

# Commissioning Checklist 230/270 Vantage

Dealer \_\_\_\_\_ Engine Model \_\_\_\_\_

Model \_\_\_\_\_

HIN \_\_\_\_\_

Trailer Serial Number \_\_\_\_\_

## 1. Administrative Review

- ☐ Bill of Sale
- Registration(s)
  - ☐ Boston Whaler, Mercury, Trailer, State, Federal
- Review Owner's manuals
  - ☐ Boston Whaler, Mercury, Trailer, Components
- Review Warranties
  - ☐ Boston Whaler, Mercury, Trailer, Components
- Review Maintenance Schedules
  - ☐ Boston Whaler, Mercury, Trailer, Components
- Other
  - ☐ Review and explain all warning/precaution placards
  - ☐ Review ethanol fuel precautions
  - ☐ Review California Proposition 65 Notification (California residents only)
  - ☐ Introduce Dealer Sales, Parts and Service Personnel

## 2. Pre-launch Review

### Boat

- |   |   |
|---|---|
| <input type="checkbox"/> Battery(ies), switch operation/theory              | <input type="checkbox"/> Interior/Exterior inspection of boat       |
| <input type="checkbox"/> Battery(ies) meet Mercury's AGM & CCA requirements | <input type="checkbox"/> NAUTIC-ON operation/system transfer*       |
| <input type="checkbox"/> Beach Boarding Ladder                              | <input type="checkbox"/> NAUTIC-ON battery sensor(s)*               |
| <input type="checkbox"/> Bow filler operation                               | <input type="checkbox"/> Navigation/Anchor lights                   |
| <input type="checkbox"/> Cabin/cockpit lights operation                     | <input type="checkbox"/> Port lounge seat operation                 |
| <input type="checkbox"/> Check engine oil level                             | <input type="checkbox"/> Powder coating maintenance                 |
| <input type="checkbox"/> Circuit breakers                                   | <input type="checkbox"/> Safety Lanyard/Emergency cut-off switch    |
| <input type="checkbox"/> Colored hull maintenance                           | <input type="checkbox"/> Seating locations                          |
| <input type="checkbox"/> Corrosion Protection                               | <input type="checkbox"/> Shore power/battery charger operation      |
| <input type="checkbox"/> Drain plugs placements                             | <input type="checkbox"/> Ski pylon operation                        |
| <input type="checkbox"/> Engine flushing procedures                         | <input type="checkbox"/> Stereo/MP3/Satellite stereo operation      |
| <input type="checkbox"/> Fire Extinguisher                                  | <input type="checkbox"/> Sun top deployment, storage and trailering |
| <input type="checkbox"/> Fueling procedures                                 | <input type="checkbox"/> Swim ladder operation                      |
| <input type="checkbox"/> Grill/inverter operation                           | <input type="checkbox"/> USCG/Safety equipment                      |
| <input type="checkbox"/> Helm Seat Cover                                    | <input type="checkbox"/> Windlass operation                         |
| <input type="checkbox"/> Helm seating operation                             | <input type="checkbox"/> Windshield walkthrough operation           |

\* 270 Vantage model only

## Trailer

- |                          |   |                          |                                  |
|--------------------------|---|--------------------------|----------------------------------|
| <input type="checkbox"/> | Bunks properly adjusted                   | <input type="checkbox"/> | Trailer ball size reviewed       |
| <input type="checkbox"/> | Engine trailer position                   | <input type="checkbox"/> | Winch and strap                  |
| <input type="checkbox"/> | Lights/brake function reviewed            | <input type="checkbox"/> | Wire harness connection reviewed |
| <input type="checkbox"/> | Lug nuts tight                            |                          |                                  |
| <input type="checkbox"/> | Safety chains/tie downs properly adjusted |                          |                                  |
| <input type="checkbox"/> | Swing tongue/tongue weight reviewed       |                          |                                  |
| <input type="checkbox"/> | Tires properly inflated                   |                          |                                  |

## 3. Sea Trial Orientation

- ☐ Bilge pump
- ☐ Engine trim and tilt operation/theory
- ☐ Fishfinder/GPS/Chartplotter operation
- ☐ Fresh water operation
- ☐ Gauge function and explanation
- ☐ Livewell(s) operation
- ☐ NAUTIC-ON app operation\*
- ☐ Onboard alarms and interpretations
- ☐ Overboard discharge procedures and regulations
- ☐ Portable head system operation
- ☐ Raw water operation
- ☐ Sea cock(s)
- ☐ Starting procedures
- ☐ Trim tab operation/theory
- ☐ VHF operation
- ☐ Windlass
- ☐ Windshield wiper operation

\* 270 Vantage model only

## 4. Boston Whaler Owner's Club

Email Address \_\_\_\_\_

The topics, features and options above have been thoroughly explained to me and I am satisfied that the dealership's representative has fulfilled his/her responsibilities with regard to these items.

\_\_\_\_\_  
Customer Name (print)

\_\_\_\_\_  
Dealer Representative (print)

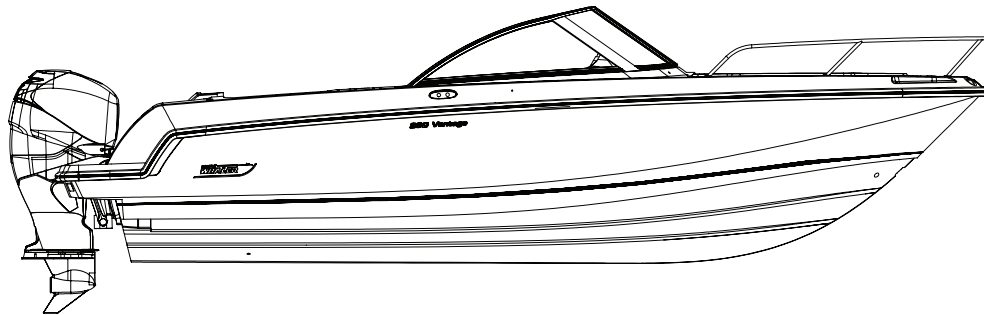
\_\_\_\_\_  
Customer Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Dealer Representative Signature

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# ***230 VANTAGE***



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

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## 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](http://www.P65warnings.ca.gov/marine)**.



Welcome to the Boston Whaler family! Congratulations on your purchase of a Boston Whaler boat.

For over 50 years now, Boston Whaler has been represented by a select group of the best dealers in the boating industry. Boston Whaler depends on this extremely qualified network of dealers to provide you, our customer, with a truly exceptional boating experience.

Should you have any questions or concerns regarding your boat, please don't hesitate to contact your selling dealer. They will be more than happy to provide you with all the information and assistance that you require.

Information and assistance is also available at our corporate website, [www.bostonwhaler.com](http://www.bostonwhaler.com). On our website you will find information on our entire lineup of Unsinkable Legends, as well as a collection of customer resources including parts diagrams, maintenance tips and frequently asked questions. In addition, you can sign up to receive future issues of Boston Whaler's lifestyle magazine, *Whaler*.

Since Boston Whaler's inception in 1958, we have been committed to providing customers with the safest, highest quality, most durable boats in the world. I am confident that you, as a Whaler owner, will also appreciate the quality and pride that is built into every Boston Whaler boat.

From all of us here at Whaler, thank you for purchasing one of our boats.  
May it bring you many years of boating enjoyment.



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

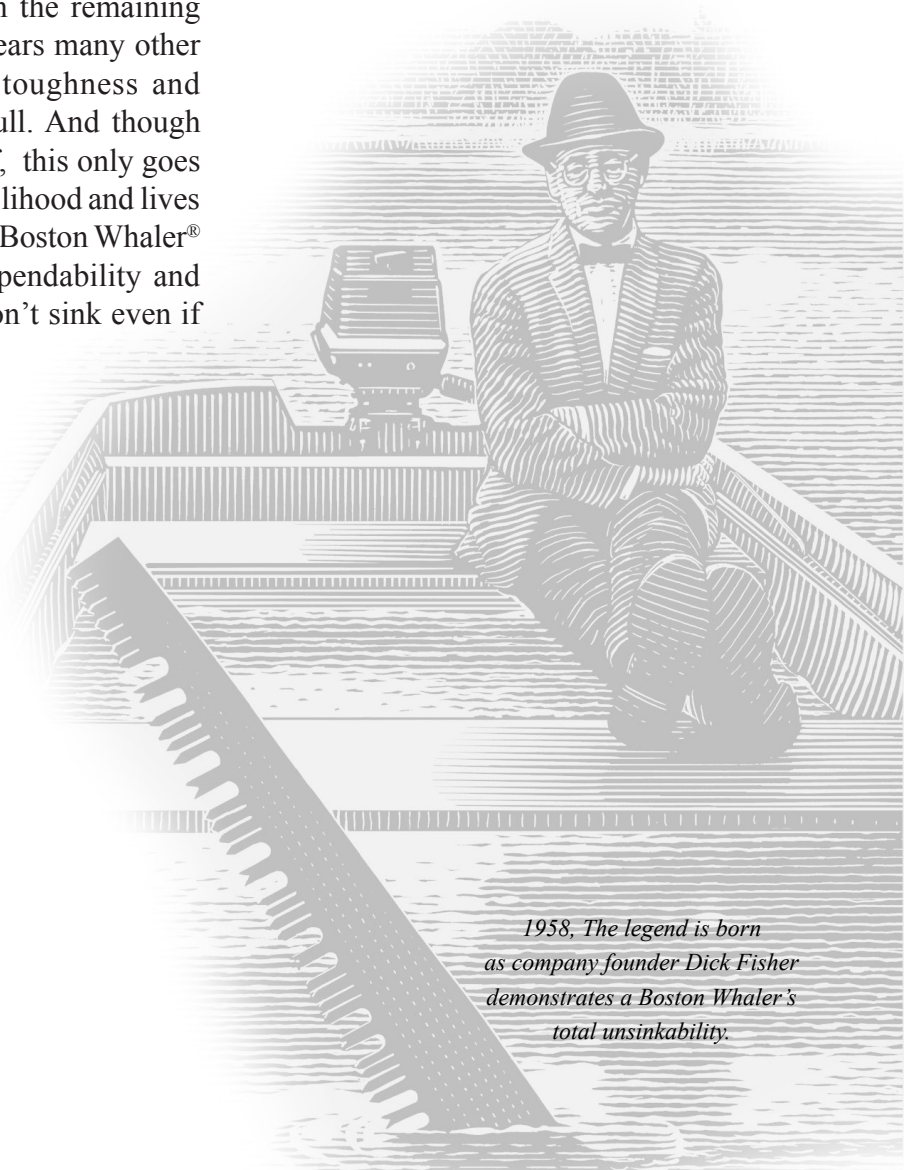
## HISTORY

In 1958, company founder Richard T. Fisher introduced the first Boston Whaler® boat in Braintree, Massachusetts. It featured two significant innovations: first, its twin sponson hull design produced superior stability and a remarkably dry ride; second, its unique foam core construction made the boat not only durable, but unsinkable as well.

Fisher took every opportunity to illustrate the unique characteristics of the Boston Whaler®. His most famous demonstration was captured in 1961, by *Life Magazine*. The series of photographs showed the boat underway, the boat being sawed in half and ultimately Fisher motoring away in the remaining half of the boat. And through the years many other demonstrations have proved the toughness and durability of the Boston Whaler hull. And though you may never cut your boat in half, this only goes to show one thing, people whose livelihood and lives depend on boats consistently choose Boston Whaler® because of their seaworthiness, dependability and the inherent safety of a hull that won't sink even if severely damaged.

Boston Whalers are built to last. For over 50 years Boston Whaler® has strived to make each model better, providing you with a safe and fun boating experience. That is the reason we offer a 10 year limited transferable warranty. It is also an excellent reason why you can trust the safety of your family and friends to a Boston Whaler®.

On September 26, 1996, Richard T. Fisher was posthumously inducted into the NMMA (National Marine Manufacturer's Association) Hall of Fame for accomplishments made in marine engineering and construction.



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

**PLEASE KEEP THIS OWNER'S MANUAL PACKET IN A SECURE PLACE, AND BE SURE  
TO HAND IT OVER TO THE NEW OWNER IF YOU SELL THE BOAT.**

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### Attachments

Commissioning Checklist  
Product Registration Card

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## Preface

This Owner's Manual has been written to provide specific information about your boat and it should be read carefully. Keep this booklet with the Manuals in the Owner's Manual Packet. The Owner's Manual Packet has been compiled to help you operate your boat with safety and pleasure. It contains details of the boat, the equipment supplied or fitted, its systems and information on its operation and maintenance. Please familiarize yourself with the boat and its operation before using it. If this is your first boat, or you are changing to a type of boat you are not familiar with, for your own comfort and safety, please ensure that you obtain handling and operating experience before "assuming command" of your boat. Your Boston Whaler® dealer or local Yacht Club will be pleased to advise you of marine safety classes and safe boating classes in your area.

INFORMATION IN THIS PUBLICATION IS BASED ON THE LATEST PRODUCT SPECIFICATIONS AVAILABLE AT PRINTING. BOSTON WHALER® BOATS, INC. RESERVES THE RIGHT TO MAKE CHANGES AT ANY TIME WITHOUT NOTICE, IN THE COLORS, EQUIPMENT, SPECIFICATIONS, MATERIALS AND PRICES OF ALL MODELS, OR TO DISCONTINUE MODELS. SHOULD CHANGES OR MODIFICATIONS TO THE MODELS BE MADE BOSTON WHALER® IS NOT OBLIGATED TO MAKE SIMILAR CHANGES OR MODIFICATIONS TO MODELS SOLD PRIOR TO THE DATE OF SUCH CHANGES.

**BOSTON WHALER • A BRUNSWICK COMPANY**  
**MRP #2338528**

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## 230 VANTAGE

JUNE, 2019

THE FOLLOWING ARE REGISTERED TRADEMARKS OF THE BRUNSWICK CORPORATION:

VANTAGE, BOSTON WHALER®.



Specifications and standard equipment are subject to change. Boston Whaler is not responsible for changes to parts or accessories manufactured by companies other than Boston Whaler. Active Deck Suspension System, Boston tv, the Boston Whaler logo, Conquest, Dauntless, Montauk, and Outrage are registered trademarks of Boston Whaler, Incorporated. Accutrack, Unibond, The Unsinkable Legend, Ventura, and Whaleboard are trademarks of Boston Whaler, Incorporated. Mercury is a registered trademark of Mercury Marine, and SmartCraft and Verado are trademarks of Mercury Marine. Trademarks of others are the property of their respective owners. All Mercury engine information provided by Mercury Marine. Information contained within this publication is believed to be correct at the time of printing.



## **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 2020 model year boats, if purchased from an authorized Boston Whaler Dealer and operated under normal, non-commercial use ("Boat"), 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 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 2020 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 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 sale to the original retail owner.
5. **Transportation:** For warranty claims filed under the following provisions 1) Ten-Year Structural Hull Limited Warranty, 2) Three-Year Limited Warranty for Warranty Servicing of Vessels with Beams greater than 8.5 feet and not legally trailer-able without special permits and 3) One-Year Limited Warranty for Warranty Servicing of Vessels not offered with a standard trailer: Reasonable expenses, at Boston Whaler's sole discretion, for hauling out, transportation to and from the dealer or other service provider authorized by Boston Whaler for warranty service.
6. **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. Except where offered above, 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. 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 and improper boat lift or sling.
10. Any Boston Whaler Boat used for commercial purposes, which includes, but is not limited to, any for-profit or other revenue-generating uses.
11. Any representation or implication relating to speed, range, fuel consumption or estimated performance characteristics.
12. Any failure or defect caused by an act of nature resulting in damage, cost, or expense;
13. Any failure or defect arising from a previous repair made by a non-authorized service provider.
14. Any item exceeding the expressed coverage limits specified in any Boston Whaler Limited Manufacturer Warranty.
15. Failure of the owner to use, maintain, or store an Accessory in reasonable fashion; and any other failure to provide reasonable care and maintenance.
16. Any Accessory which has been altered or modified from Boston Whaler factory specifications.
17. 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](http://www.brunswick.com).
18. Any Accessory used for commercial purposes, which includes but is not limited to, any for-profit or other revenue generating uses.
19. 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. 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. Our privacy policies are available at [www.bostonwhaler.com](http://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 send in a Boston Whaler warranty transfer form, accessible from [www.bostonwhaler.com](http://www.bostonwhaler.com), and a copy of the bill of sale to Boston Whaler, 100 Whaler Way, Edgewater, Florida 32141, within 30 days of purchase.

## 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**

**Phone (386) 428-0057**

**[www.bostonwhaler.com](http://www.bostonwhaler.com)**

## **BOSTON WHALER LIMITED MANUFACTURER WARRANTY**

### **Non U.S. or Canada**

Boston Whaler, Inc. ("Boston Whaler") provides the following Limited Manufacturer Warranty to the original retail owner of its 2020 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 2020 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. **Transportation:** For warranty claims filed under the following provisions 1) Ten-Year Structural Hull Limited Warranty, 2) Three-Year Limited Warranty for Warranty Servicing of Vessels with Beams greater than 8.5 feet and not legally trailer-able without special permits and 3) One-Year Limited Warranty for Warranty Servicing of Vessels not offered with a standard trailer: Reasonable expenses, at Boston Whaler's sole discretion, for hauling out, transportation to and from the dealer or other service provider authorized by Boston Whaler for warranty service.
6. **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.

### **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.

## 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. Except where offered above, 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. 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. Damage resulting from use of improper trailer, improperly placed supporting bunks or slings, incorrect bunks placement and improper boat lift or sling.
10. Any Boston Whaler Boat used for commercial purposes, which includes, but is not limited to, any for-profit or other revenue-generating uses.
11. Any representation or implication relating to speed, range, fuel consumption or estimated performance characteristics.
12. Any failure or defect caused by an act of nature resulting in damage, cost, or expense;
13. Any failure or defect arising from a previous repair made by a non-authorized service provider.
14. Any item exceeding the expressed coverage limits specified in any Boston Whaler Limited Manufacturer Warranty.
15. Failure of the owner to use, maintain, or store an Accessory in reasonable fashion; and any other failure to provide reasonable care and maintenance.
16. Any Accessory which has been altered or modified from Boston Whaler factory specifications.
17. 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](http://www.brunswick.com).
18. Any Accessory used for commercial purposes, which includes but is not limited to, any for-profit or other revenue generating uses.
19. 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.

## 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](http://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 send in a Boston Whaler warranty transfer form, accessible from [www.bostonwhaler.com](http://www.bostonwhaler.com), and a copy of the bill of sale to Boston Whaler, 100 Whaler Way, Edgewater, Florida 32141, within 30 days of purchase.

## **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 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.

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## **CALIFORNIA EVAPORATIVE EMISSIONS CONTROL SYSTEM WARRANTY STATEMENT**

### **YOUR WARRANTY RIGHTS AND OBLIGATIONS:**

The California Air Resources Board and Boston Whaler, Inc. ("Boston Whaler") are pleased to explain the evaporative emission control system's warranty on your 2020 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 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.

### **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 cannot deny warranty solely for the lack of receipts.
- As the SIMW owner, you should however be aware that the Boston Whaler 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 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 at 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	

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## PRIVACY STATEMENT

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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](http://www.bostonwhaler.com) and select the Privacy Statement 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 your request information about our companies and from surveys, promotions, contests, correspondence, your e-mails, telephone inquiries, web forms, and other communications.

**How We Use & 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, AVALA, 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: Terry Domian, AVALA Marketing Group; 1078 Headquarters Park Drive, Fenton, MO, 63026; Phone: (636) 343-9988, Fax: (636) 326-3282, E-mail: [terryd@MarketingAgencymarketing.com](mailto:terryd@MarketingAgencymarketing.com). 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 again 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 1-800-336-2628 or go to [www.boatus.com/foundation](http://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 Phone Numbers and Internet Addresses

#### Boston Whaler, Inc.

877-294-5645

[www.bostonwhaler.com](http://www.bostonwhaler.com)

#### United States Coast Guard

800-368-5647

[www.uscgboating.org](http://www.uscgboating.org)

#### Boat US Foundation

800-336-2628

[www.boatus.com/foundation](http://www.boatus.com/foundation)

#### Canadian Coast Guard

800-267-6687

[www.ccg-gcc.gc.ca/](http://www.ccg-gcc.gc.ca/)

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### Explanation of 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 (See page 19) 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.

### 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 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.**

### How to Obtain These Skills

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](http://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
- ☐ Navigation lights-working
- ☐ Sound signal device on board
- ☐ Fuel system-no leaks or fumes
- ☐ Power steering fluid-filled (if applicable)
- ☐ Steering system-working smoothly & properly
- ☐ Battery-electrolyte level within range
- ☐ Float plan-filed with friend or relative

#### Trailing (if applicable)

- ☐ Boat position-secure on trailer
- ☐ Tiedowns-tight
- ☐ Winch-locked
- ☐ Trailer hitch-connected
- ☐ Safety chains-attached
- ☐ Swing tongue-secured with safety clip
- ☐ Engine clearance-in trailering position (See engine manual for recommended guidelines)
- ☐ 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": one third total fuel usage for the trip out; one third total fuel usage while out; one third total fuel usage for the return trip.

### Maintain Control

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, time of day or high bow angle you must slow down so that you have sufficient time to react if an emergency occurs. Nearby boats face similar risks in avoiding a collision with you.

### 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.

#### **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**

Death or serious injury can result if you fail to observe these safety rules:

- Anyone who controls the boat should have taken a boating safety course and have trained in the proper operation of the boat.
- Always operate the boat at speeds that will not put people or property in danger.
- Be constantly aware of conditions in all directions when underway and before turning.
- Reduce speed, use a lookout to identify possible hazards or difficulties, and turn on navigation lights when:
  - visibility is impaired;
  - in rough water; and
  - in congested waterways.
- Watch your wake. It can capsize a small boat or damage moored boats or other property. You are responsible for damage caused by your wake.

## **WARNING**

**NEVER** operate a boat at a speed at which you do not feel in control.

## **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 on-plane seating locations.
- Passengers should remain seated while boat is moving.

**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 throw able 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 and state boating law enforcement agency.**

The following equipment is the minimum required by the U.S. Coast Guard for a boat less than 26' (7.9 meters) in length.

#### Personal Flotation Devices (PFD's)

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



### 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 Extinguisher (Portable)

It is recommended that you carry one (1) A,B or C Type fire extinguishers on board and located near the helm for easy reach.

##### FIRE EXTINGUISHER LOCATION

A storage pocket for the portable fire extinguisher is located on the lower starboard side of the center console.

#### 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 must be audible for 1/2 mi. (.80 Km).

#### Visual distress Signals

Boats operating in coastal waters, the Great Lakes & US owned boats on the high seas are required to carry approved visual distress signals for nighttime use. They must 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 recommended for safe boating.

- 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 engine is 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 an alarm activates:**

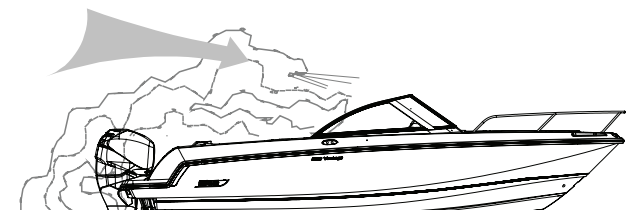
- Evacuate enclosed areas immediately.
- Shut OFF any fuel burning equipment or appliances.
- Open hatches, doors, portlights, etc. to improve ventilation.
- If making way, head boat into the wind.



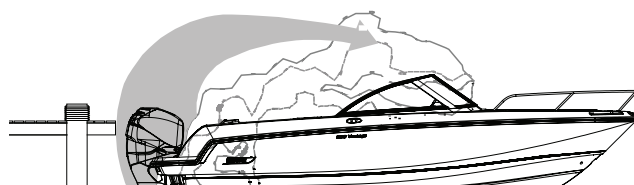
## ⚠ DANGER

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

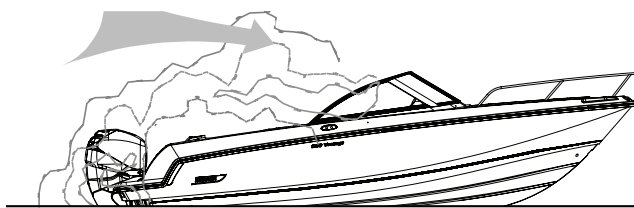
Examples of accumulation of Carbon Monoxide  
Fig. 1.7.1



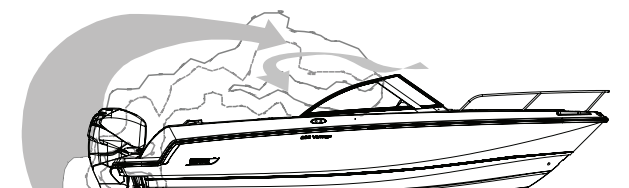
WINDS BLOWING EXHAUSTS TOWARD BOAT OCCUPANTS.



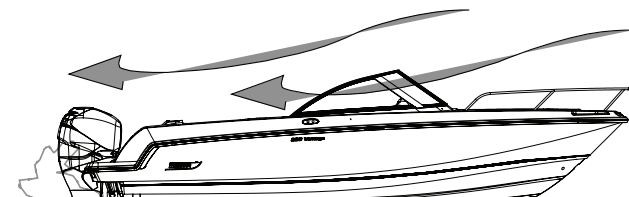
... BLOCKING EXHAUSTS



OPERATING WITH "BOW HIGH"



OPERATING AT SLOW SPEED OR DEAD IN WATER



GOOD AIR FLOW

## 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.

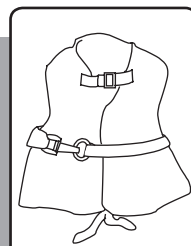
The law requires that PFDs must be readily accessible, if not worn. "Readily Accessible" means removed from storage bags and unbuckled.

## NOTICE

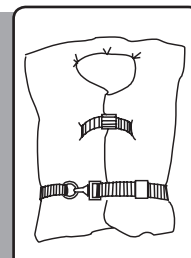
**Children and non-swimmers MUST wear PFDs at all times when aboard.**

### PFD Classifications

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

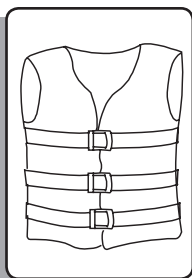


**Type I**, Off-shore Life Jacket is considered the most buoyant, it is designed to turn an unconscious person face up. Use in all types of waters where rescue may be slow, particularly in cold or rough water conditions.



**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.

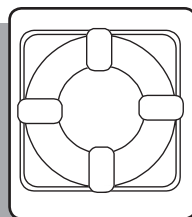
## Section 1 • Safety



**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.



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



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

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.**



### Emergency Situations

#### NOTICE

**The law requires the operator to assist any person or boat in distress as long as rendering assistance does not endanger the 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. Never reverse your boat to pick up someone in the water.
- 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 “wind milling”.

#### 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 3-14) 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 these 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, or 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 and prepare to abandon ship.
- If you do abandon ship, make sure the passengers have PFDs. 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 pump 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 has not automatically turned ON, switch it ON immediately.
- The deck scuppers on your boat are designed to drain the deck of water.
- Keep the bilge pump 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).
- Always wear your PFD, or have it within reach.
- If the boat will not right itself, get out of the water and climb onto the exposed hull.
- Do a head count of 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)
- Always wear your PFD, or have it within reach.
- Check on passengers
- If the bilge pump has not automatically turned ON, switch it 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 Emergency Engine Shut-Off Switch.)
- 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 observing the 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 16 feet (4.8 m), open sailboats less than 26 feet (7.9m), 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 displayed together.
- 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/telephone alarm
- Position indicating radio beacon (EPIRB)
- 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).

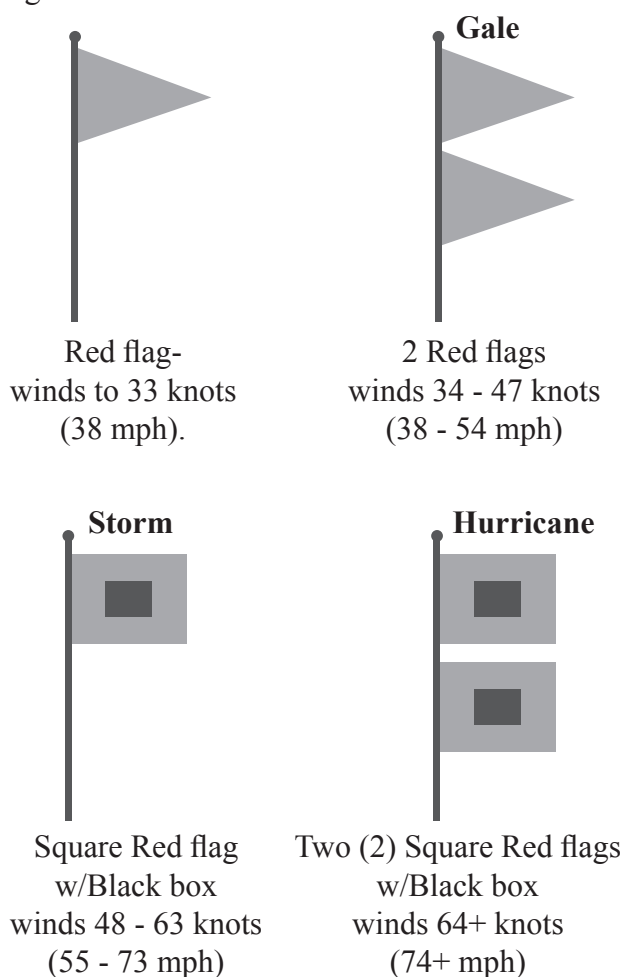
### **WARNING**

**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  
Fig. 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 you encounter fog, determine your position, set a safe course, slow down and alert other boats of your presence with a sound signal.
- 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

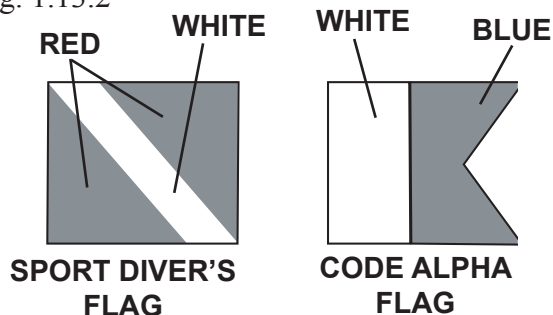
### Swimming

- Do not swim from a moving boat.
- Many areas prohibit swimming from a boat except in designated areas. Never enter swimming zones.
- Turn off engine in gear (to prevent propeller “wind milling”) before picking up swimmer.

### Diving

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

Diver's Flags  
Fig. 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.



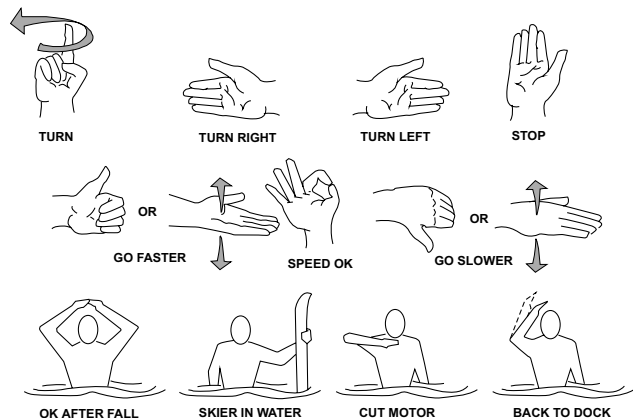
## Water Skiing

- Always have at least 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 "wind milling") 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

Fig. 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

**Never allow anyone to board or exit your boat from the water when engines are on.**

### **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 100 ft. (30 meters) 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, seat backs, 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.

### Engine Emergency Safety Cut-Out Switch

#### **WARNING**

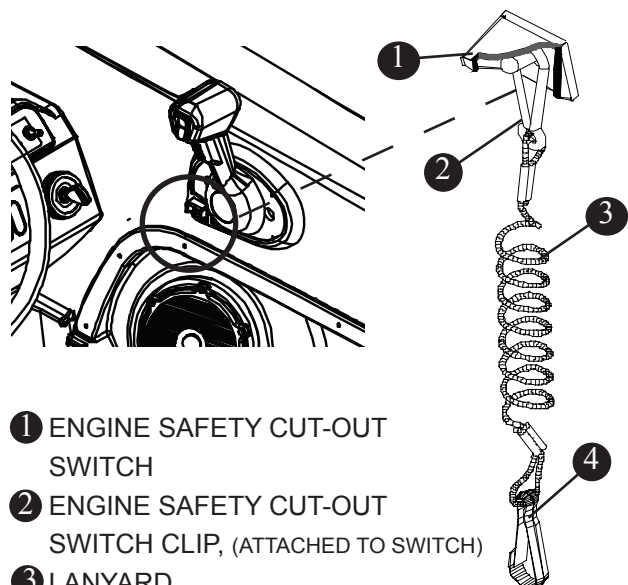
**Wear the lanyard at all times when operating the boat. Use it to stop only in an emergency. DO NOT use it to shut off the engine during normal operation**

Your boat is equipped with an engine emergency safety cut-out switch. The switch is located aft of the gear shift/throttle control unit. The 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 will shut off the engine.

This switch is designed to shut the engine off when the operator of the boat leaves the control station, either accidentally by falling into the boat, or by being ejected overboard. This would most likely occur as a result of poor operating practices.

Engine Emergency Safety Cut-Out Switch  
Fig. 1.16.1



- ① ENGINE SAFETY CUT-OUT SWITCH
- ② ENGINE SAFETY CUT-OUT SWITCH CLIP, (ATTACHED TO SWITCH)
- ③ LANYARD
- ④ ENGINE SAFETY CUT-OUT SWITCH CLIP, (ATTACH TO OPERATOR)

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.

### 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 the propeller(s) for damage**
- **If aground, consider the bottom grade before moving off, (damage to the hull and propeller(s) 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

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.

### **WARNING**

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

### **WARNING**

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

### Homeland Security Restrictions

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.

#### **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.**

### 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 hot line, 800-424-8802 or 877-24WATCH (877-249-2824).

### Warning Label Locations

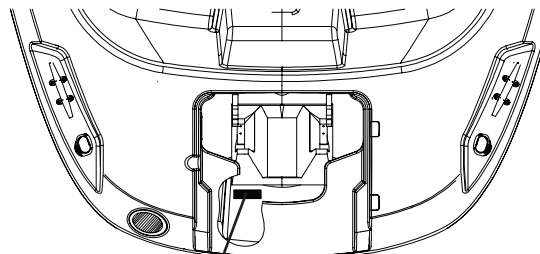
Mounted at key locations throughout the boat (See figure 1.19.1), warning labels advise the owner/operator of imperative safety precautions to follow when operating and/or servicing equipment. **DO NOT REMOVE OR OBSTRUCT ANY WARNING LABEL.** Replace any label which becomes illegible.

