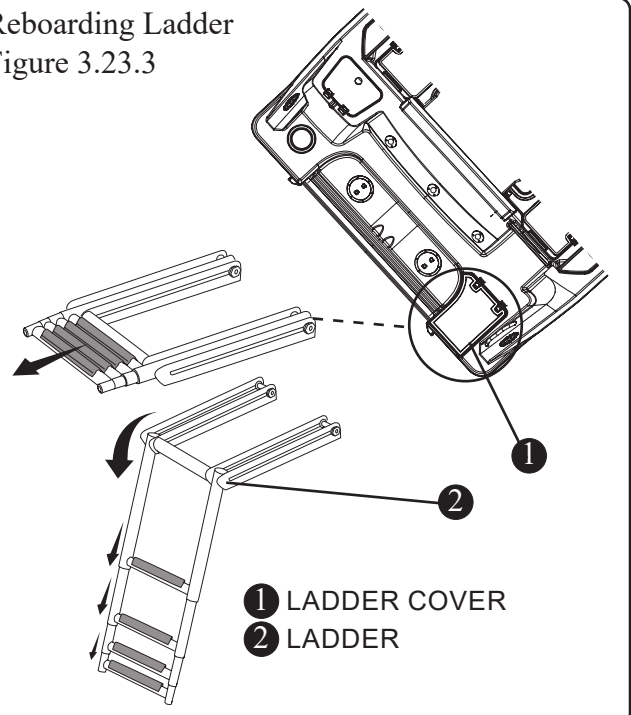
The reboarding swim ladder is located under a cover on the aft starboard deck of your boat (See Figure 3.23.3). The ladder can be accessed by lifting the cover or pulling the ladder out without lifting the cover.

To deploy the ladder:

- Pull Ladder from under cover.
- Rotate the ladder unit downward
- Extend the ladder rungs.

Reboarding Ladder

Figure 3.23.3



Foldaway Trolling Seat (Option)

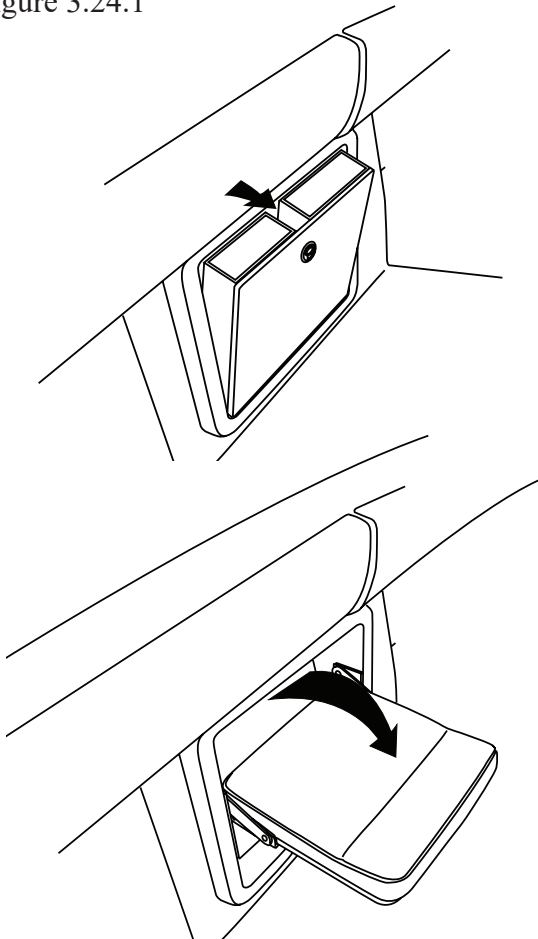
⚠ CAUTION

Trolling seats are for use ONLY when your boat is stopped or at slow trolling speed. DO NOT use the trolling seats above trolling speeds as injury can occur.

The unique trolling seat is located on the port and starboard walkway opposite the console. The seat is folded away into the freeboard when not in use but can be dropped down to provide stable additional seating when necessary.

Simply lift up on the seat using the molded hand hold and pull away from the freeboard to drop down in a seated position.

Foldaway Trolling Seat (Option)
Figure 3.24.1



Spotlight (Option)

If equipped, the optional spotlight is mounted forward on the hardtop (see Figure 3.24.2).

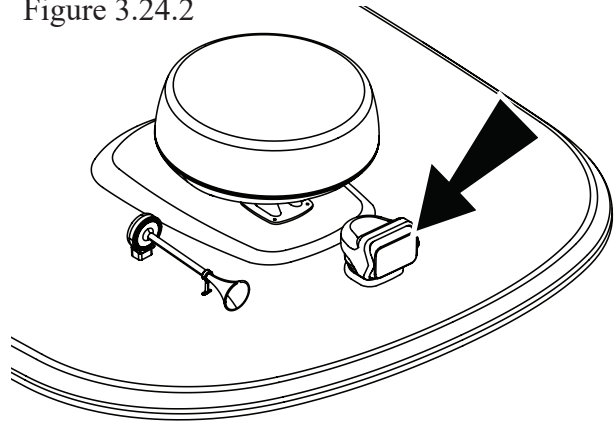
Operation

The spotlight is controlled by a remote control pad located at the helm (see Figure 3.24.3).

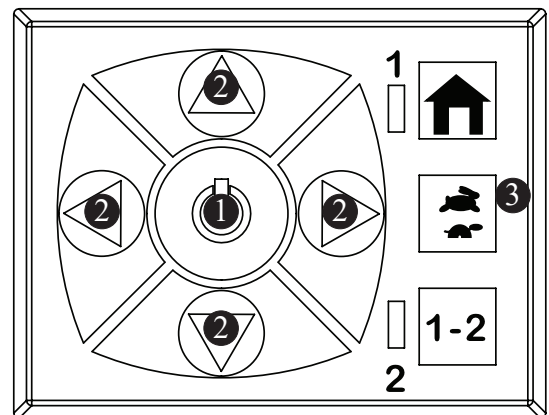
- Turn unit on by depressing power button
- Directional arrows aim spotlight
- Adjust the speed of the spotlight's rotation by depressing the turtle/rabbit (slow/fast) button.

REFER TO THE OWNER'S MANUAL PACKET FOR COMPLETE INSTRUCTIONS AND WARRANTY.

Spotlight (Option)
Figure 3.24.2



Spotlight Control Pad (option)
Figure 3.24.3



- ① POWER
- ② DIRECTIONAL ARROW
- ③ ROTATION SPEED

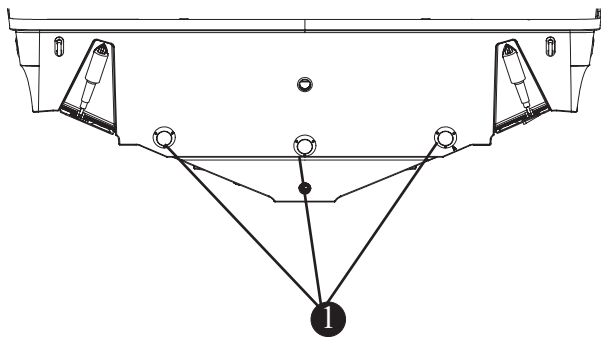
Underwater Lights (Option)

If equipped, three underwater lights are located on the transom just below the surface of the water. When lit, the lights illuminate the water in a translucent blue glow which enhances the after dark experience of being on the water and in addition may on occasion attract a myriad of marine life.

The underwater Lights are powered by the “U/W LTS” switch located on the helm switch panel.

Underwater lights (Option)

Figure 3.25.1



① UNDERWATER LIGHTS

CAUTION

Underwater lights are not to be used when navigational lights are in use as this may interfere with the effectiveness of the navigational lights.

Transom Door

The transom door on the 280 Outrage includes a stainless steel manual latch with a self locking feature.

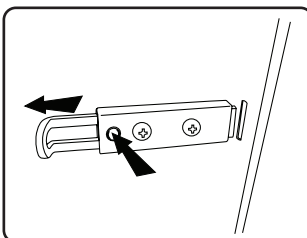
DO NOT LEAVE TRANSOM
DOOR/GATE OPEN WHILE
UNDERWAY - SERIOUS INJURY
MAY RESULT.

12-B123

Operation

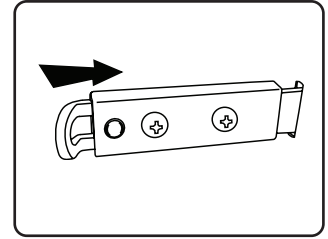
To open the transom door:

Push in the self locking button and pull the latch toward the starboard side of the boat.



To lock the transom door:

Close the door and push the latch into the receiver on the door frame. When the latch is fully seated, the locking button will snap into place securing the latch.



WARNING

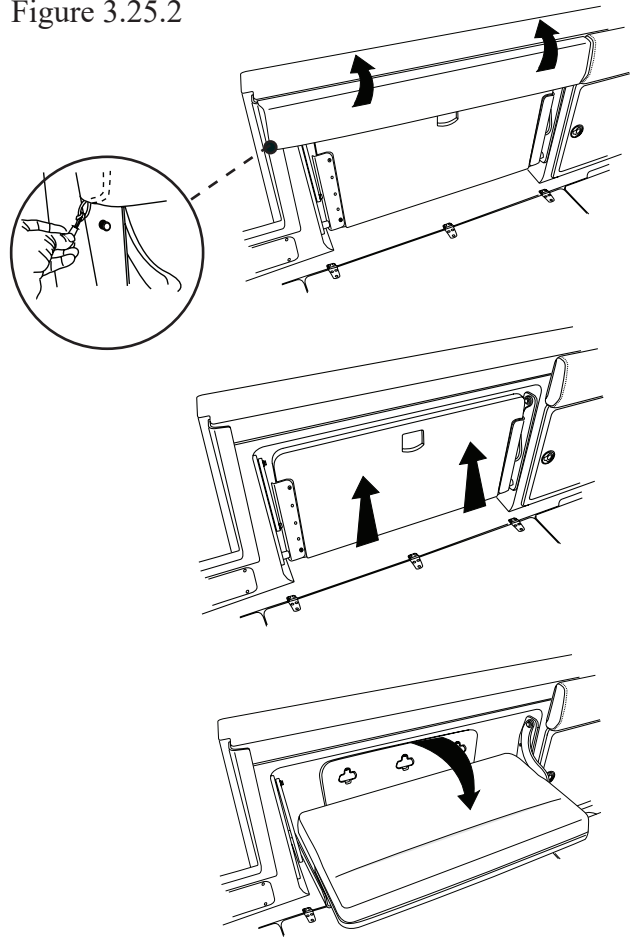
The transom door should be closed and secured when the engines are running and the boat is under way.

Foldaway Aft Bench Seat

When the aft bench is not in use it can be folded flush into the transom. To use the seat; raise the bolster, pull the seat up and out toward you and let down into position.

Aft Bench Seat

Figure 3.25.2

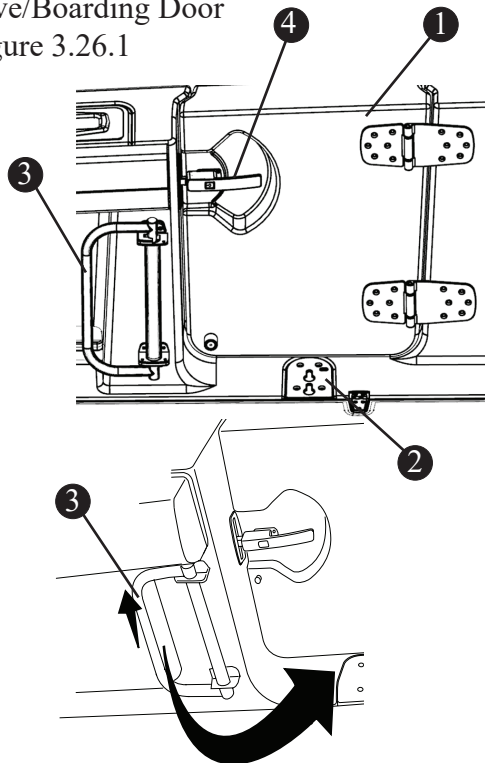


Dive Door

The innovative design of your boat includes a port side door for ease of transition to and from the water or dock. The door opens wide and features a swivel grab handle to assist persons entering or exiting the water. To use the grab handle, lift up and swivel into place.

The stainless steel deck bracket accommodates a removable ladder which is stowed in the base of the aft bench seat when not in use.

Dive/Boarding Door
Figure 3.26.1



- 1 PORT SIDE FIBERGLASS DIVE DOOR
- 2 STAINLESS STEEL LADDER BRACKET
- 3 SWIVEL GRAB HANDLE
- 4 STAINLESS STEEL LATCH

⚠ DANGER

Ensure that door is closed and securely latched when boat is underway.

Dive Ladder

⚠ DANGER

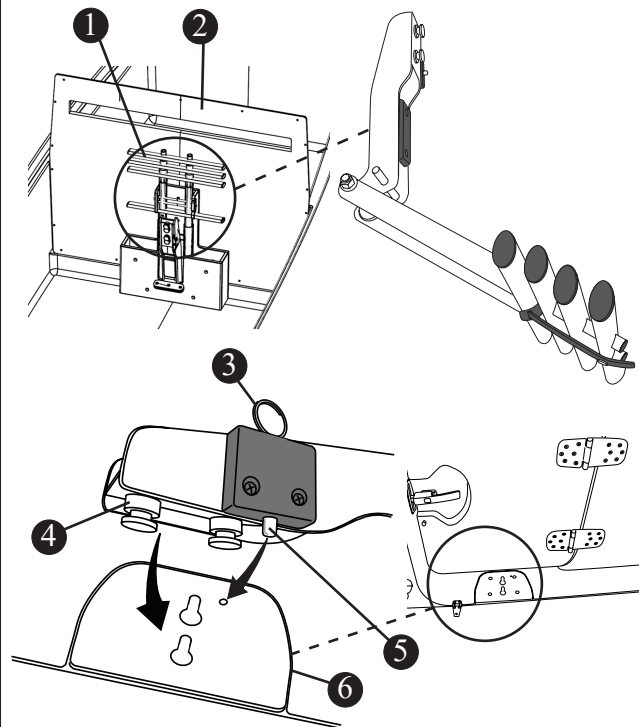
The dive ladder should NEVER be deployed when boat is in motion or the engines are running.

To avoid risk of injury or death, shut off engines when using the dive door to enter or exit the water.

The installation of the dive ladder is quick and easy.

- Remove the ladder from its stowed position in the forward portion of the head. The ladder is secured with a bungee strap that must be removed 1st.
- Rotate the brace at the top of the ladder so that it is perpendicular to the shaft.
- Insert the two pegs on the brace into the deck bracket.

Dive Ladder Installation
Figure 3.26.2

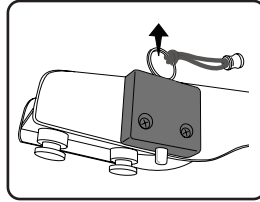


- 1 DIVE LADDER (STOWED IN HEAD)
- 2 FORWARD WALL OF HEAD
- 3 LOCKING PIN RELEASE RING
- 4 DIVE LADDER BRACE
- 5 LOCKING PIN
- 6 DECK LADDER BRACKET

- Secure the ladder into place by pushing the brace outboard until it seats firmly into the bracket and the locking pin has snapped into place.

To remove the dive ladder from the dive door bracket:

- Pull up and hold the release ring.
- Pull dive ladder brace inboard and lift up out of the deck bracket.
- Secure the ladder into place in the forward portion of the head.



NOTICE

ALWAYS use bungee straps to secure the dive ladder.

Anchor Windlass (Option)

NOTICE

Be sure to read and fully understand the anchor windlass owner's manual before operating the anchor windlass.

The optional anchor windlass located in the bow locker facilitates the anchoring of your boat by automatically raising and lowering the anchor. The windlass can be operated from the helm; from the bow with remote control or manually.

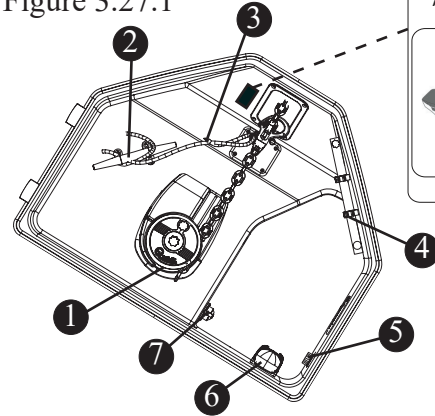
Operation

NOTICE

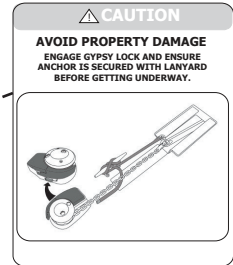
Before operating the windlass be sure that the safety lanyard is removed from the anchor chain and is clear of the rode as it plays out or is retrieved.

To operate the windlass from the helm and with the use of the remote, the *WINDLASS* breaker on the battery switch panel must be ON, See *Chapter 4 Electrical*.

Anchor Windlass (Option)
Figure 3.27.1



- 1 WINDLASS
- 2 ANCHOR CLEAT
- 3 ANCHOR LANYARD
- 4 EMERGENCY HANDLE
- 5 FRESHWATER CONNECTION
- 6 WINDLASS REMOTE
- 7 WINDLASS POWER



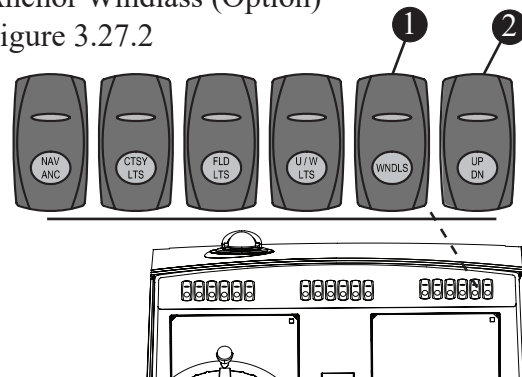
Lowering the Anchor

Pushing the top part of the switch will power the anchor windlass DOWN. Make certain that the anchor safety lanyard is detached from the chain and is clear of any moving parts of the anchor windlass.

Raising the Anchor

Pushing the lower part of the switch will power the anchor windlass UP. Once the anchor and rode is secure in the UP position, the anchor safety lanyard can be re-attached to the rode.

Anchor Windlass (Option)
Figure 3.27.2



- 1 WINDLASS POWER BUTTON WINDLASS
- 2 ACTUATOR SWITCH

Operating The Windlass From the Helm

The anchor windlass is powered, at the helm, by a switch on the helm switch panel (See figure 3.27.2).

Activation of the windlass is controlled by a switch located to the right of the power switch. The activation switch is a momentary type switch, which means that there must be constant pressure applied to operate the anchor windlass and raise or lower the anchor.

Operating The Windlass With Remote

The anchor windlass can be operated from the bow with the use of the windlass remote which is stowed in the bow locker.

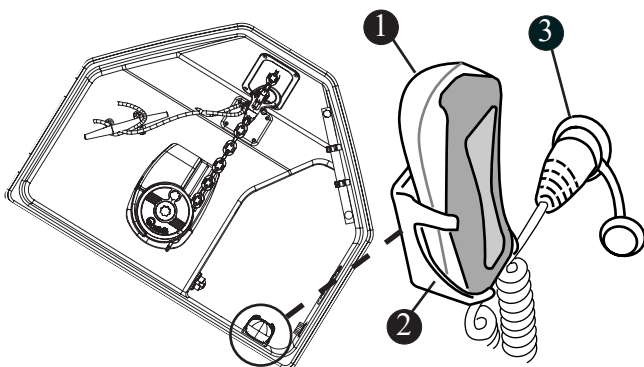
NOTICE

Before operating the windlass be sure that the safety lanyard is removed from the anchor chain and is clear of the rode as it plays out or is retrieved.

⚠ DANGER

Use the anchor windlass switch on the helm when possible. Use care when operating the anchor windlass with the hand-held remote.

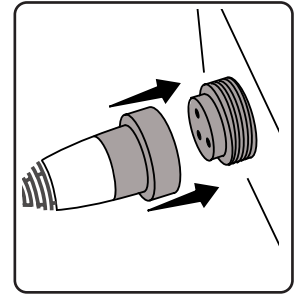
Anchor Windlass Remote (Option)
Figure 3.28.1



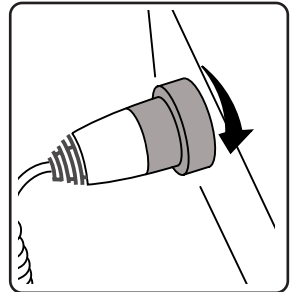
- ① WINDLASS REMOTE
- ② REMOTE STORAGE CRADLE
- ③ POWER RECEPTACLE

Remote Operation

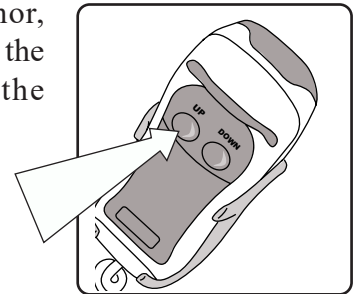
- Plug the power cable into the power receptacle located on the starboard side of the bow locker (Figure 3.28.1)



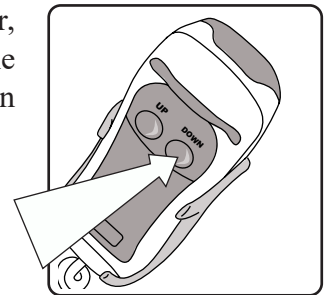
- Turn the forward portion of the plug clockwise to secure.