## Warning Label Locations

Warning Label Locations  
Fig.1.19.1

**⚠ WARNING**  
DOOR MUST BE SECURED IN THE CLOSED POSITION WHILE VESSEL IS UNDERWAY.  
MRPH 2063402

1




2

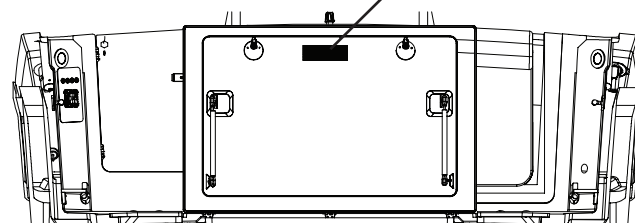
**⚠ DANGER**  
STAY CLEAR OF MOVING PARTS.  
MRPH 2028932

3

**⚠ WARNING**  
NO VENTILATION IS PROVIDED. FUEL VAPORS ARE A FIRE AND EXPLOSION HAZARD. TO AVOID INJURY OR DEATH, DO NOT STORE FUEL OR FLAMMABLE LIQUIDS HERE.  
NW203-03

4

**⚠ WARNING**  
 Avoid serious injury or death from fire or explosion resulting from leaking fuel. Inspect system for leaks at least once a year.  
The use of fuels containing ethanol higher than 10% (E-10) can damage your engine or fuel system and will void the warranty. Never use (E-85).

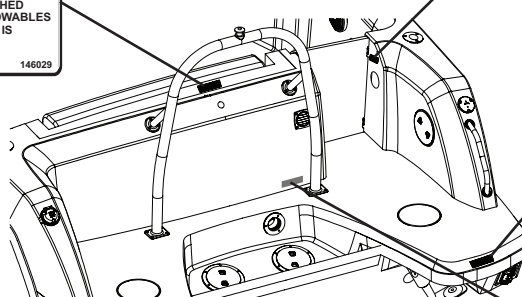


6

**⚠ WARNING**  
DO NOT LEAVE TRANSOM DOOR/GATE OPEN WHILE UNDERWAY - SERIOUS INJURY MAY RESULT.  
12-B123-00

**⚠ WARNING**  
• SKI PYLON MUST BE SECURED WHEN IN USE  
• TOW ROPE MAY BACKLASH INTO COCKPIT  
• DO NOT USE TO TOW ITEMS THAT ARE ATTACHED TO TOW ROPE SUCH AS TUBES OR OTHER TOWABLES  
• DO NOT USE SWIM PLATFORM WHEN ENGINE IS RUNNING  
#1590140 146029


5



7

**⚠ WARNING**  
ROTATING PROPELLER MAY CAUSE SERIOUS INJURY OR DEATH. DO NOT APPROACH OR USE LADDER WHEN ENGINE IS RUNNING.  
NW 208-07

8

**⚠ DANGER**  
 Carbon monoxide (CO) can cause brain damage or death.  
Engine and generator exhaust contains odorless and colorless carbon monoxide gas.  
Carbon monoxide will be around the back of the boat when engines or generators are running.  
Move to fresh air if you feel nausea, headache, dizziness or drowsiness.  
NW-206-05

Required under AB2222 for use on all boats in the State of California

## NOTICE

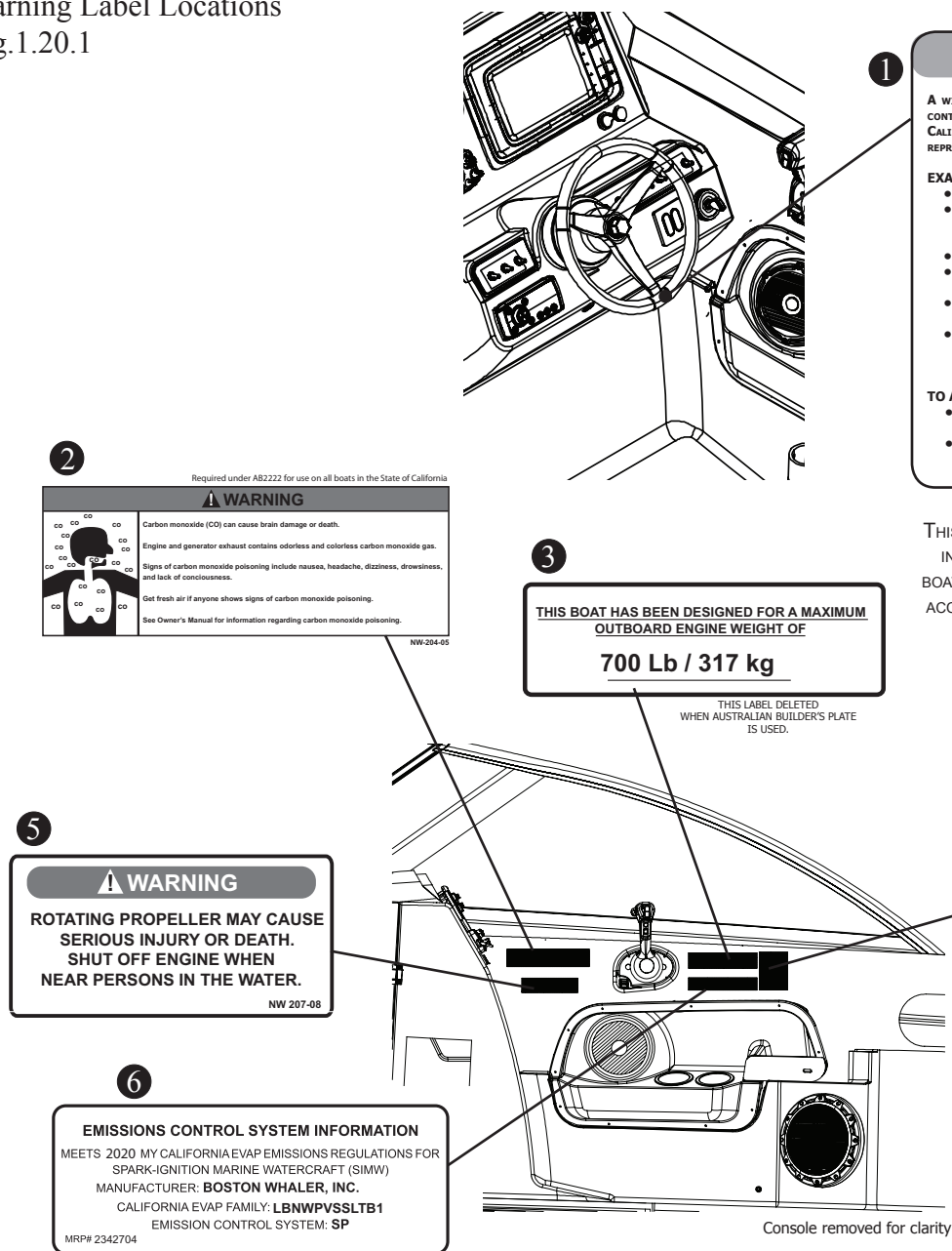
It is important to replace any damaged or unreadable label. Call your Boston Whaler dealer for replacement labels.

## Replacement Part No.

1	WARNING, DOOR SECURED .....	2063402
2	DANGER, STAY CLEAR OF MOVING PARTS .....	2028932
3	WARNING, DO NOT STORE FUEL .....	1691003
4	WARNING FUEL HAZARD .....	2096004
5	WARNING, SKI PYLON/TOW ROPE .....	1590140
6	DANGER, TRANSOM DOOR .....	2063385
7	WARNING, PROP DANGER .....	1903624
8	DANGER CO TRANSOM .....	1811367

## Warning Label Locations

Warning Label Locations  
Fig.1.20.1



### Proposition 65

#### ⚠ WARNING

A WIDE VARIETY OF COMPONENTS USED ON THIS VESSEL CONTAIN OR EMIT CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS AND OTHER REPRODUCTIVE HARM.

#### EXAMPLES INCLUDE:

- ENGINE AND GENERATOR EXHAUST
- ENGINE AND GENERATOR FUEL, AND OTHER LIQUIDS SUCH AS COOLANTS AND OIL, ESPECIALLY USED MOTOR OIL
- COOKING FUELS
- CLEANERS, PAINTS, AND SUBSTANCES USED FOR VESSEL REPAIR
- WASTE MATERIALS THAT RESULT FROM WEAR OF VESSEL COMPONENTS
- LEAD FROM BATTERY TERMINALS AND FROM OTHER SOURCES SUCH AS BALLAST OR FISHING SINKERS

#### TO AVOID HARM:

- KEEP AWAY FROM ENGINE, GENERATOR, AND COOKING FUEL EXHAUST FUMES
- WASH AREAS THOROUGHLY WITH SOAP AND WATER AFTER HANDLING THE SUBSTANCES ABOVE

### CALIFORNIA RESIDENTS ONLY

THIS WARNING IS ATTACHED TO THE STEERING WHEEL PRIOR TO DELIVERY OF ANY BOATS SOLD IN THE STATE OF CALIFORNIA IN ACCORDANCE WITH CALIFORNIA HEALTH & SAFETY CODE §§ 25249.5-13

## NOTICE

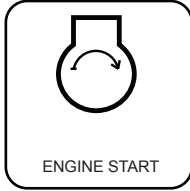



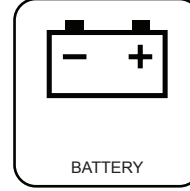
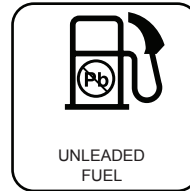
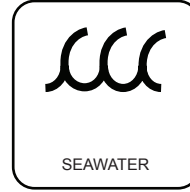
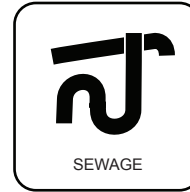

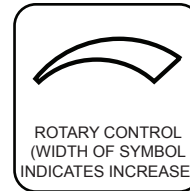


It is important to replace any damaged or unreadable label. Call your Boston Whaler dealer for replacement labels.

### Replacement Part No.

- |   |  |                  |
|---|--|------------------|
| 1 | PROP 65 HANG TAG .....                     | 1795087 WARNING  |
| 2 | CO HELM .....                              | 1811368          |
| 3 | MAXIMUM ENGINE WEIGHT 700 LBS/317 KG ..... | 1774307          |
| 4 | VESSEL CERTIFICATION PLATE .....           | SEE FIGURE 2.2.1 |
| 5 | WARNING, ROTATING PROP .....               | 1950698          |
| 6 | LABEL, CALIFORNIA CARB COMPLIANCE .....    | 2342704          |

## Key to Symbols on Controls & Prints

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

					
PROPULSION SYSTEM TRIM	TRIM TAB TRIMMING OPERATION	ENGINE START	WARNING ELECTRICAL HAZARD	FIRE RISK	NO OPEN FLAME NO SMOKING
					
FUEL GENERAL	FUEL LEVEL	LEADED FUEL	ENGINE STOP	BATTERY	OIL
					
UNLEADED FUEL	FRESH WATER	GRAY WATER			
					
BILGE PUMP	OUTBOARD DRIVE	OUTBOARD DRIVE TILT	PROPELLER	SEAWATER	SEWAGE
					
PUMP	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



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### Construction Standards

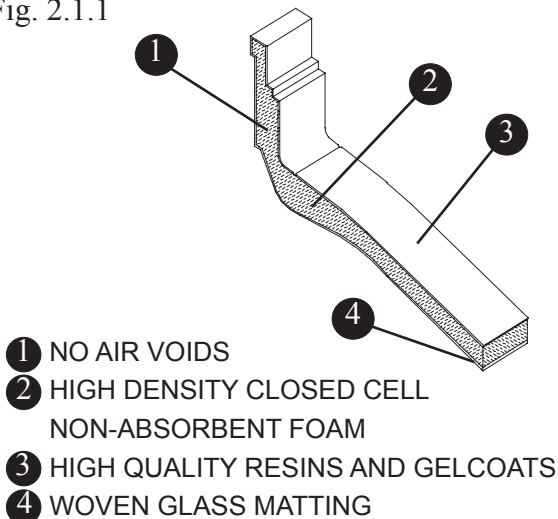
Boston Whaler® is dedicated to creating a superior product which will provide comfort, performance, safety and dependability. All of our boats comply with the safety standards set by the United States Coast Guard and are designed, engineered and manufactured in accordance with applicable recommendations 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

Fig. 2.1.1



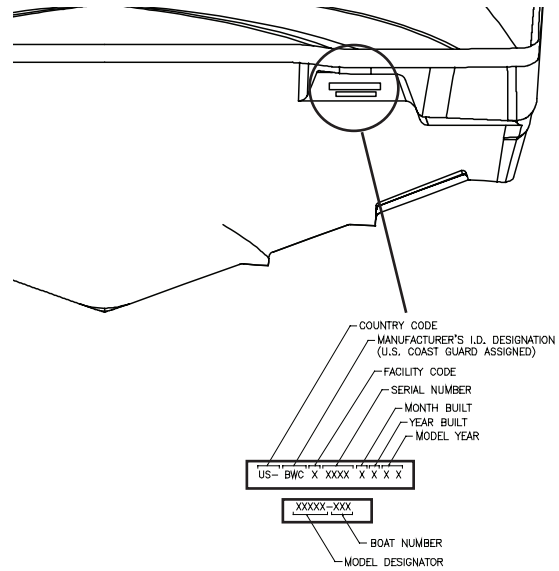
### Hull Identification Number

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)

Fig. 2.1.2



Record your HIN here:

### Servicing Your 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:  
**1-800-942-5379** (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 certification plate located on at the helm on the starboard gunnel indicates the maximum weight, number of persons, and horsepower your boat is rated to handle.

### ⚠ DANGER

**NEVER** carry more weight or passengers than indicated on the certification plate, regardless of the weather or water conditions.

The number of persons on board must be reduced if you go out in poor weather and rough water.

The information present on the certification plate does not relieve the operator from responsibility. Use common sense and sound judgement when placing equipment and/or passengers in your boat.

- Do not load to capacity in poor weather or rough water.
- The number of seats does not indicate how many people a boat can carry in poor weather and rough waterz
- Above idle speed, all passengers must be seated on the seats provided.

An **NMMA Certification** means that your Boston Whaler® has been judged by the National Marine manufacturers Association to be in compliance with applicable federal regulations and American Boat and Yacht Council standards.

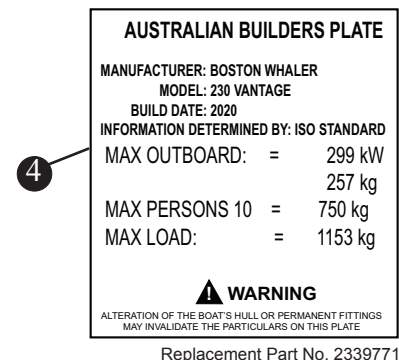
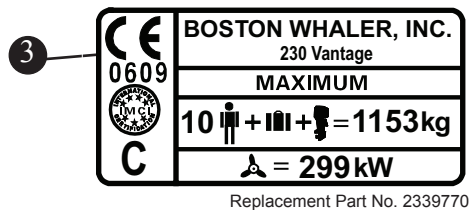
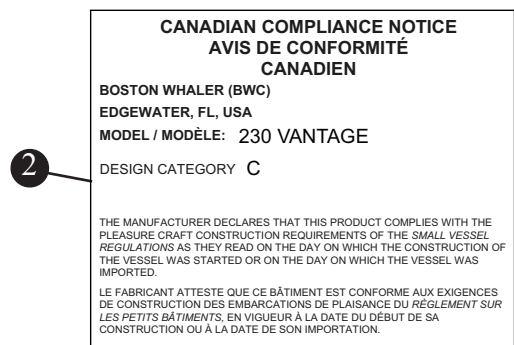
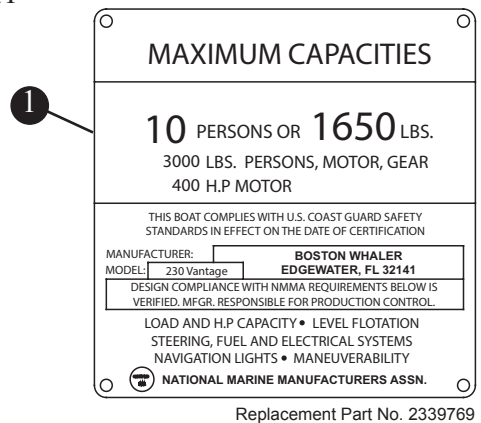
A **Canada Conformity Sticker** means that your Boston Whaler® has been certified to comply with construction standards for small vessels by Transport Canada.

A **CE mark** means that your Boston Whaler® has been certified with the applicable international Organization for Standardization directives.

An **Australian Builder's Plate** means that your Boston Whaler® has been certified with safety standards set by the National Marine Safety Committee.

### Certification Plates

Fig. 2.2.1



- 1 NMMA CAPACITY PLATE
- 2 CANADA CONFORMITY STICKER
- 3 CE MARK BUILDER'S PLATE
- 4 AUSTRALIAN BUILDER'S PLATE

## Section 2 • General Information

### 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

Your 230 Vantage is design category C

### WARNING

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

### Power Capacity

The certification plate has listed the maximum rated power 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 owner/operator to read all information regarding safety features, warning notices and maintenance schedules for continued safe operation of the engine.

The engine on your boat 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.

**The 230 Vantage is designed for a maximum outboard engine weight of 700 LBS (317 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

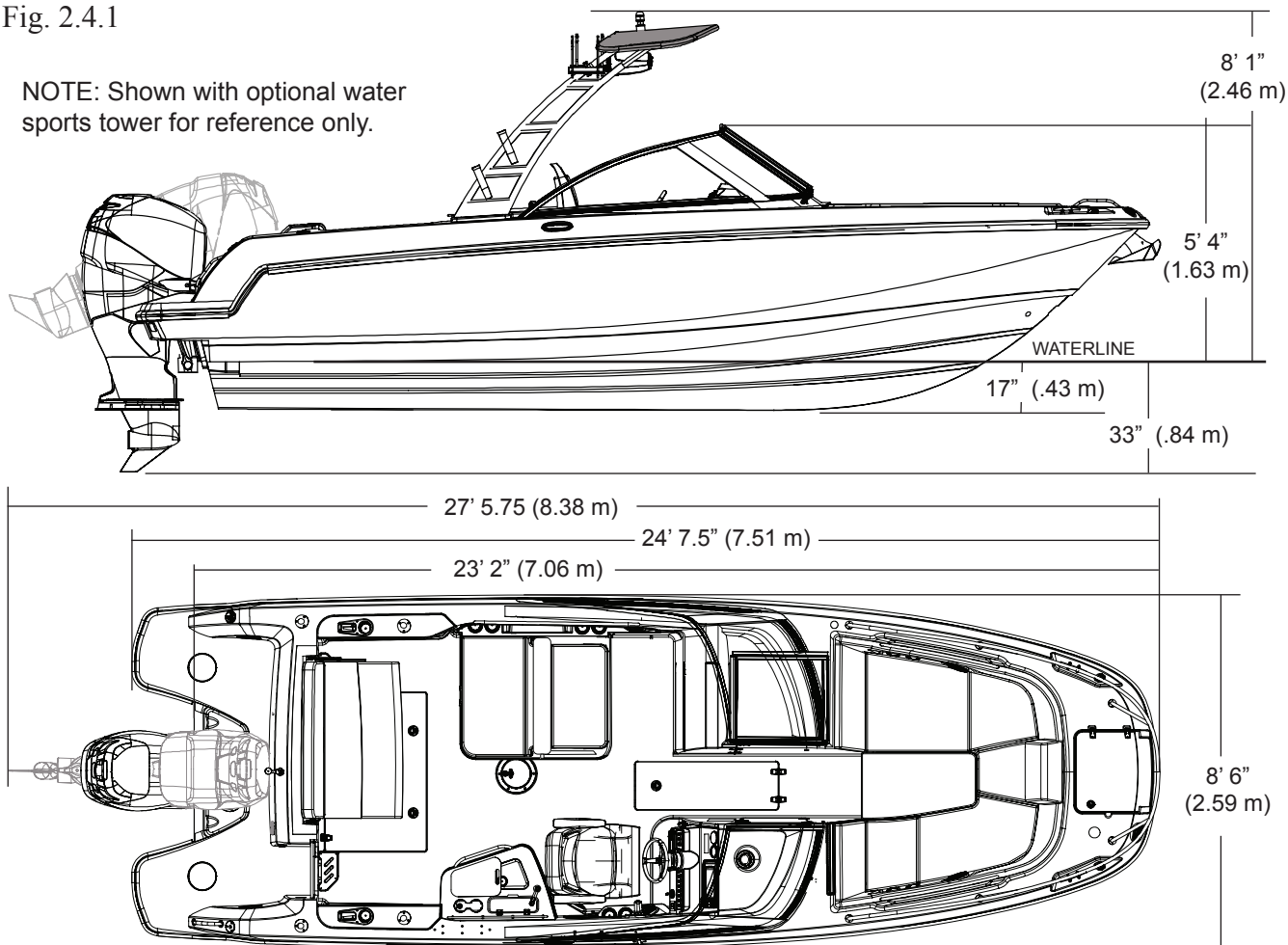
**Always adjust the speed and direction of the craft to the varying sea conditions.**

## Section 2 • General Information

### Dimensions & Clearances

Fig. 2.4.1

NOTE: Shown with optional water sports tower for reference only.



### Specifications & Dimensions

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

Overall Length w/platform	24' 7.5"	7.51 m	Swamped Capacity	4000 lbs.	1814 kg
Overall Length	23' 2"	7.06 m	Maximum Engine Weight	700 lbs.	317 kg
Bridge Clearance (no top)	5' 4"	1.63 m	Maximum Weight, (passengers, engine(s), gear <sup>1</sup> )	3000 lbs.	1189 kg
Bridge Clearance w/water sports tower	8' 1"	2.46 m	Persons	10	
Bridge Clearance w/sun top	7' 4"	2.25 m	Maximum Horsepower	400 HP	299 kw
Beam	8' 6"	2.59 m	Minimum Horsepower	225 HP	168 kw
Draft, (boat only)	17"	.43 m	Fuel Capacity	111 gal.	420.18 L
Draft, (Engine) <sup>2</sup>	33"	.84 m	Water Capacity	20 gal.	75.71 L
Weight (dry, no engine)	3900 lbs.	1769 kg			

<sup>1</sup> Exceeding this weight will affect the boat's performance. **DO NOT** Exceed the weights listed on the capacity plate.

<sup>2</sup> 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.



### Passenger Areas

Deck Occupancy  
Fig. 2.5.1

#### 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:



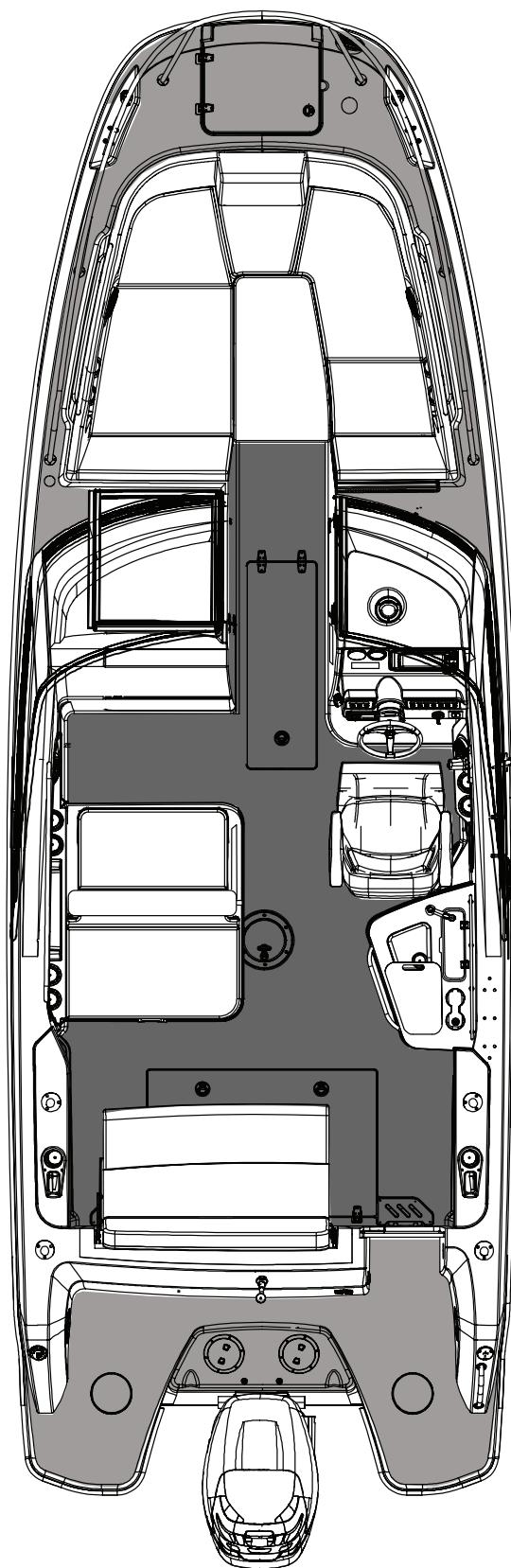
This area of the boat is inside the cockpit and includes helm seating. Movement in this area should be done with extreme caution while the boat is underway. A sudden shift in boat direction can cause a loss of balance and lead to injury or death.

### 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 making way.
- Use care when waxing to ensure that walkways are not made dangerously slippery.

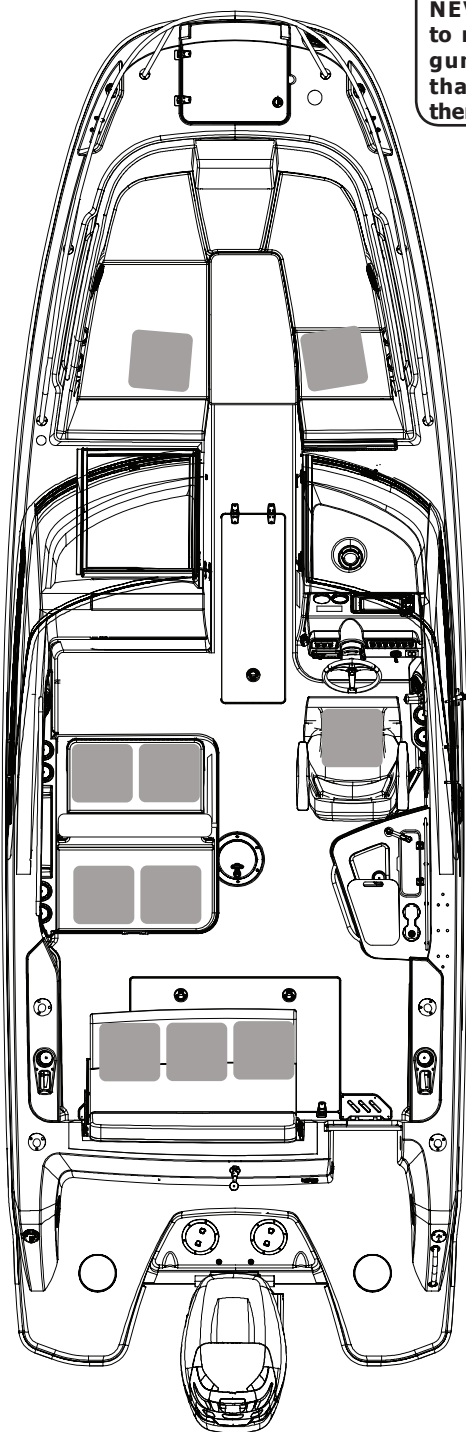


### Recommended Passenger Locations

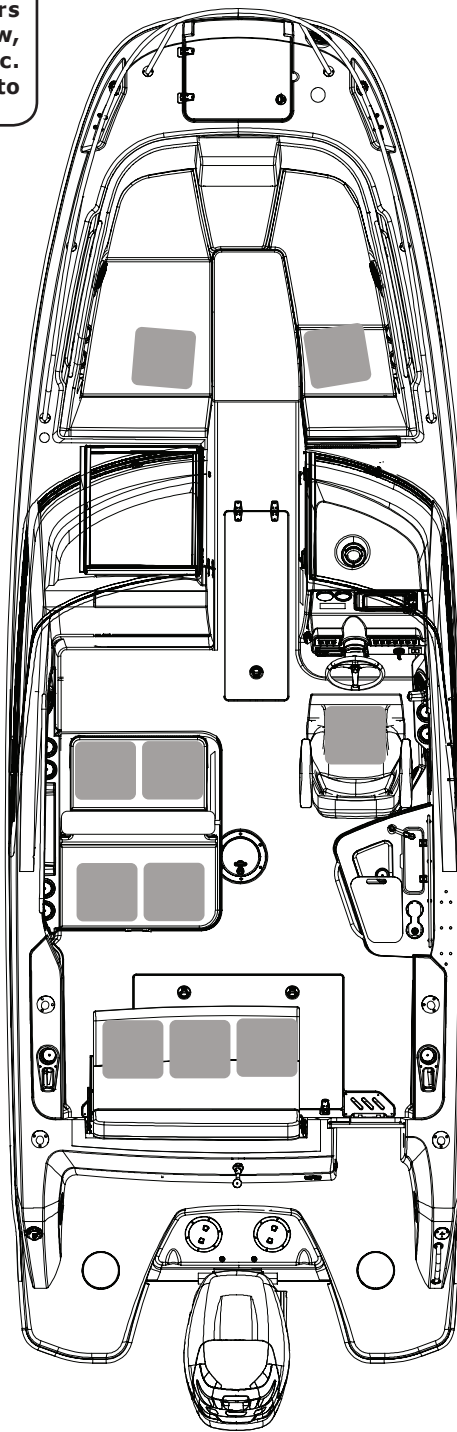
Recommended Seating & On-Plane Locations

Fig. 2.6.1

**⚠ DANGER**  
NEVER allow passengers to ride in an area (i.e. bow, gunnels, stern deck, etc.) that will pose a hazard to themselves or the boat.



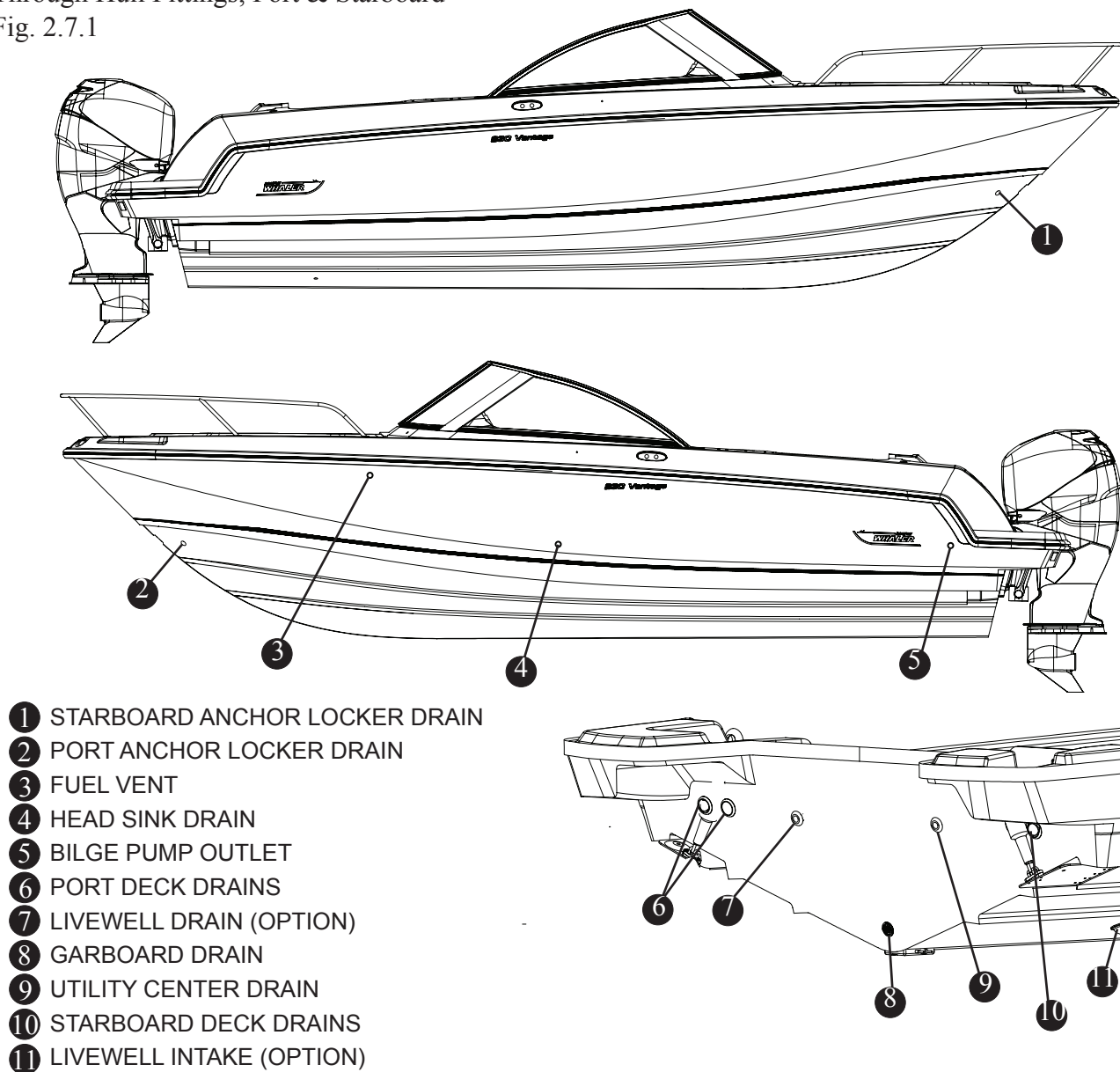
**RECOMMENDED SEATING**  
while moored, at idle or at speed under 5 mph



**RECOMMENDED ON-PLANE LOCATIONS**

### Location of Thru-Hull Fittings

Through Hull Fittings, Port & Starboard  
Fig. 2.7.1



### NOTICE

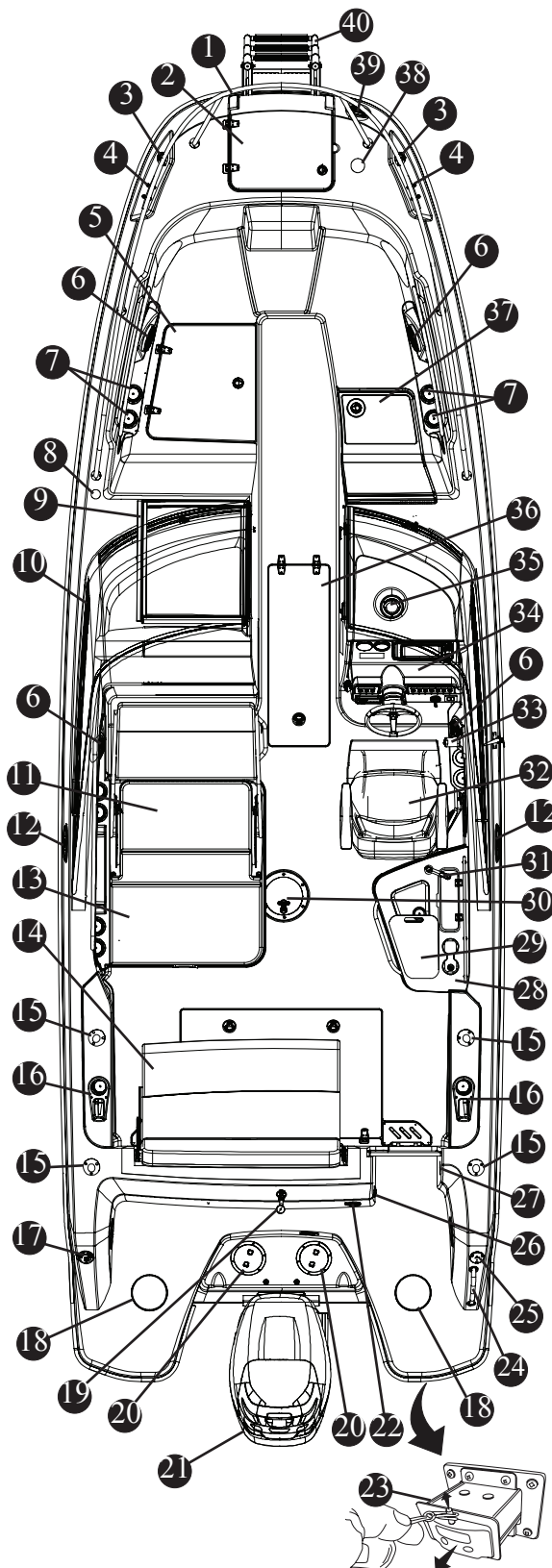
- The deck drain provides self-bailing capabilities while the boat is static in the water and no passengers on board. This feature prevents the accumulation of water in the cockpit.
- Depending on the type of boat you have, you may have underwater fittings that need drain plugs. Garboard drain plugs 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" 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, Deck

Fig. 2.8.1

- 1 STAINLESS STEEL BOW RAIL
- 2 ANCHOR LOCKER
- 3 NAVIGATION LIGHT
- 4 8" BOW CLEAT (P&S)
- 5 FORWARD SEATING AREA W/ CUSHION & STORAGE UNDER
- 6 WATERPROOF SPEAKERS (4) (OPTION)
- 7 DRINK HOLDERS (8)
- 8 PORTABLE HEAD DECK PUMPOUT
- 9 WINDSHIELD SWING AWAY WALKTHROUGH
- 10 TEMERED GLASS WINDSHIELD W/WIPERS
- 11 CONVERTABLE LOUNGE W/STORAGE
- 12 8" POP-UP SPRING LINE CLEATS (P&S)
- 13 14 GAL (63.64 L) LIVEWELL (OPTION)\*
- 14 FOLD AWAY STERN SEAT W/BACKREST
- 15 ROD HOLDERS (4) (OPTION)
- 16 8" STERN CLEATS W/HAWSE PIPES (P&S)
- 17 FUEL FILL DECK PLATE
- 18 DECK ACCESS
- 19 ANCHOR LIGHT
- 20 MOTORWELL ACCESS
- 21 FOUR STROKE ENGINE
- 22 LOUVERED BILGE VENT
- 23 RECESSED TELESCOPING DIVE LADDER
- 24 STAINLESS STEEL GRAB RAIL
- 25 FRESH WATER FILL DECK PLATE
- 26 AIR COMPRESSOR EXTENSION CORD
- 27 FRESH WATER TRANSOM SHOWER (OPTION)
- 28 UTILITY CENTER
- 29 CUTTING BOARD
- 30 FUEL SENSOR ACCESS
- 31 FRESH WATER FAUCET (OPTION)
- 32 HELM SEAT W/HIGH/LOW PEDESTAL
- 33 GEAR SHIFT THROTTLE CONTROL
- 34 CONSOLE
- 35 MAGNETIC COMPASS
- 36 LOCKABLE IN-FLOOR SKI/ROD STORAGE
- 37 BOW STORAGE
- 38 FRESH WATER BOW SHOWER (OPTION)
- 39 HORN
- 40 BEACH BOARDING LADDER\*\*



\* Must order fishing package

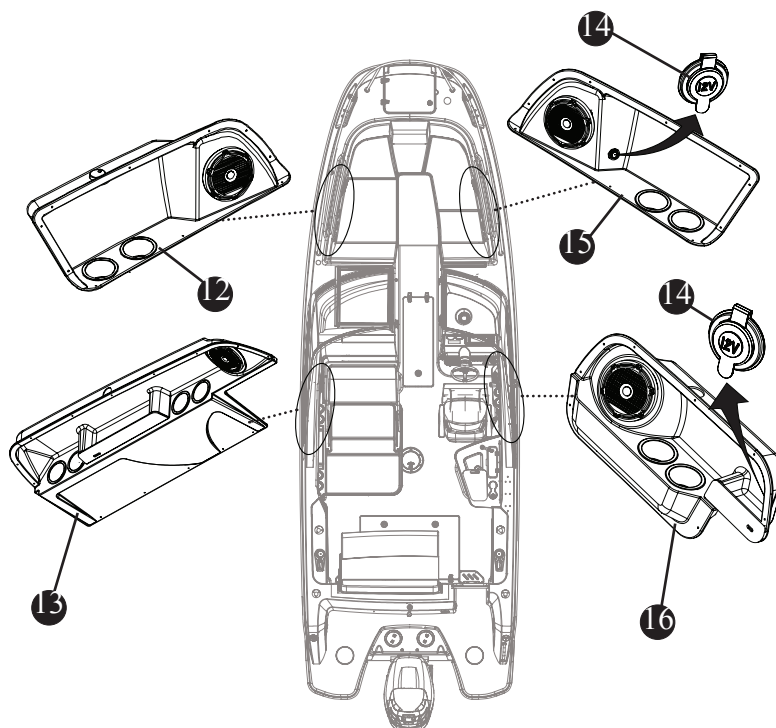
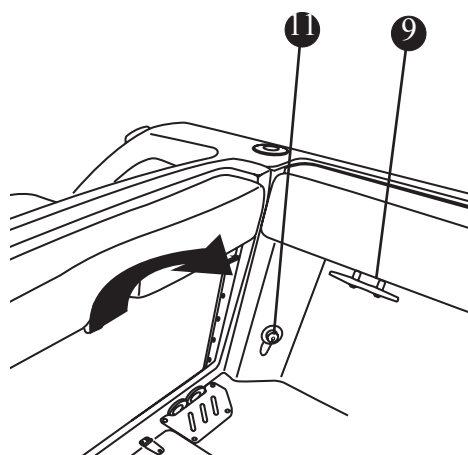
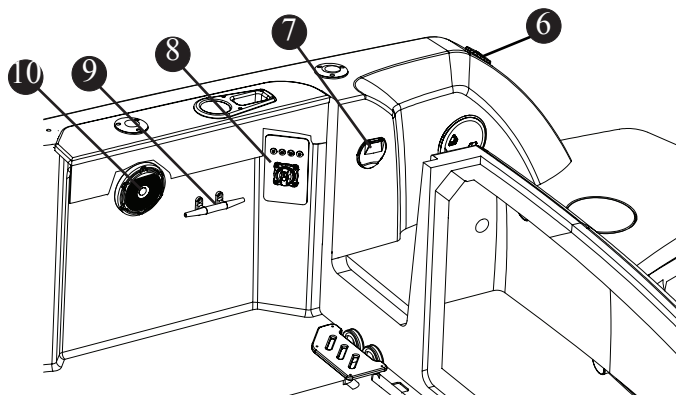
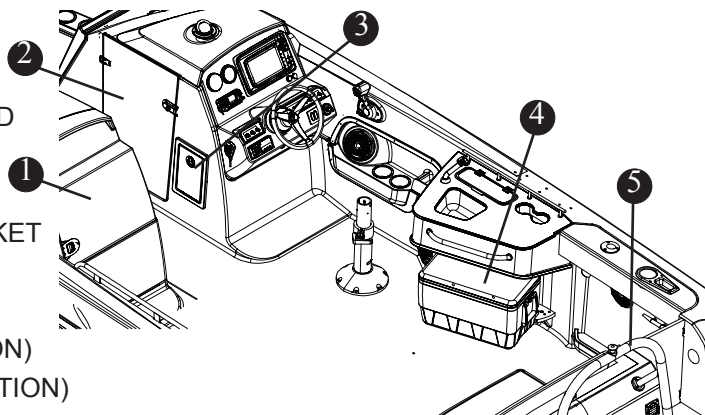
\*\* Not compatible w/bow rail

### Features, Cont'd

#### Features, Cockpit

Fig. 2.9.1

- 1 COMPANION CONSOLE W/STORAGE AND PORTABLE HEAD
- 2 WALKTHROUGH BLOCK-OFF PANEL
- 3 TRASH RECEPTACLE W/5 GALLON BUCKET
- 4 36 QUART (34.07 L) COOLER
- 5 TOW ARCH (OPTION)
- 6 FRESH WATER FILL DECK PLATE (OPTION)
- 7 TRANSOM FRESH WATER SHOWER (OPTION)
- 8 BATTERY SWITCH PANEL
- 9 8" STERN CLEAT (P&S)
- 10 WATERPROOF SPEAKER (P&S) (OPTION)
- 11 RAW WATER HOSE FITTING (OPTION)
- 12 FWD PORT INSERT
- 13 MIDSHIP PORT INSERT
- 14 12 V ACCESSORY RECEPTACLE
- 15 FWD STARBOARD INSERT
- 16 HELM INSERT

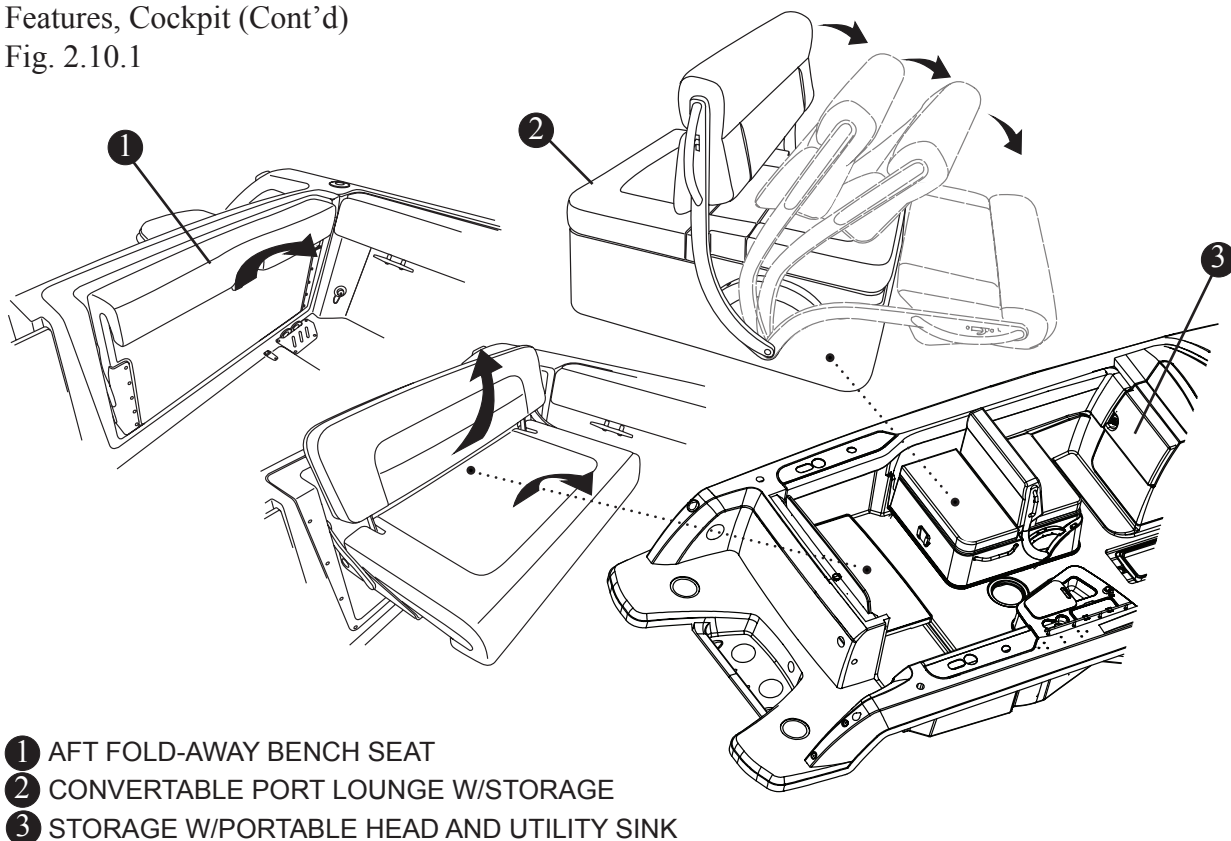




### Features, Cont'd

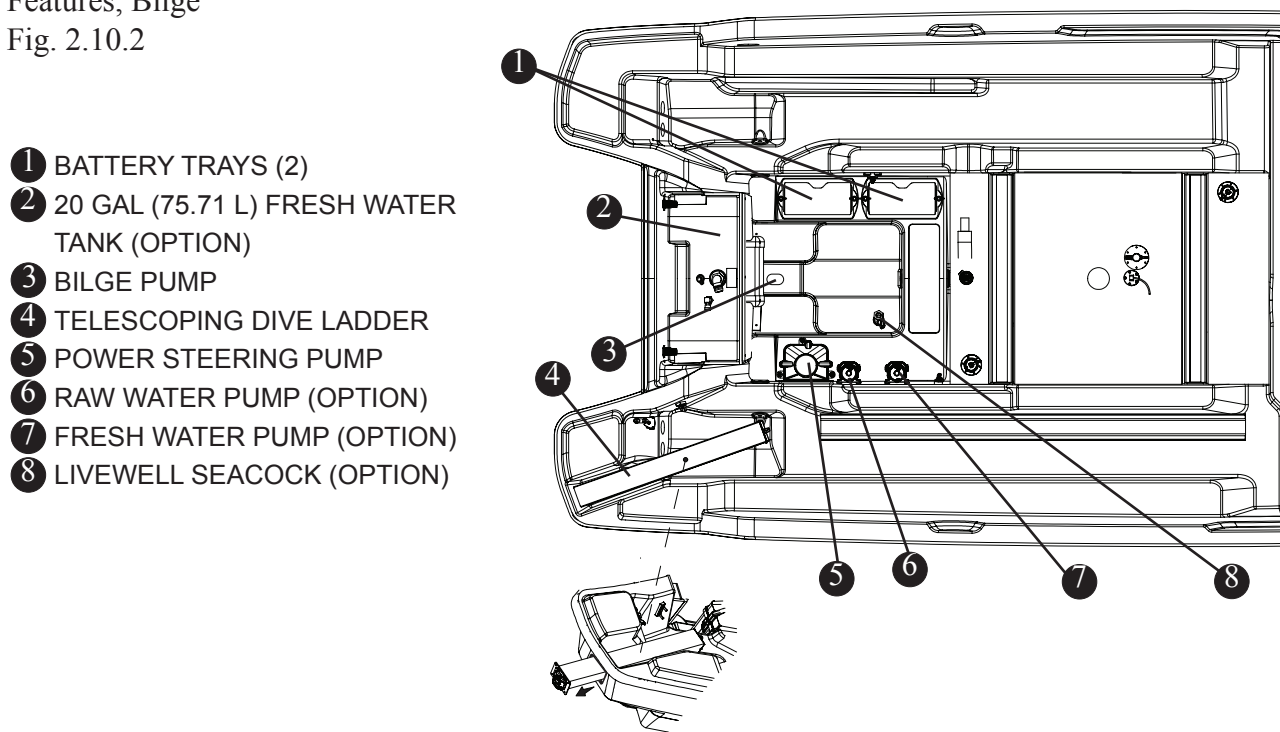
#### Features, Cockpit (Cont'd)

Fig. 2.10.1



#### Features, Bilge

Fig. 2.10.2

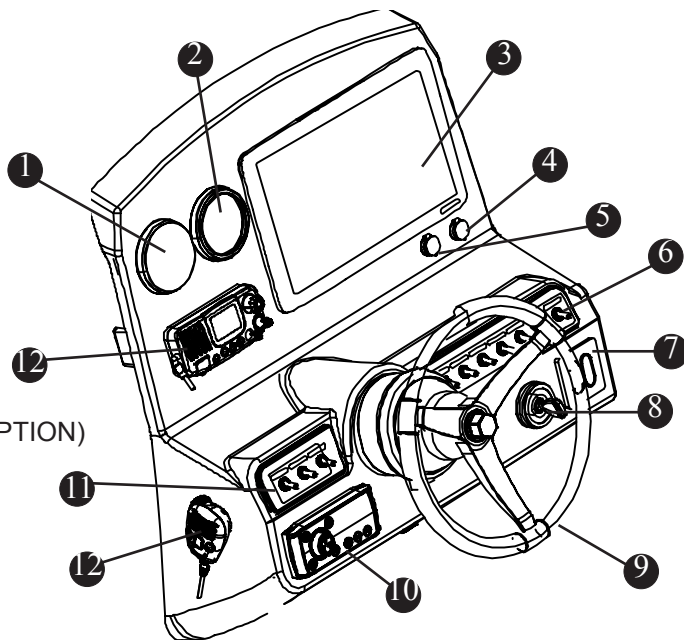


### Features, Cont'd

#### Features, Console

Fig. 2.11.1

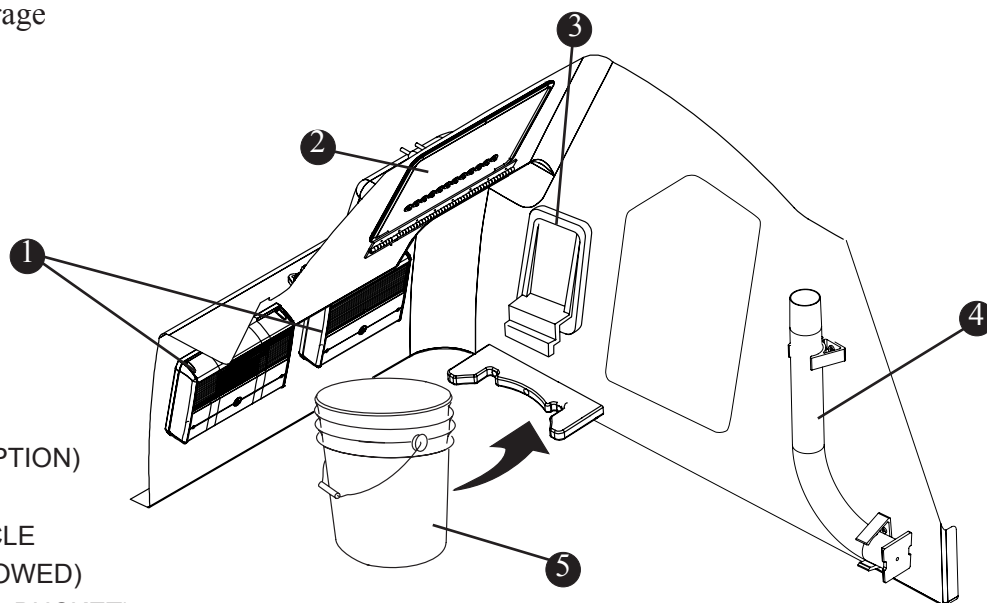
- ① SMARTCRAFT™ SPEEDOMETER
- ② SMARTCRAFT™ TACHOMETER
- ③ CHART PLOTTER W/SOUNDER N/CHART (OPTION)
- ④ USB INPUT (OPTION)
- ⑤ MP3 INPUT (OPTION)
- ⑥ OUTBOARD SWITCH PANEL
- ⑦ TRIM TAB SWITCH
- ⑧ IGNITION
- ⑨ STAINLESS STEEL STEERING WHEEL W/URETHANE COVER
- ⑩ FUSION® STEREO (OPTION)
- ⑪ INBOARD SWITCH PANEL
- ⑫ RAYMARINE VHF RADIO



#### Features, Console Storage

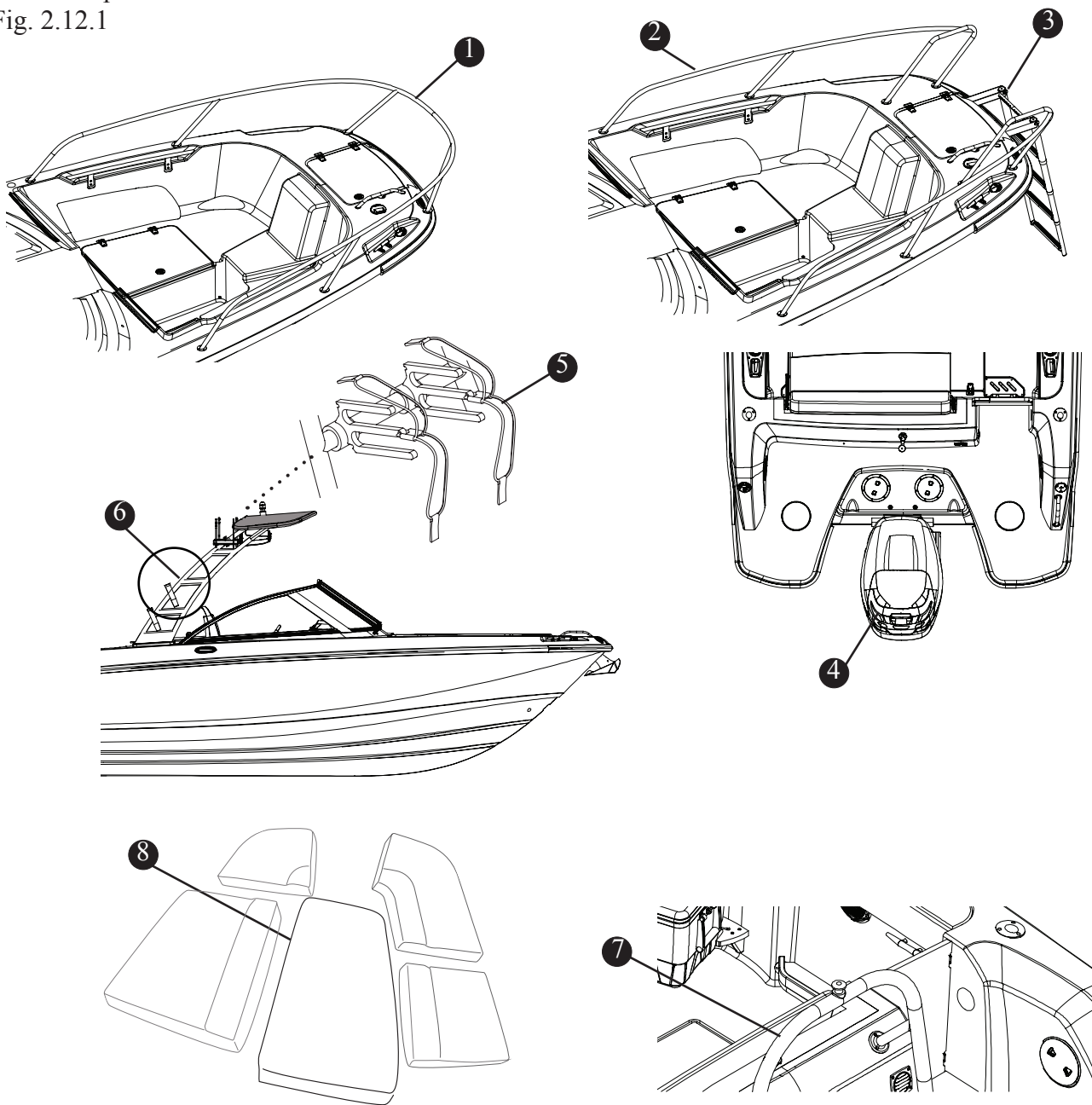
Fig. 2.11.2

- ① STEREO AMPS (OPTION)
- ② BREAKER PANEL
- ③ TRASH RECEPTACLE
- ④ TABLE STAND (STOWED)
- ⑤ TRASH CAN (5 GAL BUCKET)



### Notable Options

Notable Options  
Fig. 2.12.1



- ① BOW RAIL
- ② SPLIT BOW RAIL
- ③ BEACH BOARDING LADDER\*
- ④ FOUR STROKE ENGINE W/HYDRAULIC STEERING
- ⑤ WAKEBOARD RACKS\*\*
- ⑥ WATER SPORTS TOWER
- ⑦ TOW ARCH\*\*\*
- ⑧ BOW FILLER CUSHION

\* Not compatible with optional bow rail

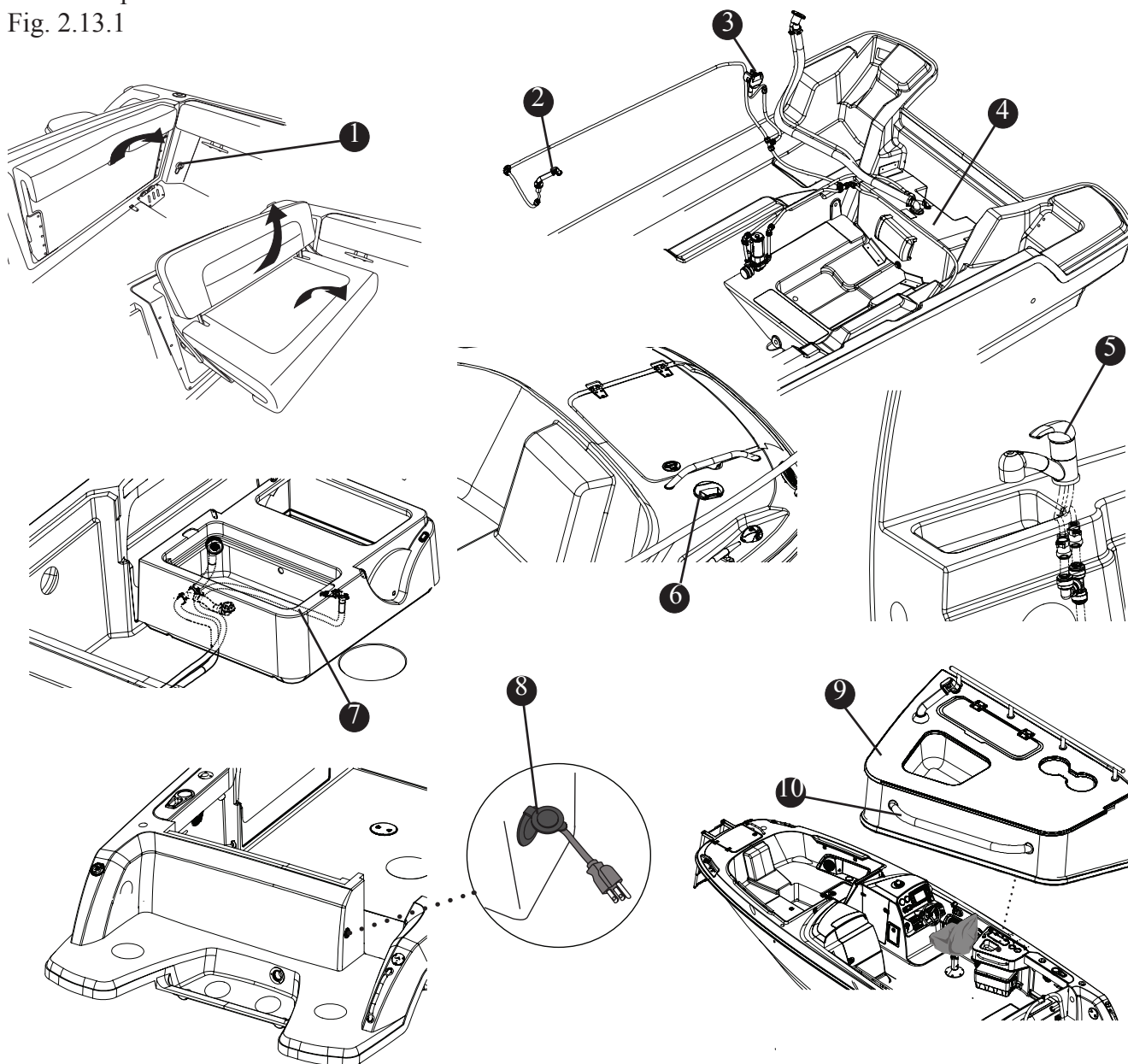
\*\* Must select water sports tower

\*\*\* Not compatible with water sports tower

### Notable Options Cont'd

Notable Options

Fig. 2.13.1



- ① RAW WATER HOSE FITTING
- ② COCKPIT SINK SPRAYER
- ③ TRANSOM SHOWER
- ④ 20 GAL (75.71 L) FRESH WATER TANK
- ⑤ HEAD SINK FAUCET/SPRAYER
- ⑥ BOW SPRAYER
- ⑦ 14 GAL (53 L) LIVEWELL W/LIGHT\*
- ⑧ BATTERY CHARGING PLUG
- ⑨ CORIAN COUNTERTOP
- ⑩ STAINLESS STEEL RAIL
- ⑪ AIR COMPRESSOR SYSTEM

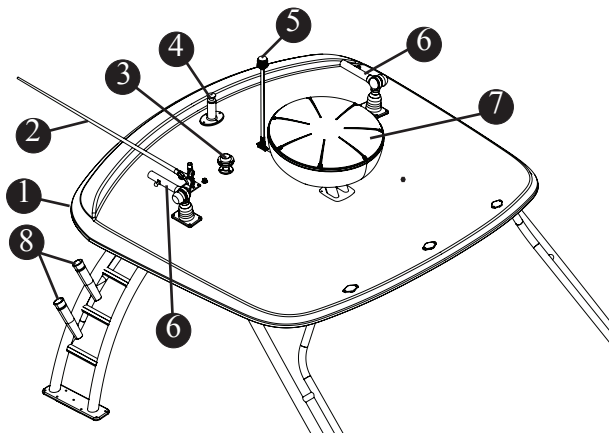
\*Must select fishing package

### Notable Options Cont'd

#### Hardtop (Option)

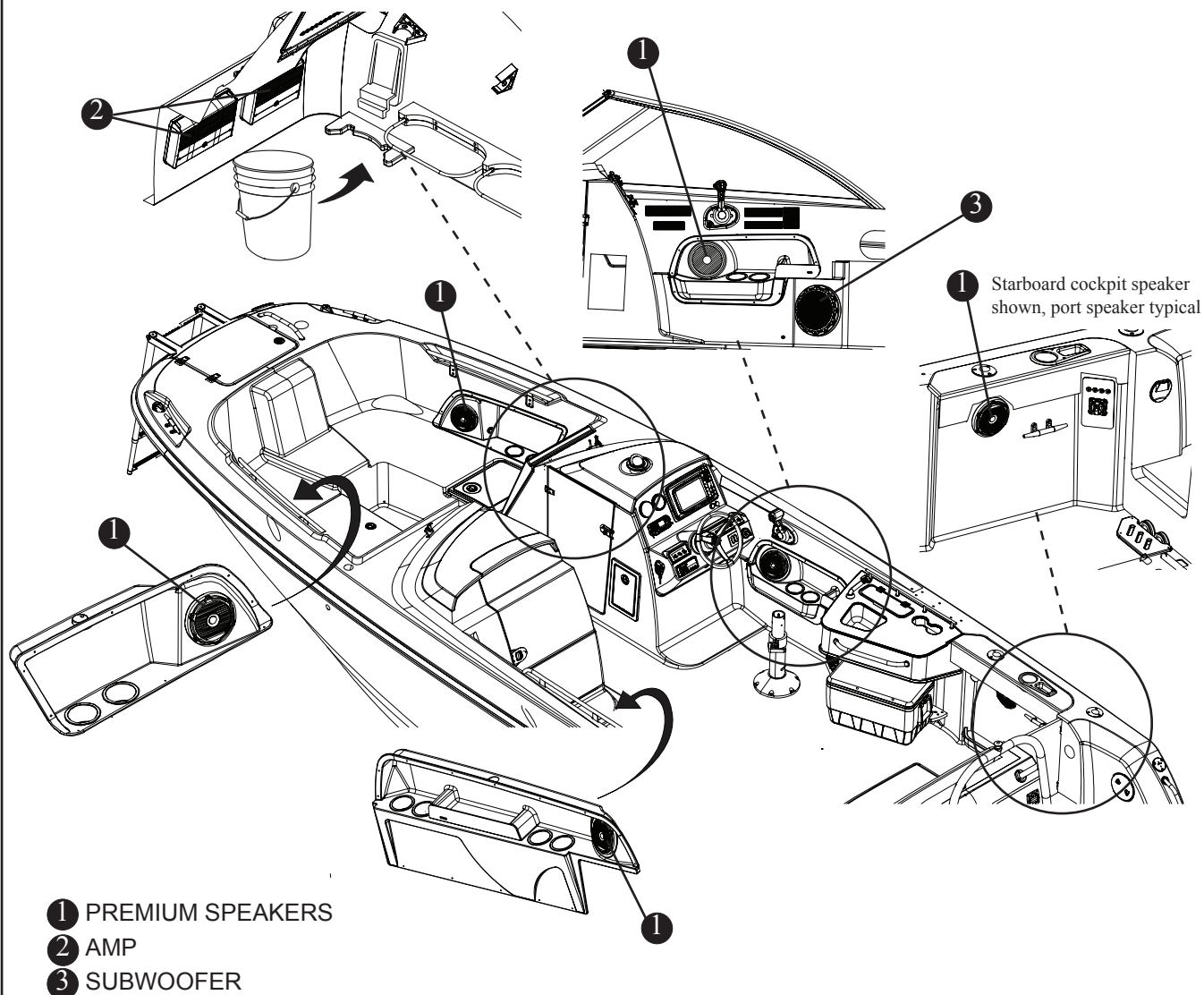
Fig. 2.14.1

- ① HARDTOP
- ② VHF ANTENNA (OPTION)
- ③ SATELLITE ANTENNA (OPTION)
- ④ TOW PYLON
- ⑤ ALL-ROUND ANCHOR LIGHT
- ⑥ OUTRIGGERS (OPTION)
- ⑦ RADOME (OPTION)
- ⑧ ROD HOLDERS (P&S)



#### Premium Audio Package (Option)

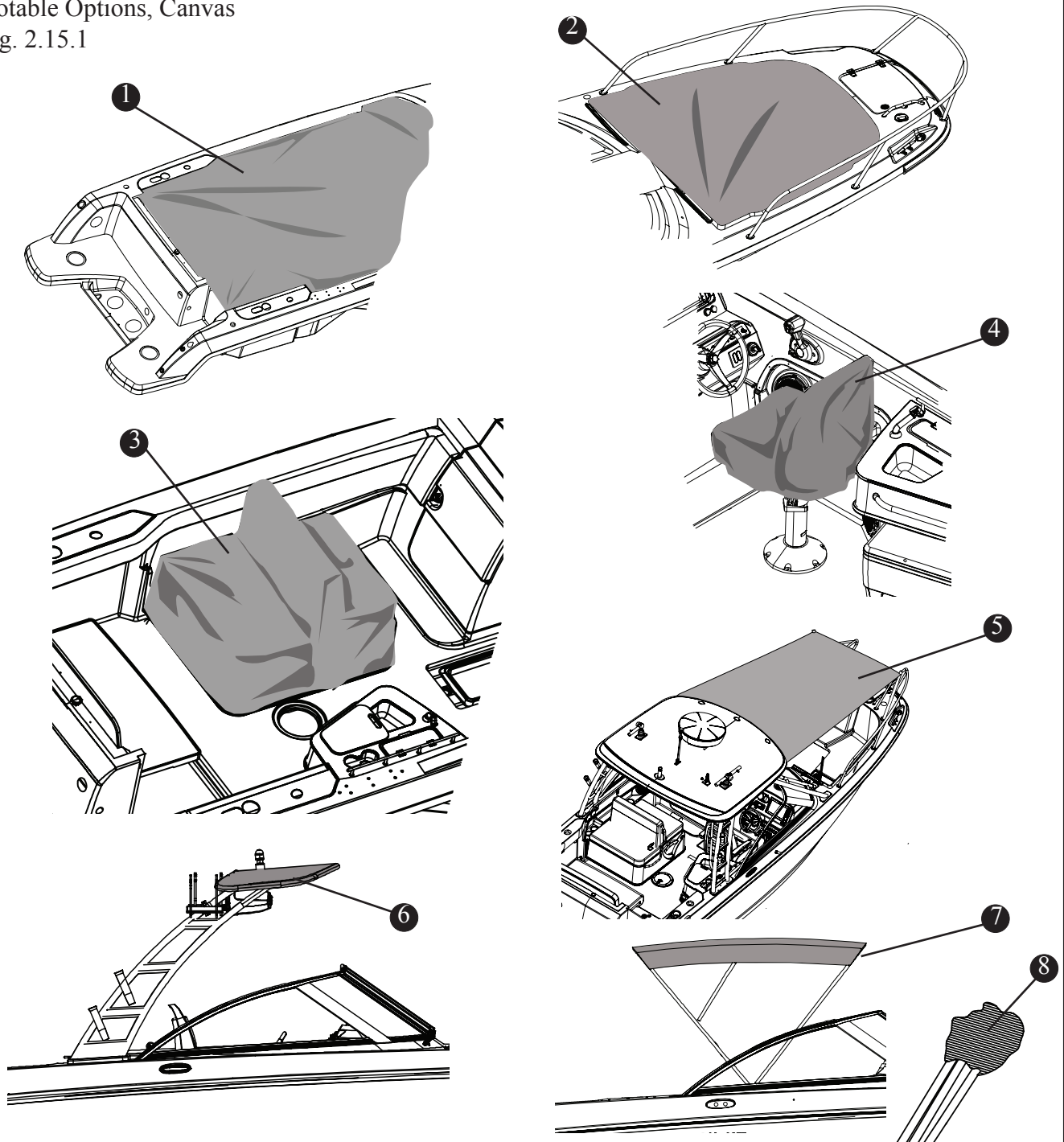
Fig. 2.14.2





### Notable Options Cont'd

Notable Options, Canvas  
Fig. 2.15.1



- ① COCKPIT COVER
- ② BOW TONNEAU COVER
- ③ PORT LOUNGE COVER
- ④ HELM SEAT COVER
- ⑤ BOW SHADE
- ⑥ BIMINI TOP\*
- ⑦ SUN TOP
- ⑧ SUN TOP STOWED IN BOOT

#### NOTICE

The sun-top canvas must be secured in canvas boot before trailering.