- To raise the anchor, press and hold on the “UP” button of the remote.



- To lower the anchor, press and hold on the “DOWN” button on the remote.



⚠ WARNING

Keep hands, feet, hair and loose clothing clear of moving parts. Entanglement may cause severe bodily injury (i.e. loss of fingers or toes).

REFER TO THE MANUFACTURER'S MANUAL IN YOUR OWNER'S MANUAL PACKET FOR COMPLETE INSTRUCTIONS.

Operating The Windlass Manually

In the event that there is a loss of power to the windlass the anchor can be raised and/or lowered manually by using the emergency handle located in the bow locker.

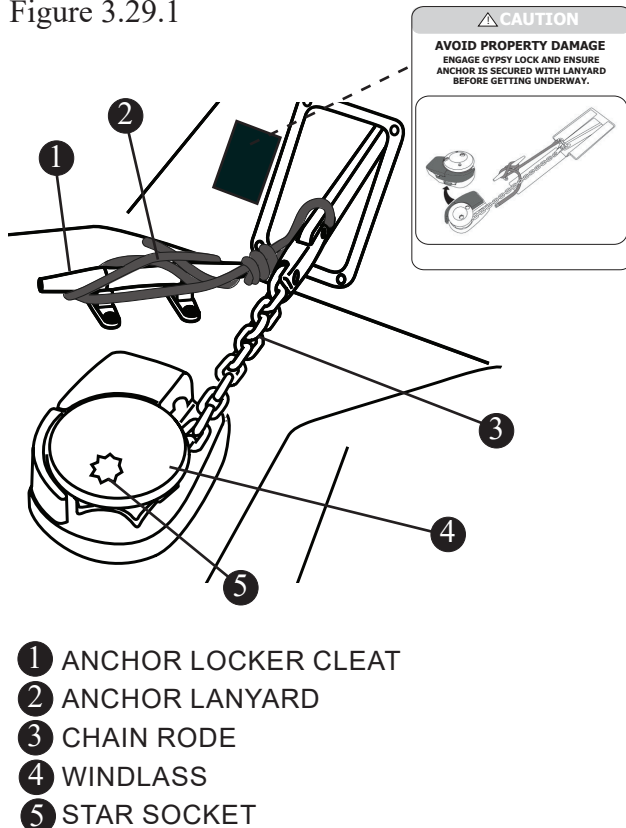
If there is a loss of power to the windlass, check the “WINDLASS” circuit breaker located on the battery switch breaker panel, *see Chapter 4 Electrical*. If the breaker is tripped, reset the breaker by pushing the lever up. If the breaker continues to trip, have the anchor windlass system checked by a qualified marine electrician.

Manual Operation

There is a star socket on the top of the windlass used for manual deployment of the anchor. Inserting the emergency handle into the socket and turning it counter-clockwise will allow you to lower the anchor, while turning it clockwise will raise it.

Be sure to attach the anchor lanyard when the anchor is stowed in the bow pulpit.

Windlass Manual/Emergency Operation
Figure 3.29.1

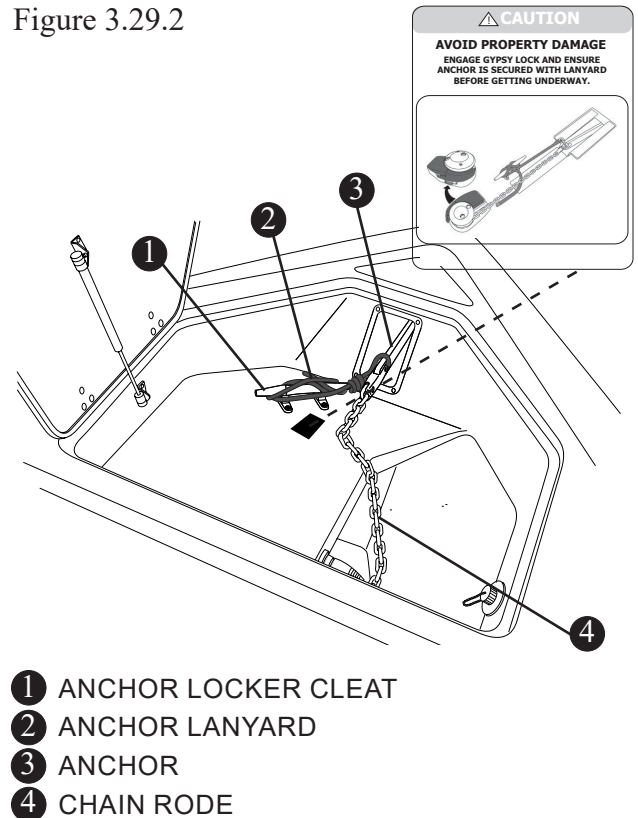


Manually Securing the Anchor

If your boat is not equipped with a windlass it is very important that the anchor lanyard is attached properly to the anchor to prevent damage caused by a loose anchor.

After pulling the anchor up completely into the bow pulpit, attach the anchor lanyard to the anchor eye and make fast to the anchor locker cleat.

Manually Securing the Anchor
Figure 3.29.2



Anchoring

WARNING

SWAMPING HAZARD - Anchor from the bow if using one anchor. A small current can make a stern anchored boat unsteady. A heavy current can drag a stern anchored boat underwater.

COLLISION HAZARD - anchor only in areas where your boat will not disrupt other boats. Do not anchor in a channel or tie up to any navigational aid. It is dangerous as well as illegal.

To anchor, bring the bow into the wind or current and put the engines in neutral (idle). When the boat comes to a stop, lower the anchor from the bow.

Proper anchoring requires knowledge of RODE and SCOPE and understanding the relationship between rode, scope and anchor performance.

The rode is the line connecting the anchor to the boat. Nylon line is ideal because it is light, strong and stretches, it also can be stored wet and is easy to handle. Add a length of chain between the anchor and the nylon line to help set the anchor more easily.

The scope is technically defined as the ratio of rode length to the vertical distance from the bow to the sea floor. Scope also depends on the type of anchor, tides, winds, sea conditions and type of sea floor the

anchor is in. Since you want to know how much rode to use when anchoring, use this common formula:

Rode length = (bow height + water depth) X Scope

The minimum is 5:1 for calm conditions; normal is 7:1, and severe conditions may require 10:1.

Example:

Rode length = (3 feet + 10 feet) X 7*

Rode length = 13 feet X 7*

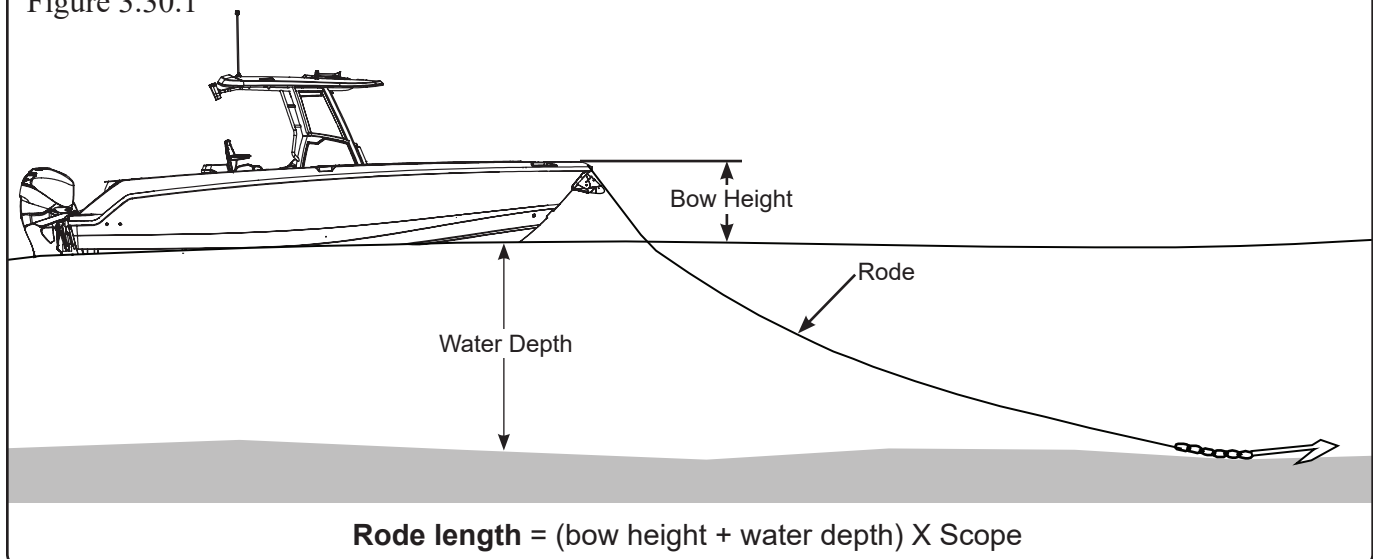
Rode length = 91 feet

* Scope may range from 5 to 10 or more. However, less than 5, the anchor will break out too easily.

Considerations

- Wind and sea conditions can affect the boat.
- Because the boat is not moving through the water, there is no control.
- Be sure that the anchor will hold under all circumstances if you are leaving the boat.
- Understand the principles of rode and scope and their effect on anchor performance.

Proper Anchoring
Figure 3.30.1



Because there are a variety of anchors, for a variety of uses, **discuss the types of anchors with your dealer to find the right anchor for your boat.**

NOTICE

Before using the anchor be sure the anchor line is attached to the eye in the bottom of the bow locker, and to the anchor, securely.

Lowering The Anchor

- Be sure there is adequate rode.
- Secure rode to both the anchor and the boat.
- Stop completely before lowering the anchor.
- Keep feet clear of lines.

NOTICE

Turn on the anchor light when at anchor or drifting (not under power) at night or in low visibility.

NOTE: If using the optional windlass, refer to the windlass operator's manual for anchoring instructions

Setting the Anchor

There is no best way to set an anchor. Experiment to see how it performs. One method is to turn the rode around a bit or a cleat and slowly pay out as the boat

backs from the anchor site. When the proper scope has been reached snub the rode quickly, causing the anchor to dig in to the sea bottom.

- Reverse the engine slowly to drive the anchor in and to prevent it from dragging.
- Secure the rode to a bit or cleat.



CAUTION

Be careful that trailing lines do not foul in the propeller

Weighing the Anchor

To weigh (retrieve) the anchor, start the boat and run slowly up to the anchor, taking up the rode as you go. The anchor will usually break out when the rode becomes vertical. Coil lines to let them dry before stowing. The bow storage compartment located in the starboard bow should be used to stow the anchor line.



WARNING

Keep hands, feet, hair and loose clothing clear of moving parts (anchor, rode, etc.). Entanglement may cause severe bodily injury (i.e. loss of fingers or toes).

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DC Electrical System

The DC electrical system on the 280 Outrage is powered by three batteries. The batteries are charged by the engines when the engines are running or with a dockside battery charger if equipped. The batteries power essential systems on your boat:

- Engine Ignition.
- Engine tilt trim system
- Helm switch panel & helm instrument panel
- Navigation Lighting system
- Livewell system
- Electronics and add-on accessories
- Lighting

Batteries

NOTICE

Always store the batteries in the battery trays. Use the retaining lid and wing nuts to keep the batteries secure while underway.

NOTICE

REFER TO YOUR ENGINE OWNER'S MANUAL FOR EXACT BATTERY REQUIREMENTS.

The chart below is provided for reference purposes only. Use only AGM batteries with Verado engines.

Application	Group	Volts	MCA*	RC 25	Qty.
USA (SAE)	31	12	800	135 min	3**

* Marine Cranking Amps

Application	Group	Volts	CCA*	Reserve	Qty.
Int'l (EN)	31	12	975	65Ah	3**

* Cold Cranking Amps

**Joystick Piloting option requires a fourth battery

NOTICE

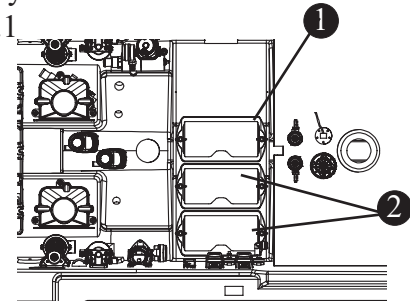
Ensure that your batteries meet Mercury's AGM & CCA requirements

Battery Trays

The Battery Trays located in the forward section of the aft bilge, house and secure the three batteries (Figure 4.1.1).

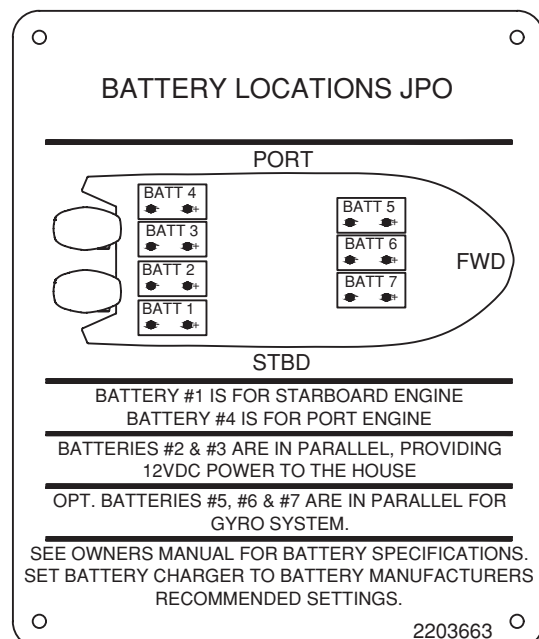
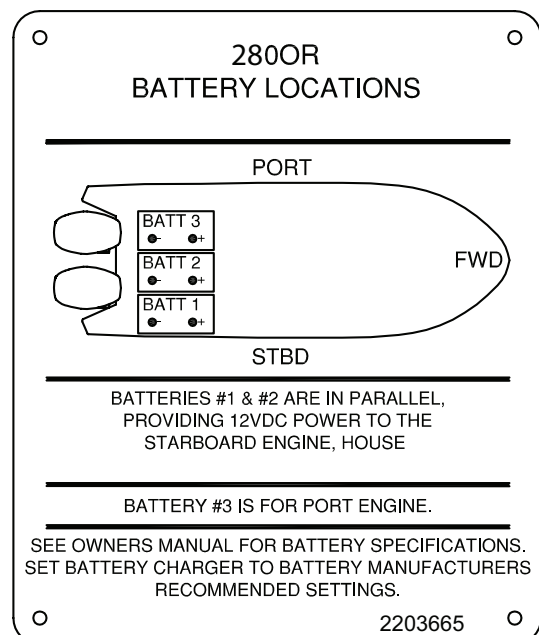
Battery Trays

Figure 4.1.1



- ① PORT ENGINE BATTERY
- ② STBD ENGINE/HOUSE (PARALLEL)

Battery Location Plates



Your batteries should always be enclosed in the battery trays provided with your boat and secured in place by the retaining lids. The trays will ensure that while underway the batteries will not move around, thus causing damage to components fitted in the same area.

Before use, check each battery and the charging system for loose connections or wiring. Normal maintenance should include:

- Coating the terminals with dielectric grease
- Keeping the batteries dry
- If not using a sealed battery, check & maintain the water level. Use distilled water only.
- Removing the batteries from the boat during cold weather or long term storage.

The most life shortening experience for the battery is to be drained to zero charge before recharging.

When a battery discharges, the active material on both positive and negative plates converts to lead sulfate, causing the plates to become more alike in an electrical charge. The electricity conducting battery acid becomes weaker and the voltage drops. As the battery remains discharged, the process continues until recharging the battery becomes impossible.

If the battery does become run down be sure to recharge it as soon as possible. Overcharging the battery can be just as detrimental to its life as running it down too far.

DANGER

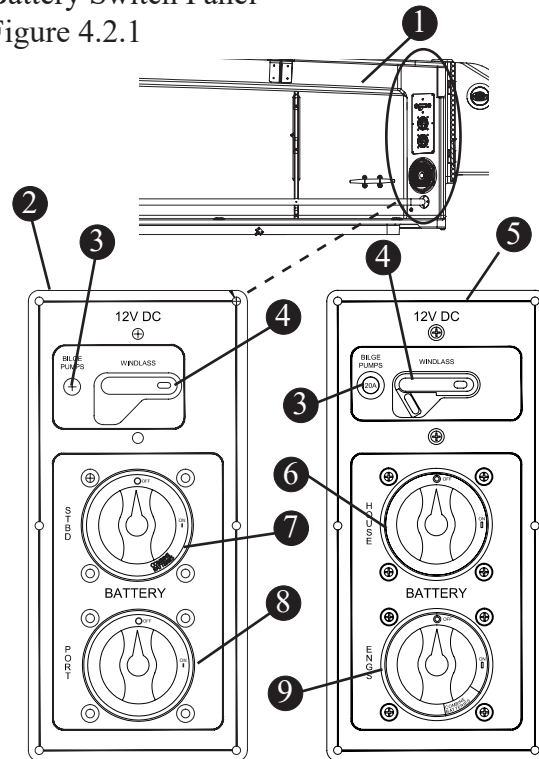
Batteries contain sulfuric acid which is dangerous and can cause serious injury. AVOID contact with skin, eyes and clothing. If contact occurs, immediately flush the affected area with large quantities of water and call for medical assistance.

Battery Switches

Your 280 Outrage uses two battery selector switches to control delivery of DC power from the three batteries. The battery switches are located on a panel on the aft wall of the starboard gunwale.

Battery Switch Panel

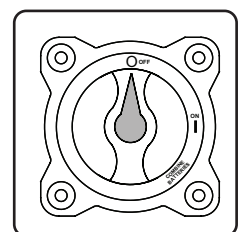
Figure 4.2.1



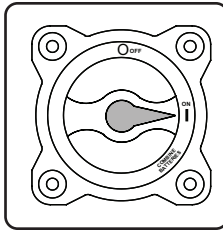
- 1 STARBOARD GUNWALE
- 2 BATTERY SWITCH PANEL
- 3 BILGE PUMPS BREAKER (20 AMP)
- 4 WINDLASS BREAKER (80 AMP)
- 5 BATTERY SWITCH PANEL (OPTION)
- 6 HOUSE BATTERY SWITCH (OPTION)
- 7 STARBOARD ENGINE BATTERY SWITCH
- 8 PORT ENGINE BATTERY SWITCH
- 9 PORT/STARBOARD ENGINES BATTERY SWITCH (OPTION)

The battery switches have three (3) settings, OFF, ON and COMBINED.

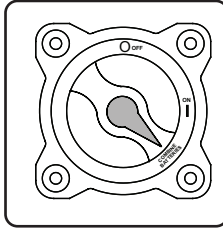
- “OFF” - you will have no power to the engines.



- “ON” - you will have power to the engines as well as all essential boat systems



- “COMBINE BATTERIES” - you will have power from all batteries at the same time. This parallels the batteries to assist you in starting the engines.



In the event a battery discharges completely, you will still be able to start the engines by turning both battery switches to the “COMBINE BATTERIES” position. This accesses the charged battery for engine start. After the engine starts, return the battery switches to the “ON” position until all batteries are charged.

⚠ CAUTION

- **NEVER** use an open flame in the battery storage area.
- **Avoid** striking sparks near the battery.
- **A battery will explode** if a flame or spark ignites the free hydrogen given off during charging.
- **ALWAYS** disconnect the battery before doing any work or maintenance on the electrical system.
- **NEVER** turn off the battery switches or disconnect the battery cables while the engines are running.

⚠ CAUTION

Do not leave the battery switches in “COMBINE BATTERIES” position as this can discharge all batteries leaving no emergency start capability.

NOTICE

The Bilge pump and clean power for the DTS system still draw power from the starboard batteries even if the switch is set to “OFF”.

Dockside Battery Charging (Option)

Your boat can be equipped with a battery charging system which includes a battery charger and a short extension cord located on the starboard side of the transom which can be used to connect to an outlet to charge the batteries.