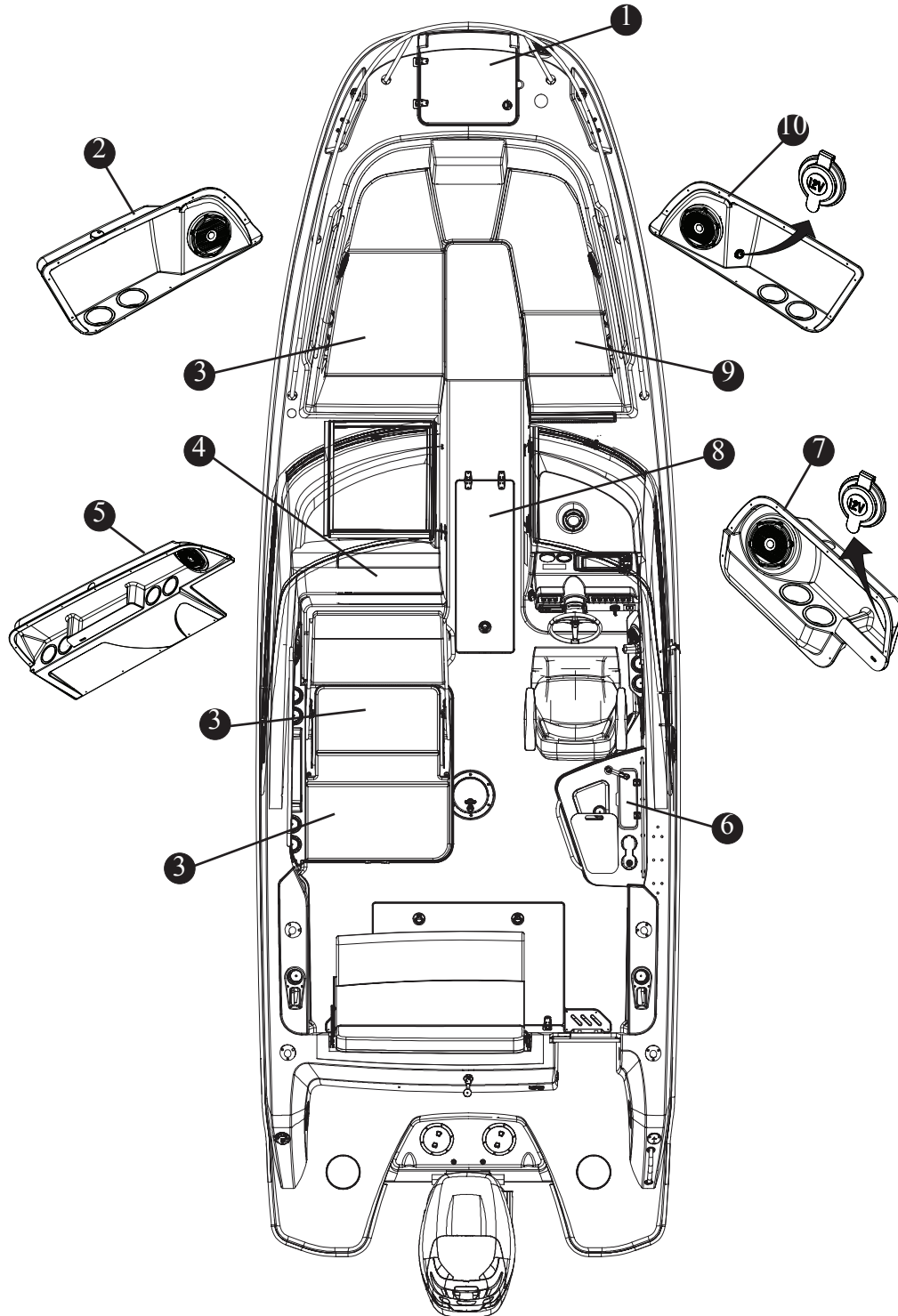
**NEVER TRAILER THE CANVAS TOP IN THE OPEN POSITION.**

NOTE: All canvas available in Black or Blue

\* Must select water tower option

### Storage

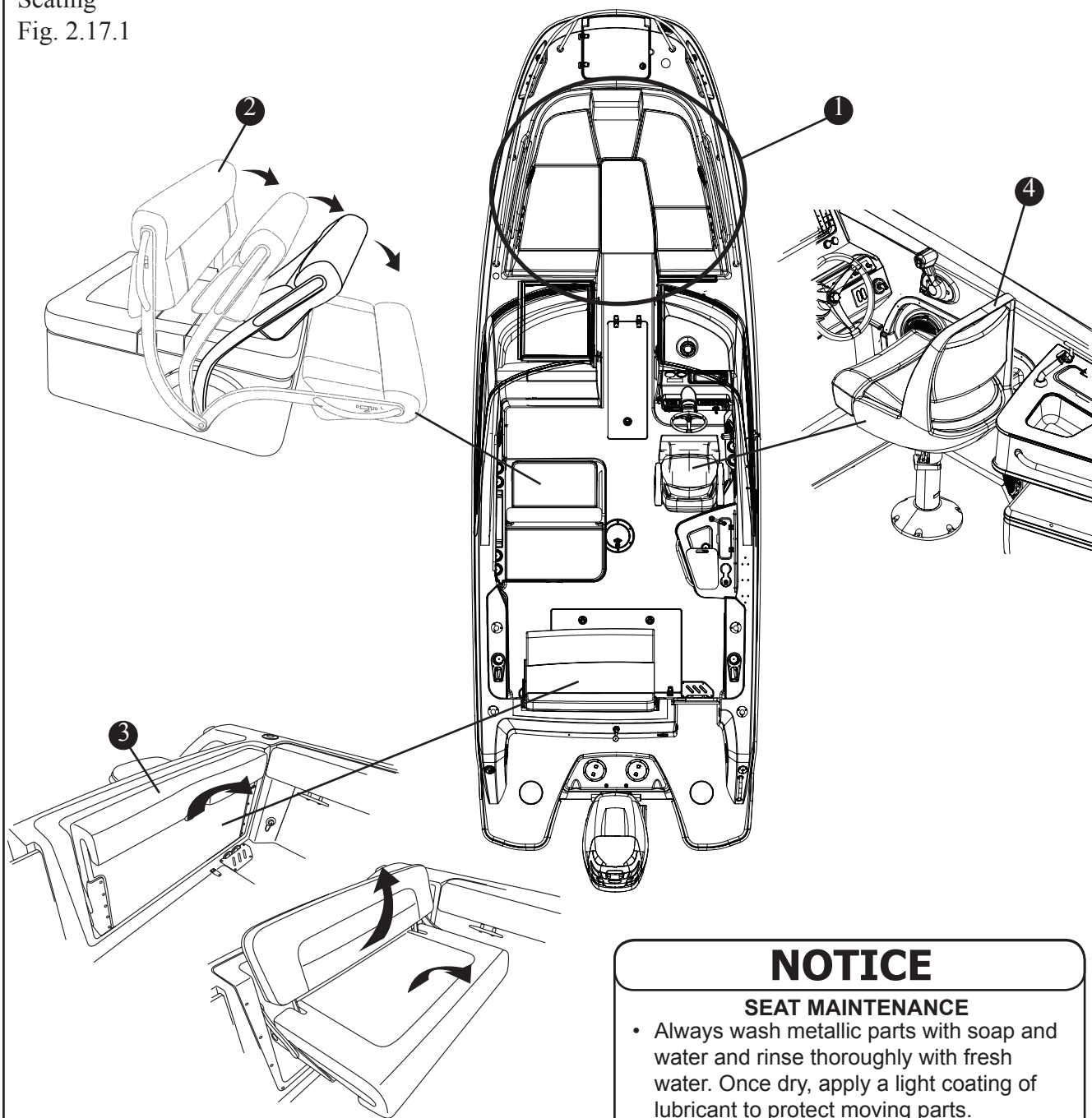
Storage  
Fig. 2.16.1



- |                                   |  |
|-----------------------------------|--|
| ① ANCHOR LOCKER W/DRAIN           | ⑥ COCKPIT SINK STORAGE                 |
| ② PORT FWD SIDE PANEL STORAGE     | ⑦ STARBOARD MIDSHIP SIDE PANEL STORAGE |
| ③ UNDER SEAT STORAGE              | ⑧ LOCKABLE DECK SKI/ROD STORAGE        |
| ④ HEAD STORAGE                    | ⑨ UNDER CONSOLE STORAGE                |
| ⑤ PORT MIDSHIP SIDE PANEL STORAGE | ⑩ STARBOARD FWD SIDE PANEL STORAGE     |

### Seating

Seating  
Fig. 2.17.1



- ① FORWARD SEATING AREA
- ② PORT CONVERTABLE LOUNGE
- ③ STERN FOLDAWAY SEAT
- ④ HELM SEAT W/ CUSHION & FOOT REST

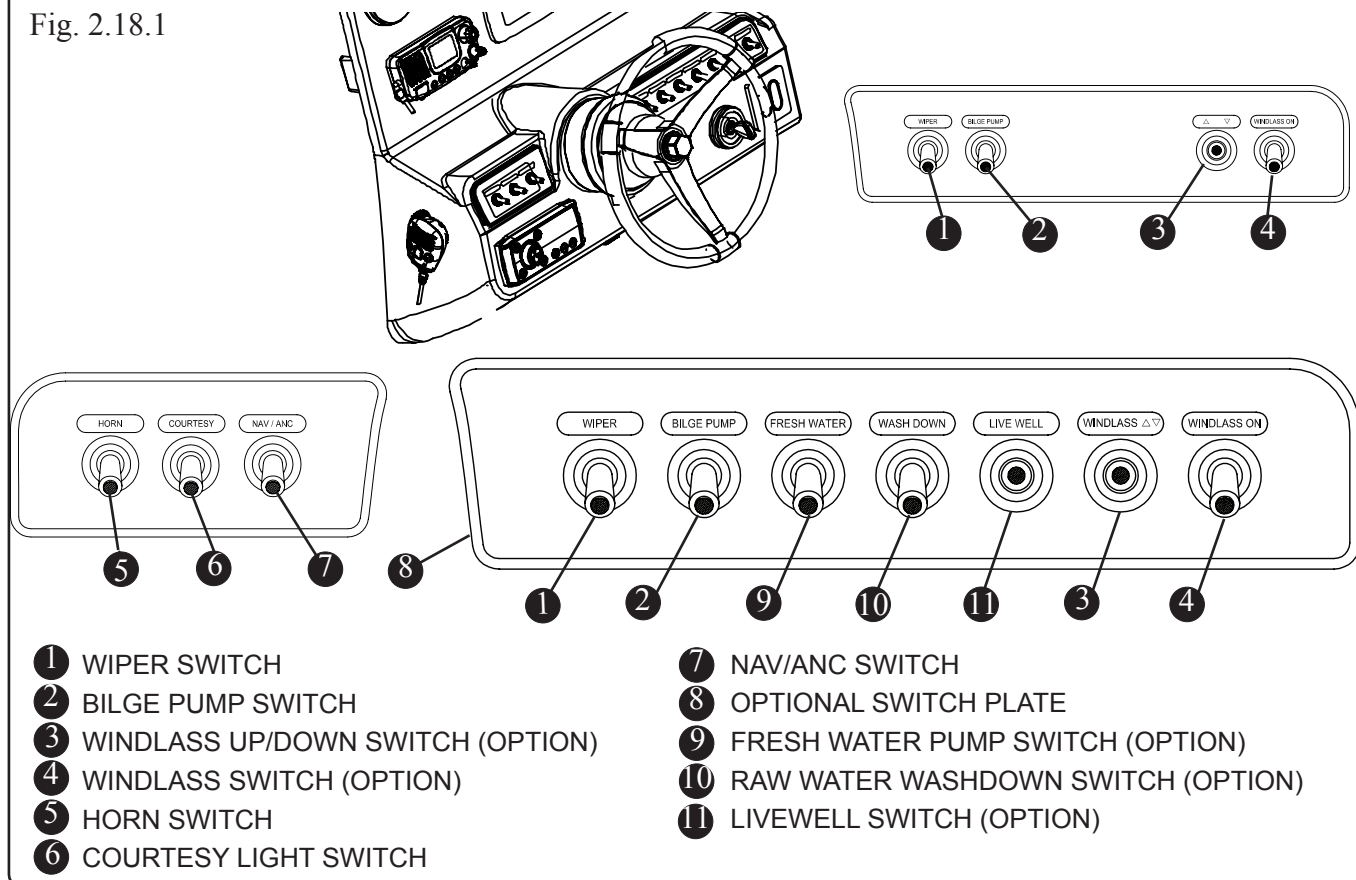
### NOTICE

#### 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.

### Switch Panels

Helm Switch Panels  
Fig. 2.18.1



### Smartcraft™ deluxe Gauges

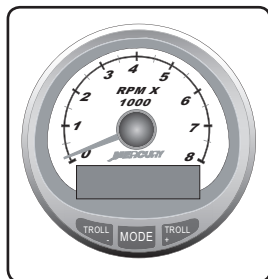
The standard gauge set on your 230 Vantage includes the Smartcraft deluxe tachometer and speedometer multi-gauge system.

By pressing the “mode” button to change displays, the operator is able to gather important data critical to the safe operation of the boat and boat systems.

#### Tachometer:

Information displayed by the tachometer gauge includes:

- Engine Break-in Time
- Water Pressure
- Fuel Flow
- Temperature
- Battery Voltage
- Power Trim Angle-Water Pressure
- Power Trim Angle

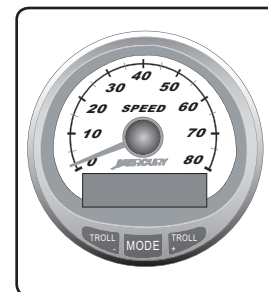


- Digital Tachometer
- Hour Meter

#### Speedometer:

Information displayed by the speedometer gauge includes:

- Clock-Temperature
- Fuel Level
- Oil Level
- Traveling Range
- Fuel Economy
- Trip Odometer
- Digital Speedometer
- Barometer



To get the most out of your Multi-system display features, you must read the manual, in your owner's packet, which is provided by the system manufacturer. The manual will give you information important for the proper operation of the Smartcraft deluxe Tachometer and Speedometer multi-gauge system.

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

### SmartCraft™ VesselView (Option)

If equipped, the VesselView 4 allows the boat operator to receive a wealth of critical operational information, displayed clearly and instantly at the helm on the LCD display. 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 master key switches, inside the console, are turned on.

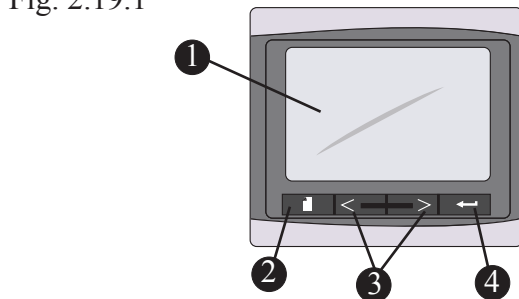
### System Calibration (For First Time Use)

Boston Whaler® or your Boston Whaler® dealer has calibrated the Smartcraft VesselView to the equipment on your boat. If equipment is added, the system will need to be recalibrated.

FOR RECALIBRATING OR MANUFACTURERS INFORMATION REFER TO THE MANUFACTURER'S OWNER'S MANUAL FOUND IN YOUR OWNER'S PACKET.

SmartCraft® VesselView (Option)

Fig. 2.19.1



- 1 DISPLAY SCREEN
- 2 MENU BUTTON
- 3 DATA NAVIGATION BUTTONS
- 4 ENTER BUTTON

### SmartCraft™ VesselView MOBILE (Option)

If equipped, VesselView MOBILE connects the SmartCraft data network to your iPhone or android mobile device via Bluetooth Low Energy4.0(BLE). With VesselView MOBILE you have the power of SmartCraft on your mobile device with all the digital data your SmartCraft engine supports plus new features such as:

- Maintenance reminders
- Mapping
- Performance summary
- Fault code diagnostics

### Gear Shift & Throttle Control

Your Verado® 4-stroke Mercury engine with Digital Throttle and gear Shift (DTS)®, a state of the art “drive-by-wire” gear shift and throttle control system is the latest technology in recreational boating.

The gear shift/throttle control unit mounted on the gunwale starboard of the helm activates both the shifting mechanism and throttle.

The throttle control regulates the RPM of the engine. Regulating the RPM of the engine will control the speed of the boat. Moving the lever forward engages the forward gear. Continuing to move the lever forward will increase the forward speed of the boat.

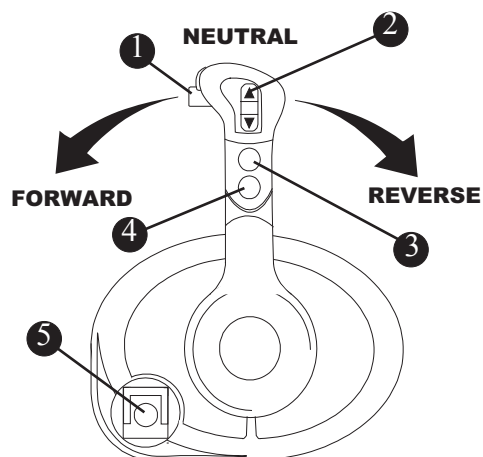
Likewise, to reverse power, bring the control lever back to engage the reverse gear and increase the reverse thrust by continuing to pull back on the throttle control..

The control must be in the “NEUTRAL” position to start your engine. Neutral is the most upright position of the control unit and acts as an idle. While in this position, the propeller is not rotating.

There is a “THROTTLE ONLY” button on the throttle control that when depressed will disengage the shifting mechanism and will allow you to operate the throttle without engaging the propeller. The button will automatically engage the shifting



Digital Throttle and Shift  
Fig. 2.20.1



- 1 SHIFT LOCK
- 2 ENGINE TRIM SWITCH
- 3 THROTTLE ONLY BUTTON
- 4 ENGINE STOP/START BUTTON
- 5 EMERGENCY SHUT DOWN SWITCH

mechanism once the throttle control has been moved back to its center position (you will hear and feel a click when it is engaged).

The DTS® system can be monitored through the use of the optional Smartcraft® VesselView display which will give you a visual readout of all functions regarding your boat's engine, direction, and applicable fluid capacities.

### ! CAUTION

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

### NOTICE

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

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

### Engine Emergency Safety Cut Out Switch

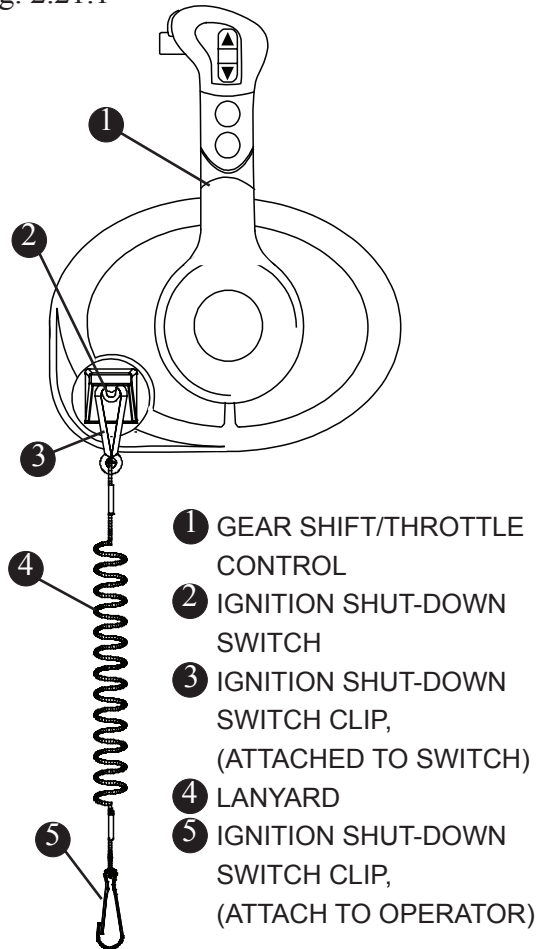
The 230 Vantage is equipped with an engine shut down (Cut Out) safety switch located on the gear shift/throttle control, starboard of the helm. The engine shut down safety switch incorporates a shut-off switch, switch clip, lanyard and lanyard clip, which is clipped to the operator. If an emergency arises where the engine must be shut down, a pull on the cord to release the clip from the shut-off will shut down the engine. This switch is designed to shut the engine off when the operator of the boat leaves the control station, either accidentally by falling into the boat, or by being ejected overboard. This would most likely occur as a result of poor operating practices. This switch only works when properly used. The decision of whether to use an ignition safety switch or not rests with you, the owner/operator.

### ! CAUTION

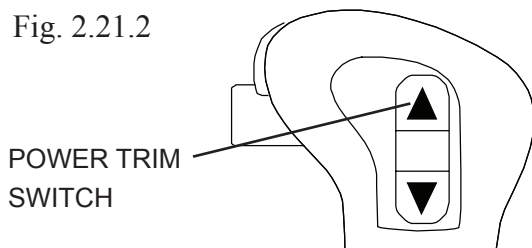
**Wear your lanyard at all times while operating the boat. It is for emergency stopping only. Do not use it to shut off the engine during normal operation. The lanyard should be long enough to prevent inadvertent activation.**



Ignition Shutdown Safety Switch  
Fig. 2.21.1



Power Trim Switch  
Fig. 2.21.2



### Power Trim Operation

The power trim & tilt system located on the gear shift/throttle lever (figure 2.21.2) allows you to raise and lower the engine for optimum performance in the water and for trailering, launching and beaching. The switch is a momentary switch; which means that constant pressure must be applied to the switch during the raising and lowering cycle. This also allows for ideal boat angle (in relation to the water

surface) for a given load and water condition. In most cases, best all-round performance is obtained with the engine adjusted so that the boat will run at a 3° to 5° angle to the water.

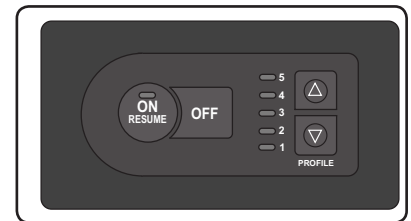
## NOTICE

**Boats can be operated in a manner and speeds resulting in trim angles that cause visibility to be obscured. Motor trim, hull trim plane and speed are factors that affect a boat's trim angle.**

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

### Active Trim (Option)

Active Trim provides the benefit of perfect trimming without constantly monitoring and adjusting trim with changes to boat speed or when going into turns.



Active Trim controls the trim in accordance with boat speed and engine rpm. This avoids potential problems such as engines trimming up (instead of down) if the propeller breaks loose in a hard turn. It also avoids issues with the engine trimming up too early or too late when the boat is getting on plane.

Active Trim has five selectable trim profiles that accommodate nearly any boat application. These profiles allow operators to compensate for changes in boat load, operator preference and weather conditions, while maintaining full auto operation.

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

### Navigation Lighting

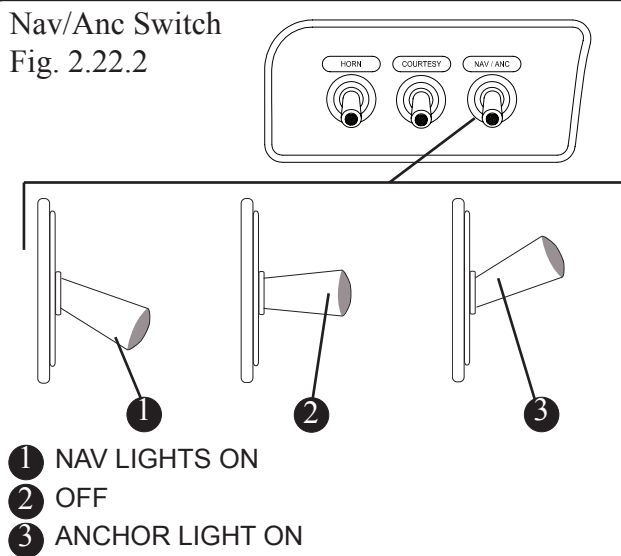
Your boat comes equipped with navigation lighting for your safety. Regulations state that all boats, no matter the size, must display navigation lights. The lights must be displayed at night or in low visibility conditions. It is the responsibility of the owner/operator to ensure that the navigation lights are in good working order and that the proper lighting is shown

### Operating the Navigation Lighting

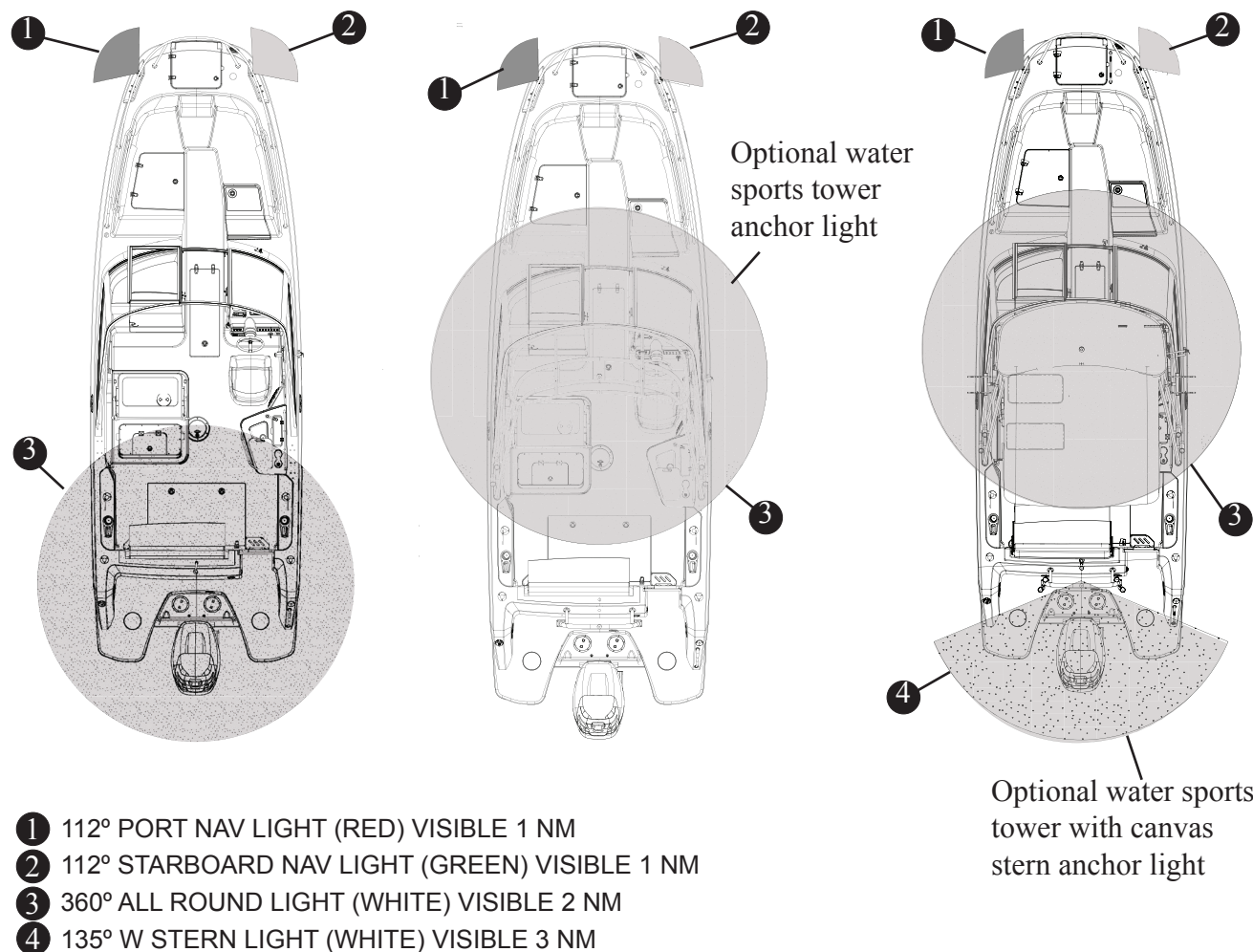
A three-position switch, located on the console switch panel marked “NAV/ANC” (See figure 2.17.1), controls the navigation and anchor lighting. In the “Navigation Lights” position (see figure 2.22.2), the port (red) and starboard (green) lights will illuminate. These lights let other vessels know the approximate size and direction of travel of your boat, depending on which lights they can see. In the

“Anchor Lights” position, the white, 360-degree light will illuminate, showing other boaters your location while at anchor.

Nav/Anc Switch  
Fig. 2.22.2



Navigation/Anchor Lighting  
Fig. 2.22.1



### Trim tabs

#### 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/in.**

**It is recommended that you check the level of the fluid in the reservoir before using your boat.**

Your boat is equipped with electrically powered trim tabs.

The trim tabs (See figure 2.23.1) are located on the lower section of your transom and are used to trim the list of your boat caused by uneven weight distribution, too many persons on one side of the boat, or strong cross winds. An untrimmed boat will:

- Decrease operator visibility
- Reduce fuel economy
- Increase wear on your engine.

While accelerating there is some loss of forward visibility before the boat is on plane, the trim tabs can be used to adjust for forward visibility while underway.

### Operation

The trim tabs are controlled by rocker switches located on the console starboard of the ignition (See figure 2.10.1). Short momentary bursts of the rockers will achieve proper attitude of the hull. The trim tab switch is marked “bow up” and “bow down”.