Charge Rate

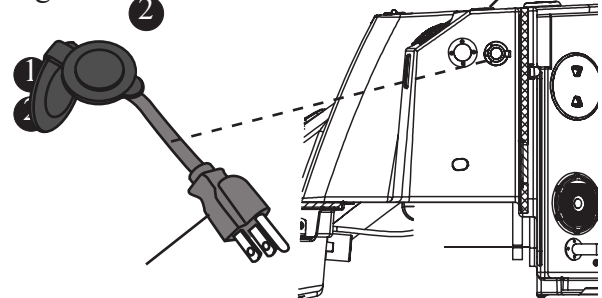
The battery charger has selectable profiles that affect the charge rate. The charge rate profile is pre-set at the factory to AGM to match the battery type installed in your vessel. Matching the charge rate to the battery type extends battery life and maximizes battery performance.

⚠ DANGER

AVOID serious injury or death from fire explosion or electrical shock.

This device MUST be connected to a GFCI (Ground Fault Circuit Interrupt) protected outlet.

Battery Charging system (Option)
Figure 4.3.1



PORT SIDE OF TRANSCOM ENTRY
RETRACTABLE EXTENSION CORD

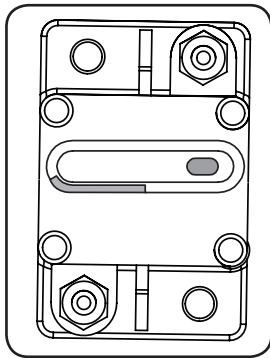
NOTICE

You can connect a heavy duty U.L. approved extension cord to the charger. After connecting the extension cord to the charger proceed to plug the extension cord to a nearby 120VAC GFCI (Ground Fault Circuit Interrupt) outlet.

ALWAYS remove the extension cord from the 120VAC outlet first when charging is completed, followed by unplugging the charger.

House Main Breaker

The house main breaker located on the starboard side of the bilge (Figure 4.4.1) must be turned ON to provide power to all non-essential vessel components.



Voltage Sensitive Relays (VSR)

The battery banks on your boat are automatically connected in parallel through the use of a VSR (Voltage Sensitive Relay) located on the starboard wall of the bilge (Figure 4.4.1).

If equipped with the joystick option, a second VSR is located on the starboard wall of the bilge (Figure 4.4.1).

When a sufficient charging source is present. The battery banks are automatically separated when the charging source falls below a certain voltage level for a predetermined amount of time.

The use of VSRs eliminates the need for the operator to monitor battery voltage and decide whether or not it is safe to parallel the battery banks. It also eliminates the chance of a dead battery bank if a paralleling switch were left in the “Combined” position without a sufficient charging source present.

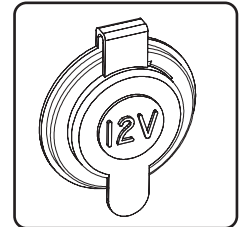
REFER TO THE MANUFACTURER'S MANUAL IN YOUR OWNER'S MANUAL PACKET FOR COMPLETE INSTRUCTIONS, WARRANTY AND SAFETY INFORMATION.

12 Volt Accessory Receptacle

NOTICE

DO NOT insert a cigarette lighter into this receptacle. Damage to the unit & system could occur.

Your 280 Outrage is equipped with 12 volt accessory receptacle located in the console glove box (See figure 2.10.1). The DC receptacle is to be used with any 12 volt accessories using this style of plug.



There is a 15 amp breaker located on the DC breaker panel (See figure 4.4.1). **Be sure to use accessories that do not exceed the rated capacity of the circuit, (15 amps) or the breaker will trip.**

Component Breakers

Component reset breakers are located on the DC breaker panel (Figure 4.5.1). The DC breaker panel is located on the aft wall of the console interior (head).

If a component breaker trips, determine and correct the problem before resetting the breaker. Should a circuit breaker trip repeatedly, have a qualified electrician determine and correct the cause of the trip.

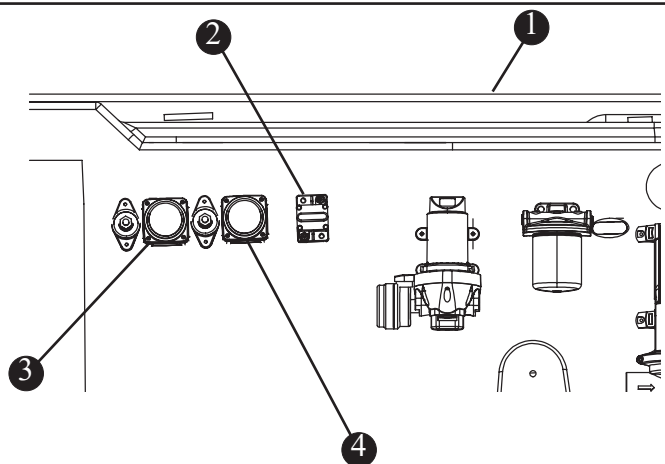


CAUTION

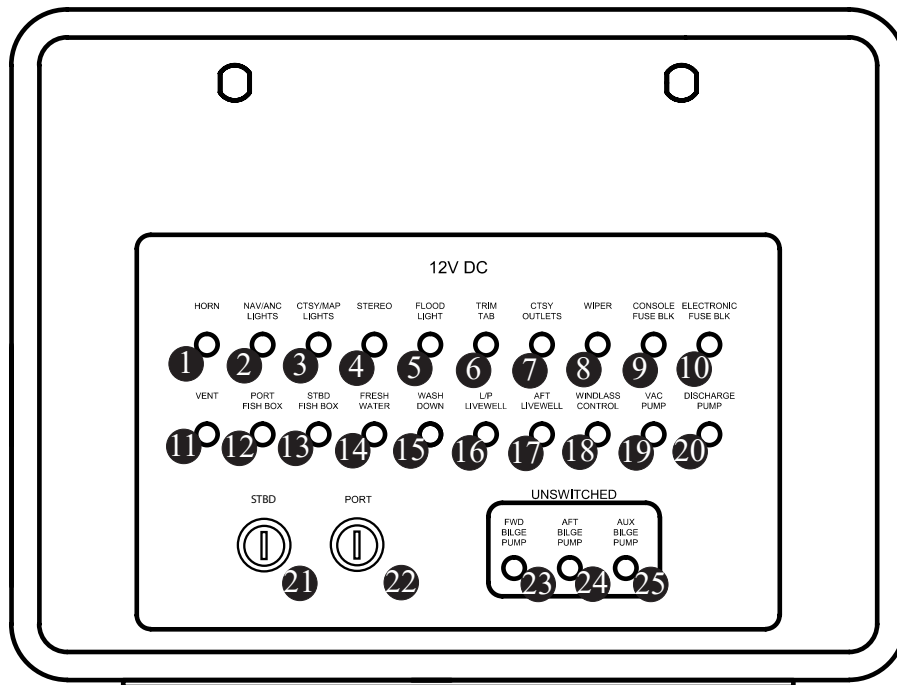
NEVER reset a breaker without first determining and correcting the cause of the trip. Should a circuit repeatedly trip, have a qualified electrician determine and correct the cause.

VSR (Voltage Sensitive Relay)
Figure 4.4.1

- ① STARBOARD BILGE
- ② MAIN HOUSE BREAKER
- ③ VSR (VOLTAGE SENSITIVE RELAY)
- ④ VSR (JOYSTICK PILOTING OPTION)

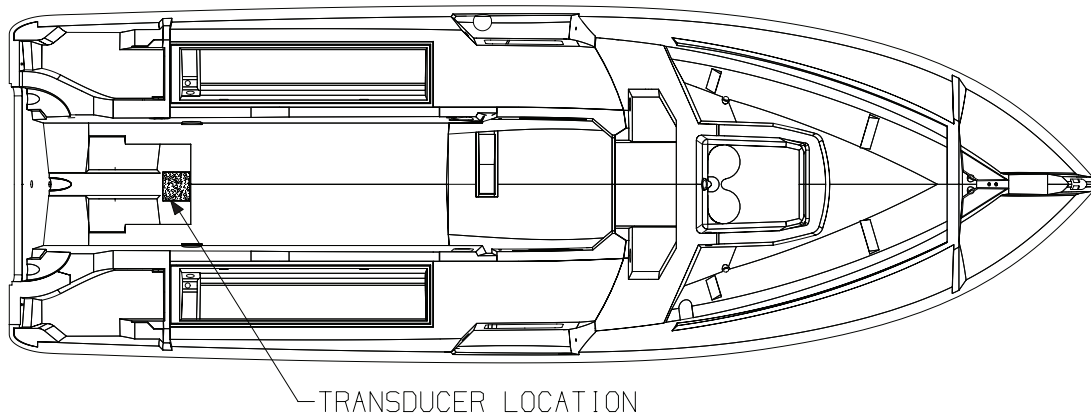


DC Breaker Panel
Figure 4.5.1



- | | |
|---------------------------------------|--|
| 1 HORN 10 AMP | 14 FRESHWATER PUMP..... 15 AMP |
| 2 NAV/ANCH LIGHTS..... 10 AMP | 15 WASHDOWN PUMP..... 15 AMP |
| 3 COURTESY/MAP LIGHTS..... 10 AMP | 16 L/P LIVEWELL PUMP/LIGHTS..... 6 AMP |
| 4 STEREO 15 AMP | 17 AFT LIVEWELL PUMP 6 AMP |
| 5 FLOOD LIGHT 10 AMP | 18 WINDLASS CONTROL 10 AMP |
| 6 TRIM TAB 20 AMP | 19 VAC PUMP 5 AMP |
| 7 COURTESY (12V) OUTLETS 15 AMP | 20 DISCHARGE PUMP 20 AMP |
| 8 WIPER 10 AMP | 21 STARBOARD ENGINE IGNITION |
| 9 CONSOLE FUSE BLOCK 40 AMP | 22 PORT ENGINE IGNITION |
| 10 ELECTRONIC FUSE BLOCK 40 AMP | 23 FORWARD BILGE PUMP 5 AMP |
| 11 WINDSHIELD VENT..... 10 AMP | 24 AFT BILGE PUMP 6 AMP |
| 12 PORT FISHBOX PUMP..... 10 AMP | 25 AUXILIARY BILGE PUMP..... 6 AMP |
| 13 STARBOARD FISHBOX PUMP..... 10 AMP | |

Transducer Location Diagram



Fuse Blocks

WARNING

Use of higher amperage fuses or breakers is a fire hazard.

Use fuses and breakers having the same amperage rating as the original or as specified.

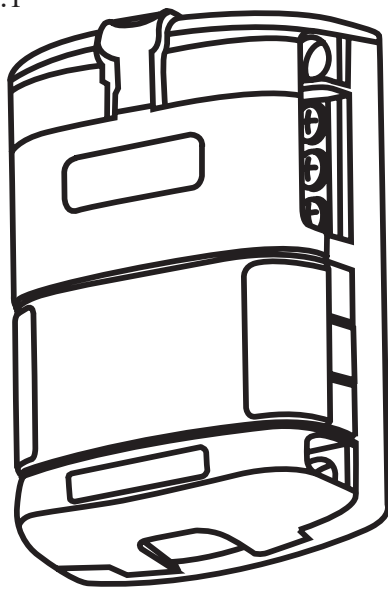
There is an electronics fuse block located in the console which can be accessed thru a panel on the aft wall of the console interior and in the port side of the hardtop electronics box.

In the event you need to replace a fuse, use only the same amperage as the original. It is recommended that you carry spare fuses.

If a fuse is replaced with one of lower amperage, it will not be sufficient to carry the electrical load of the equipment it is connected to and will cause nuisance fuse failure or breaker tripping.

If a fuse is replaced with one of higher amperage, it will not provide adequate protection against an electrical malfunction and will create a fire hazard.

Fuse Block
Figure 4.6.1



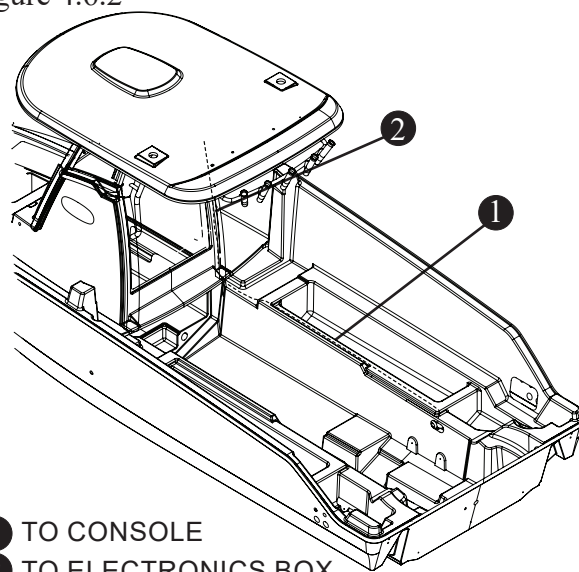
Rigging

Your boat has a large open space between the fuel tank and the floor to run additional electronic wiring. Feed the new runs through the rigging boots and secure it to the existing runs.

If equipped with the optional hardtop, additional electronic wiring can be routed through the port aft support of the frame.

Tie another piece of nylon cord to the current accessory wiring being run and use that for later runs.

Rigging
Figure 4.6.2

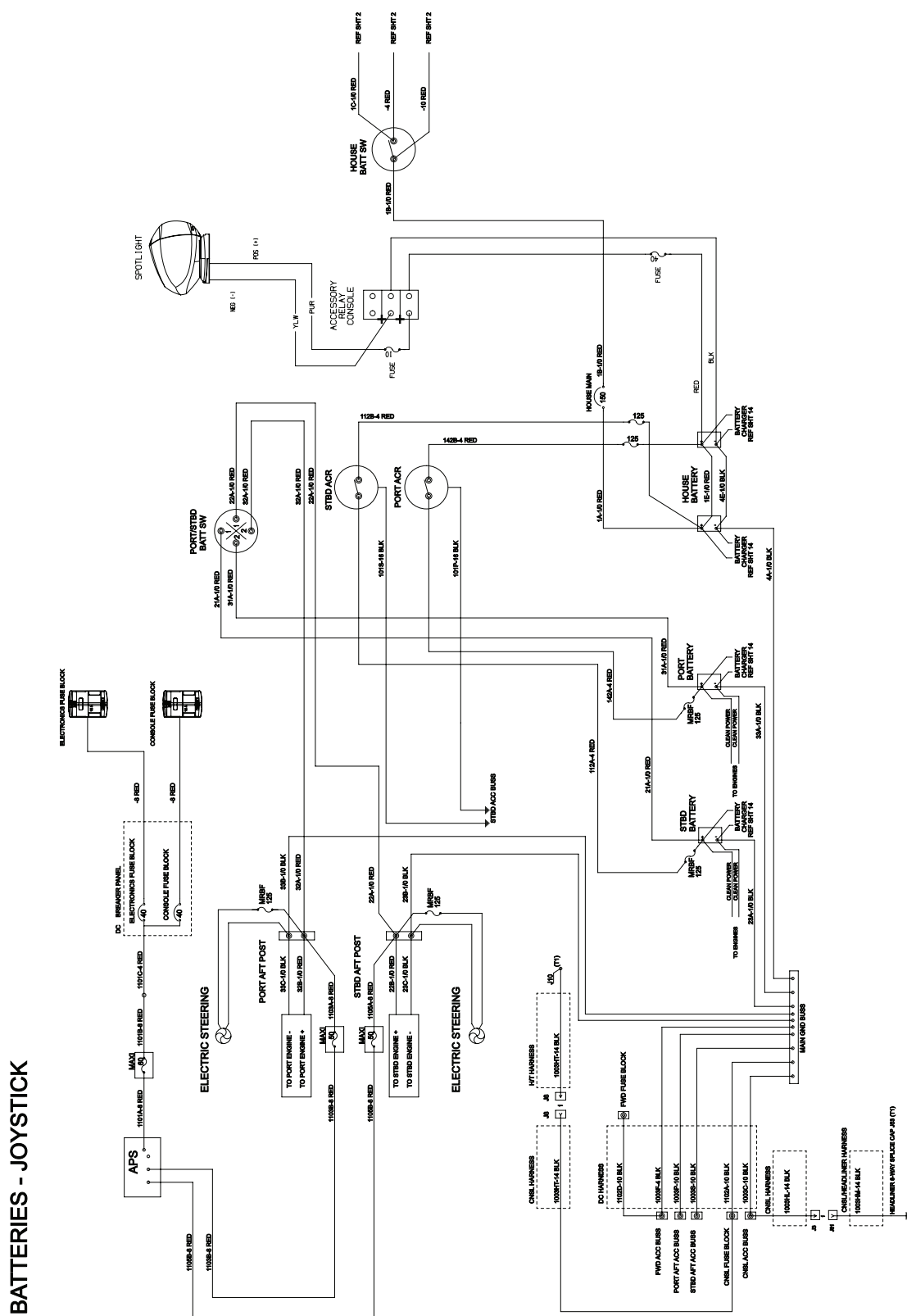


Electrical Schematics

Boston Whaler adheres to electrical wiring requirements that meet ABYC E-11 standards. The schematics on the following pages are for use by Boston Whaler service technicians. Boston Whaler reserves the right to change or update the electrical system on any model at any time without notice. In addition, Boston Whaler is not obligated to make any updates to units built prior to a change. Contact customer service for current electrical schematics.