Using the trim tabs will:

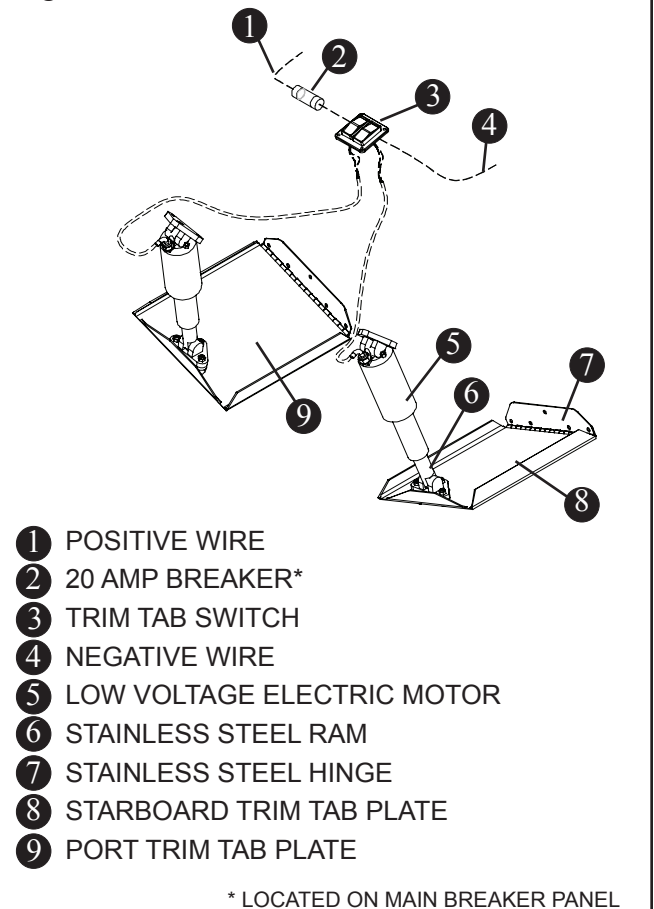
- Level the boat; fore and aft.
- Reduce resistance in the steering system.
- Give you a smoother more stable ride.

### Maintenance

The trim tabs are a completely sealed unit and are waterproof and maintenance free. Aside from a general cleaning when the boat is out of the water you should also inspect the planes and hinges for marine growth; remove as necessary.

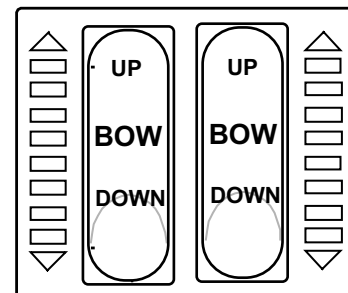
#### Electrically Powered Trim Tabs

Fig. 2.23.1



#### Trim Tab switch w/indicators

Fig. 2.23.2

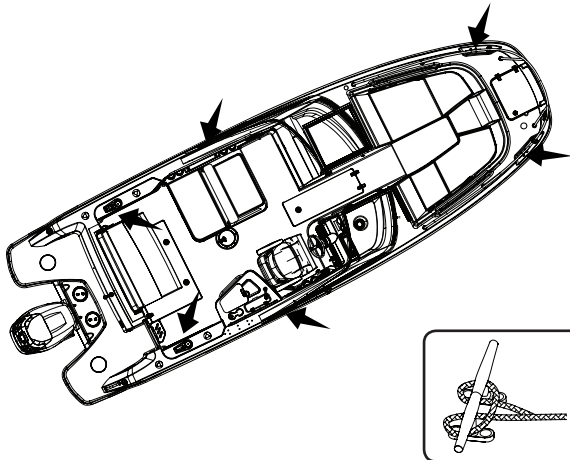


REFER TO THE MANUFACTURER'S MANUAL IN YOUR OWNER'S MANUAL PACKET FOR COMPLETE INSTRUCTIONS AND WARRANTY.

### Docking, lifting and trailering

#### Docking

Cleat Locations  
Fig. 2.24.1



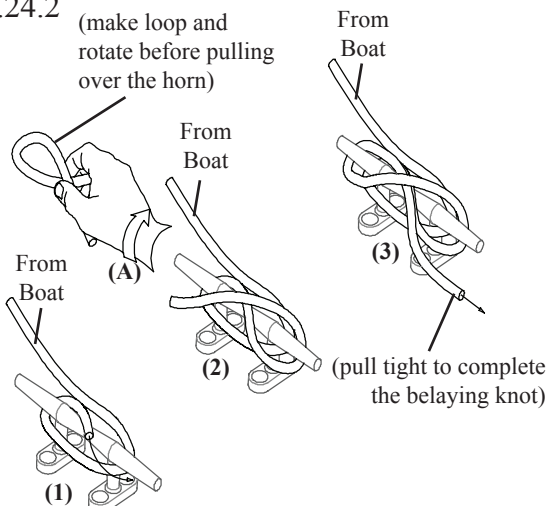
Your boat has (6) 8 inch cleats, two located at the bow, two located amidship and two located at the stern, forward of the transom.

The cleat is 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.

#### Belaying Knot

Fig. 2.24.2



#### Lifting

### ⚠ DANGER

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

The bow eye is used to haul 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.**

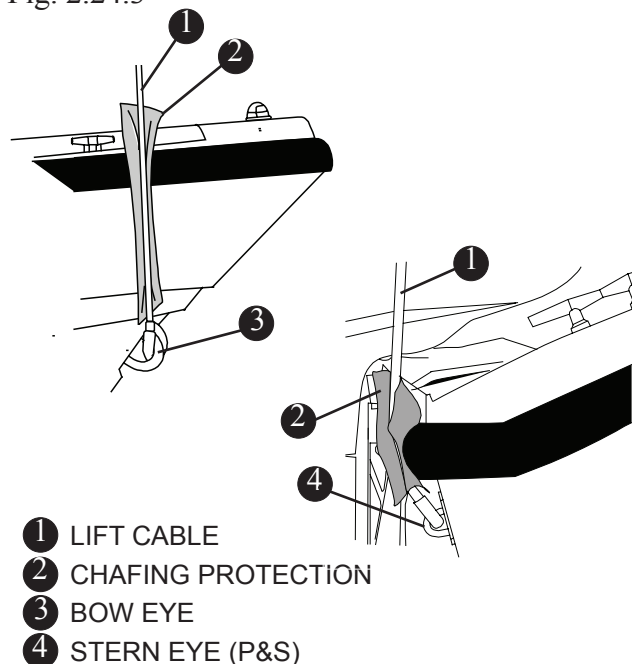
### ⚠ CAUTION

**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.

#### Proper Short Duration lifting

Fig. 2.24.3



## Section 2 • General Information

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, belting sling for lifting ,to minimize stress on the gunwales. Careful location of the sling is required. **DO NOT PLACE SLINGS WHERE UNDER WATER FITTINGS WILL BE IN CONTACT.**
- 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.

### Trailerling

Your 230 Vantage has the option of being fitted with an aluminum trailer. This trailer is best suited for your boats length and width. If you have a trailer or plan on purchasing a trailer separately; there are some points you need to consider, such as:

- Having a center roller and keel guards will help provide good support for the keel, also provide good fore and aft support.

### NOTICE

**Your warranty may be void if you use a trailer with rollers. Use a trailer with bunks ONLY**

- Trailers equipped with rollers instead of bunks can damage the foam sandwich hull of your boat and should never be used.
- Bunks provide a more even weight distribution.

### Trailer Safety

#### Securing the Boat to the Trailer

**Safety Chain** - There is a safety chain 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.



### CAUTION

**NEVER use a hitch ball and coupler that are not matched.**

#### Securing the Trailer to the Tow Vehicle

**Safety Chains** - Safety chains are also important; the chains 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.

Make certain that the coupler and the hitch ball are properly seated and locked.



### DANGER

**Tie-down straps should never be used by themselves, they are only used to help in keeping the boat secured to the trailer. Make certain that the safety chain is properly secured to the bow eye.**

REFER TO THE ENGINE MANUAL IN YOUR OWNER'S MANUAL PACKET FOR PROPER ENGINE SUPPORT WHILE TRAILERING.



### Trailer the Engine

It is best to trailer your 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.

Your Boston Whaler® dealer will have recommendations regarding the support of your engine.



### CAUTION

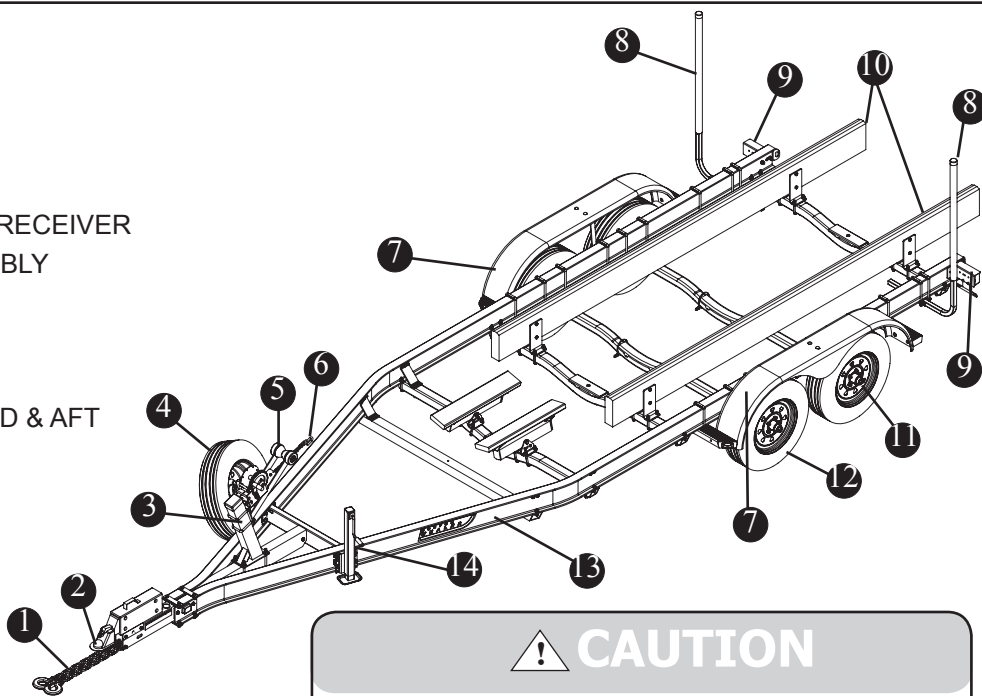
**DO NOT** rely on the power trim/tilt system or tilt support lever on your outboard to maintain proper ground clearance for trailering. **THE OUTBOARD TILT SUPPORT LEVER IS NOT INTENDED TO SUPPORT THE OUTBOARD FOR TRAILERING**

### Trailer Description

Bunk Trailer (Option)

Fig. 2.26.1

- ① SAFETY CHAINS
- ② TONGUE/BALL HITCH RECEIVER
- ③ WINCH STAND/ASSEMBLY
- ④ SPARE TIRE
- ⑤ CABLE ROLLER
- ⑥ WINCH HOOK/CABLE
- ⑦ FENDER W/STEPS FWD & AFT
- ⑧ GUIDEPOST
- ⑨ TAILLIGHT
- ⑩ BUNK ASSEMBLY
- ⑪ DUAL AXLES
- ⑫ RADIAL TIRES
- ⑬ TRAILER FRAME
- ⑭ TONGUE JACK



### CAUTION

**DO NOT** secure the chains to the bumper of the tow vehicle.

Actual trailer not shown. Trailer illustrated is typical construction.

### Bilge Pump

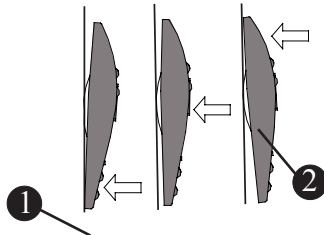
The bilge pump located in the aft bilge is rated at 1100 GPH (4164 LPH). The pump is activated automatically by a float switch (non-mercury) when the water in the bilge reaches a predetermined level.

#### Operation

A switch on the console switch panel labeled “AFT BILGE” (See figure 2.10.1) controls the operation of the pump. The switch should remain in the AUTO position while in use, unless the operator wishes to manually operate the pump by switching to the on position.

Bilge Pump Switch

Fig. 3.1.1



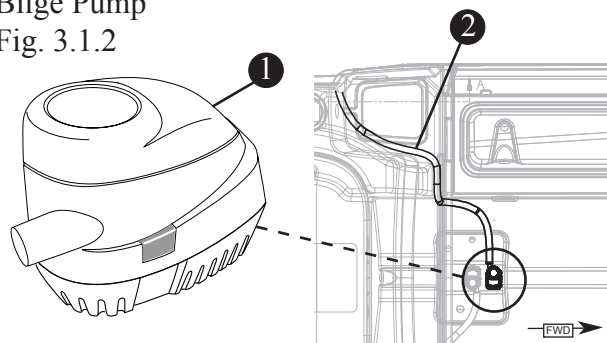
- 1 BILGE PUMP “AUTO”
- 2 BILGE PUMP “ON”

### NOTICE

**The bilge pump is 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.**

Bilge Pump

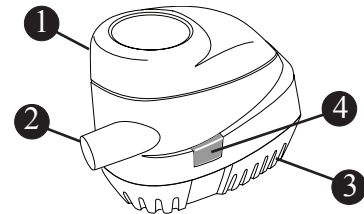
Fig. 3.1.2



- 1 BILGE PUMP (1100 GPH/4164 LPH)
- 2 DISCHARGE HOSE TO THRU HULL DRAIN

### Bilge Pump Maintenance

Fig. 3.1.3



- 1 BILGE PUMP (1100 GPH/4164 LPH)
- 2 OUTLET
- 3 WATER INTAKE
- 4 LOCKING TAB (ON EACH SIDE)

### Maintenance

Frequently inspect the area under the float switch to ensure it is 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.

**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.

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.

### 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 clean up, which can be substantial.

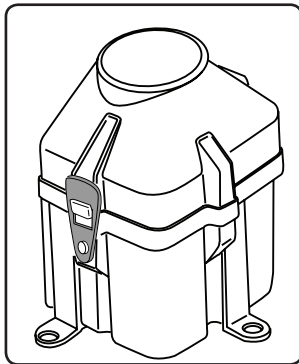
### CAUTION

**Oil and fuel spills can be dangerous and can subject offenders to severe penalties**

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.

### Power Steering

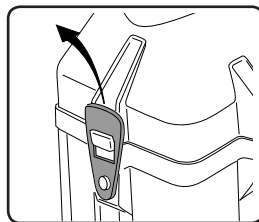
The Verado four-stroke engine uses an enclosed hydraulic pump unit. **The pump is electrically operated to provide hydraulic pressure to the steering system.** The pump is located in the aft port side of the bilge and can be accessed by lifting the equipment hatch in the aft cockpit deck.



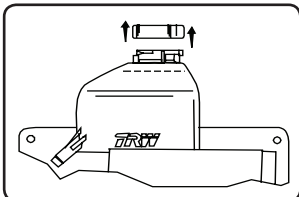
### Filling & Maintenance

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.

- Remove the pump cover by pulling up and out on the locking tabs on the sides of the unit.



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



### CAUTION

**Continuous kinking, rubbing and twisting may weaken hose(s) to a point of rupture. Visually inspect all hoses for wear and damage.**

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

Proper maintenance of this system will ensure worry-free usage for the life of your boat. Steering system integrity is imperative when engaging in recreational water activities. Special care and attention must be taken to ensure proper performance of the steering system and should include the following:

- After the first few hours of operation and at regular intervals, check all fasteners and the complete steering system for security and integrity.
- Inspect for corrosion. Any part affected by corrosion must be replaced.
- When replacing parts, self locking hardware must be used.
- Check the fluid level in the helm pump unit.
- Lubricate slides on the engine cylinders.

All steering systems whether mechanical or hydraulic require regular inspections, periodic adjustment and occasional replacement may be necessary.

### CAUTION

**Do not cover cracks in the steering cable or fittings with tape or other sealants. This will create a hazard in which the cable can fail suddenly without warning.**

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

### Fuel System

### NOTICE

**If equipped with a 300 or 350 HP Verado® engine, the use of 91 octane fuel is recommended.**



### 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.
- 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.



### 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.

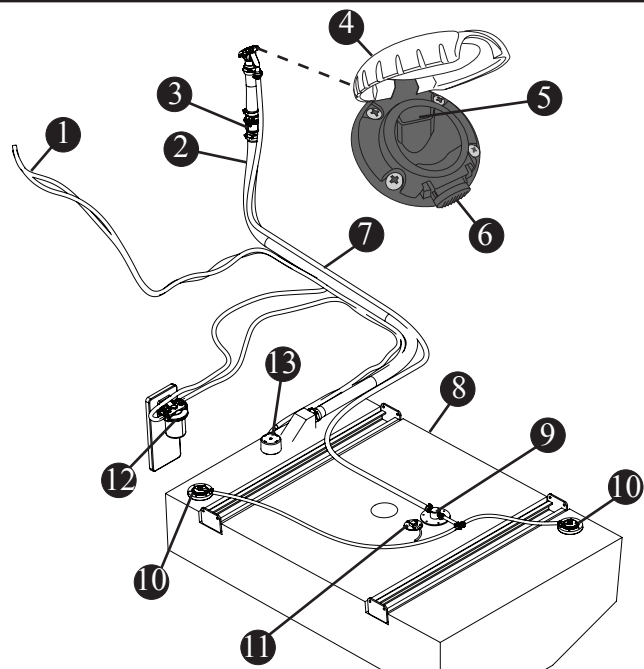
#### Fuel tank

Your boat is equipped with a low permeation crosslink Polyethylene fuel tank with a usable fuel capacity of 110 gallons (416 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**

#### Fuel Tank

Fig. 3.3.1

- 1 FUEL FEED TO ENGINE
- 2 FUEL FILL HOSE
- 3 INTEGRATED CHECK VALVE (ICV)
- 4 FUEL FILL DECK FITTING W/INTEGRATED VENT
- 5 INTEGRATED VENT
- 6 FUEL CAP RELEASE BUTTON
- 7 FUEL VENT HOSE
- 8 110 GAL (416 L) FUEL TANK
- 9 FILL LIMIT VENT VALVE (FLVV)
- 10 GRADE VALVE
- 11 FUEL SENSOR
- 12 FUEL/WATER SEPARATOR
- 13 FUEL DEMAND VALVE (FDV)



**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 fig. 3.4.1). 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.

### Fuel Distribution System

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.

### Filling The Tank

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 shut off system (Fuel Fill Deck Fitting, Integrated Check Valve, Fill Limit Vent

Valve), guarantees the boater a clean a trouble-free fill -up. Details such as the 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.

### 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.**

### NOTICE

**FUEL GAUGE only reads accurately when boat is level (not underway).**

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

### Static Electricity and the Fuel System

### DANGER

**Static electricity can ignite gasoline vapors causing serious injury/death and/or destruction of property.**

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.)



## Section 3 • Systems & Components Overview & Operation

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

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. Here are some helpful suggestions to keep you safe from static electricity while refueling your boat.

- 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 engine, motors and fans prior to taking on fuel. Any ignition sources should be extinguished before filling the fuel tank.
- 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 the ground; never on-board the boat.

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

REFER TO THE “DO’S AND DON’TS AT THE GAS PUMP” DVD IN YOUR OWNER’S MANUAL PACKET FOR MORE INFORMATION.

### Ethanol-Blended Fuels

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 a maximum level of 10% ethanol-blended gasoline (E10).

### 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.**

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.

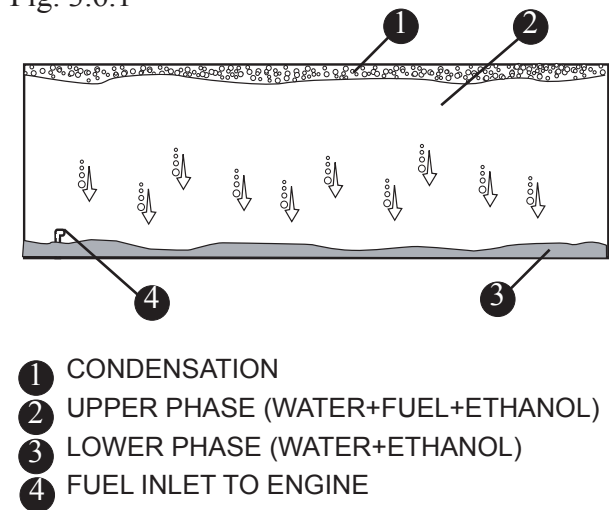
Your boat was manufactured, and shipped from the factory, with ethanol-compatible materials. Before introducing gasoline with ethanol into your fuel tank, ask your dealer if any components have been added or replaced that are not recommended by Boston Whaler, Mercury or may not be ethanol-compatible.

### Maintaining a Full 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.

### Example of Phase Separation

Fig. 3.6.1



### 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.



### 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.**

### Additives

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.

### Starting the Engine



#### CAUTION

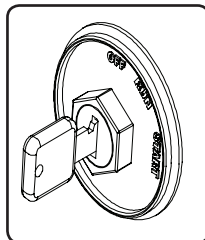
**NEVER start or operate your outboard (even momentarily) without water circulating through all the cooling water intake holes in the gear case to prevent damage to the water pump (running dry) or overheating of the engine.**

The ignition key switch located starboard of the helm incorporates the following settings:

**OFF** = No power to engine, instrument panels, etc.

**RUN** = Power to instrument panels and gauges

**START** = Power to start engine



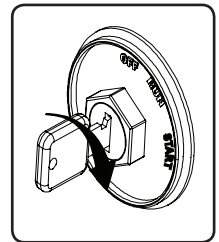
### Prior to Starting

- Make sure that the lower unit of the engine is in the water.
- Make certain the gear shift/throttle control is in the neutral position. (The engine will not start if the control lever is in any other position than NEUTRAL)

NOTE: The engine can be started by using the ignition key or the start/stop button located on the remote control handle.

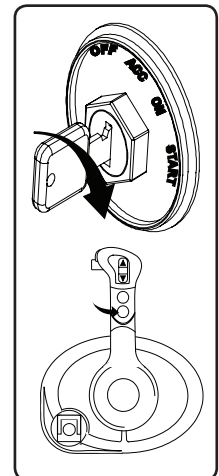
### Ignition key starting

Turn the ignition key to the “START” position and release the key. The electronic starting system will automatically crank the engine for starting. If the engine fails to start, the engine will stop cranking. Turn the key to “START” position again until engine starts.



### DTS Stop/Start Button starting

Turn the ignition key to the “ON” position and press start/stop button and release. The electronic starting system will automatically crank the engine for starting. If the engine fails to start, the engine will stop cranking. Press start/stop button and release again until engine starts.



### Stopping The Engine

Make sure the boat is securely moored to the dock before shutting down the engine.

Shift gearshift/throttle control to the “NEUTRAL” position and turn key switch to the “OFF” position.

If using the optional DTS® System View 5000S when powering down it is recommended that you turn the key switch to “START”. This will stop the engine, and still give you power to trim the engine.

Reduce engine speed and shift outboard to “NEUTRAL”. Turn key switch “OFF”.

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

### Fresh Water System (Option)

If equipped, the freshwater system includes: Pump, plumbing, holding tank and connections for water service to the shower located on the starboard side of the aft cockpit.

The 20 Gal. (76 L) freshwater tank is located in the aft bilge and can be reached through an access plate in the motorwell.

The fill cap is located on the aft starboard side of the boat. 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.

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.

### NOTICE

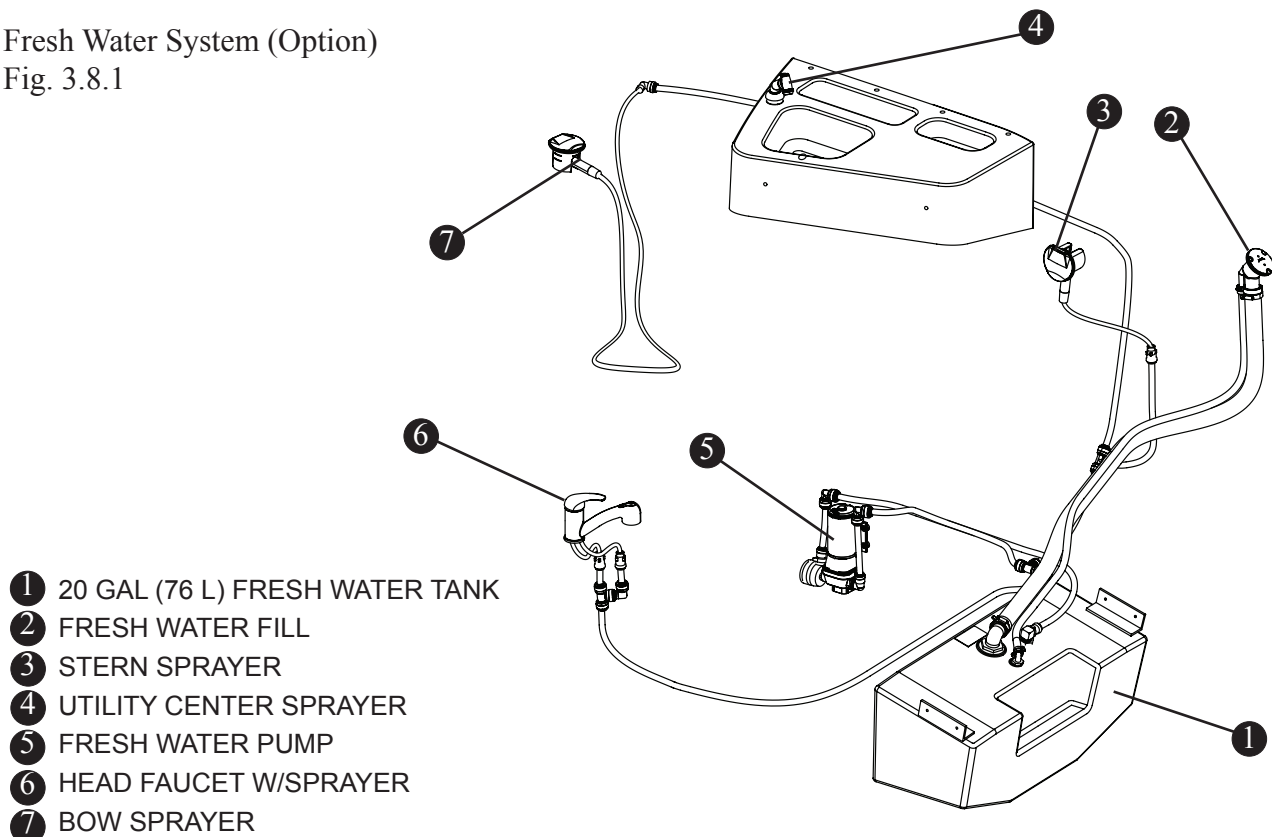
- **Be sure to fill the water tank from a source known to provide safe, pure drinking water.**
- **If you do not use the freshwater system for long periods of time or only use it seasonally it is recommended that you follow the disinfecting practice before using it.**

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 potable water.

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

### Fresh Water System (Option)

Fig. 3.8.1



### Raw Water System

The raw water deck fitting is located on the port side of the aft cockpit. A 3.5 GPM (13 LPM) pump supplies seawater to the deck fitting. The fitting allows for connection of a common garden hose.

#### Operation

### NOTICE

**The seacock MUST be in the OPEN position. Running the pump dry may cause damage to the unit.**

The raw water washdown pump is activated by the “WSH DWN” switch on the console switch panel (See figure 2.10.1).

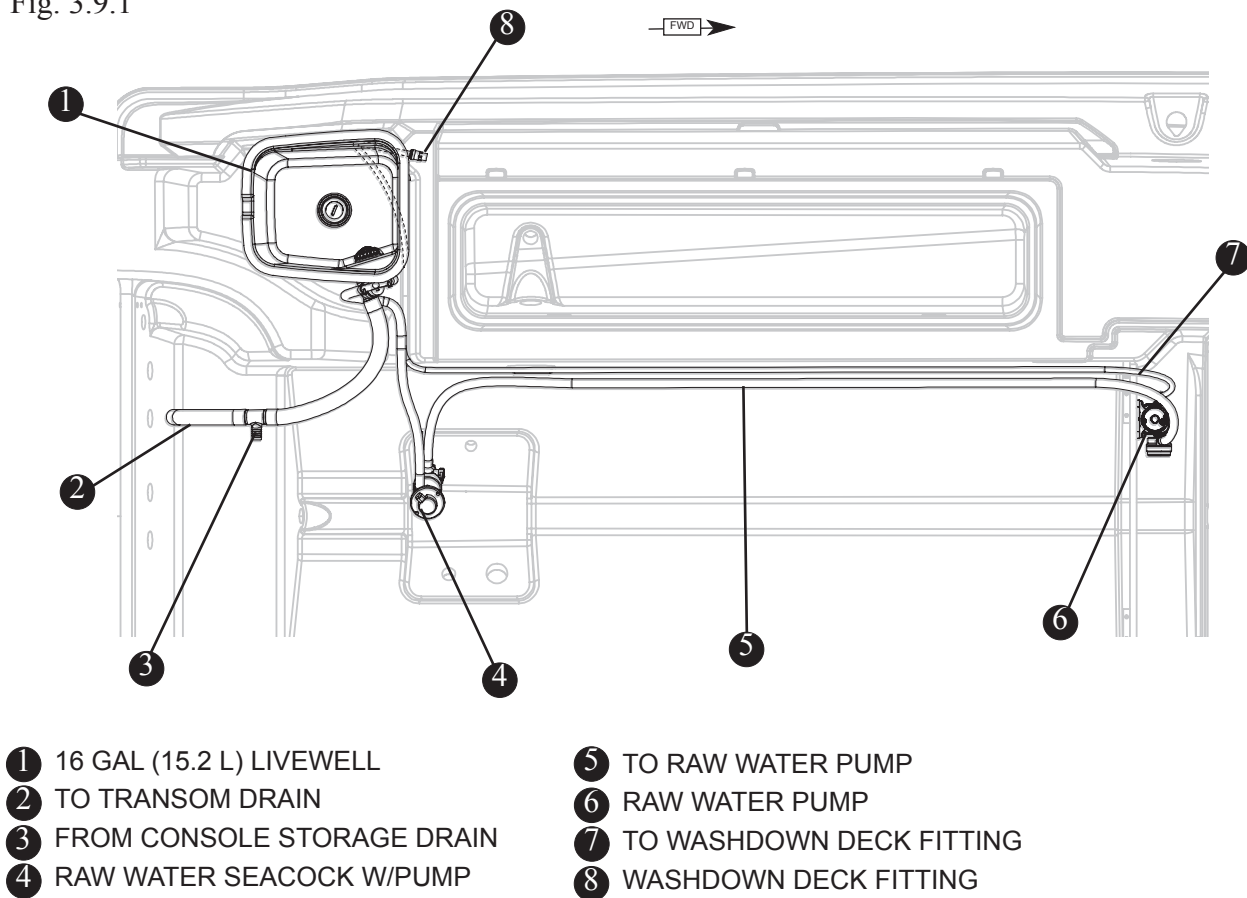
The seacock for the pump must be in the OPEN position before using. The seacock can be accessed through the cockpit deck hatch..

#### Maintenance

Maintenance of the raw water system will require you to check the fittings and hoses for system integrity to prevent leaks. The system should be run at least every other month to keep the pumps impellers in good condition. Clean the seacock intake(s), located on the bottom aft of the hull on the port and starboard sides, of any debris or build-up when the boat is in drydock or trailered.

Raw Water System

Fig. 3.9.1





## Section 3 • Systems & Components Overview & Operation

### Livewell (Option)

Your boat may be equipped with an insulated, 14 Gal. (53 L) livewell that is located under the aft cushion of the port lounge. The livewell system's primary function is to keep bait fish alive by circulating seawater into the livewell bucket. The seacock, plumbing and raw water pump option that service the system can be reached through the cockpit deck hatch.

### Operation

The livewell can be filled by using the switch marked "LIVE WELL" on the console switch panel (See figure 2.17.1).

Before filling the livewell, you must make certain the hull seacock is in the open position. The hull seacock can be accessed through the cockpit deck hatch.

A flow control valve (Figure 3.10.1) at the livewell water inlet controls the flow of water into the livewell. To increase the water flow, turn the valve counterclockwise. To decrease flow, turn the valve clockwise.

### NOTICE

**The seacock MUST be in the OPEN position. Running the pump dry may cause damage to the unit.**

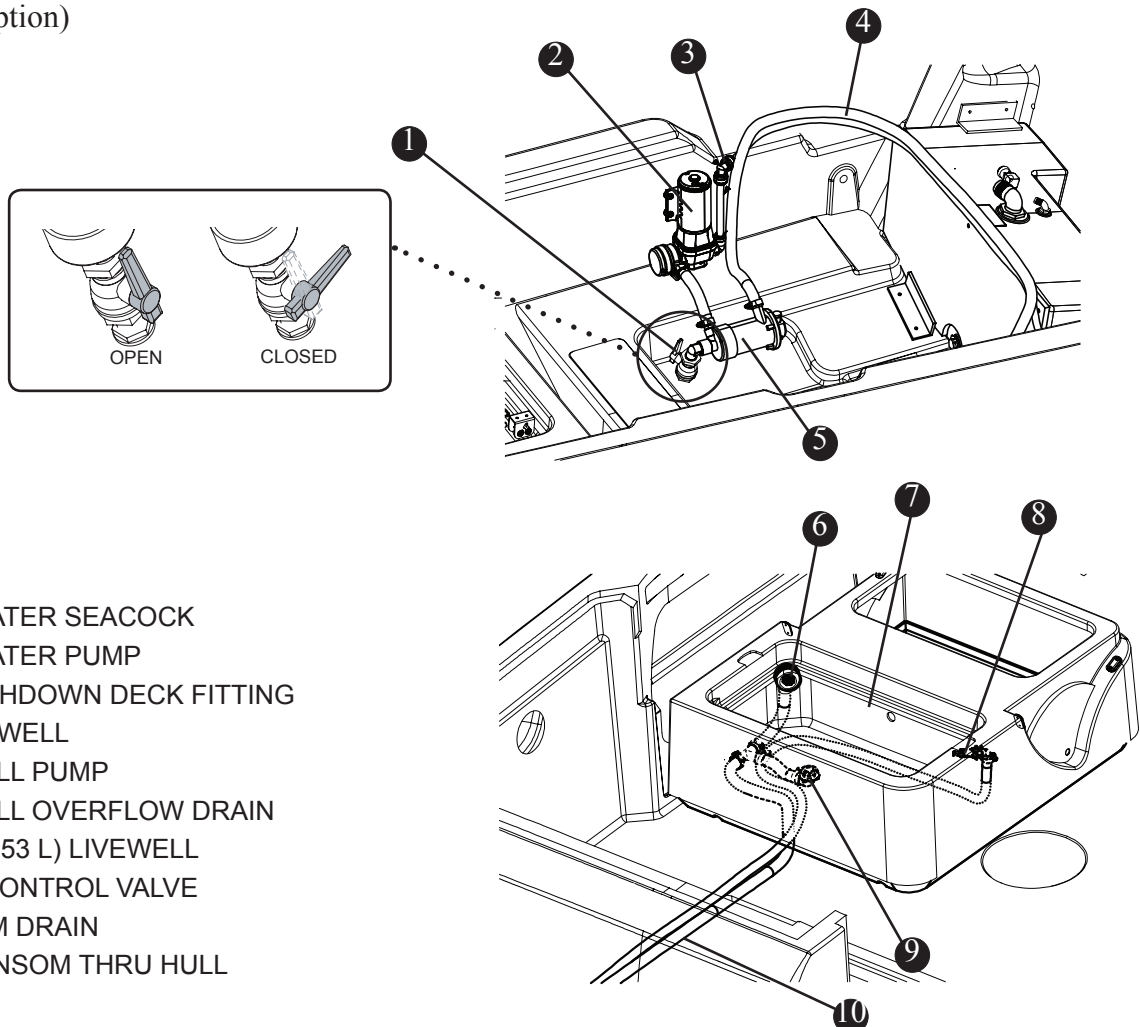
### NOTICE

**Having both the raw water seacock and flow control valve open at the same time will fill the livewell with water.**

**If you wish to use the livewell for dry storage, make certain to CLOSE the raw water seacock and/or the flow control valve. Failure to do so will allow water to enter the livewell bucket.**

Livewell (Option)

Fig. 3.10.1



### Maintenance

Maintenance of the livewell system will require you to check the seacock intake strainer for debris and impediments, this can be done visually on dry land. The intake strainer is located on the bottom aft of the hull on the starboard side.