Wiring Schematic

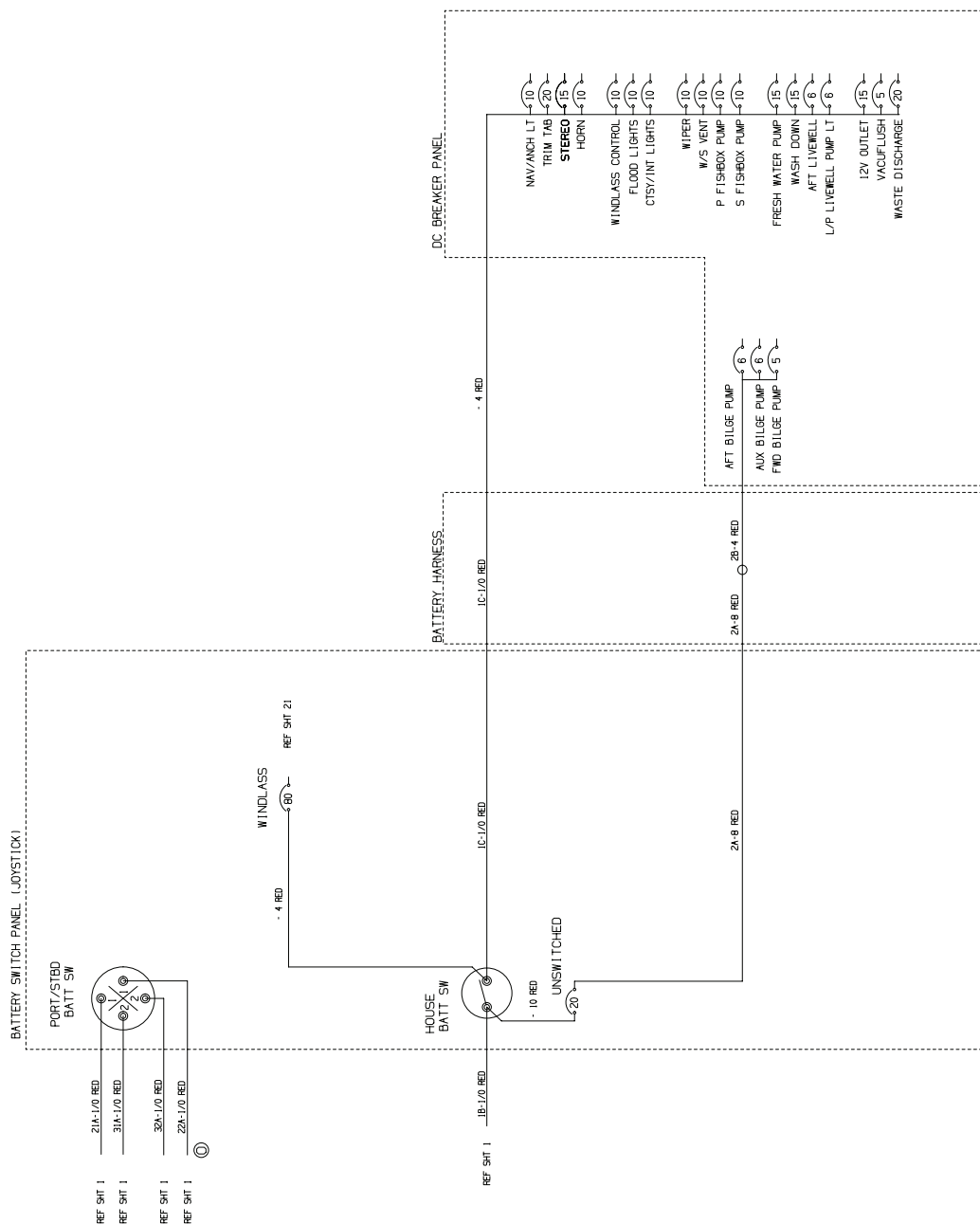
Figure 4.7.1



6017-07-401_P

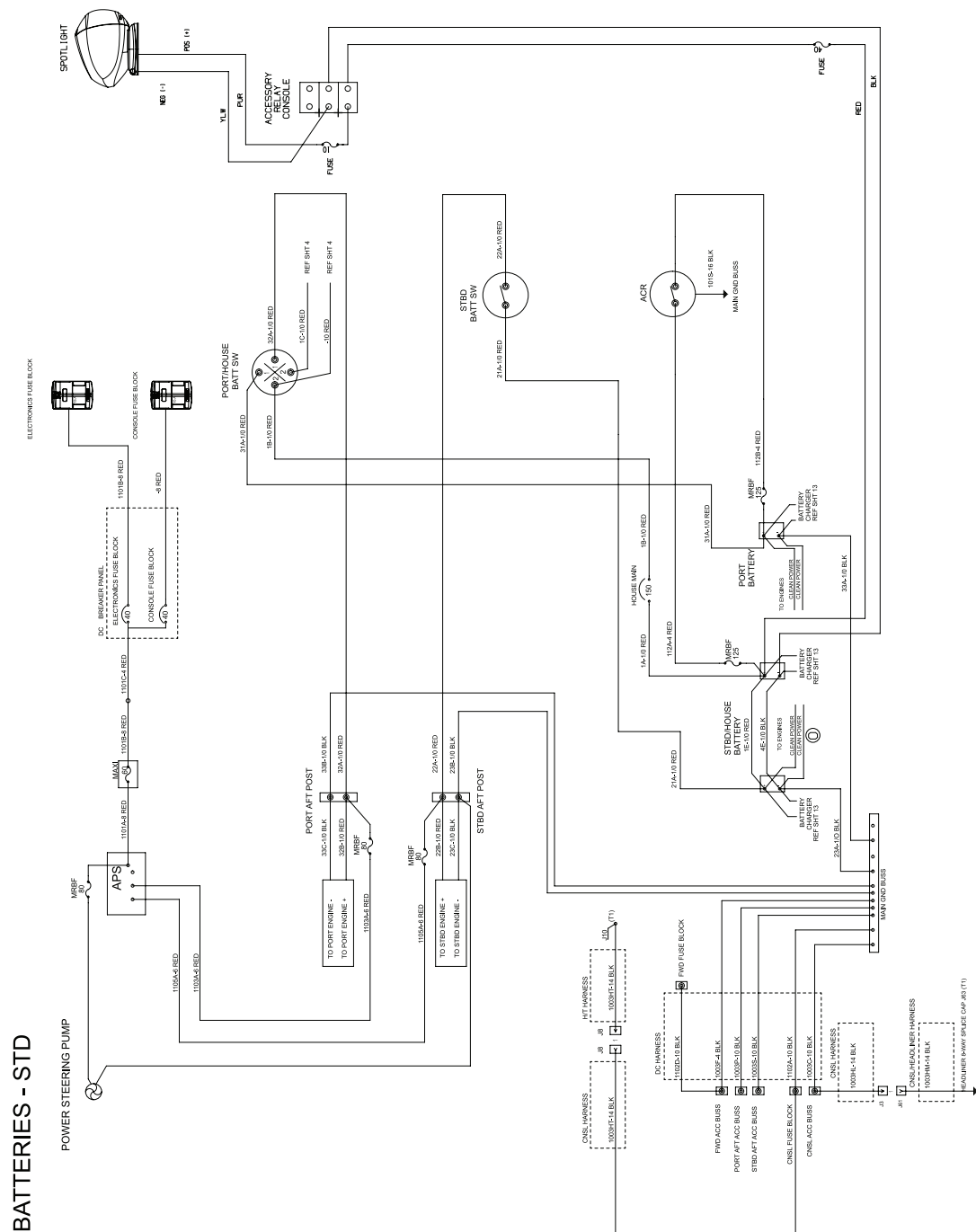
Wiring Schematic
Figure 4.8.1

BREAKER PANEL JOYSTICK



Wiring Schematic

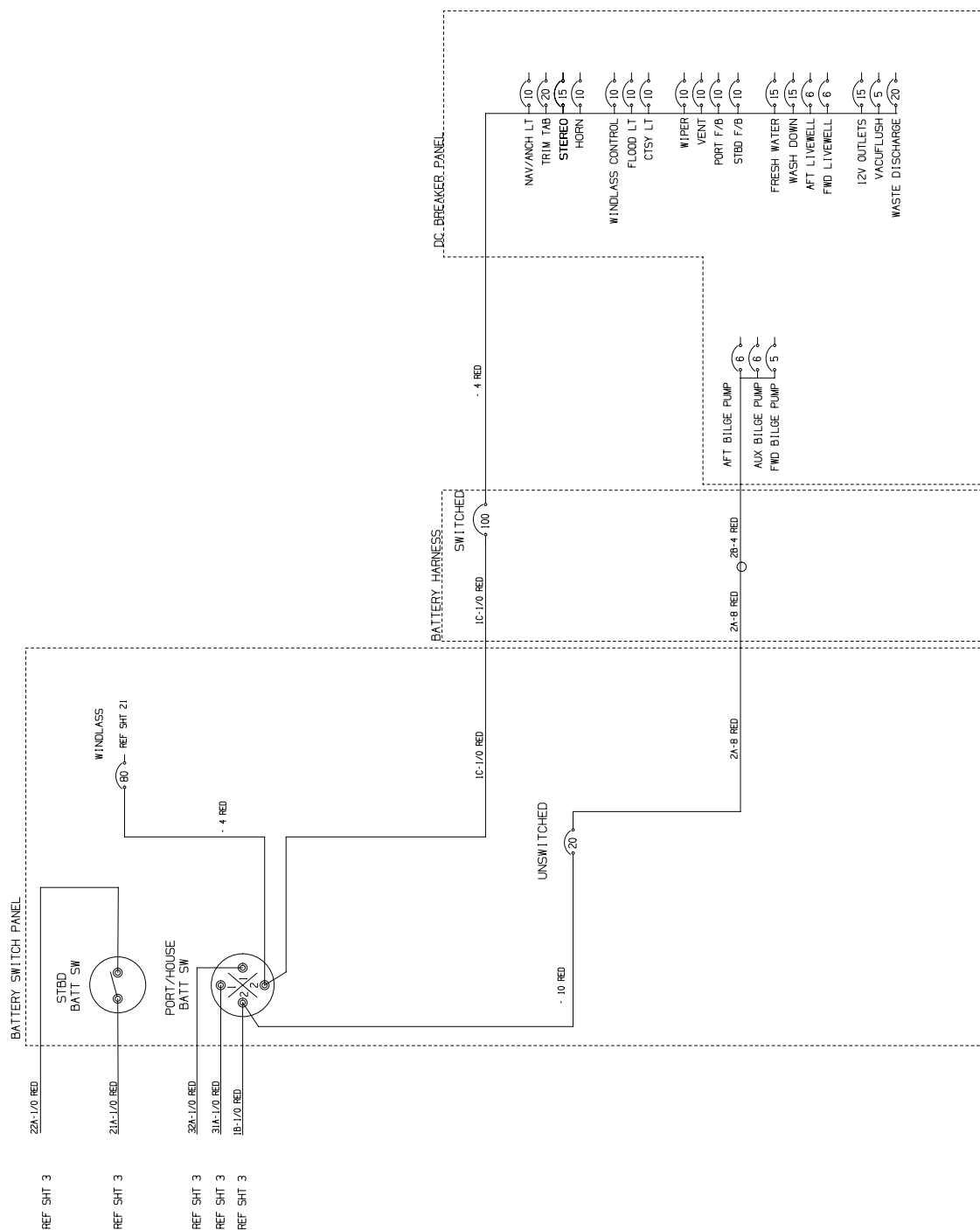
Figure 4.9.1



6017-07-401_P

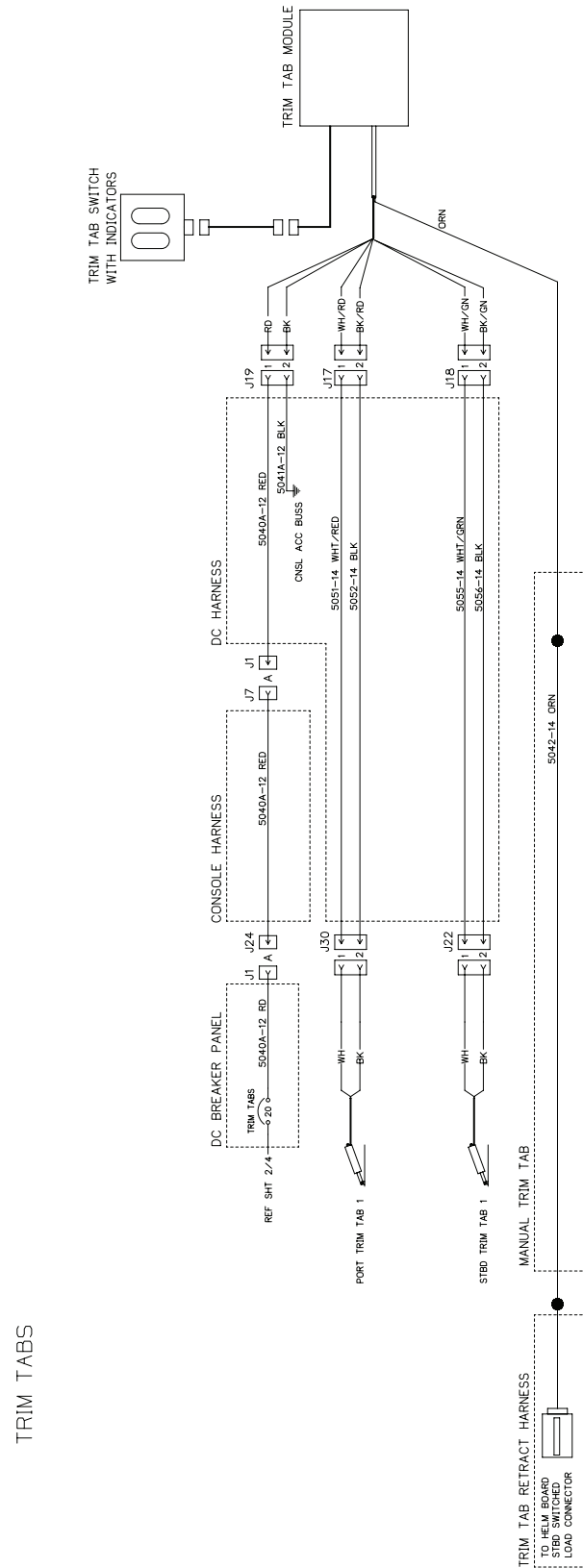
Wiring Schematic
Figure 4.10.1

BREAKER PANEL STD



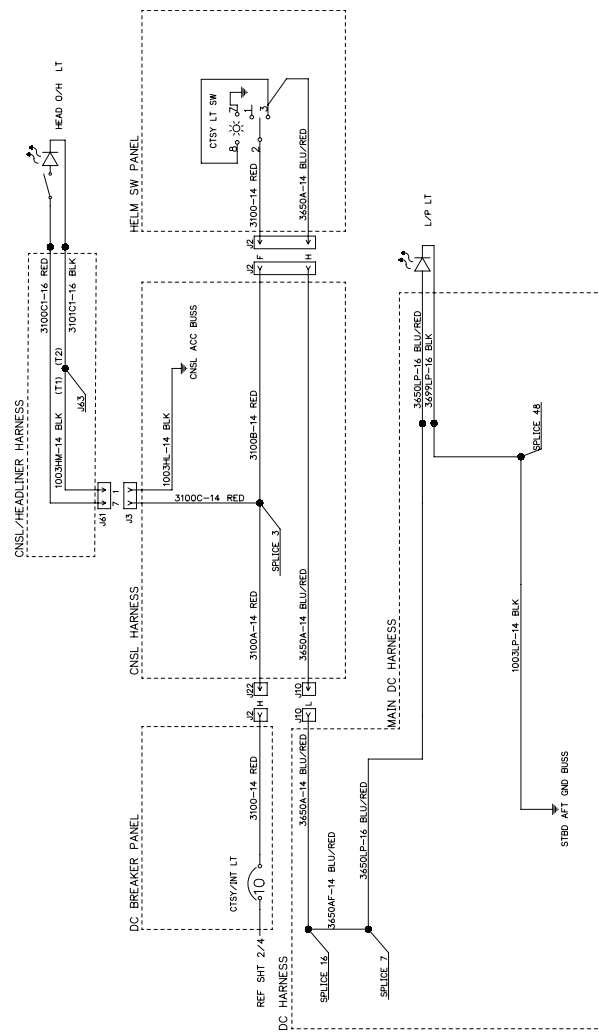
6079-07-401_B

Wiring Schematic
Figure 4.11.1

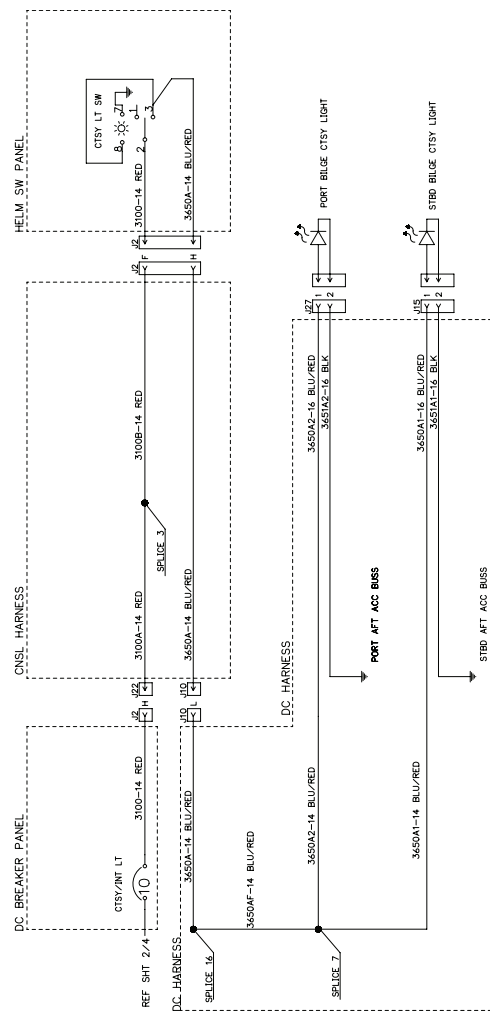


Wiring Schematic
Figure 4.12.1

PORT DECK - L/P - HEAD CTSY LIGHT

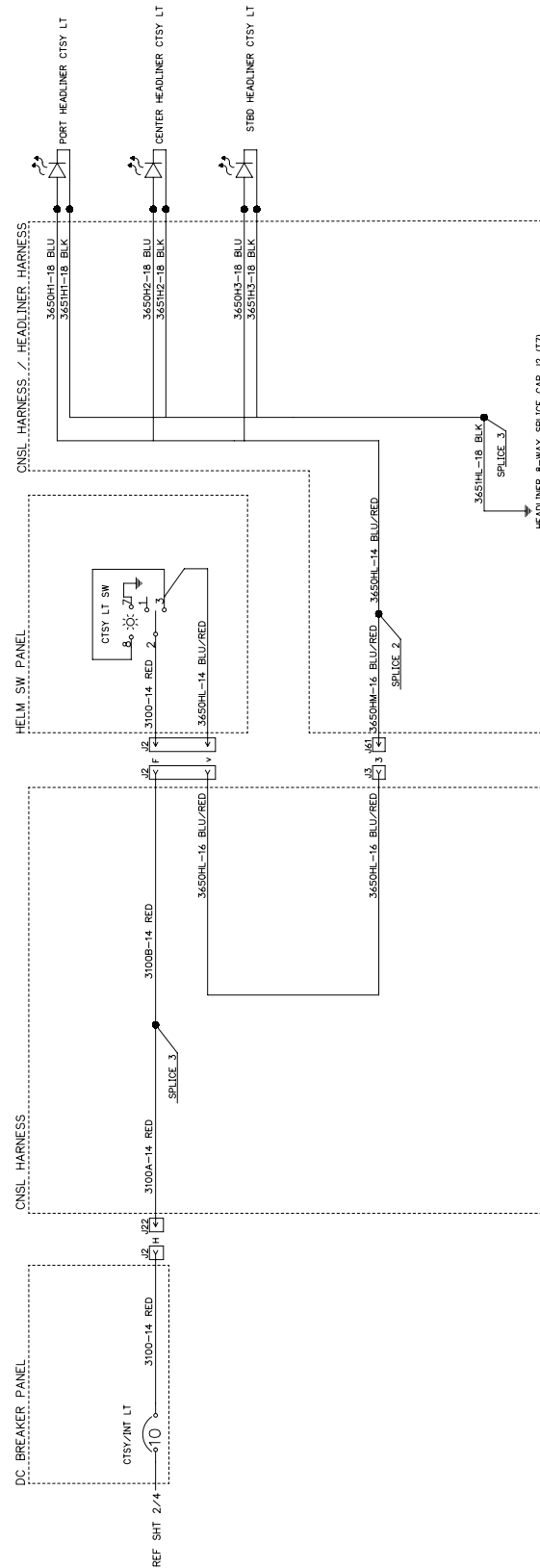


BILGE CTSY LIGHT



Wiring Schematic
Figure 4.13.1

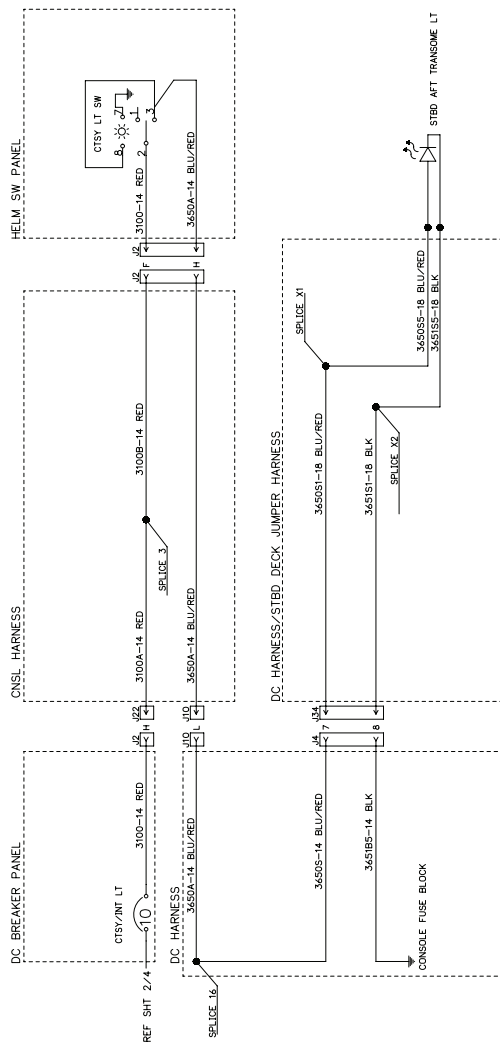
GARAGE CTSY LIGHT & GARAGE DECK CTSY LIGHT