### Head System

#### NOTICE

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

Your boat is fitted with a portable waste containment system with deck pump out. The system is located in the port storage area. The portable head has a lower tank and an upper tank. Waste is directed to the lower section of the tank which has a holding capacity of 2.8 gal. (10.6L).

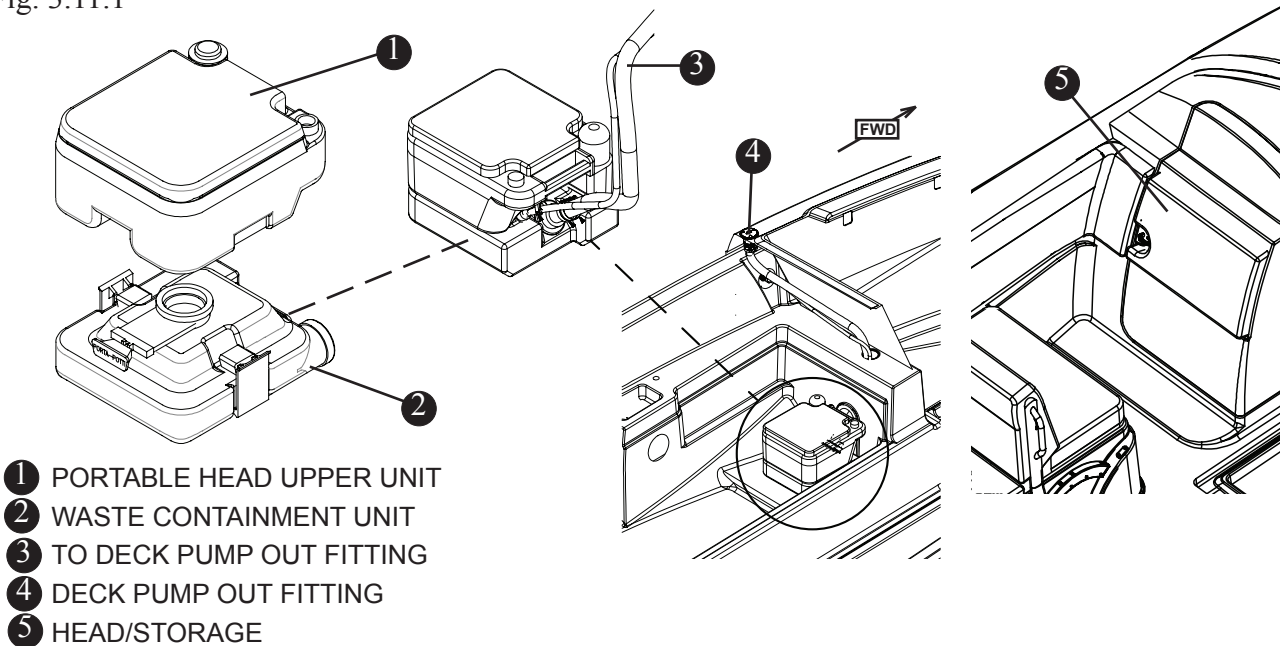
FOLLOW ALL INSTRUCTIONS PERTAINING TO THE OPERATION, CARE, AND MAINTENANCE OF THE WASTE SYSTEM IN YOUR MARINE TOILET MANUAL.

### 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)

Portable Head w/deck pump out  
Fig. 3.11.1



### Port Convertible Lounge

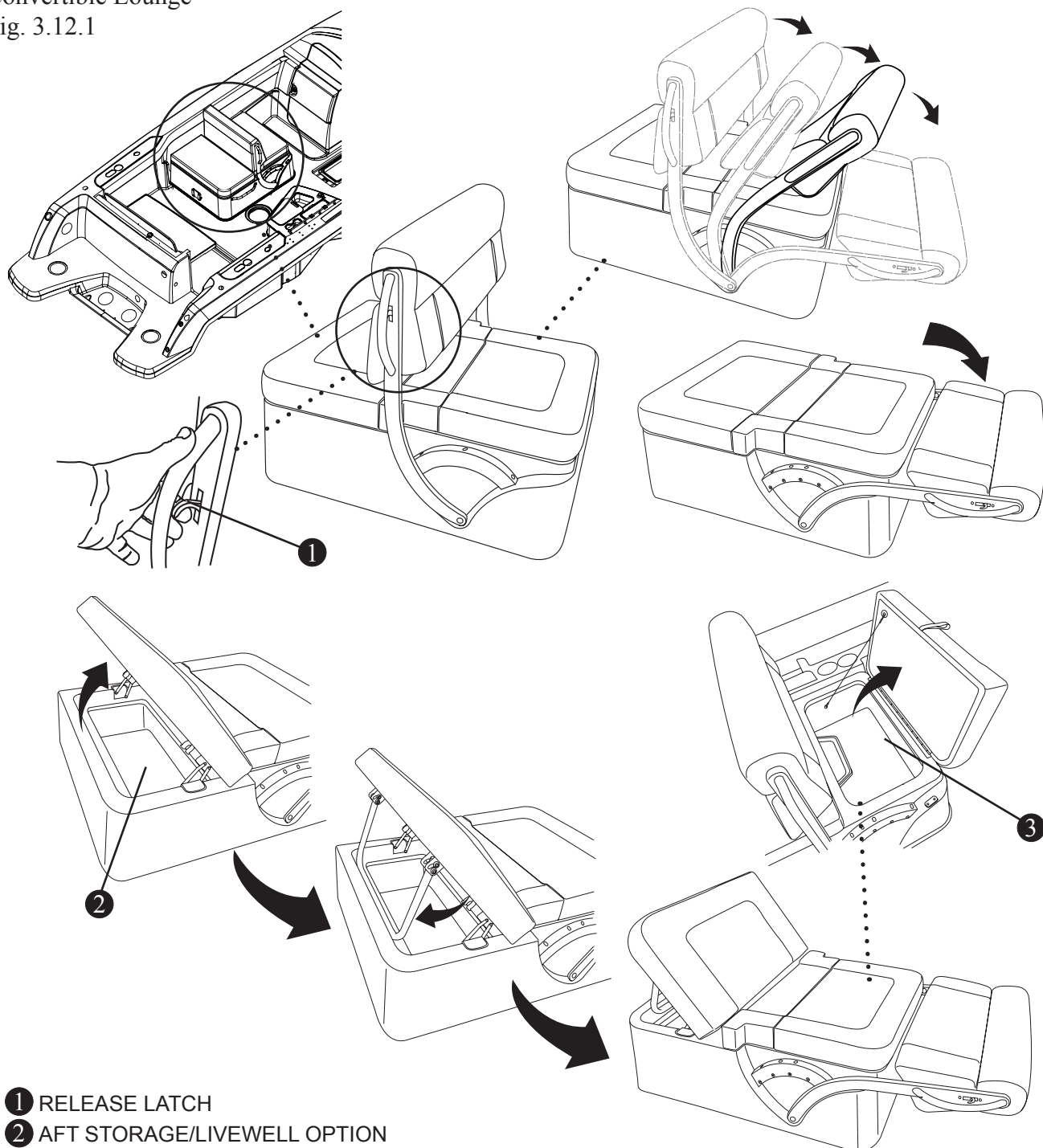
Your boat features a versatile lounge in the port cockpit. The lounge can be positioned in a variety of ways to accommodate different usages. In addition, the lounge provides storage underneath and, if selected, contains the optional livewell under the aft cushion.

#### CAUTION

**Make sure the backrest is engaged fully into slots to prevent movement.**

Convertible Lounge

Fig. 3.12.1



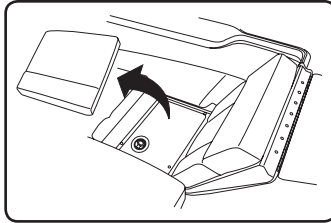
- 1** RELEASE LATCH
- 2** AFT STORAGE/LIVWELL OPTION
- 3** FORWARD STORAGE

### Console Storage

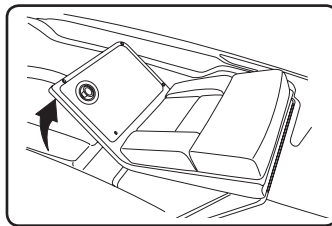
The storage area forward of the console contains a variety of brackets, tie downs, etc. to accommodate equipment such as fenders as well as storage of the optional cockpit table.

#### To Access Console Storage

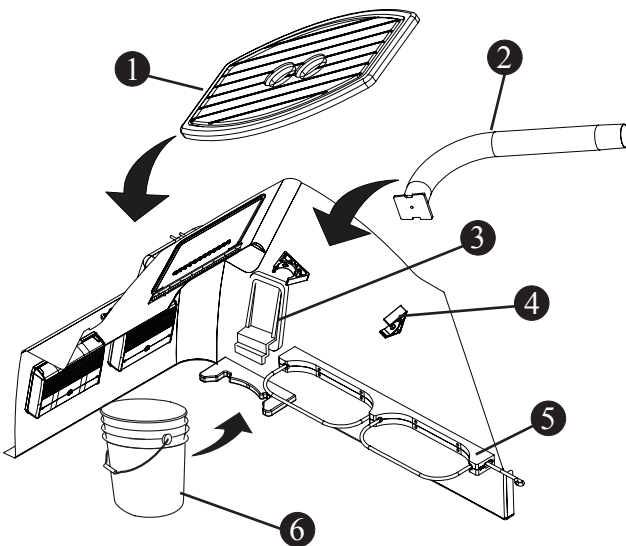
- Remove the aft starboard bow cushion.



- Lift up on the hatch.



Console Storage  
Fig. 3.13.1



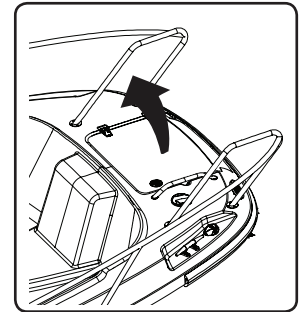
- ① COCKPIT TABLE
- ② COCKPIT TABLE SUPPORT PIPE
- ③ THRU WALL TRASH CHUTE
- ④ BRACKETS FOR SUPPORT PIPE
- ⑤ ADJUSTABLE BRACKET FOR FENDERS
- ⑥ TRASH RECEPTACLE

### Beach Boarding Ladder (Option)

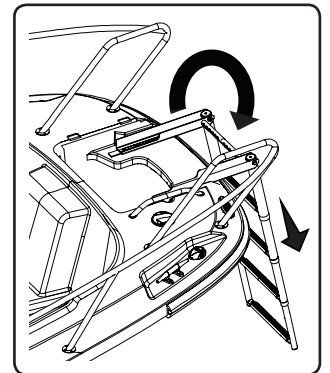
Your boat features a bow ladder which is stored in the bow anchor locker when not in use. The ladder is used for beach boarding ONLY. It is not designed to be used to board from the water.

#### To Access Beach Boarding Ladder

- Lift anchor locker cover.



- Flip ladder forward and extend steps to the beach.



### NOTICE

The beach boarding ladder is not to be used to board the boat from the water.

### CAUTION

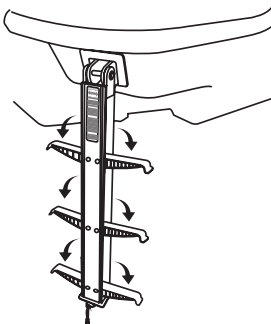
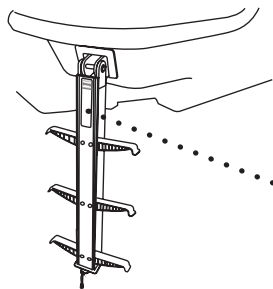
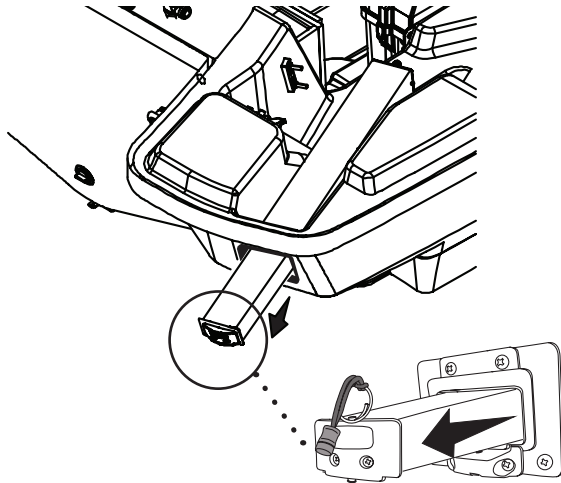
Be sure that the anchor and/or anchor rode is deployed and secured before using the beach boarding ladder.

## Telescoping Dive Ladder

Your boat features an extended integrated swim platform with recessed telescoping dive ladder. This unique design allows the ladder to be retracted into the bilge and out of the way while not in use.

Dive Ladder  
Fig. 3.14.1

NOTE: Deck removed for clarity



**DANGER**



**PINCH POINT**

**WARNING**



**NO JUMPING! NO DIVING!**

**SAFETY INSTRUCTIONS**

- DO NOT USE WHEN MOTOR IS RUNNING.
- THIS LADDER IS DESIGNED FOR BOAT USE ONLY.
- FACE LADDER WHEN ENTERING BOAT OR WATER.
- ONLY ONE PERSON ON THE LADDER AT A TIME.
- CHECK ALL STEPS AND HARDWARE BEFORE USING.

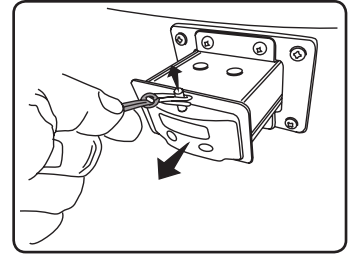
**CLEANING INSTRUCTIONS:**  
Rinse the deployed ladder thoroughly with fresh water frequently to minimize salt water corrosion and/or build-up at hinge points.

**GARELICK**  
EST. 1984

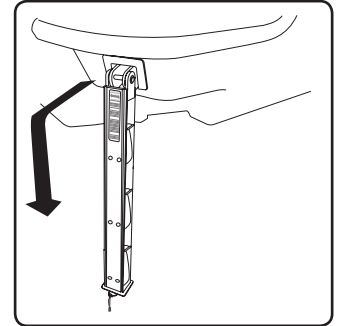
www.garellick.com

## To use the dive ladder

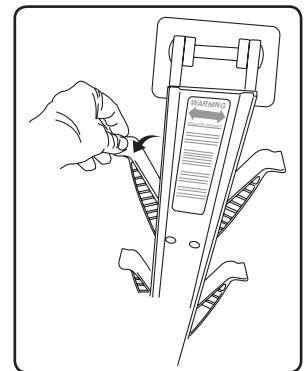
- Pull the lanyard up to release the securing pin and then pull the dive ladder out of the hull.



- Pull the ladder completely out of the hull and down in a vertical position.



- Manually pull the steps, on both sides of the ladder, out and down completely to a stop.



## To close the dive ladder

Ensure that all steps are returned to the closed position, lift the ladder up and push it into the hull cavity. Make sure the securing pin is seated securely.



**CAUTION**

**Failure to seat the securing pin properly may result in the dive ladder deploying while underway. This may cause damage to occur to the ladder or the vessel.**



### Tempered Glass Windshield

The tempered glass, wrap around windshield on your boat features a swing away center panel to enable access to the bow area. There is an electrically actuated wiper on the starboard section.

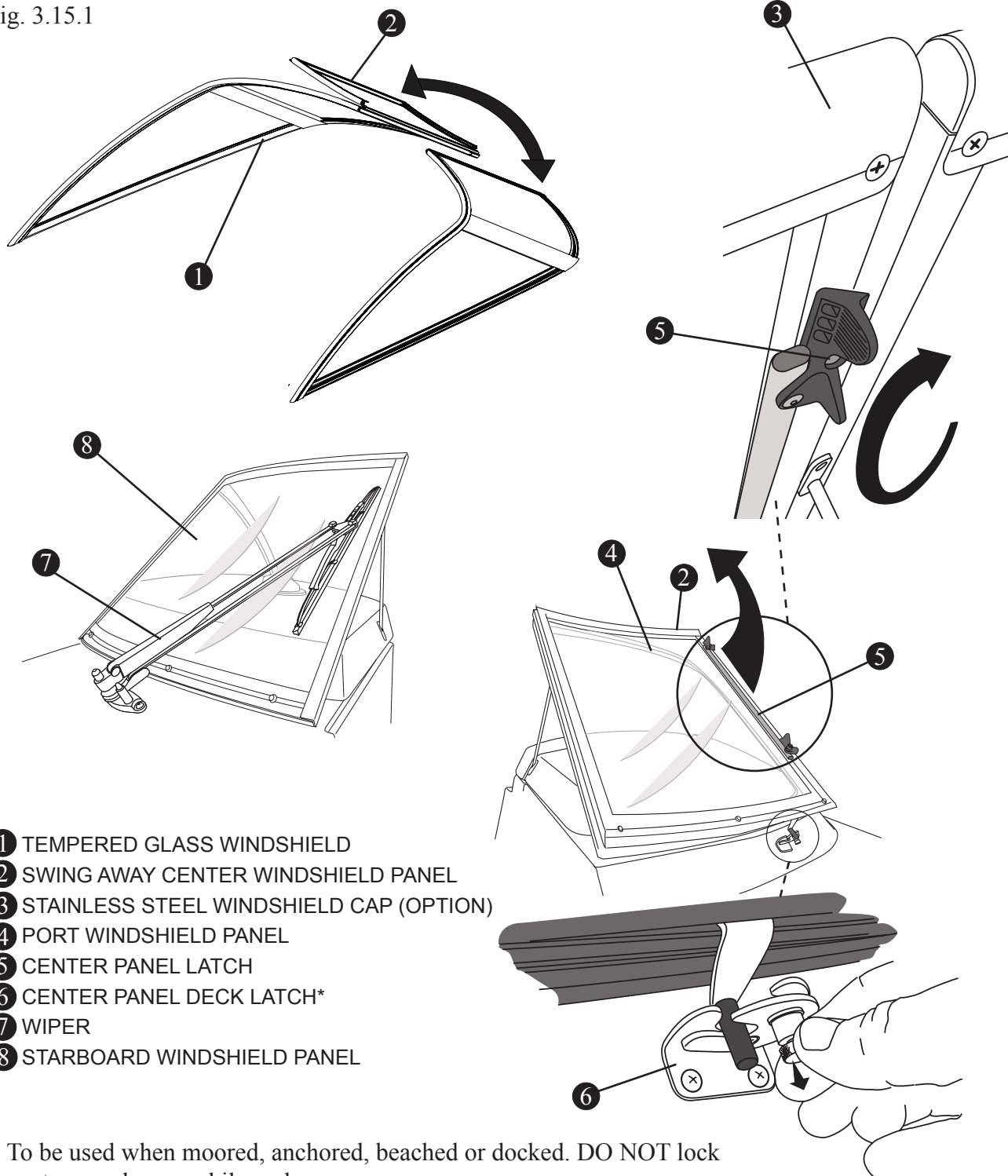


### CAUTION

**ALWAYS** secure and lock the center panel in the closed position while underway

Windshield

Fig. 3.15.1



- ① TEMPERED GLASS WINDSHIELD
- ② SWING AWAY CENTER WINDSHIELD PANEL
- ③ STAINLESS STEEL WINDSHIELD CAP (OPTION)
- ④ PORT WINDSHIELD PANEL
- ⑤ CENTER PANEL LATCH
- ⑥ CENTER PANEL DECK LATCH\*
- ⑦ WIPER
- ⑧ STARBOARD WINDSHIELD PANEL

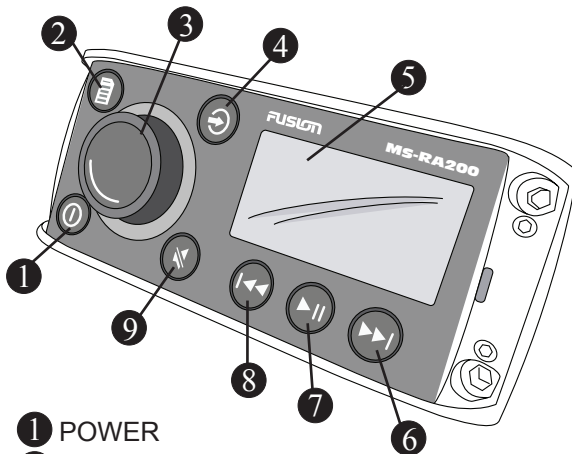
\* To be used when moored, anchored, beached or docked. DO NOT lock center panel open while underway.

### Entertainment System (Option)

The entertainment system on your boat consists of a Fusion® AM/FM stereo w/four (4) waterproof speakers, and MP3 & USB input. The stereo unit is located on the port side of the console. The waterproof speakers are located throughout the boat.

Stereo (Option)

Fig. 3.16.1



- 1 POWER
- 2 MENU
- 3 ROTARY ENCODER
- 4 SOURCE
- 5 DISPLAY SCREEN
- 6 FORWARD/NEXT
- 7 PLAY/PAUSE
- 8 BACK/PREVIOUS
- 9 MUTE

### Operating Your Stereo Using Your MP3 Player or USB Device (Option)

The MP3 input on your boat uses a standard 1/8" mini stereo cable (not included) which can be purchased at any electronic store.

- Insert one end of the stereo cable into your MP3 player and the other end into the MP3 input or Insert a USB device into the USB input located on the starboard side of the emergency shutoff switch.
- Turn the stereo ON.
- Press the 'source' button and cycle to USB.

- Press 'menu' and select DISK.

Note: We recommend you name your USB device allowing the device name to be displayed. Default name of a connected device is 'DISK'.

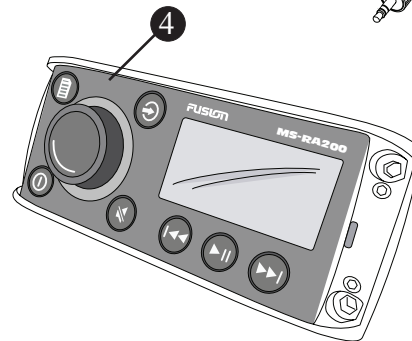
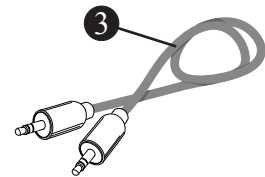
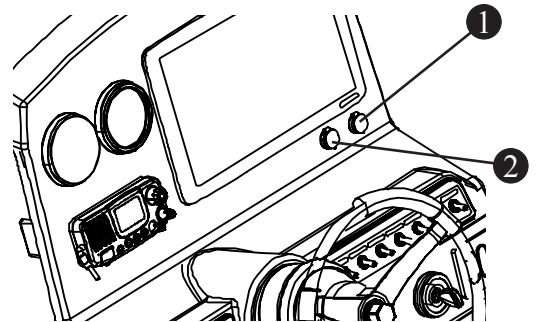
You will be able to control volume and menu from either your MP3 unit or the stereo.

### NOTICE

**Ensure the USB device is formatted as Fat32 format.**

MP3/USB Operation (Option)

Fig. 3.16.2



- 1 MP3 INPUT
- 2 USB INPUT
- 3 1/8" MINI STEREO CABLE (NOT SUPPLIED)
- 4 CD/DVD/MP3 BUTTON

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

### To Control Forward and Cockpit Speaker Volume

- Press the 'Menu' button to switch to the sound adjustment selection display.
- Use the Rotary Encoder to select 'Zones' and select "ON".

**NOTE:** Zone 1 cannot be turned OFF.

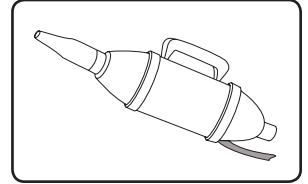
- Select 'Zone 1' then 'Link Zone 1 + 2'. Select 'ON' to activate. Linking zone 1+2 allows the volume control to operate zones 1+2 as a combined pair. The zone set up for zone 1 and 2 can be configured separately when in this mode.
- Select 'Volume Limit' to set the desired output volume for each individual zone.
- Rotate the Rotary Encoder control clockwise to increase volume; turn counter clockwise to decrease volume.

### Premium Stereo System (Option)

If equipped with the premium audio package option your boat will include seven (7) premium speakers located through the boat and a sub woofer and amp located on the aft wall of the forward starboard storage area (Fig. 3.16.1).

### Air Compressor (Option)

Your boat can be equipped with a high-volume pump with tapered adapter to fit valves up to 1-1/4 dia. (See Fig. 3.17.1). Lightweight and compact, the rugged all steel construction features a weather

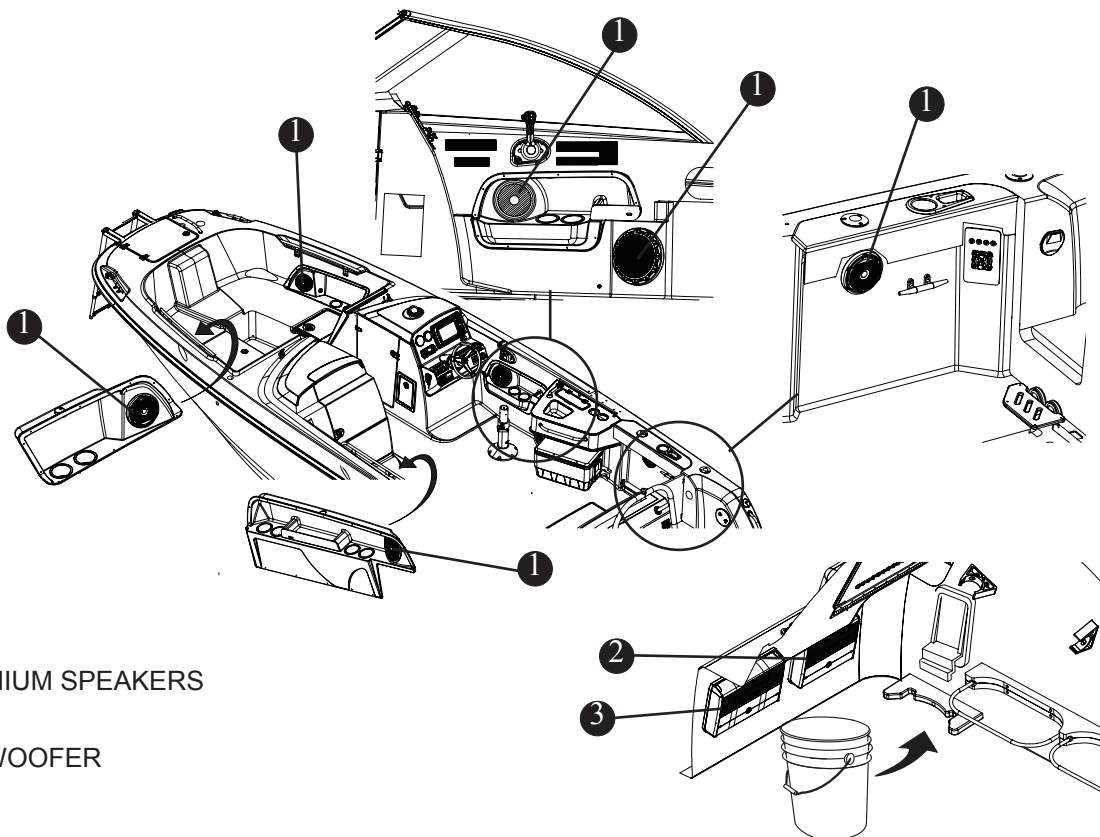


resistant baked enamel finish. Great for inflating and deflating boat toys. Delivers 20 cu. ft./minute. The unit has a 10' electrical cord that plugs into a 12V receptacle.

A carrying/holding case is provided so it can sit flat on the floor of any of the storage compartments.

### Premium Audio Package (Option)

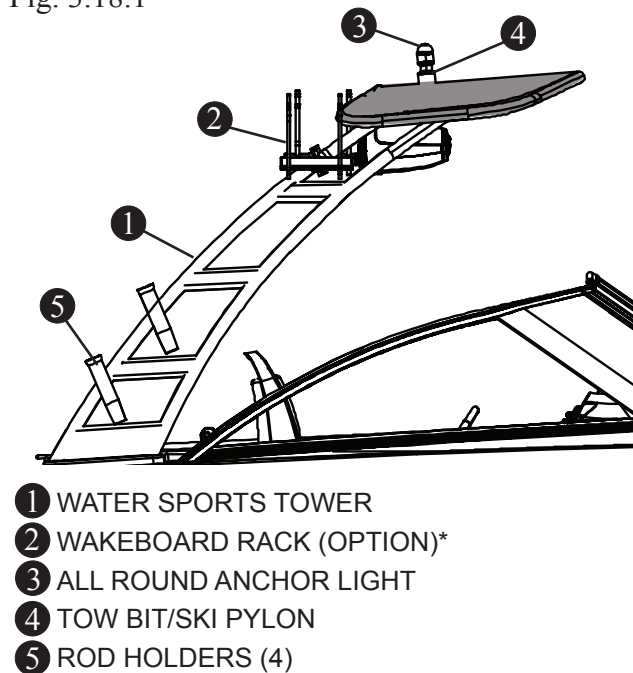
Fig. 3.17.1



- ① PREMIUM SPEAKERS
- ② AMP
- ③ SUBWOOFER

## Water Sports Tower (Option)

Water Sports Tower  
w/Tow Bit/Nav Light (Option)  
Fig. 3.18.1



\* Sold separately

### CAUTION

**DO NOT USE THE SKI PYLON WITH ANY EQUIPMENT WHICH IS TIED TO THE TOW ROPE!**

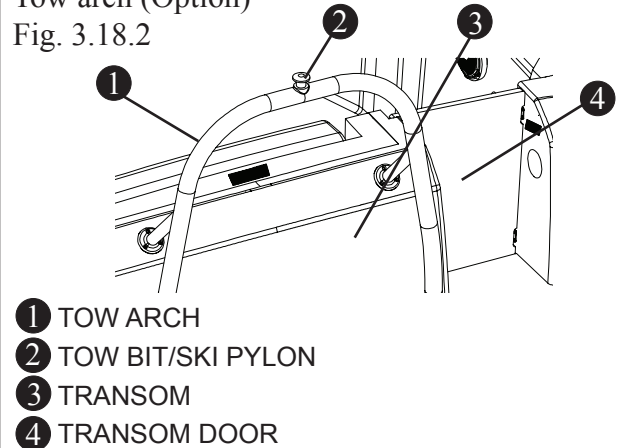
**The ski pylon is for skiing and/or wakeboarding ONLY. If engaged in tubing or such other recreational towing, it is recommended that you attach the tow rope to the stern eyes at the transom of your boat.**

## Recreational Safety

Be sure to read and understand the safety rules for recreational activities presented in Section 1, pages 1-13 thru 1-15 of this manual.

## Tow Arch (Option)

Tow arch (Option)  
Fig. 3.18.2



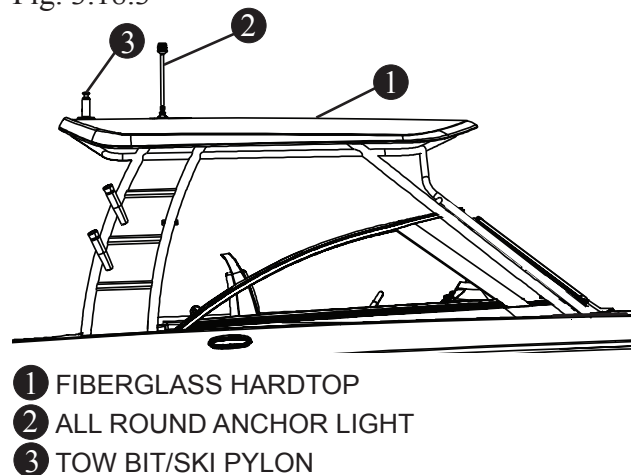
### CAUTION

**DO NOT USE THE SKI PYLON WITH ANY EQUIPMENT WHICH IS TIED TO THE TOW ROPE!**

**The ski pylon is for skiing and/or wakeboarding ONLY. If engaged in tubing or such other recreational towing, it is recommended that you attach the tow rope to the stern eyes at the transom of your boat.**

## Fiberglass Hardtop (Option)

Fiberglass Hardtop (Option)  
Fig. 3.18.3



### CAUTION

**DO NOT USE THE SKI PYLON WITH ANY EQUIPMENT WHICH IS TIED TO THE TOW ROPE!**

**The ski pylon is for skiing and/or wakeboarding ONLY. If engaged in tubing or such other recreational towing, it is recommended that you attach the tow rope to the stern eyes at the transom of your boat.**

### 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 at the bow of your boat 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.

### Operating The Windlass From the Helm

The anchor windlass is powered, at the helm, by a switch on the control station switch panel (See figure 2.17.1).

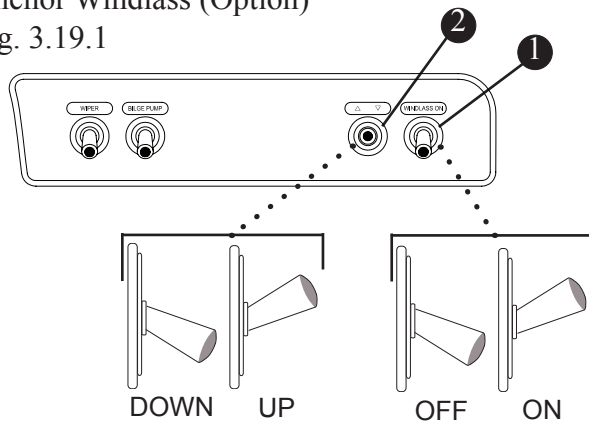
Activation of the windlass is controlled by a switch located to the left of the power switch. The activation switch is a momentary type switch, which means that there must be constant pressure applied to operate the anchor windlass and raise or lower the anchor.