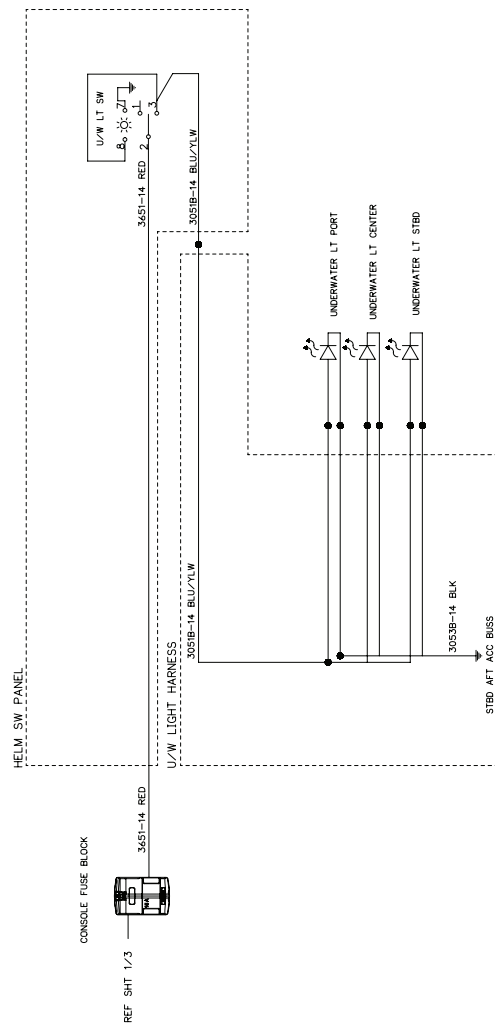
6017-07-401_P

Wiring Schematic
Figure 4.14.1

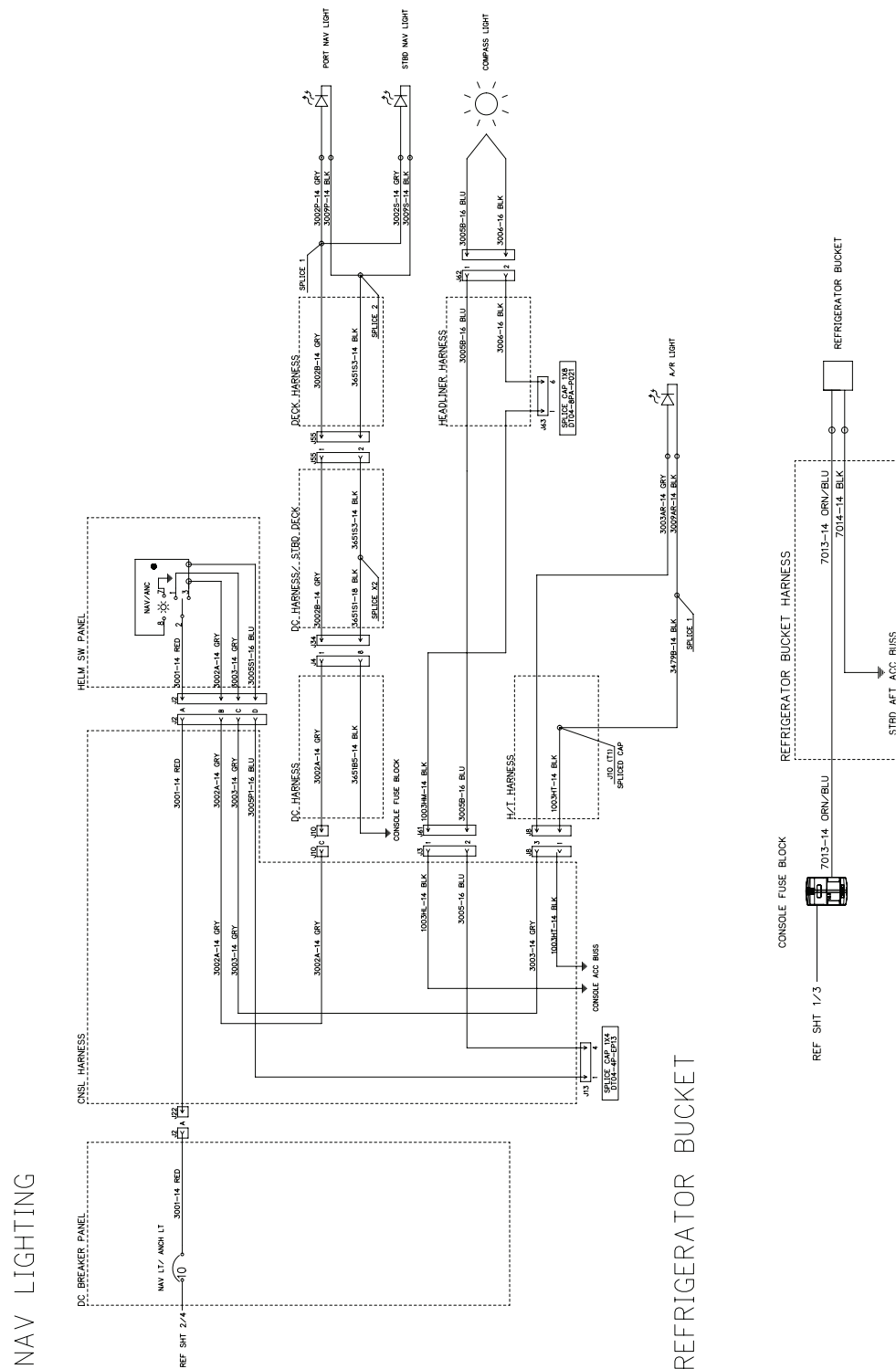
STBD DECK CTSY LIGHT



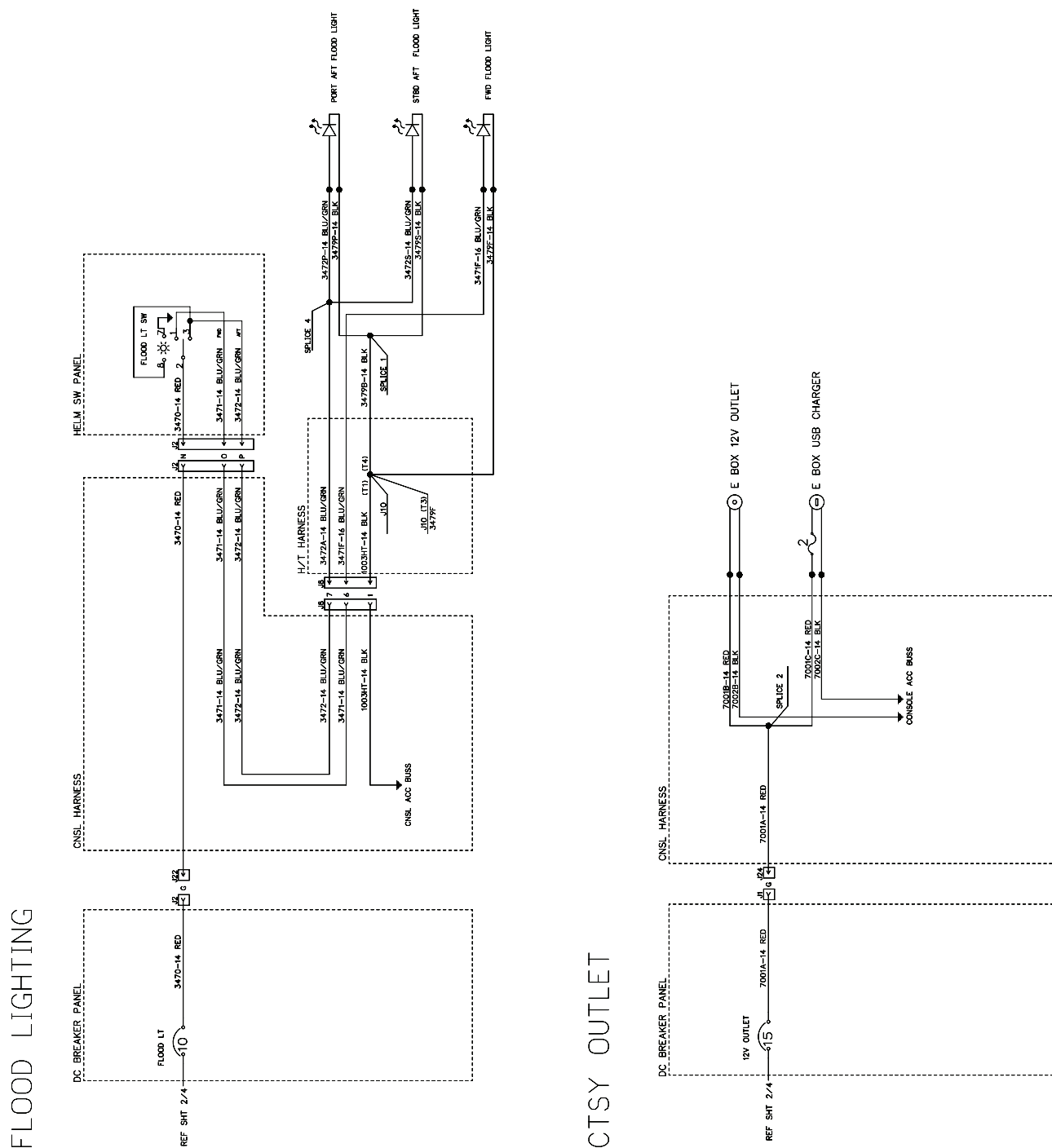
UNDERWATER LIGHT



Wiring Schematic Figure 4.15.1



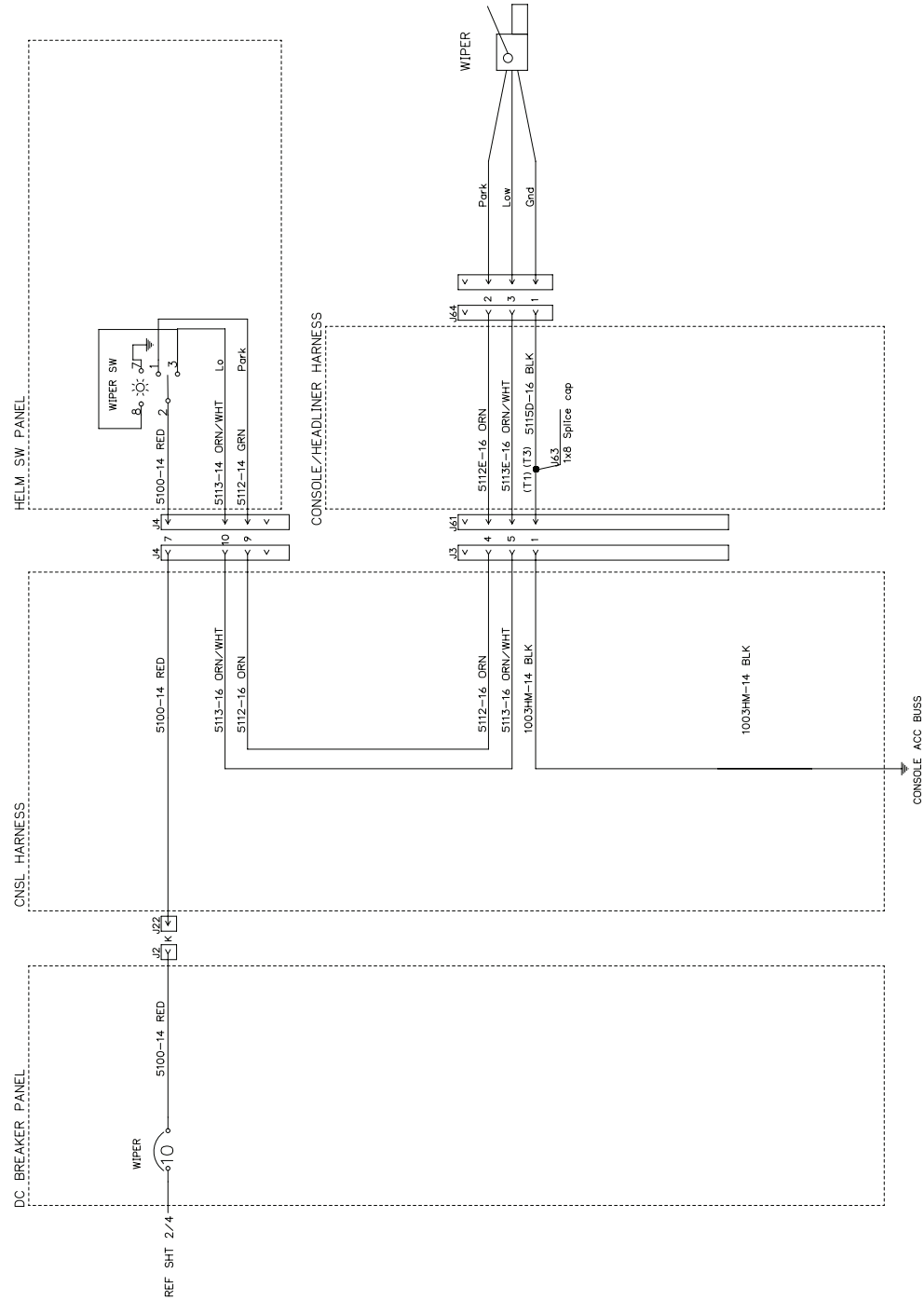
Wiring Schematic
Figure 4.16.1



6017-07-401_P

Wiring Schematic
Figure 4.17.1

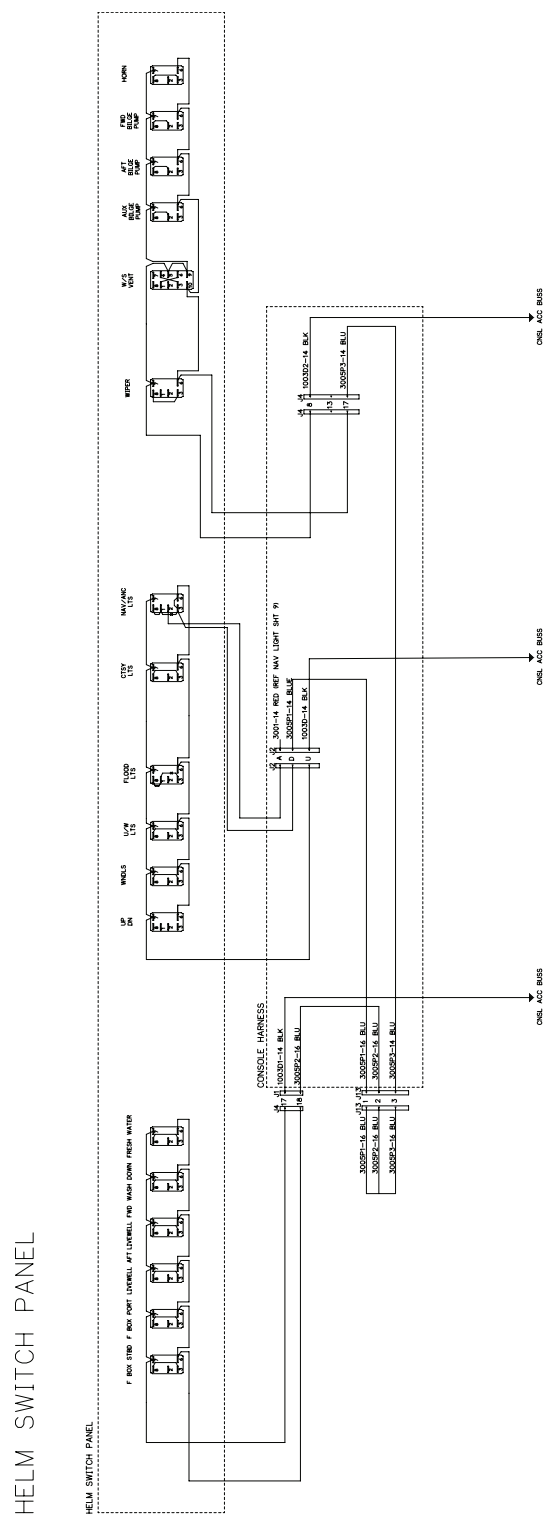
WIPER



6017-07-401_P

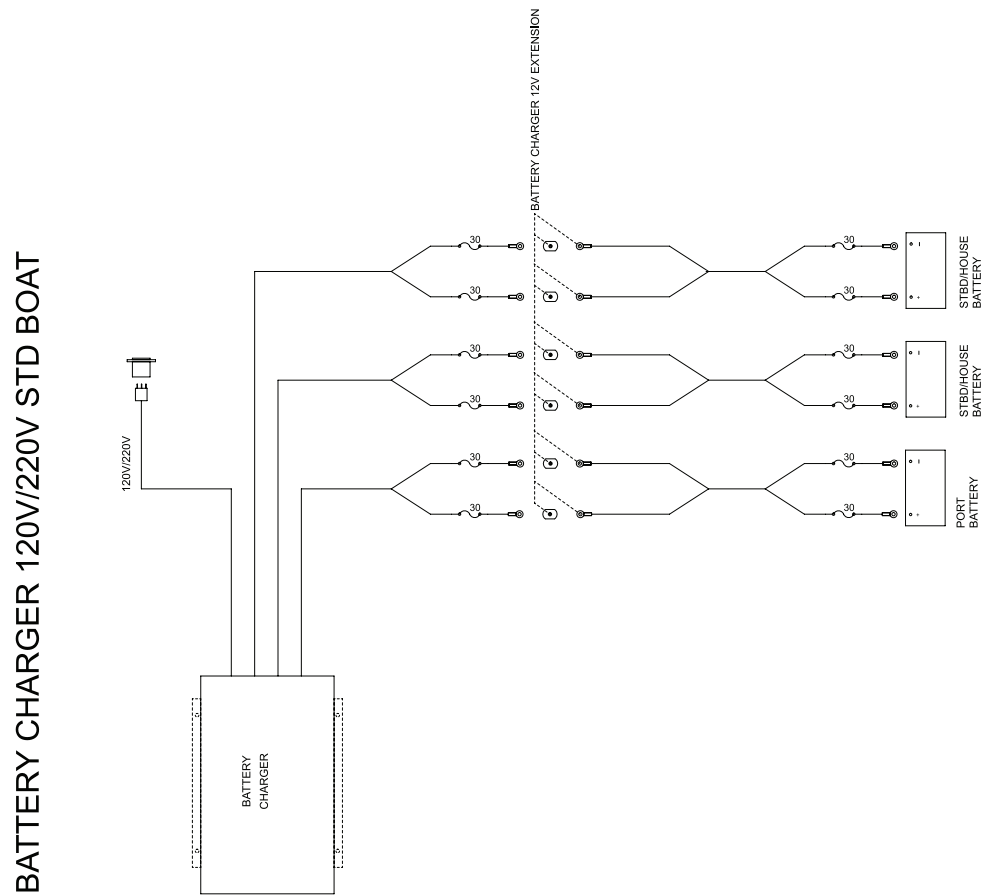
Wiring Schematic

Figure 4.18.1