#### 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.**

Anchor Windlass (Option)

Fig. 3.19.1



1 WINDLASS POWER BUTTON

2 WINDLASS ACTUATOR SWITCH

### Lowering the Anchor

Pushing the actuator switch down 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 actuator switch up 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.

### Operating The Windlass With Remote

#### ! DANGER

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

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

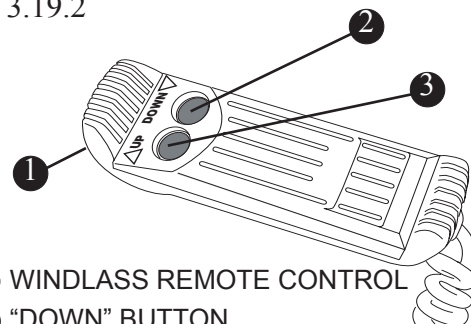
### Remote Operation

#### 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.**

Anchor Windlass Remote (Option)

Fig. 3.19.2



1 WINDLASS REMOTE CONTROL

2 "DOWN" BUTTON

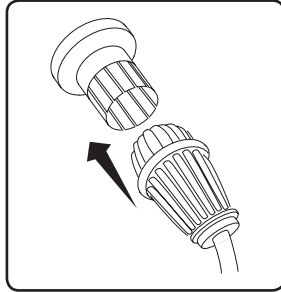
3 "UP" BUTTON



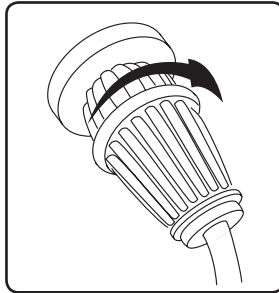
### **WARNING**

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

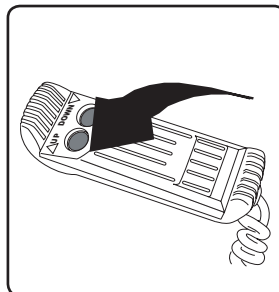
- Plug the power cable into the power receptacle on the starboard side of the bow locker (Figure 3.32.1)



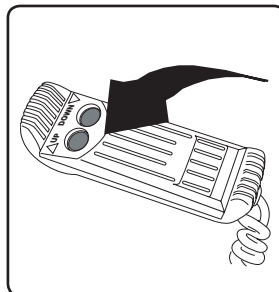
- Turn the forward portion of the plug clockwise to lock.



- **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.



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.

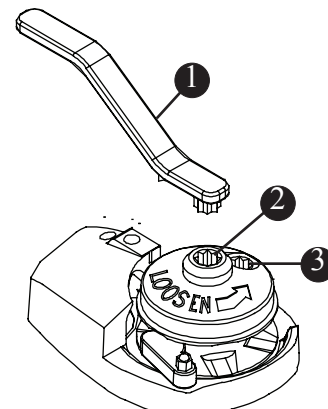
If there is a loss of power to the windlass, check the “WINDLASS” circuit breaker located on the battery switch panel at the starboard aft cockpit (See figure 4.1.2). If the breaker is tripped, reset the breaker. If the breaker continues to trip, have the anchor windlass system checked by a qualified marine electrician.

### **Manual Operation**

There are two star sockets on the top of the windlass used for manual deployment of the anchor. Inserting the emergency handle into the center socket and turning it counter-clockwise will loosen the anchor windlass chainwheel. The star socket located off-center is used for retrieving and lowering the anchor. Turning the handle counterclockwise will allow you to lower the anchor, while turning it clockwise will raise it.

When operation is complete, insert the handle into the center star socket and tighten the windlass chainwheel by rotating the handle clockwise. Be sure to attach the safety lanyard when the anchor is stowed in the bow pulpit.

Windlass Manual/Emergency Operation  
Fig. 3.20.1



- ① EMERGENCY HANDLE
- ② LOOSEN WINDLASS
- ③ RAISE/LOWER ANCHOR

### Anchoring

The 230 Vantage is equipped with an anchor storage compartment located in the bow of the boat. Because there are a variety of anchors, with a variety of uses, **discuss the types of anchors with your dealer to find the right anchor for your boat.**



### 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.**

### 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 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 prevent abrasion of the line.

**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 a 10:1.

### Example:

$$\text{Rode length} = (3 \text{ feet} + 10 \text{ feet}) \times 7^*$$

$$\text{Rode length} = 13 \text{ feet} \times 7^*$$

$$\text{Rode length} = 91 \text{ feet}$$

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

### Lowering The Anchor

- Stop completely before lowering the anchor.
- Be sure there is adequate rode.
- Secure rode to both the anchor and the boat.
- Keep feet clear of lines.
- Turn on the anchor light when at anchor or drifting (not under power) at night or in low visibility.

### NOTICE

**Before using the anchor be sure the anchor line is secured to the eye in the bottom of the anchor locker.**

### 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 the bit or cleat.

### Weighing the Anchor

To weigh (or 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.

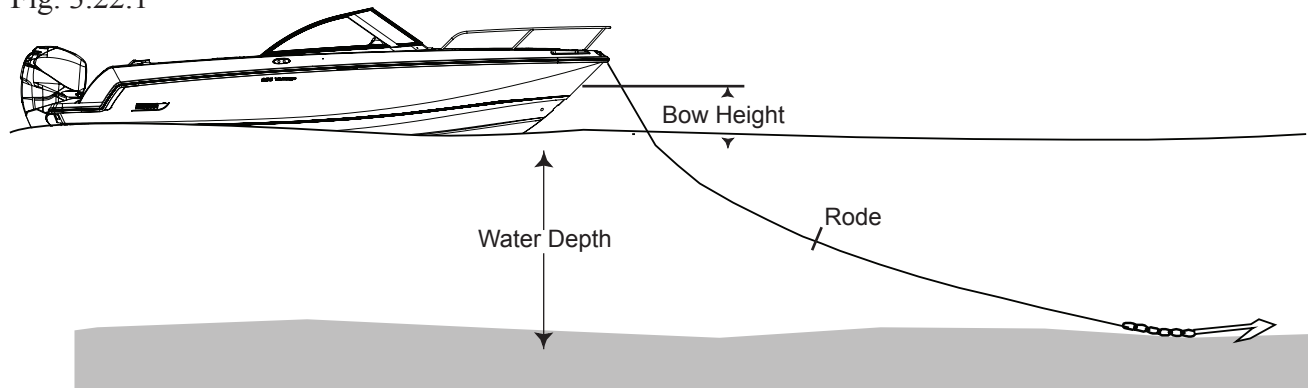


### CAUTION

**Be careful that the trailing lines do not foul in the propeller**

#### Proper Anchoring

Fig. 3.22.1



$$\text{Rode length} = (\text{bow height} + \text{water depth}) \times \text{Scope}$$

## Electrical System

The 230 Vantage uses an electrical system powered by two lead-acid batteries. The batteries are charged by the engine when engine is running. Either, or both, batteries can be selected by the battery switch to power the following systems:

- Engine Ignition.
- Engine tilt trim system
- Helm switch panel & helm instrument panel
- Lighting/Navigation systems
- Livewell system
- Add-on accessories and electronics

## Batteries

### NOTICE

**Always store the batteries in the battery trays. Use the retaining lid and wingnuts 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)	27	12	800	135 min	2

\* Marine Cranking Amps

Application	Group	Volts	CCA*	Reserve	Qty.
Intn'l (EN)	27	12	975	65Ah	2

\* Cold Cranking Amps

### NOTICE

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

## Battery Trays

The Battery Trays house and secure both batteries in the compartment aft of the cabin on the lower starboard section of the aft bulkhead behind the

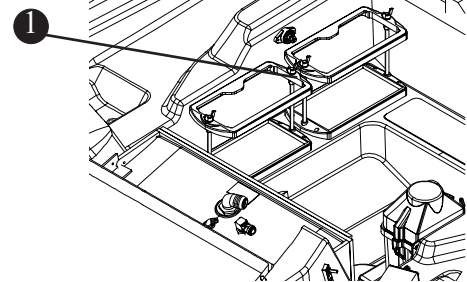
battery access cover. The batteries can be removed by loosening the wing nuts and removing the retaining lid on the battery tray.

The cover can be completely removed for easier access to the battery trays. To remove, unzip the cover and release the snap-turnbuckles that secure the bottom portion to the base of the bulkhead.

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.

Battery Trays

Fig.4.1.1



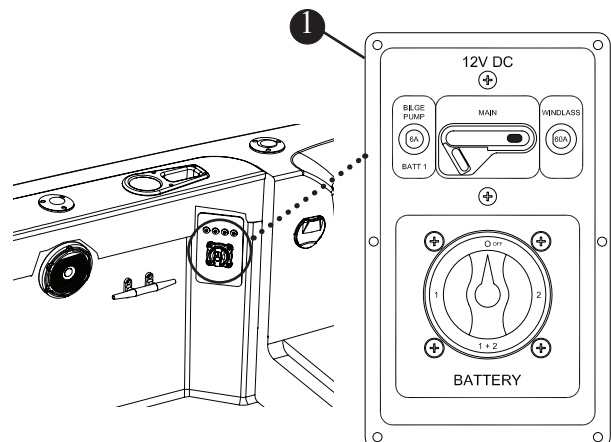
1 BATTERY TRAYS

## Battery Switch

Your boat uses a battery selector switch to control delivery of DC power from its two batteries. The battery switch is located in the aft cabin compartment.

Battery Switch

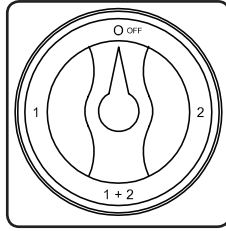
Fig. 4.1.2



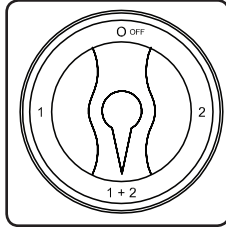
1 BATTERY SWITCH

The battery switch has four (4) settings:

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



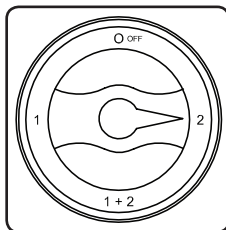
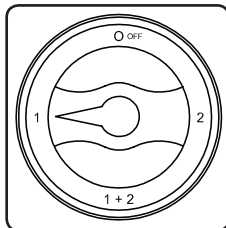
- **“1+2”** - you will have power from both batteries at the same time. This parallels the batteries to assist you in starting the engine, once the engine is started the battery switch should be switched from the “ALL” setting, and set to charge either battery.



### WARNING

**Do not operate boat with batteries in “ALL” once the engine is started or serious engine electrical damage may result.**

- **“1”** - you will have power from the port battery only.
- **“2”** - you will have power from the starboard battery only.



When the engine is shut down or not providing a charge, the system will allow isolation of the port (primary) battery. This will allow you to run all the boat's functions without affecting the port battery. In the event the starboard battery discharges completely, you will still be able to start the engine by turning the battery switch to the number “1” position. This accesses the charged port battery for engine start.

After the engine starts, return to the discharged starboard battery (number “2” position) until it is recharged..

### WARNING

**Use the “1+2” position only if both batteries are near the same voltage. If one battery is strong and the other weak, high current could cause battery damage. The Bilge pump and clean power for the DTS system still draw power from battery #1, even if the switch is set to “OFF”. For this reason it is recommended that the boat be run on position #1 except when periodically charging battery #2.**

### Dockside Battery Charging (Option)

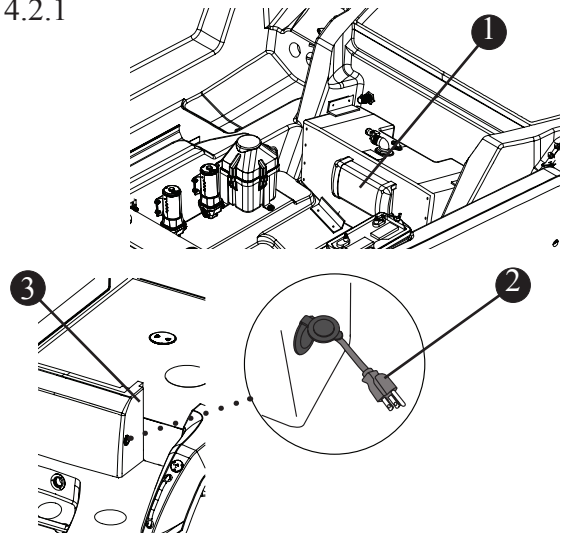
Your boat can be equipped with a battery charging system which includes a battery charger and a short extension cord located on the port side of the cockpit entry which can be used to connect to an outlet to charge the batteries.

### 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  
Fig. 4.2.1



- 1** BATTERY CHARGER
- 2** RETRACTABLE EXTENSION CORD
- 3** COCKPIT ENTRY



### 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.

#### Maintenance

- Inspect each battery and charging system before use for loose connections or wiring.
- Coat the terminals with dielectric grease.
- Keep the batteries dry.
- Remove the batteries from the boat during cold weather or long term storage.



### 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.**
- **The battery should always be disconnected before doing any work or maintenance on the electrical system.**
- **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.**
- **If equipped with a battery switch, you will need to stop the engine before moving the switch to the "OFF" position.**

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.



### 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.

#### Fuse Block

The fuse block can be accessed through the breaker panel on the upper aft wall of the console storage.

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.

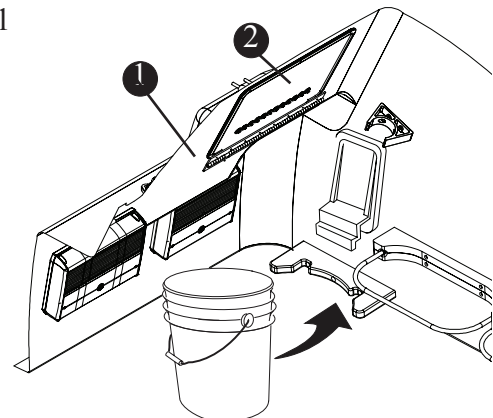


### WARNING

**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.**

Breaker Panel  
Fig. 4.3.1



- ① CONSOLE STORAGE AREA
- ② BREAKER PANEL

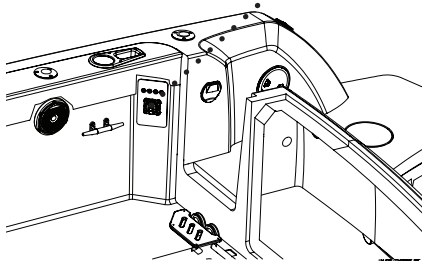
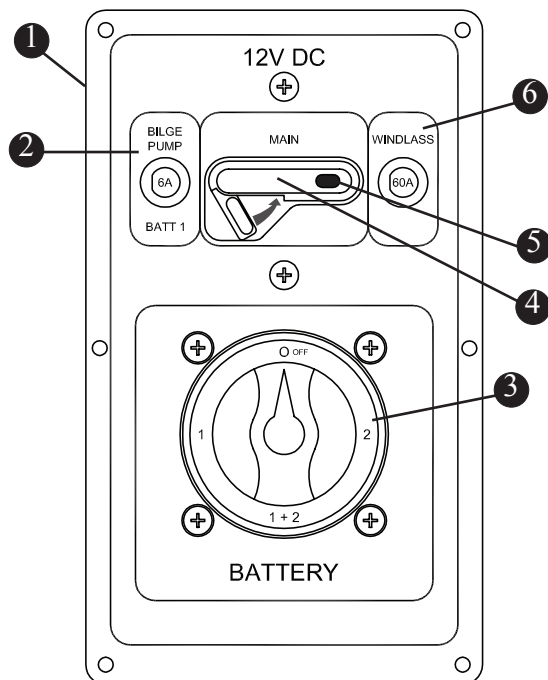
## Main DC Breaker

The Main DC breaker reset is located on the panel next to the battery switch in the aft bulkhead of the cockpit. In the event that the main DC breaker trips determine and correct the problem prior to resetting the breaker.

To reset the breaker push the breaker button in and slide the bar upward to close.

## Component Circuit Breakers

Fig. 4.4.1



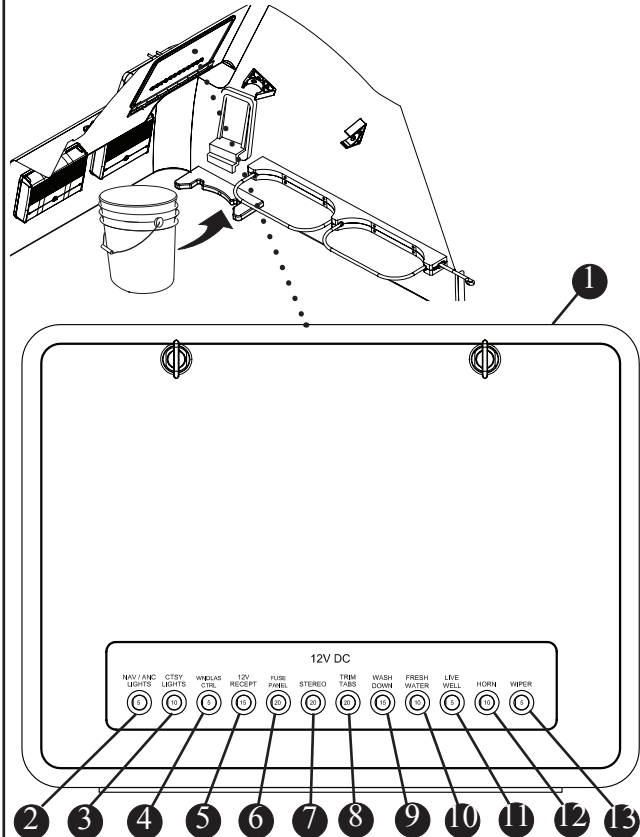
- ① BATTERY SWITCH PANEL
- ② BILGE PUMP BREAKER ..... 6 AMP
- ③ BATTERY SWITCH
- ④ MAIN DC BREAKER ..... 120 AMP
- ⑤ BREAKER RESET BUTTON
- ⑥ WINDLASS BREAKER..... 60 AMP

## Component Breakers

Component breakers are located on the breaker panel on the upper aft wall of the console storage. (See figure 4.3.1). 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.

## Component Circuit Breakers

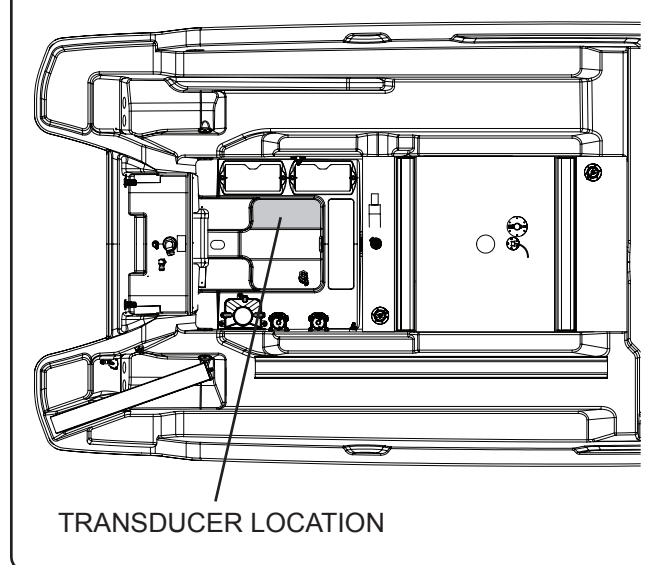
Fig. 4.4.2



- ① BREAKER PANEL
- ② NAV/ANC LIGHTS..... 5 AMP
- ③ CTSY LIGHTS ..... 10 AMP
- ④ WINDLASS CTRL ..... 5 AMP
- ⑤ 12V RECEPTACLE ..... 15 AMP
- ⑥ FUSE PANEL..... 20 AMP
- ⑦ STEREO..... 20 AMP
- ⑧ TRIM TABS..... 20 AMP
- ⑨ WASHDOWN (OPTION) ..... 15 AMP
- ⑩ FRESH WATER (OPTION).. 10 AMP
- ⑪ LIVEWELL (OPTION)..... 5 AMP
- ⑫ HORN ..... 10 AMP
- ⑬ WIPERS ..... 5 AMP

## Transducer Location

Transducer Location  
Fig. 4.5.1



## Electrical Schematics & Harnesses

The following pages contain electrical schematics pertaining to the electrical system in your boat. These schematics were generated by technicians in the Boston Whaler® Engineering Department and are for reference and to be used by service technicians.

Boston Whaler® does not recommend that you attempt to work on the electrical system yourself. Instead, we suggest that you take your boat to an authorized Boston Whaler® dealer for electrical service.

Boston Whaler® reserves the right to change or update the electrical system on any model at any time without notice to the customer and is not obligated to make any updates to units built prior to the change.

## Wiring Identification Chart

Boston Whaler® adheres to electrical wiring requirements which meet all the ABYC-E11 standards. The following chart outlines the gauge, color and function of the wiring used.

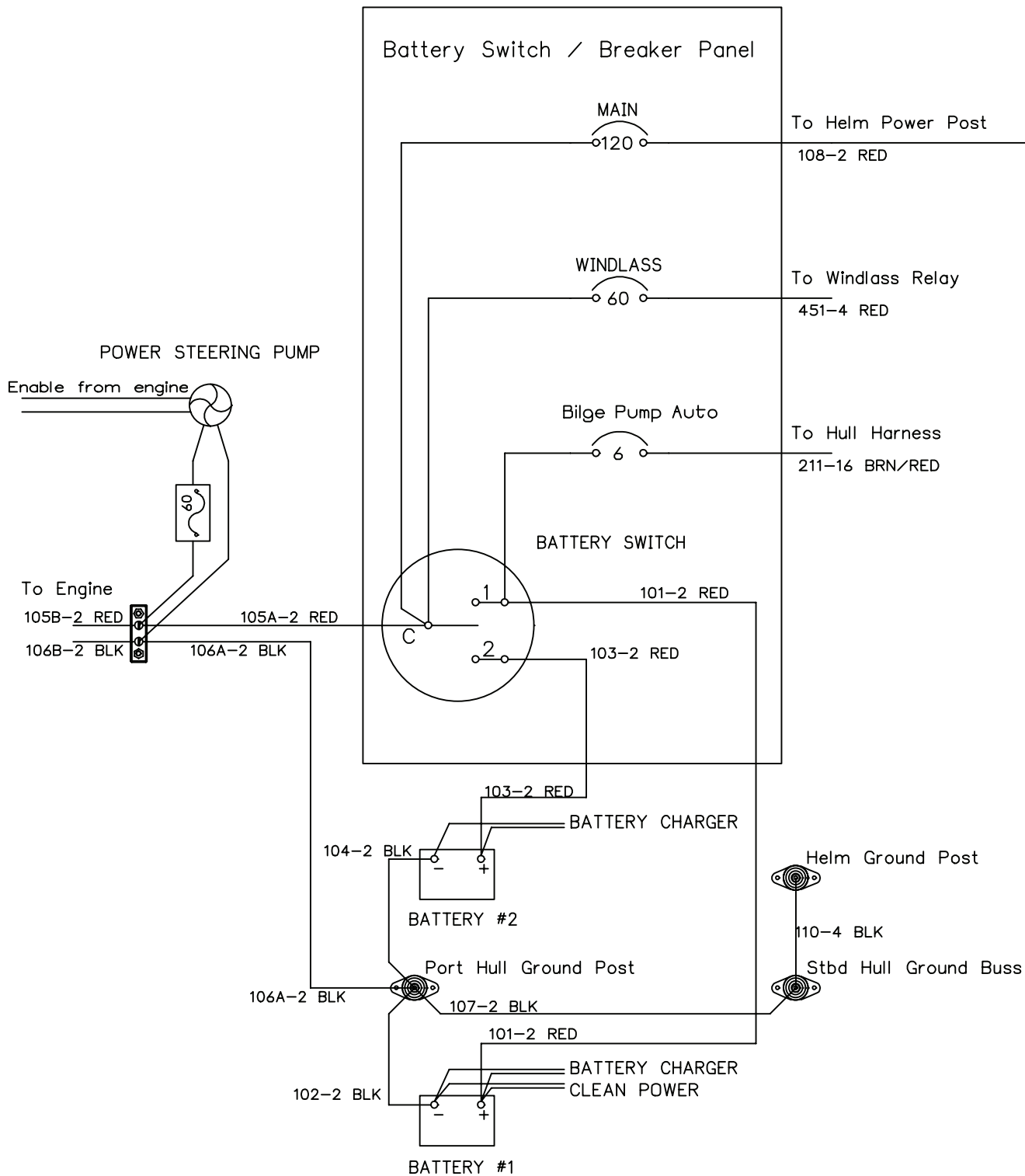
### Wire Color Chart for DC and Special Circuit

COLOR	FUNCTION	COLOR	FUNCTION
GRN	GROUNDING MAIN/TOWER & ALUMINUM FUEL TANKS	BRN/ORN	SUMP PUMP
GRN	GROUNDING	BRN/RED	BILGE PUMP (UNSWITCHED)
ORN	STARBOARD 30 AMP RECEPTACLE	BRN/WHT	MACERATOR
RED	MAIN FEEDS/PORT 30 AMP RECEPTACLE	GRY	RUNNING LIGHTS
BRN/BLK	STARBOARD FISHBOX PUMP	GRY/BLK	ACC 1
BRN/VIO	FORWARD FISHBOX PUMP	GRY/BLU	ACC 2
BRN/YEL	LIVWELL PUMP (HIGH CURRENT)	GRY/GRN	ACC 3
BRN/BLU	PORT FISHBOX PUMP	GRY/RED	AFT MAST/ACC 4
RED	+12V MAIN	GRY/WHT	ALL ROUND/FWD MAST LIGHT
BLK	GROUND	ORN	REFRIGERATOR or CENTER WIPER
BLK/YEL	STOP CIRCUIT	ORN/BLU	HORN
BLK/WHT	GEN SHUTDOWN	ORN/BRN	STARBOARD WIPER PARK
BLU	COMPASS	ORN/GRN	STARBOARD WIPER
BLU/BLK	DOME LIGHT	ORN/RED	PORT WIPER
BLU/GRN	SPREADER LIGHT	ORN/VIO	VACUUM PUMP
BLU/ORN	LIVWELL LIGHT	ORN/WHT	CENTER WIPER
BLU/RED	COURTESY LIGHTS	PINK	FUEL SENDER
BLU/VIO	CABIN LIGHTS	RED	12V RECEPTACLE
BRN	BILGE PUMP (SWITCHED)	VIO	IGNITION
BRN/GRY	RAW WATER	WHT	CO MONITOR/ELECTRIC TRIM TAB (SWITCHED)
BRN/GRN	FRESH WATER	YLW	BLOWER/STEREO MEMORY START
		YLW/RED	