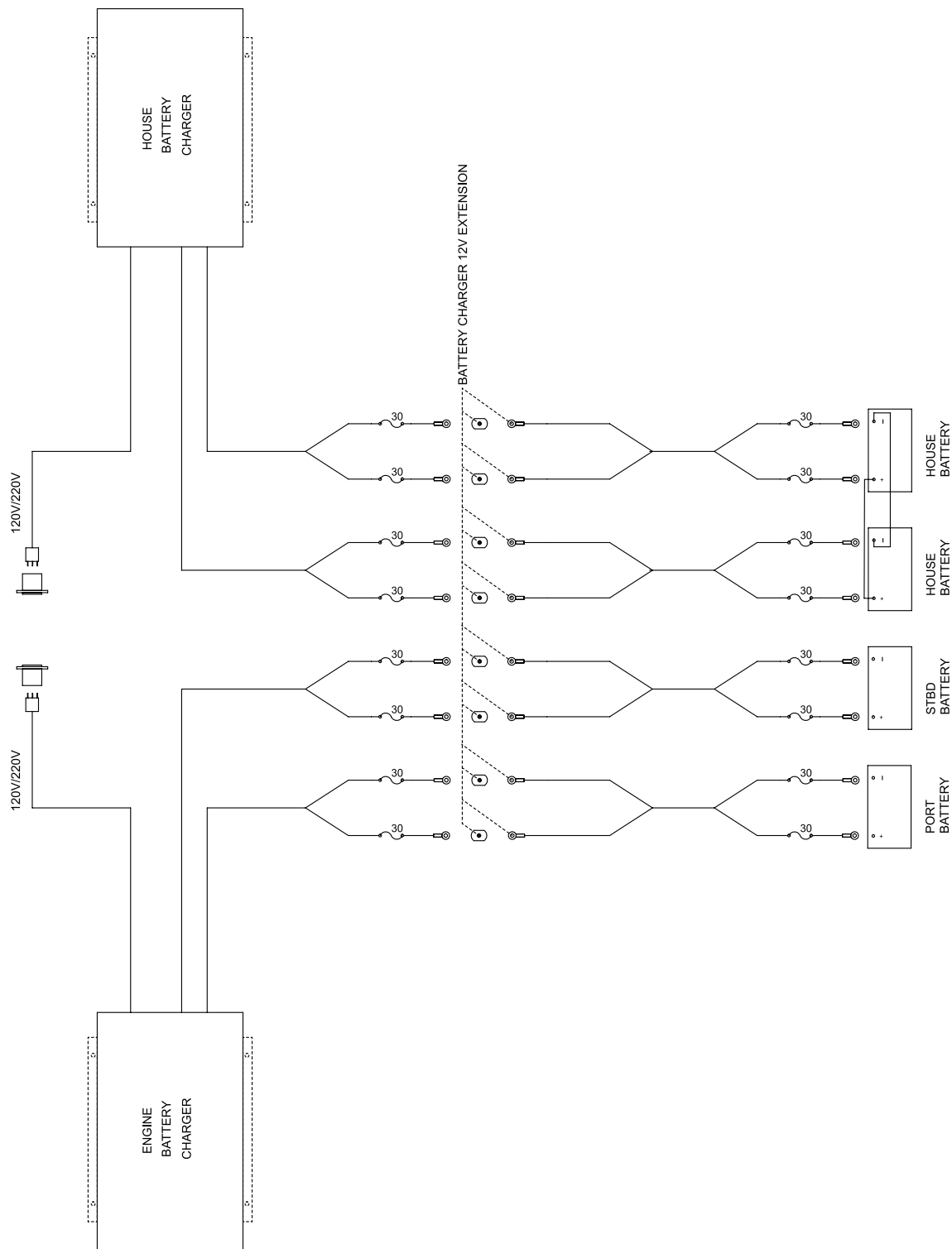
Wiring Schematic

Figure 4.19.1



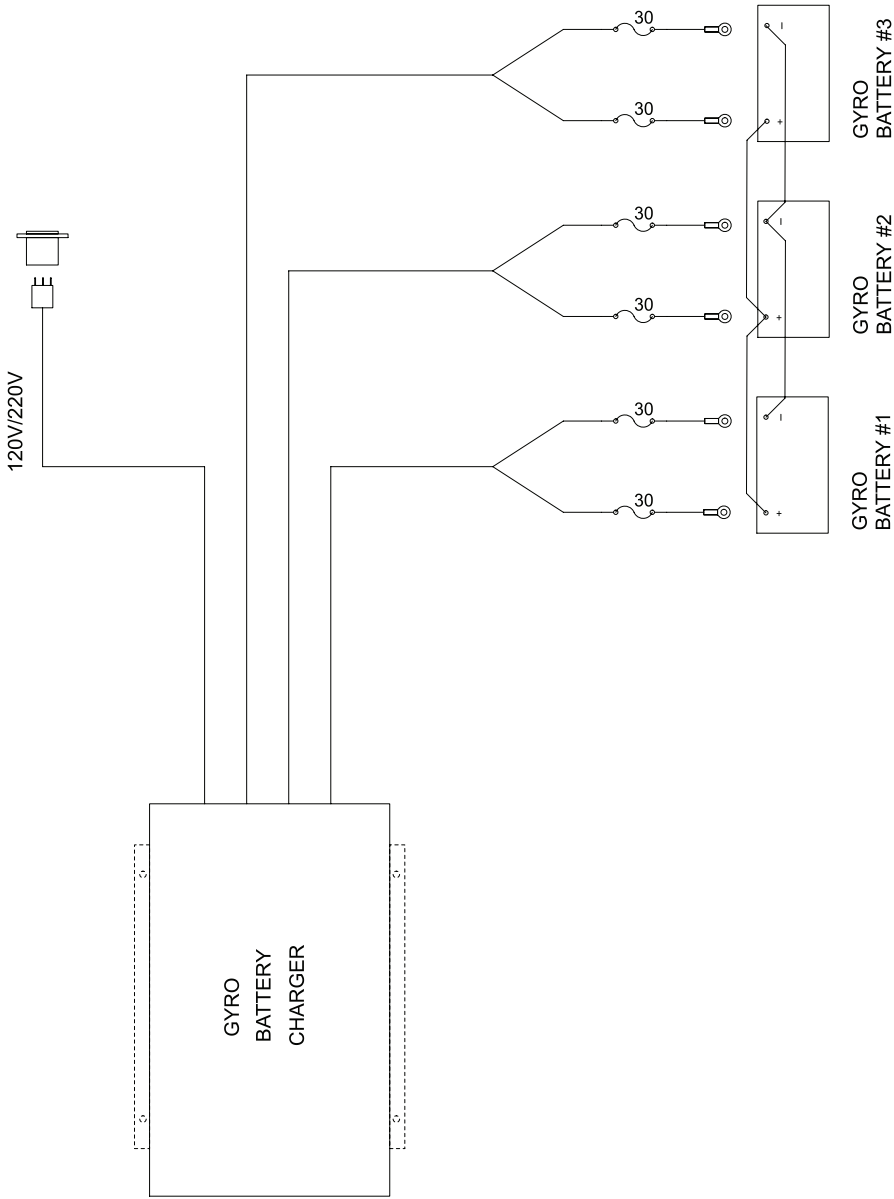
Wiring Schematic
Figure 4.20.1

BATTERY CHARGER 120V/220V JOYSTICK BOAT



6017-07-401_P

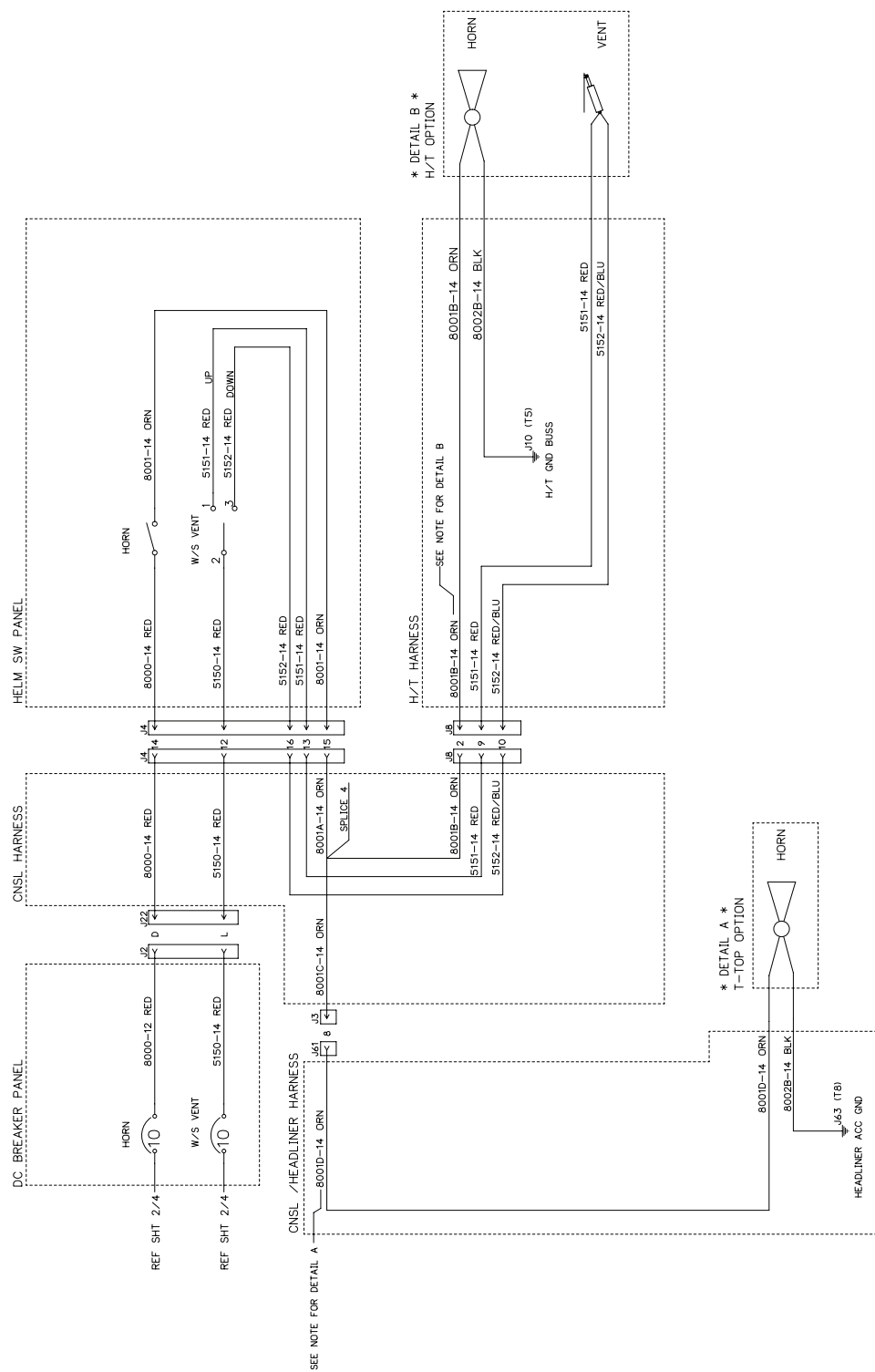
Wiring Schematic
Figure 4.21.1



6017-07-401_P

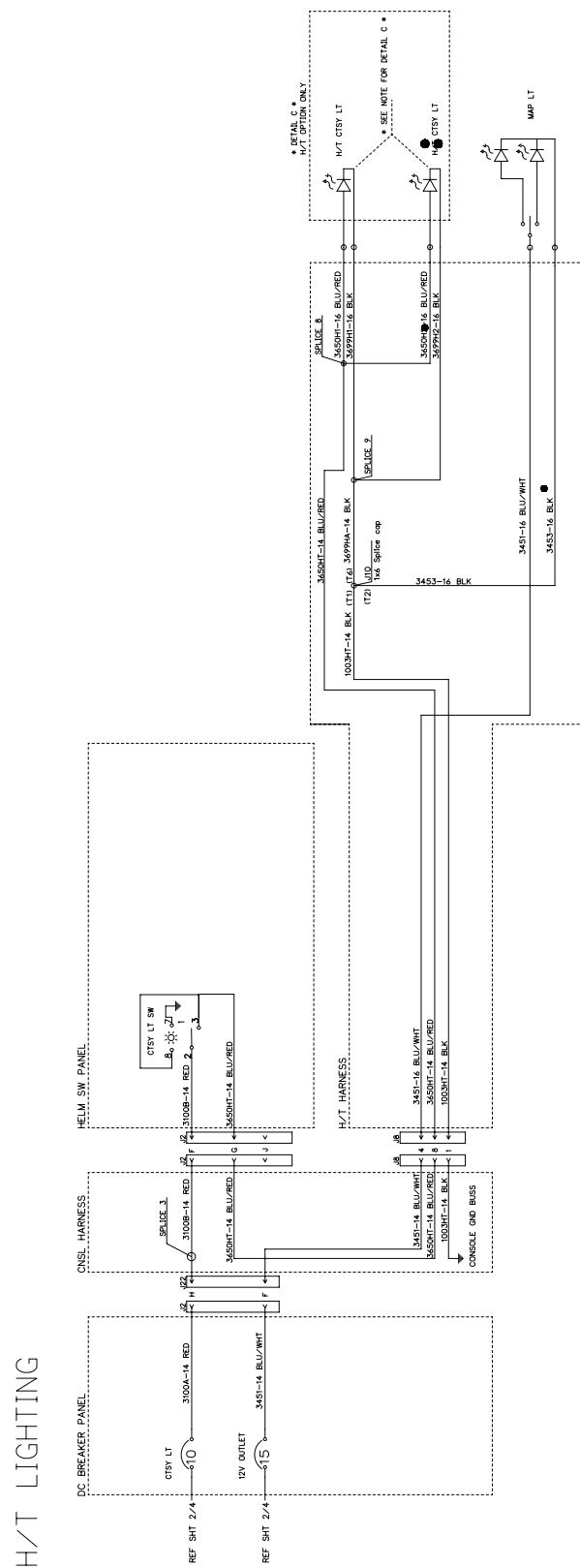
Wiring Schematic
Figure 4.22.1

HORN / VENT



Wiring Schematic

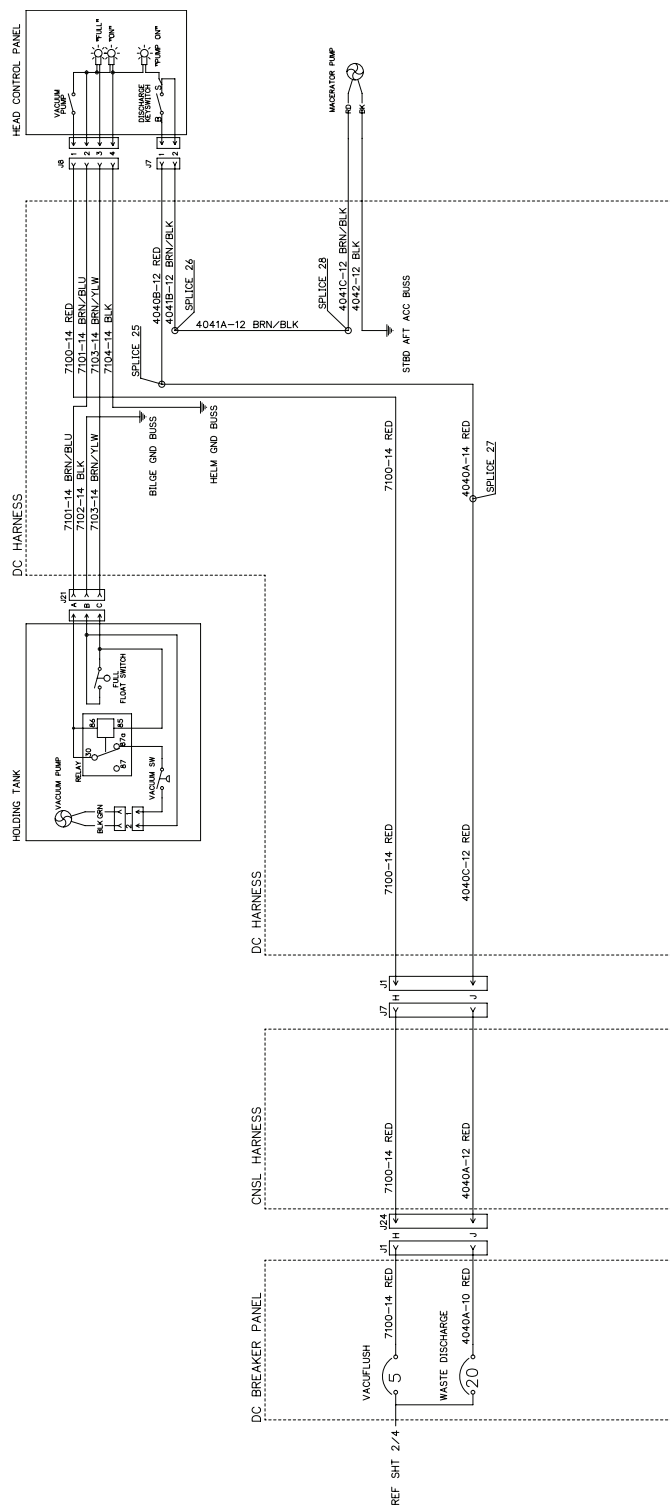
Figure 4.23.1



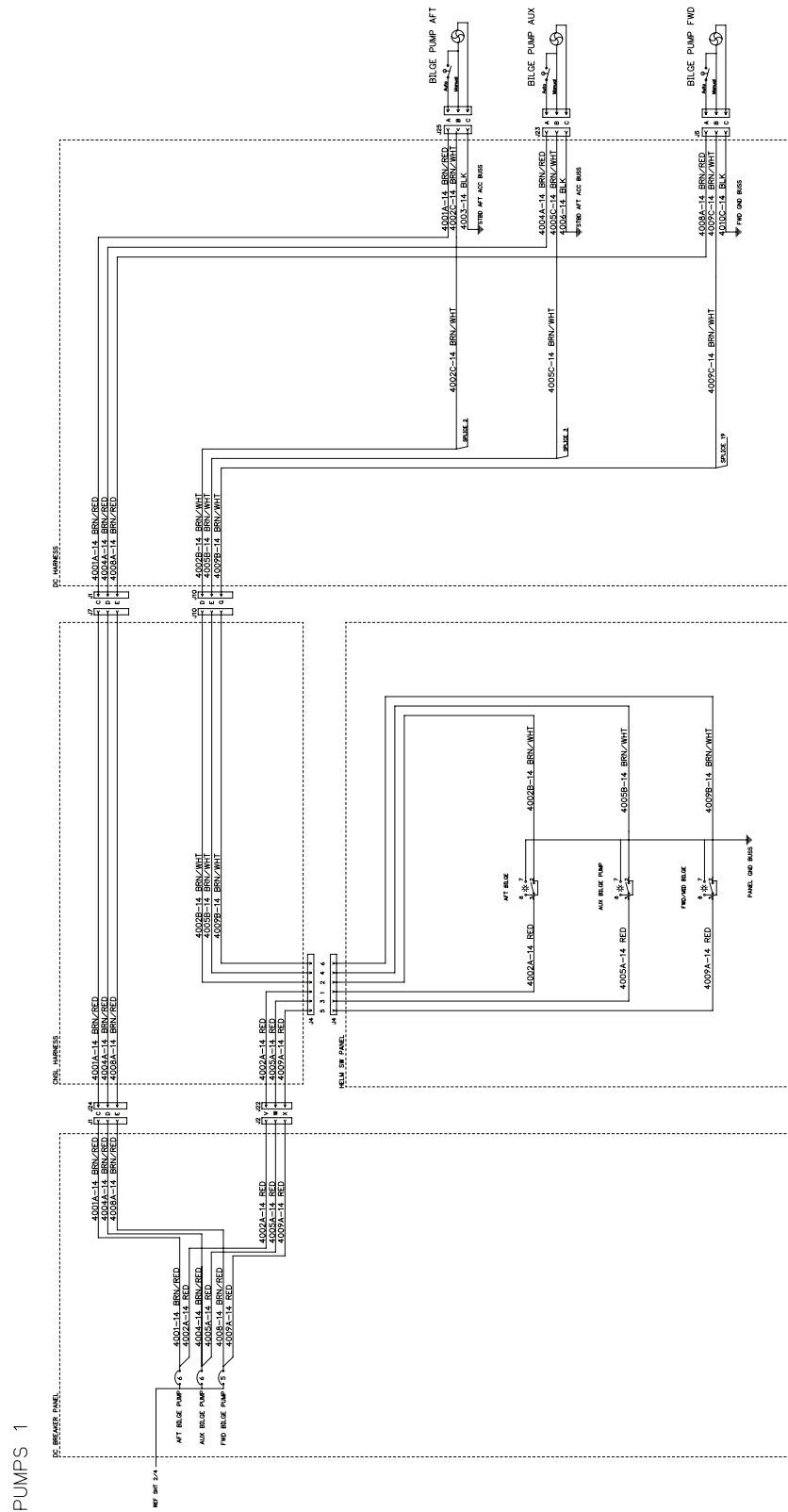
6017-07-401_P)

Wiring Schematic
Figure 4.24.1

WASTE DISCHARGE

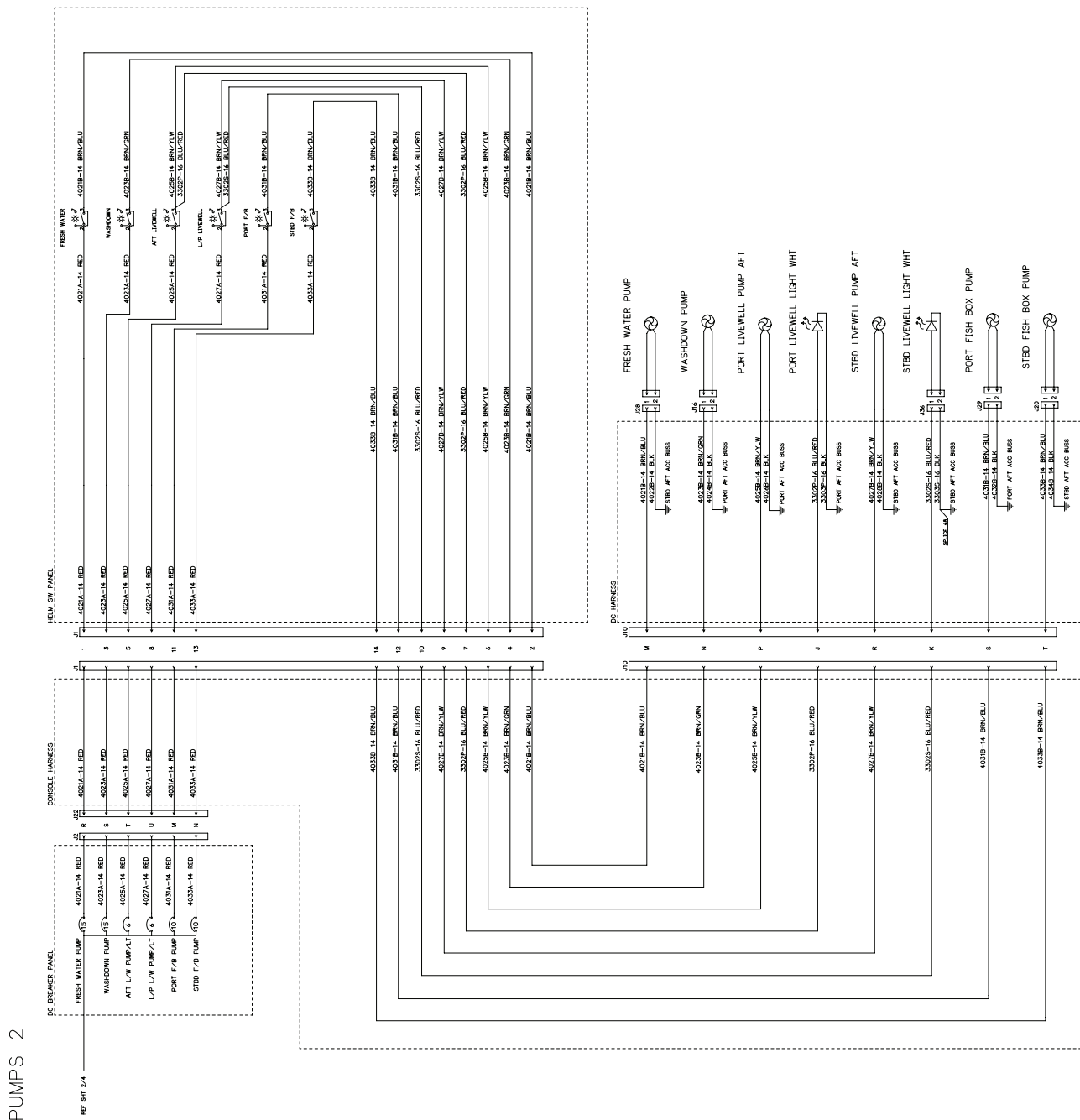


Wiring Schematic
Figure 4.25.1



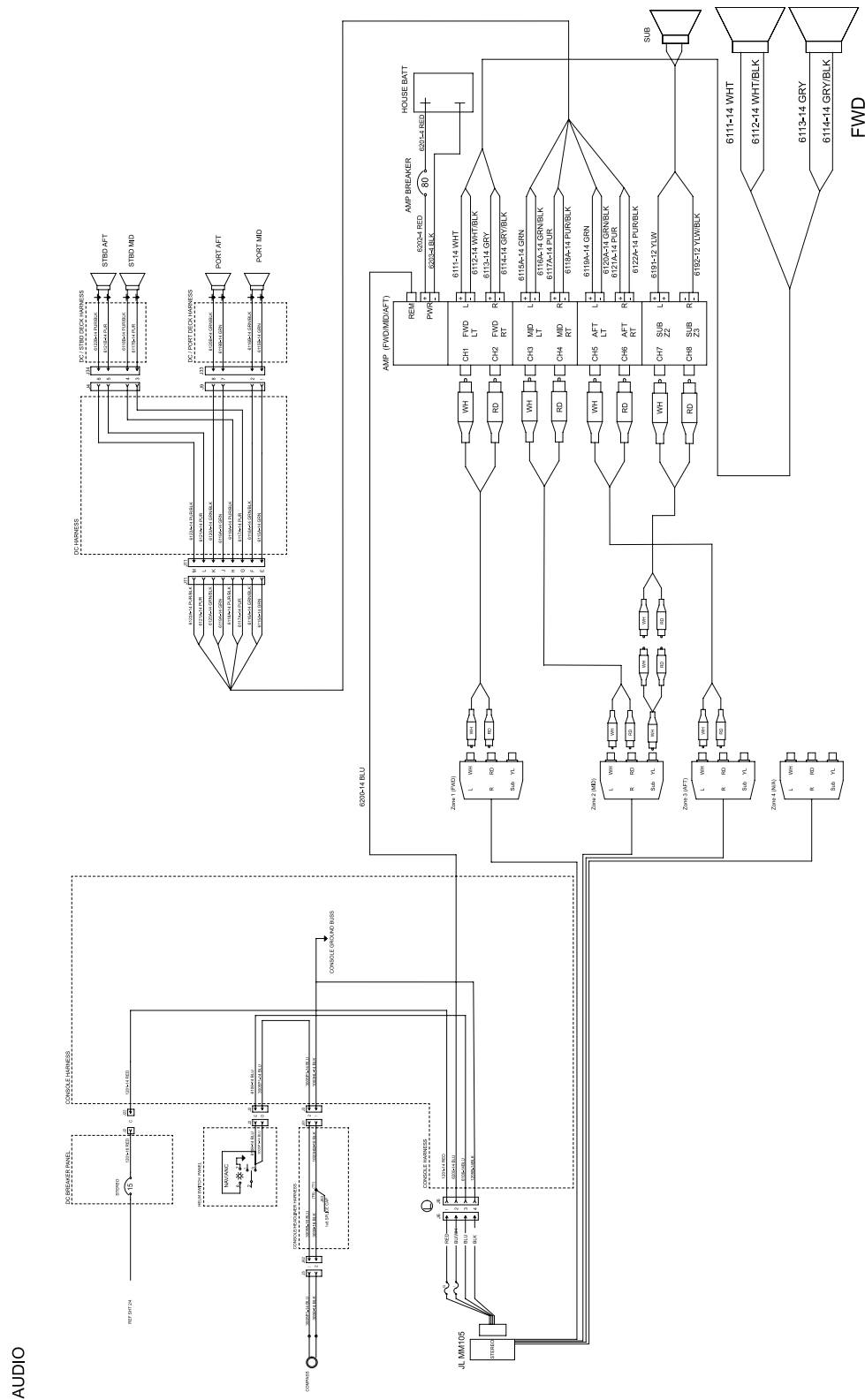
6017-07-401_P

Wiring Schematic
Figure 4.26.1



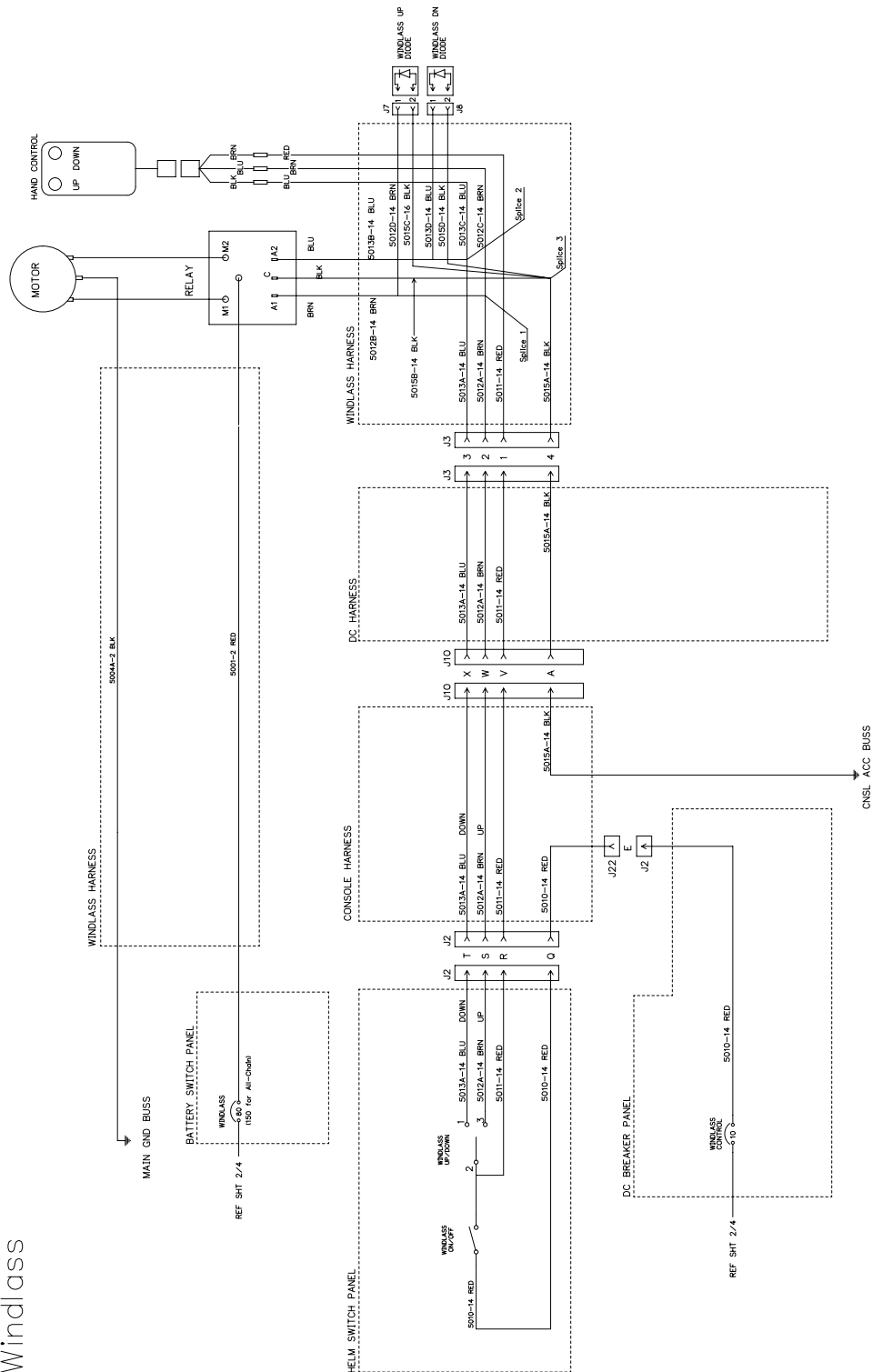
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Wiring Schematic Figure 4.27.1

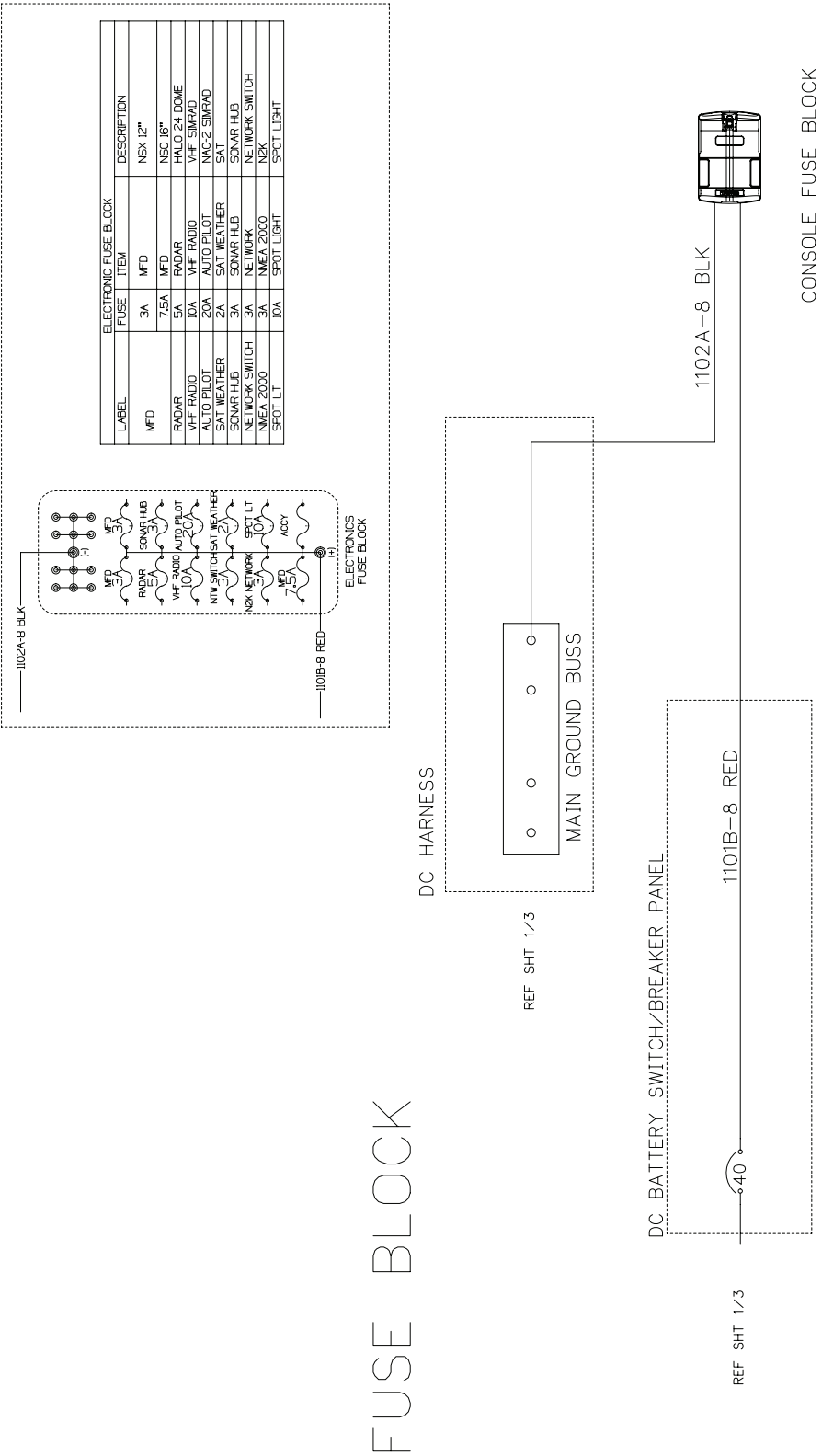


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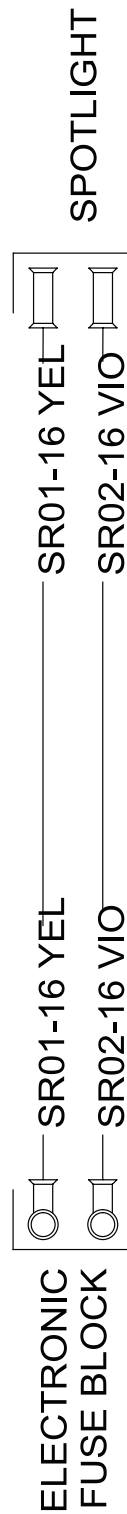
Windlass



Wiring Schematic
Figure 4.29.1



Wiring Schematic
Figure 4.30.1



6017-07-401_P

Routine Care & Maintenance

NOTICE

Refer to the individual manufacturers' manuals for important information regarding service, care and maintenance of your boat, equipment and components. Failure to do so may in some cases void the warranty.

Owner's Manuals for your boat and each of the various components and equipment can be found in your Owner's Manual Packet.

⚠ DANGER

When using solvents read all information from the solvent manufacturer regarding safety and handling of the material.

Wear proper protective equipment to ensure your personal safety.

Only use solvents in a well ventilated area and keep all solvents away from open flame and any other forms of ignition.

Routine inspection, service and maintenance of your boat, boat systems and components are vital to assure your safety, as well as prolonging the life of your boat. You should develop regular routines for inspecting and servicing your boat.

⚠ WARNING IMPORTANT

Regularly inspect & test hardware, fittings, windshields, hatches, seams, etc. for proper seal. Reseal and/or readjust/tighten fittings, latches, etc. as needed.

The interval between necessary service or maintenance is highly variable, depending on the environment in which your boat will be used. For example, corrosion of boat parts and components will occur far more rapidly in a salt water environment than on a boat which is used in fresh water.

This section provides only general guidelines for the care and cleaning of your boat. It is your responsibility to determine whether maintenance and care intervals need to be accelerated due to your boat usage and/or operating environment.

Hull

Freshwater, saltwater and water temperature can all affect the types of growth that you will find on your boat's hull.

Any growth will affect the boat's performance and overall look. If it has been a while between inspections you might notice algae or slime growth on the hull. This can be cleaned with a coarse towel or soft bristle brush. The growth should be cleaned immediately after the boat has been removed from the water. If the growth is allowed to dry it will be much harder to remove.

Compounding may be necessary to remove more stubborn stains and chalking from the surface of your boat. If compounding is necessary it must be done after a thorough washing and prior to waxing.

If the growth is more severe, you may need to enlist the services of a professional hull cleaning company.

Check with your Boston Whaler® dealer for recommendations on a compatible rubbing compound for your boat or a professional hull cleaning company in your area.

Aquatic Invasive Species (AIS)

Aquatic invasive species (AIS) are plants and animals that occur in waters in which they are not native and whose introduction causes or is likely to cause economic or environmental damage or harm to human health. AIS have a negative impact on the waterway, its native species, and recreational and commercial uses of the waterway.

As responsible boaters and citizens, each boat owner should do their part to prevent the spread of these aquatic hitchhikers. In many cases, it is also required by law. Check local regulations for any waterway where you will boat.

After each boating trip, follow these three simple steps before you leave the water access to stop the spread of AIS: Clean, Drain, and Dry. This is the boater's way to help protect the environment from the damage that AIS can cause.

Clean

Inspect and remove all aquatic plants, animals, mud, and debris from the boat, engine, trailer, anchor, and any watersports equipment.

Rinse, scrub or wash, as appropriate, away from storm drains, ditches, or waterways.

Rinse watercraft, trailer, and equipment with hot water, when possible.

Flush motor according to owner's manual.

Drain

Completely drain all water from the boat and its compartments, including but not limited to the bilge, wells, lockers, ballast tanks or bags, bait containers, engines, and outdrives.

Dry

Allow the boat to completely dry before visiting any other bodies of water.

NOTE: Some localities may require inspection or decontamination before and/or after launching. Check state and local laws and regulations for requirements prior to traveling to go boating.

Waxing the Gel Coat Surfaces

Waxing is necessary to provide added protection to the gel coat. A periodic good cleaning and waxing will also ensure that your boat will be protected and look good longer.

NOTICE

Waxing of the exterior surfaces is recommended to be done at least twice a year to protect the gel coat of your boat.

Do not wax over dirt. Make sure the surface of your boat has received a thorough washing and rinsing and is clean before waxing. If a rubbing compound has been necessary, make sure that any minor scratches or surface pitting is cleaned of compound residue. Use a good quality carnauba wax or a high quality wax designed for marine gel coat. Apply several coats.

Hull Maintenance

If using a pressure washer to clean the hull and deck surfaces of your boat it is important that you use the wide fan nozzle only and move the spray head in a continuous motion. Do not concentrate the high pressure on a small area of the boat surface and NEVER use the fine pinpoint nozzle as the concentrated stream can cause damage to the surface of your boat.

It is also recommended that you refrain from pressure washing the console as high pressure may compromise the integrity of the electronics and gauges as well as other equipment installed on your boat. Also avoid pressure washing all caulk seams.

When staining from build-up does occur, use only cleaning agents that are recommended for marine gel coat for use on those stubborn stains.

NEVER use an abrasive cleaner to wash your boat's hull.

NEVER use an abrasive pad to attempt to remove stubborn stains.

NEVER use strong solvents to clean.

NEVER apply tape or any other type of adhesives directly to the painted surfaces on your boat.

Use care when covering your boat's painted surfaces as tarps and other such covers can trap dirt and cause chafing. It is best to use a frame of either aluminum or wood to keep the cover up and allow air to circulate.

Hull Blistering

Due to the quality of the materials used in the hulls of Boston Whalers, blistering is rarely ever seen. Blistering is caused by water soluble materials in the hull laminate. The fiberglass and resin structure of your boat is porous. However, intrusion of water into the gel coat will take some time. The effect of osmotic pressure allows water to impregnate below the gel coat and substrate thus forming a blister.

There have been extensive university studies funded by the United States Coast Guard regarding the cause and effect of blistering in the gel coat of fiberglass boats. Fiberglass blisters can form anywhere from near-surface layers of the gel coat to very deep into the fiberglass structure. The damage can range from cosmetic to catastrophic, (although the latter is a very rare occurrence). The studies seemed to point toward long term immersion of the hull in warm water as a primary cause of hull blisters. Stress cracks on the hull below the waterline also contribute to the formation of hull blisters.

Prevention

There are a variety of ways to prevent the formation of hull blistering. Epoxy coatings can be applied to the hull, followed by hull painting. An alkyd-urethane-silicone marine paint can also be used to aid in the prevention of hull blisters.

Reducing the amount of time that your boat stays in the water also helps prevent hull blisters from forming. Use of a trailer or boat lift will reduce the likelihood of hull blisters forming. Be sure to use a bunk type lift or trailer for storage of the boat out of water.

Contact your Boston Whaler® dealer for more information on the prevention and treatment of hull blisters.

Bottom Painting

DANGER

There are risks and dangers inherent with the use of paints and solvents. Dispose properly of all rags, rollers and trays used for painting. Follow all the precautions and regulations listed by the manufacturer before and after painting your boats hull.

NOTICE

If blisters are present in the hull, they need to be properly cleaned and dried out before any barrier protection can be applied.

CAUTION

Some bottom paints contain metals that can cause corrosion of the outboard engine. Leave a minimum of 3/4" unpainted around all engine parts. Use only a paint specifically designed for aluminum engines as anti fouling protection.

If your boat will spend most of its time in the water, painting the bottom of your boat's hull is a good way to slow the formation of hull blisters and to keep bottom growth (fouling) under control.

If you will be trailering the boat to and from the water, you might want to forgo the painting.

Following is an abbreviated section on painting your hull bottom. Your Boston Whaler® dealer should have information on properly painting your boat's hull or recommendations on businesses that will paint your hull for you.

Zinc Anodes

CAUTION

DO NOT paint over zinc anodes. This action will render them useless and lead to deterioration of the underwater metal parts of your boat.

Sacrificial anodes (zinc) are installed on the trim tabs, and engines of your boat to protect underwater hardware. Zinc, being less noble than copper based alloys and aluminum used in underwater fittings, will deteriorate first and protect the underwater fittings from deterioration.

Bottom Painting a Bare Hull

WARNING

Proper ventilation and capture of the dust created by sanding is essential. The dust created by sanding is toxic and should not be breathed. A proper fitting respirator must be used.

DO NOT use a paper filter mask.

Since the boat has never been painted preparation is the key to successful hull painting. Take extra care and time in preparation before proceeding to paint.

Begin by scrubbing the surface thoroughly with a stiff brush using an all-purpose marine soap and water to remove loose dirt and contamination. Flush with fresh water to remove all soap residue.

Bottom Painting a Pre-Painted Hull

WARNING

Bottom paint is designed to resist algae growth which means it has chemicals embedded in the paint that are harmful if ingested. Take all necessary precautions required before painting or repainting your boat's hull.

NOTICE

Painting your boat's hull will adversely affect the boat's speed and performance and may require re-propping if the maximum engine RPMs drop below the engine model/mfg recommended operating range.

NOTICE

Masking tape is NOT recommended for the types of paint you will be using.

If the hull bottom is already painted, you must be sure to test the paint's adhesion to the already painted surface. If the paints are incompatible, the new paint will not adhere to the hull bottom or the paint will "lift" the old paint. **NEVER** apply paint without first preparing the old painted surface following the paint manufacturer's recommendations.

Follow the paint manufacturer's recommendation for applying the paint. Humidity and weather will play a role in how and when the paint is applied. Several thin layers are better than one thick layer.

To determine the waterline, you will need to place the boat in water with a full load of fuel and gear. Mark the waterline and measure above the marked line 1 to 3 inches for placement of the tape line.

Make sure that there is enough paint left to cover areas that were not accessible, (slings, jack stands etc.) and paint accordingly. Follow the paint manufacturer's recommendation for do's and don'ts after the painting is complete.

Rubrail Care

The rubrail on your boat is constructed of an injected high density PVC vinyl material which laboratory tests have proven to be highly resistant to staining, fading and cracking.

As resilient as this material is, you still need to follow some basic maintenance precautions.

General maintenance requires a thorough cleaning with mild soap & water. **DO NOT** use any cleaning agents which contain chemicals.

Although the outer shell is tough and durable, there

is a chance that it can be breached. Use care when docking or exposing the rubrail to conditions which may cause damage such as docking against heavily barnacle-encrusted pilings.

Some tears (cleanly sliced) can be repaired with a "Super Glue" type product.

Thoroughly clean and dry the affected area. Apply glue and hold the surfaces together.

Areas which have been torn or are affected by heavy abrasion will have to have the damaged section replaced. Please see your Boston Whaler® dealer for this type of repair.

Cleaning Fiberglass & Non-Skid

NOTICE

NEVER use abrasive cleaners, detergents or soft scrub type cleaners to wash your boats surfaces.

NEVER use abrasive pads, brushes or sponges to attempt to remove stubborn stains.

NEVER use strong solvents or detergents which contain chlorine.

To protect your deck and non-skid areas from the deteriorating affects of the sun, oxidation, water spots and pollution, use a good quality "fiberglass and non-skid deck" wax every two to three months.

When applied to your deck and non-skid areas, as recommended by the manufacturer, the wax forms a protective non-slick surface which will keep debris from sticking. Dirt, soot, bird droppings, and even fish blood will rinse right off.

Stainless Steel Care

NOTICE

NEVER use abrasive cleaners, detergents or soft scrub type cleaners to wash your boats surfaces.

NEVER use abrasive pads, brushes or sponges to attempt to remove stubborn stains.

NEVER use strong solvents or detergents which contain chlorine.

NEVER use silver cleaners.

The cleaner your stainless trim and fittings can be kept, the greater the assurance of optimum corrosion resistance. Without proper care even the best stainless steel will corrode.

Stainless steel is strong and corrosion resistant, but still requires maintenance to keep its appearance. Frequent routine cleaning of your stainless steel with a mild soap and water solution and coating with a good grade cleaning wax will help maintain the finish.

- Wash with mild soap and cold or lukewarm water
- Dry THOROUGHLY.
- Apply cleaning wax with a soft, dry cloth.
- Allow wax to dry, then polish and buff.

Even the finest cleaning powders can scratch or burnish a mill-rolled surface. On polished finishes, rubbing or wiping should be done in the direction of the polish lines, NOT across them.

Crevice corrosion, a brownish coloring which occurs where two pieces of stainless hardware meet is caused by impurities in water and air. It can be easily cleaned with a good grade marine polish using a sponge, cloth or small bristled brush (for nooks and crannies).

Teak Maintenance

The teak on this vessel requires some maintenance. Boston Whaler uses both natural teak and coated teak (pre-lacquered). Do not use a steel brush, steel wool, or a pressure washer on the wood. Do not use strong solvents or harsh cleaners on the caulking as these can damage or dissolve the caulk. Depending on the options selected for this vessel, different maintenance options apply:

Let It be (Natural Teak)

Left alone with the elements, teak changes to a silver-grey patina. To maintain, occasionally wash with soap and water. A light sanding every few years keeps the surface smooth; always sand with the wood grain.

Oiling

To retain or increase the darkness of the wood, apply a teak oil. There are numerous products on the market

that provide a variety of different characteristics. Refer to the manufacturer's instructions for proper application.

Lacquering

Applying lacquer to teak may decrease the amount of maintenance required and reduces the risk of mold. Lacquers can be tinted to change the color of the finish and can be mixed with paint thinner to reduce shine. Wood will likely darken when clear lacquer is applied. Carefully research product information to ensure it's suitable for both teak and caulk. Refer to the manufacturer's instructions for proper application.

Coated Teak (Pre-lacquered)

If this vessel has a coated (pre-lacquered) table(s), keep covered when not in use. Be sure to allow for air flow between the table and the cover by inserting a non-marring object between the two. Refer to the manufacturer's instructions for proper care.

Seats (Mechanical Parts)

Always wash metallic parts with soap and water and rinse thoroughly with fresh water. Once dry, apply a light coating of lubricant to protect moving parts.

Check for loose or damaged hardware and tighten or replace as necessary.

Aluminum Care

Preventative maintenance is essential to life of the metals on your boat. The presence of salt particles and moisture is the major cause of white spots, pitting and corrosion.

The use of harsh chemicals can also cause deterioration. Manufacturers and applicators of protective coatings will not warrant protective coatings on metals in the marine environment. Proper owner maintenance is required to reduce deterioration which will result in most cases by failure to wash down and wipe dry after each use and/or the use of abrasive, acidic or other improper cleaners.

Wash completely using a soft cloth and mild detergent to remove salt particles. Hosing alone will not dislodge all particles. Do not allow soap to dry as it may cause stains on coated surfaces. Make sure to wash and dry the full circumference of aluminum parts.

Apply an aluminum protectorate at least twice each year, more frequently as conditions warrant. Neglect will cause pitting of the surface which cannot be reversed.

Inspect and repair or replace all damaged nylon bushings, washers or other hardware designed to prevent contact with dissimilar metals.

Whenever electrical or electronic changes are made to the boat, a qualified marine technician should check aluminum parts for stray currents. Make sure all electronic equipment is properly grounded with adequate sized wire.

Standard Vinyl Cushions

Saltwater, salt residue, dirt and ultra-violet rays will take their toll on vinyl products causing them to lose their luster and texture. To clean standard cushions:

- Remove ordinary dirt and smudges with a mild soap and water solution. Dry with a soft, lint-free cloth or towel.
- More difficult stains can be cleaned using rubbing alcohol. Rinse cleaned area with fresh water and dry with a clean, soft, cloth or towel.
- Seemingly permanent stains like ballpoint ink can be cleaned with active solvents such as nail polish remover when applied with a soft cloth or damp sponge and rubbed. Rinse cleaned area with fresh water and dry with a clean, soft, cloth or towel.



CAUTION

Wear rubber gloves when using any solvents. Use caution when cleaning around buttons, stitching, and wooden or decorative trim as solvents could seriously damage such areas.

REFER TO THE OWNER'S PACKET FOR COMPLETE INSTRUCTIONS AND WARRANTY INFORMATION.

Cool Technology Vinyl Cushions (Option)

If this vessel is equipped with cool technology vinyl seat cushions, clean this material per the manufacturer's instructions at <https://spradling.group/en-sm>

Water Exposure

Boat cushions are not waterproof and will absorb and hold water. Do not leave the cushions in standing water or exposed to heavy, prolonged rain. If cushions become waterlogged, remove the foam from the cushion, press out as much water as possible from the foam and allow to air dry. To prevent mildew, keep the vinyl dry and make sure that moisture does not accumulate between the cushions.

Cleaning Your Instrument Gauges

When gauges are exposed to a saltwater environment, salt crystals may form on the bezel and plastic covers. Remove the salt crystals with a soft damp cloth. Clean with a mild household detergent or plastic cleaner.

Never use abrasives or rough, dirty cloths to clean plastic parts. A mild household detergent or plastic cleaner should be used. Wipe clean with a damp chamois.

FOR MORE INFORMATION, CONTACT MERCURY MARINE CUSTOMER SERVICE AT 1-920-929-5040

Canvas Care and Maintenance

NOTICE

DO NOT use detergents, bleach or solvents to clean your canvas.

To keep your canvas and metal parts in good working condition and in good appearance, you will need to keep them clean.

The fabric should be cleaned regularly before substances such as dirt, pollen, etc. are allowed to accumulate on and become embedded in the fabric. The canvas can be cleaned without being removed from the installation.

Chafing, fiber wear from dirt and grit and deterioration from ultraviolet light can cause your canvas to degrade over time.

Maintaining Appearance

- After each use, especially if used in salt water areas, rinse the canvas completely with fresh cold water.

On a regular basis:

- Brush off any loose dirt, pollen, etc.
- Hose down with fresh cold water and clean with a mild solution of a natural soap in lukewarm water (maximum 100°F / 38°C).
- Allow the canvas to soak. Do not allow the soap to dry.
- Rinse thoroughly with fresh water.
- Let the canvas dry completely. Do not store any of the canvas pieces while wet.

The effects of ultraviolet light can sometimes be reduced by chemical treatment of canvas items.

Consult your Boston Whaler dealer or check your canvas manufacturer's manual before using any chemical treatments on your canvas.

Cleaning Stubborn Stains

Soak fabric for approximately twenty minutes in a mild solution consisting of no more than 1/2 cup (4 oz.) of bleach and 1/4 cup (2 oz.) of natural soap per gallon of lukewarm water (not to exceed 100° F / 38° C).

Rinse thoroughly in cold water several times. Allow the fabric to air dry completely.

NOTICE

Failure to remove all of the soap solution can cause deterioration of seams and prevent fabric from proper retreating.

Retreat the fabric using an air curing product such as 303 High Tech Fabric Guard to ensure water and stain repellency.

All canvas should be stored flat or rolled in a clean, dry space.

Maintaining Zippers and Hardware

NOTICE

DO NOT use petroleum based products, such as petroleum jelly, on the zippers or fasteners.

Lubricate zippers and fasteners periodically with a clear silicone spray. In the absence of silicone spray, a wax candle can be used to lubricate the zipper track.

Replace any missing fasteners or any fasteners showing signs of corrosion.

Cleaning Acrylic Windscreen

NOTICE

Never use a dry cloth or duster or glass cleaning solutions on acrylic.

DO NOT use solvents such as acetone, silicone spray, benzine, carbon tetrachloride, fire extinguisher fluid, dry cleaning fluid, lacquer thinner, glass cleaning solution or harsh detergents on acrylic.

The above substances will attack the surface of the acrylic.

The use of a polycarbonate protective cleaner/restorer is recommended to keep your acrylic scratch resistant, clean and minimize the deteriorating effects of sunlight. Do not use detergents. The procedure is as follows:

1. Rinse windscreen thoroughly with clear water to remove any dust, dirt particles, salt water or environmental agents before applying cleaning products.
2. Use your bare hand, with plenty of water, to feel and dislodge any stuck-on dirt or foreign particles.
3. This should be done frequently to avoid build up of salt water, dirt and other environmental contaminants.
4. Using a soft non-abrasive cloth, wash windows inside and out with a mild soap (Woolite, Joy, Palmolive, etc.) and water solution. Rinse completely with cool water.
5. Blot dry with a soft cloth or chamois to prevent water spots.

Long Term Storage & Winterization

Long periods of storage, winter lay-up and/or non-use, common to boats, create unique problems. When preparing to store a boat for extended periods of two months or more it is best to make sure that the boat and its systems are properly conditioned for such extended periods of non-usage.

The guidelines presented on the following pages give basic instructions on “winterizing” your boat and boat systems. If inexperienced with the process of winterization it is best to hire the services of a professional.

In addition, always consult the owner’s manuals of the various systems and equipment on your boat for the manufacturer’s recommendations on winterizing and long term storage.

Engine



CAUTION

Never start or run your outboard (even momentarily) without having water circulating through the cooling water intake holes in the gear case. This will prevent damage to the water pump (running dry) or overheating of the engine.

Protecting your engine’s vital moving parts from corrosion and rust caused by freezing of trapped water or excessive condensation due to climatic changes is very important. Freezing water in the engine can cause extensive damage to the internal moving parts. Internal engine parts can also be affected by rust due to lack of proper lubrication

- Replace the engine oil and filter, running the engine to drain out as much old oil as possible.
- Flush the engine with fresh water using flush muffs or a similar device attached to the raw water pickup.
- Let all water drain from the engine.
- Fog the engine while it is running. Spray until it stalls.
- Run fuel which has been treated with conditioner and stabilizer through the engine.

- Replace lower unit gear oil. Check for moisture in old oil, a sign of deteriorating seals.
- Remove the prop and grease the shaft and threads.
- Treat all grease fittings with the recommended lubricant.
- Lightly lubricate the exterior of the engine or polish with a good wax.
- Check engine mount bolts. Ensure that they are torqued to 55 ft/lbs.

In addition, be sure to follow all recommendations in your engine manufacturers operation manual.

Fuel System

NOTICE

Pay particular attention to the information provided in “Ethanol-Blended Fuel” in section 3 of this manual.

Tank(s), hoses, and fuel pumps should be treated to help prevent the formation of varnish and gum.

Temperature extremes will cause condensation to accumulate in an empty or partially filled fuel tank leading to fuel contamination and/or premature wear of your system.

Fill the tank completely (100%) full and add fuel stabilizer and conditioner, following the manufacturer’s recommendations, to provide fuel stability and corrosion protection.

Electrical System

- Check all connections and tighten if necessary.
- Spray connections with an anti-corrosion spray.

Battery

NOTICE

Remove battery from boat and store in a cool, dry location. Periodically check the battery during storage.

NOTICE

Follow the manufacturer's recommendations for long term storage of your battery(s).

- Disconnect the battery cables (negative cable first).
- Remove the battery from the boat.
- Clean the terminal ends of the cables and battery terminals with a solution of baking soda and water. Rinse thoroughly with clean water.
- Apply a coat of grease on the terminal ends of the cables and the battery terminals.
- Store the battery in a cool, dry area.
- Use a trickle charger to keep the battery charged or charge the battery every 30-60 days.

Deck

Clean the deck with soap, hot water and a stiff brush to clean up any oil spills.

Drainage

It is important to raise the bow of the boat enough to allow for proper drainage of water from the deck and bilge area. Make sure all the drainage fittings are clear and free of debris and plugs are removed. Store the engine in an upright position to promote adequate drainage of water.

Avoid Loss

Remove any valuables or anything that can be easily removed from the boat such as electronics, lines, PFDs, fenders, cushions, etc. and store at home.

Cover

NOTICE

DO NOT USE a bimini top in lieu of a cover. Damage and aging will occur while providing no protection for your boat.

When covering your boat it is best to use a frame of either aluminum or wood to keep the cover up. This allows air to circulate and discourages water from pooling on the cover.

Vents along the entire length of the cover will allow condensation to escape. Placing a series of foam pads between the hull and cover will also aid in air circulation and reduce condensation.

To help keep your boat dry and mildew free, consider placing commercial odor and moisture absorbing products in the boat under the cover.

Trailer Storage

Repeatedly immersing the trailer in water during boat launching can cause a variety of problems. Water seeping into the wheel hubs will cause the grease to emulsify and can prematurely corrode the bearings.

Check with the trailer manufacturer for scheduled maintenance of your trailer.

Environment

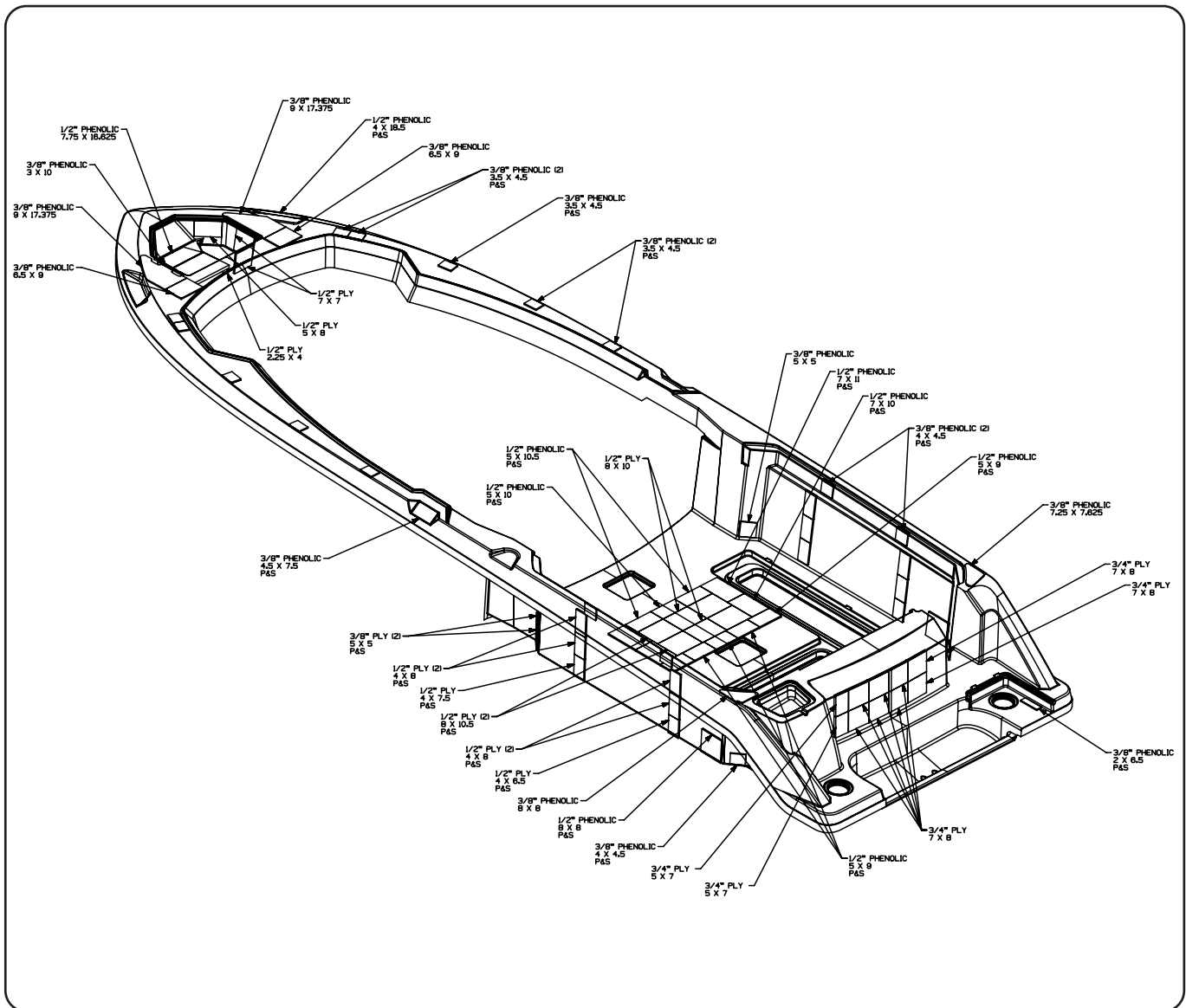
Antifreeze and other winterizing fluids can be toxic to aquatic life and cause harmful effects to plant life.

Improper disposal of, or spillage of antifreeze and/or any winterization fluids can cause environmental problems when allowed to empty into waterways or on the ground. Furthermore, it is illegal, punishable at minimum by fines.

Used antifreeze or any winterization fluids, should not be disposed of into sanitary sewers or publicly owned treatment plants.

Persons who have any questions regarding recycling antifreeze or other toxic fluids should write or call their state's EPA office.

Reinforcement Location Diagram



Reinforcement Locations

Your boat has been manufactured with reinforcement in various locations throughout the deck.

In the event you wish to add equipment to your boat which requires you to penetrate the deck with fasteners, the diagram above illustrates the size, location and type of the reinforcement available. The

CAUTION

DO NOT attempt to secure equipment in any location other than those that are illustrated.

chart below provides a description of the material and recommended fasteners to secure your equipment.

Reinforcement	Construction	Equipment weight	Fastener Type*
Plywood	Standard boat building material	Light	Self-tapping screws
Trevira	Thick spunbound polyester fabric	Light	Sheet Metal screws
Sparalloy	High density plastic	Medium	Self-tapping screws
Phenolic**	Fiberglass reinforced composite board	Heavy	Drill & Tap

* In all cases it is recommended to drill and countersink a pilot hole to prevent damage to the gelcoat surface.
 **Also known as Whaleboard