## Section 4 • Electrical System

### 12 VDC Wiring Schematic

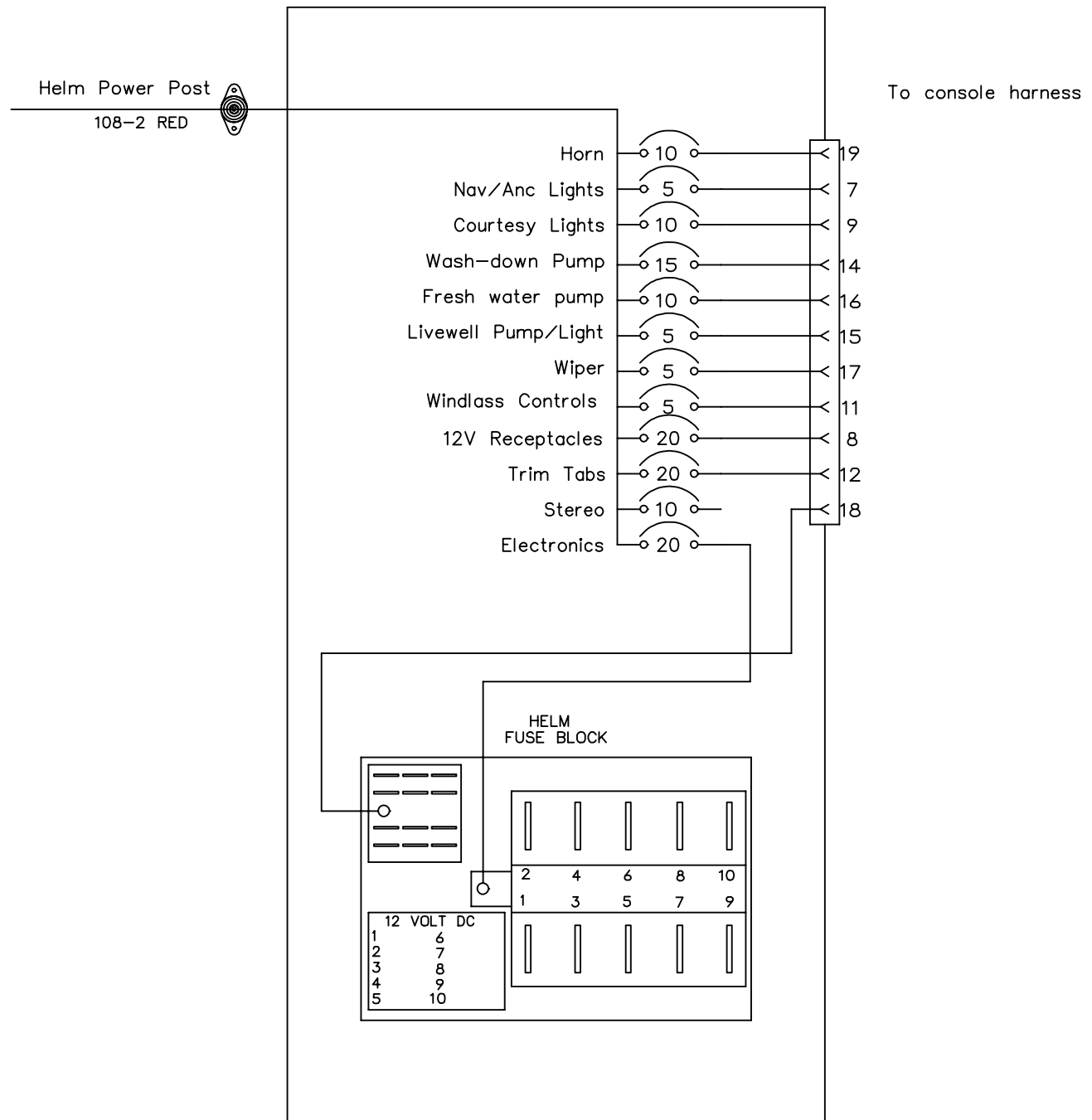
Fig. 4.6.1



## Section 4 • Electrical System

Helm Breaker Panel Schematic

Fig. 4.7.1

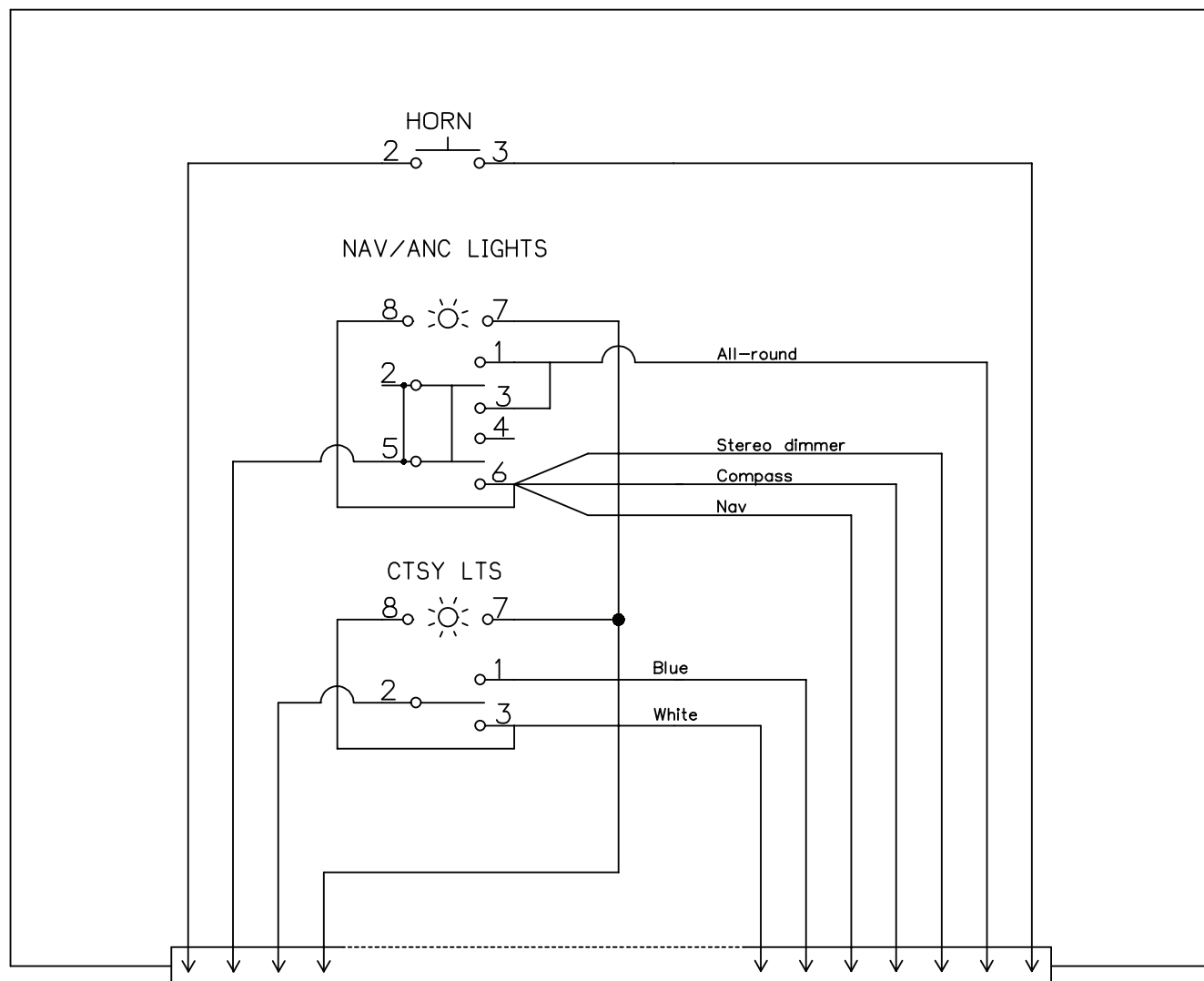




## Section 4 • Electrical System

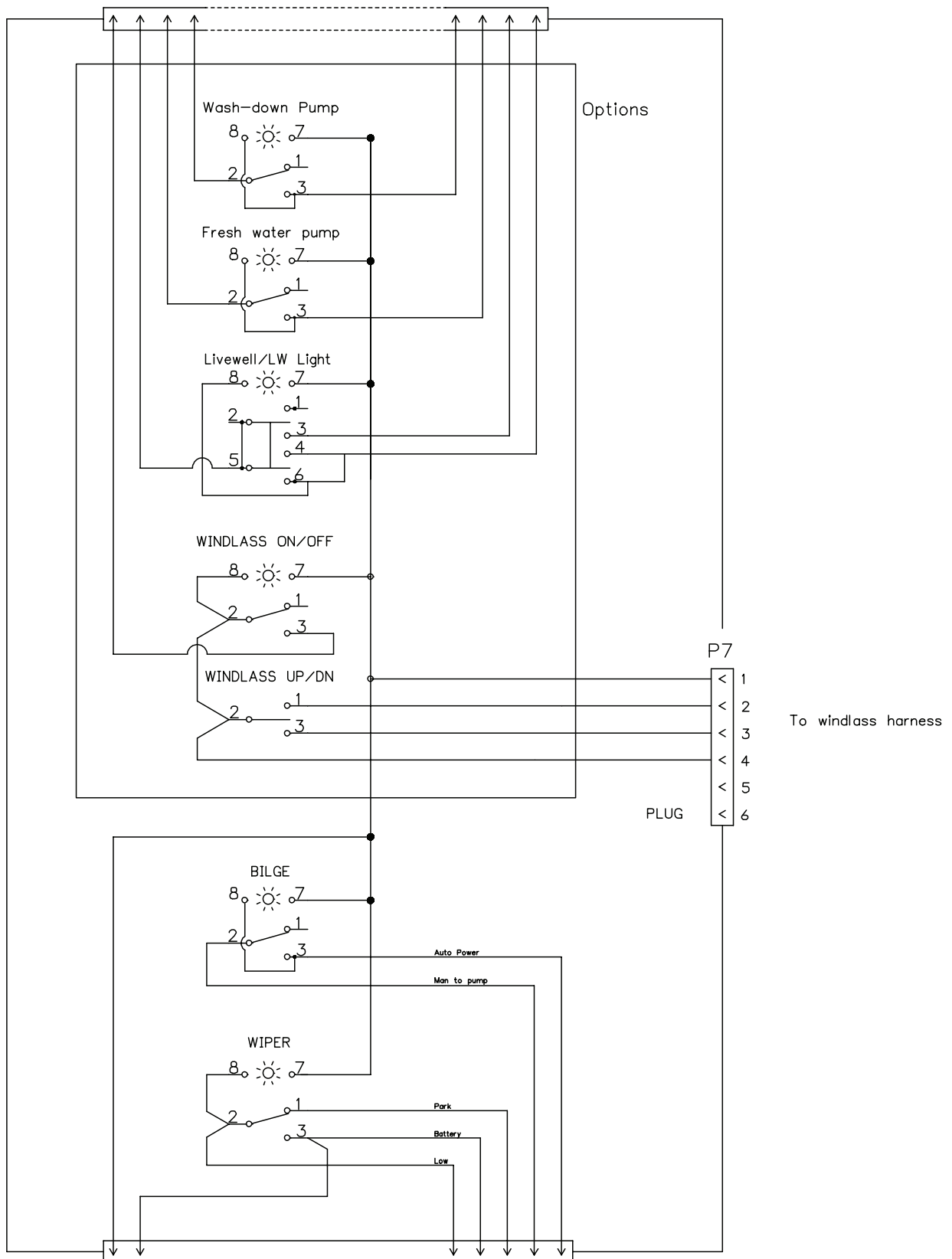
### Inboard Switch Panel Schematic

Fig. 4.8.1



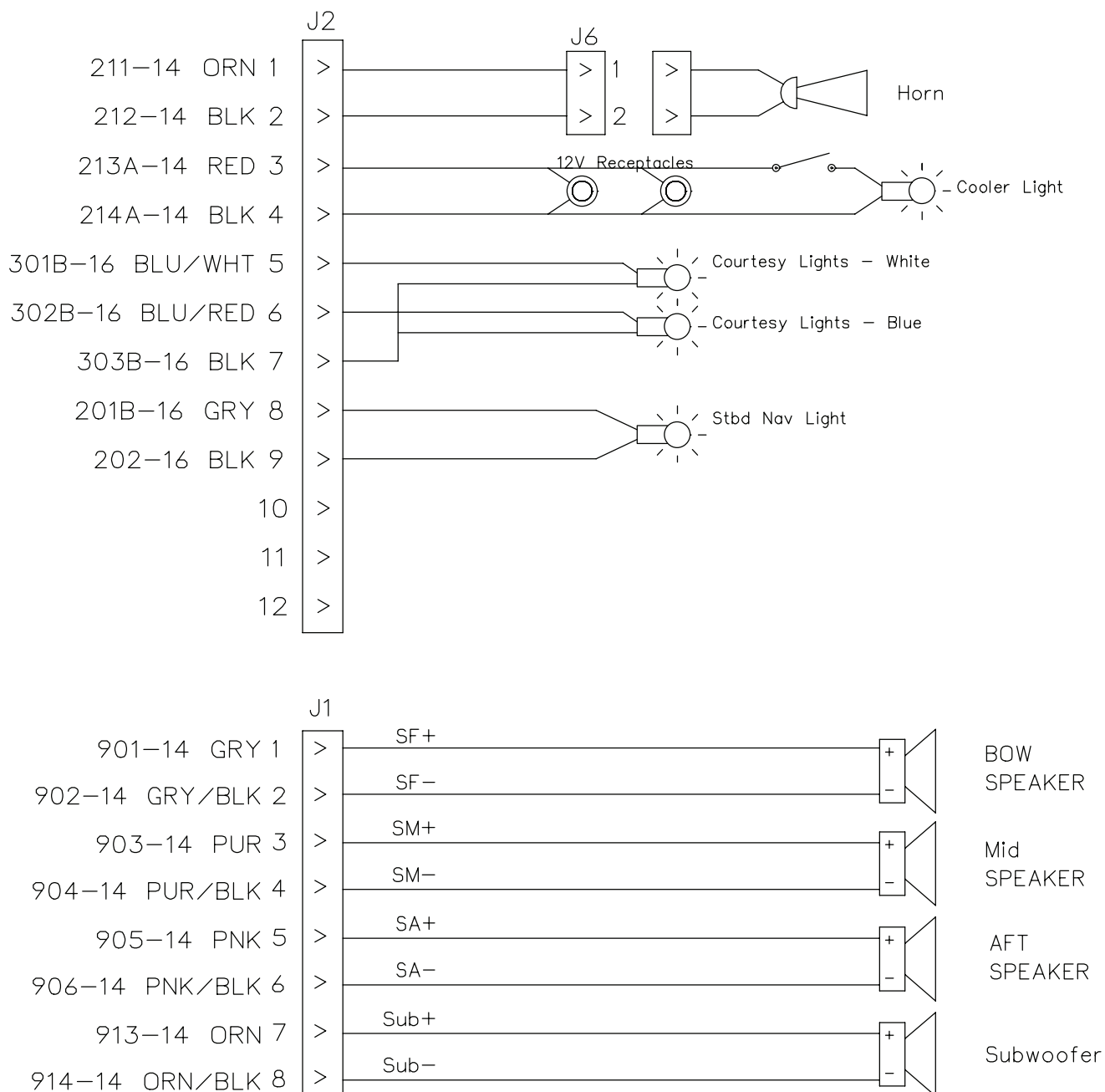
Outboard Switch Panel Schematic

Fig. 4.9.1



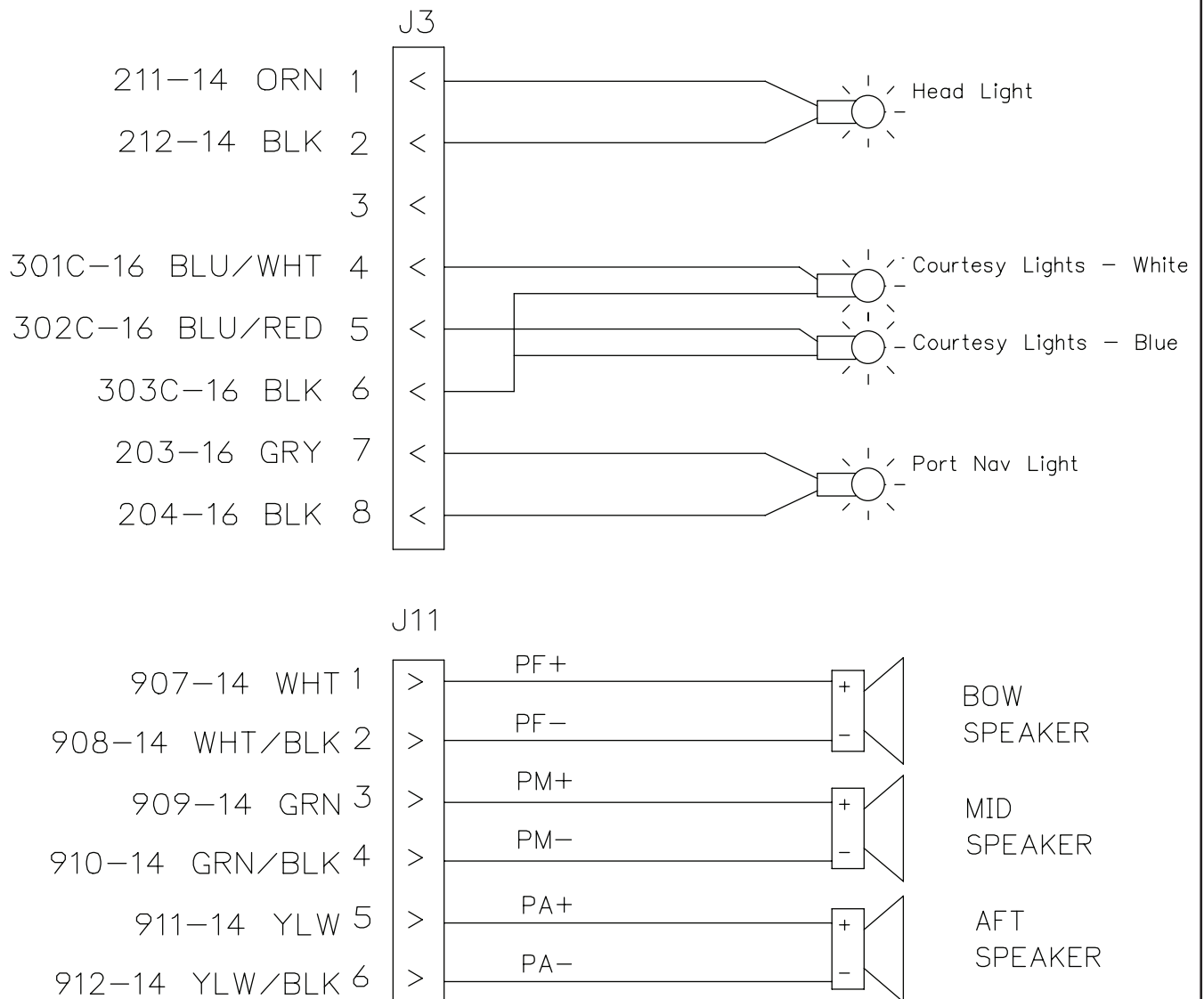
## Starboard Deck Harness

Fig. 4.10.1



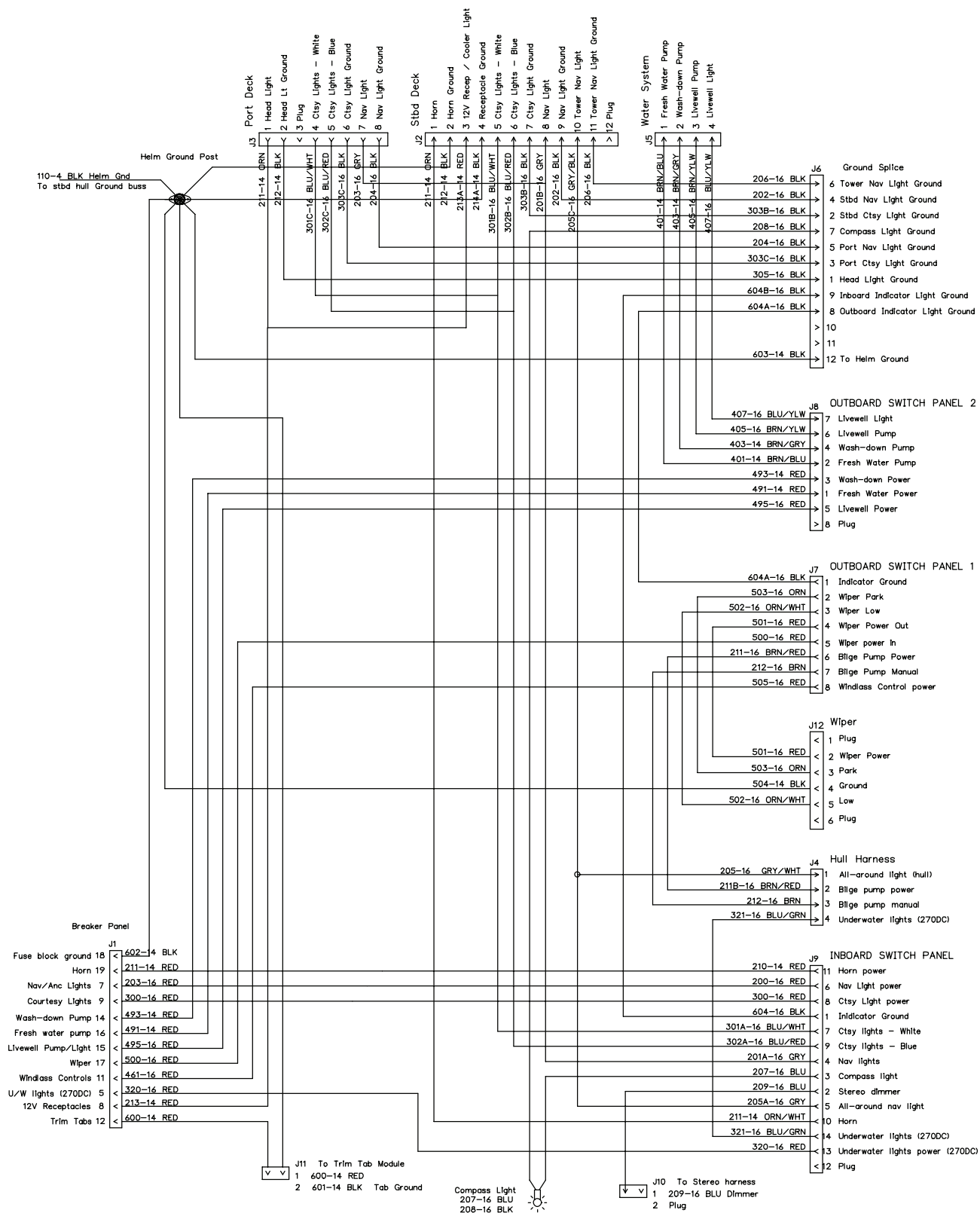
## Port Deck Harness

Fig. 4.11.1



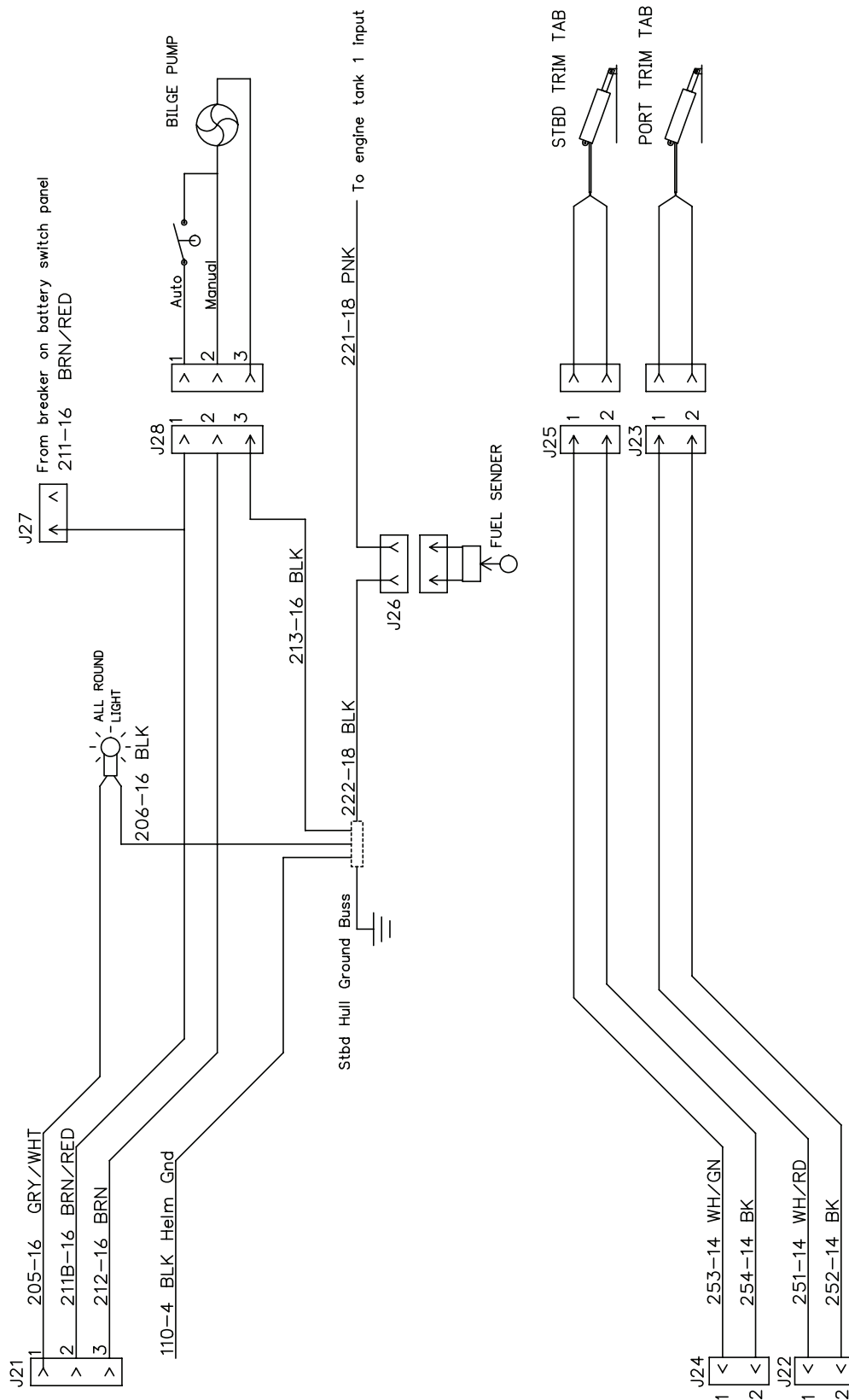
## Console Harness

Fig. 4.12.1





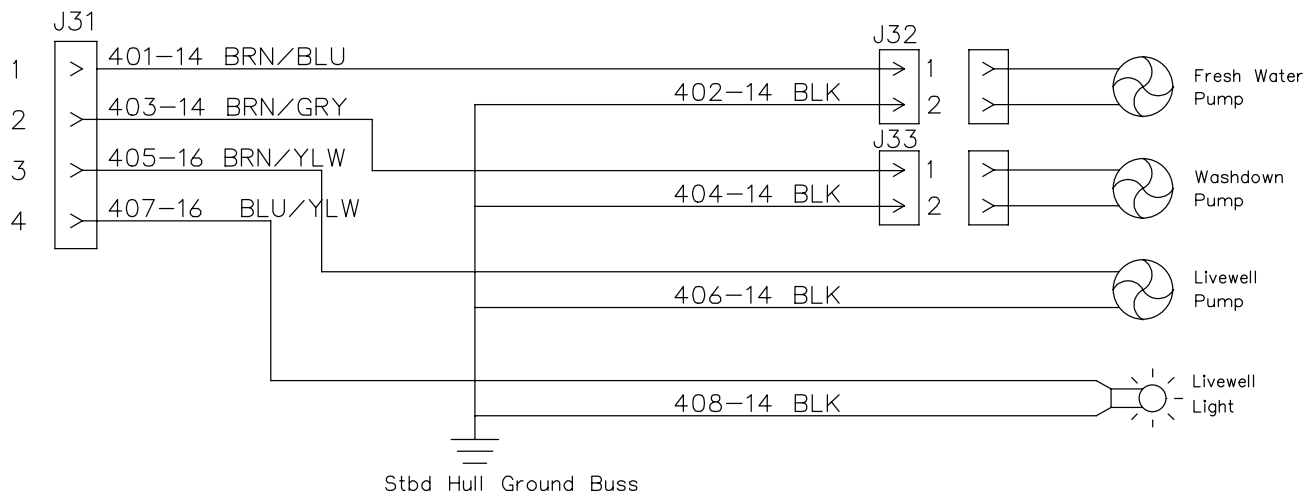
Hull Harness  
Fig. 4.13.1



## Section 4 • Electrical System

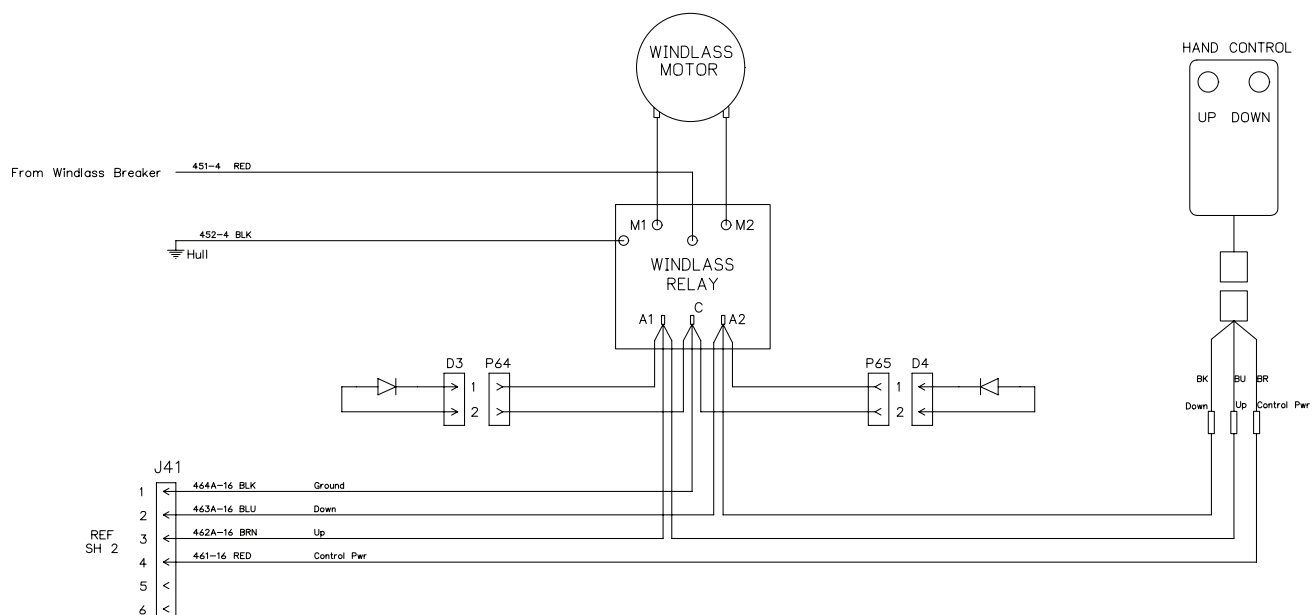
### Water System Harness

Fig. 4.14.1



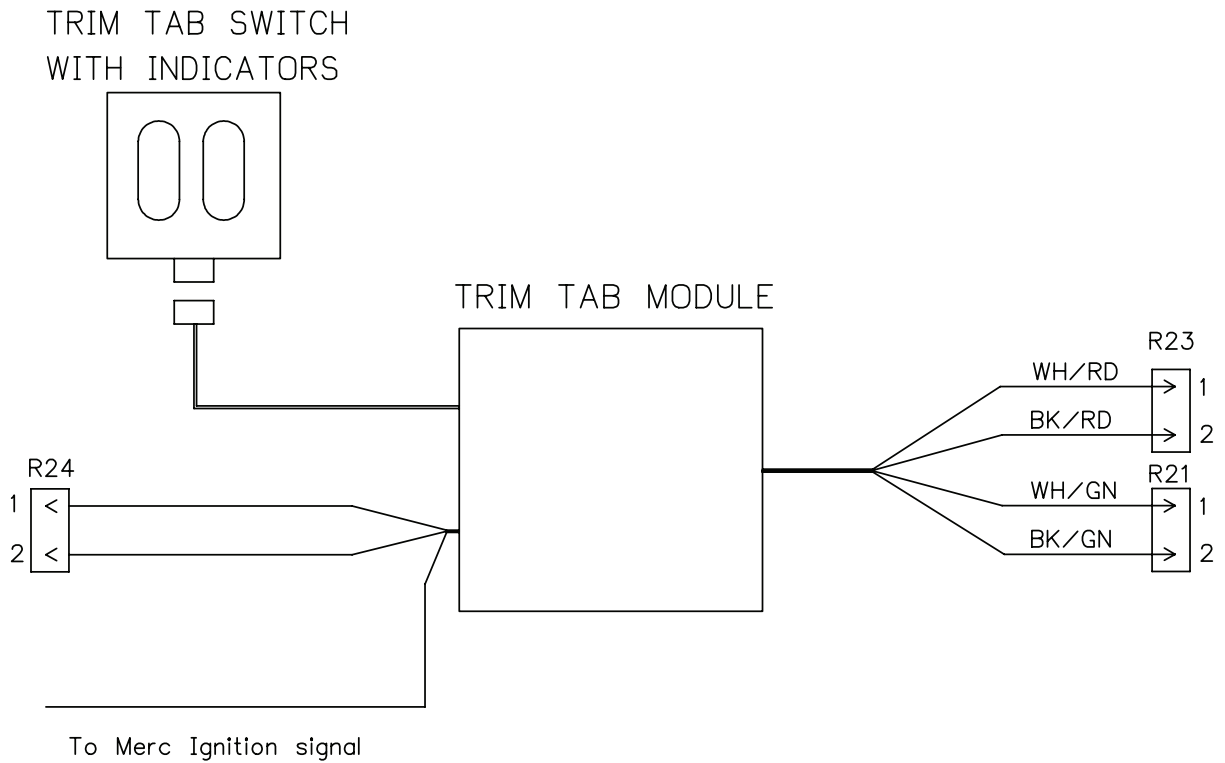
### Windlass Schematic

Fig. 4.14.2



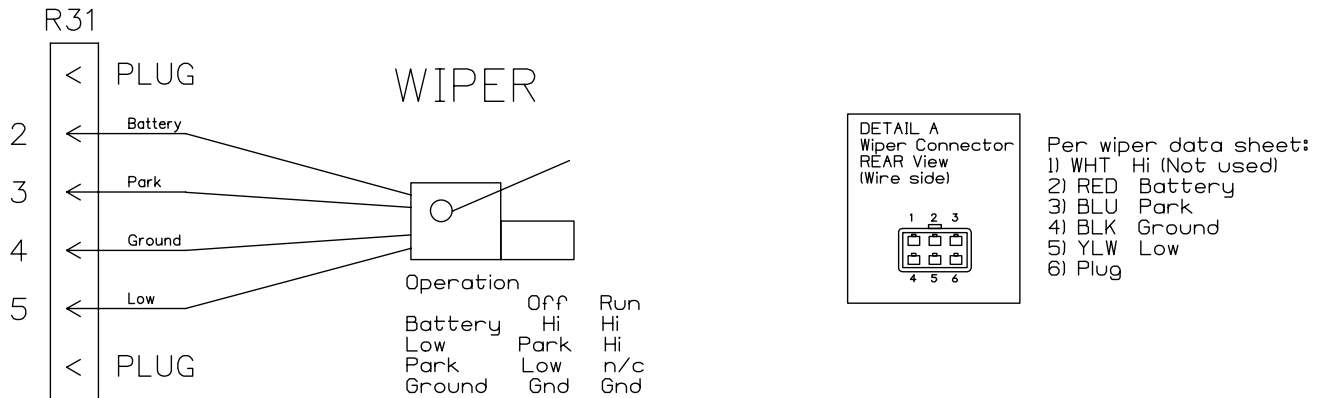
Trim Tab Harness

Fig. 4.15.1

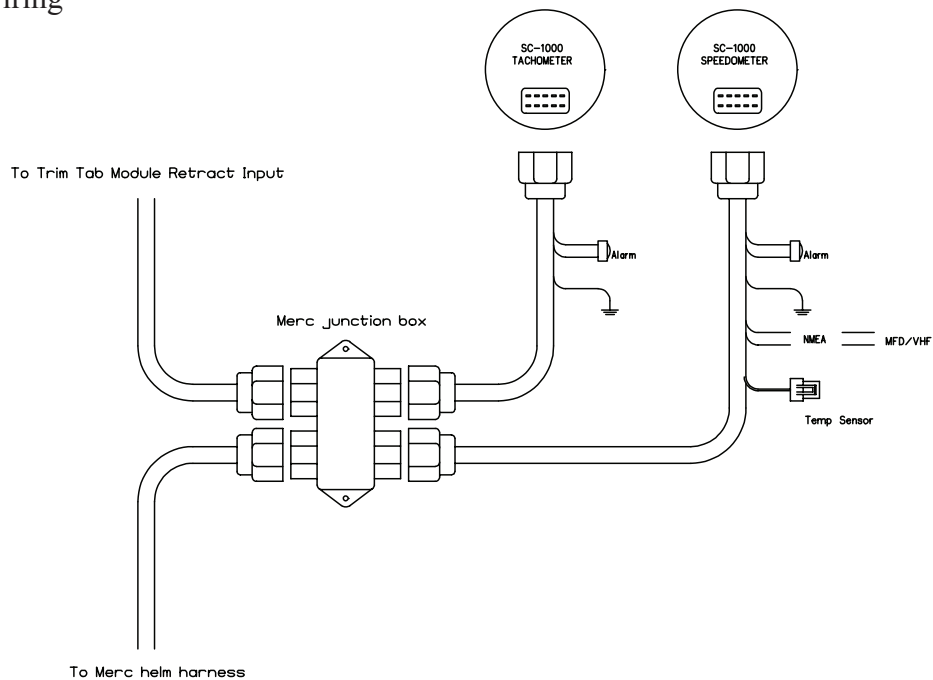


Wiper Harness

Fig. 4.15.2

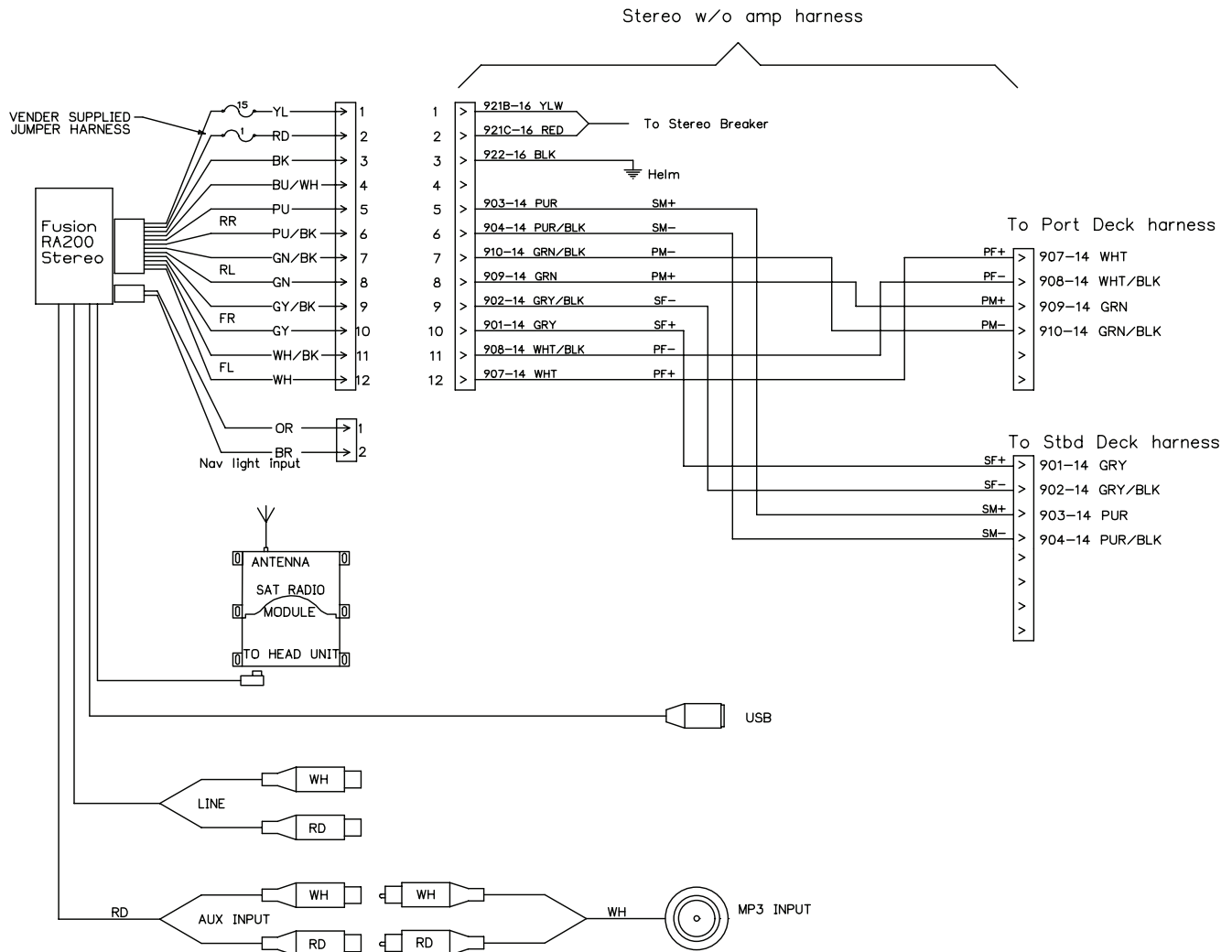


Instrument Wiring  
Fig. 4.16.1



## Audio System Schematic

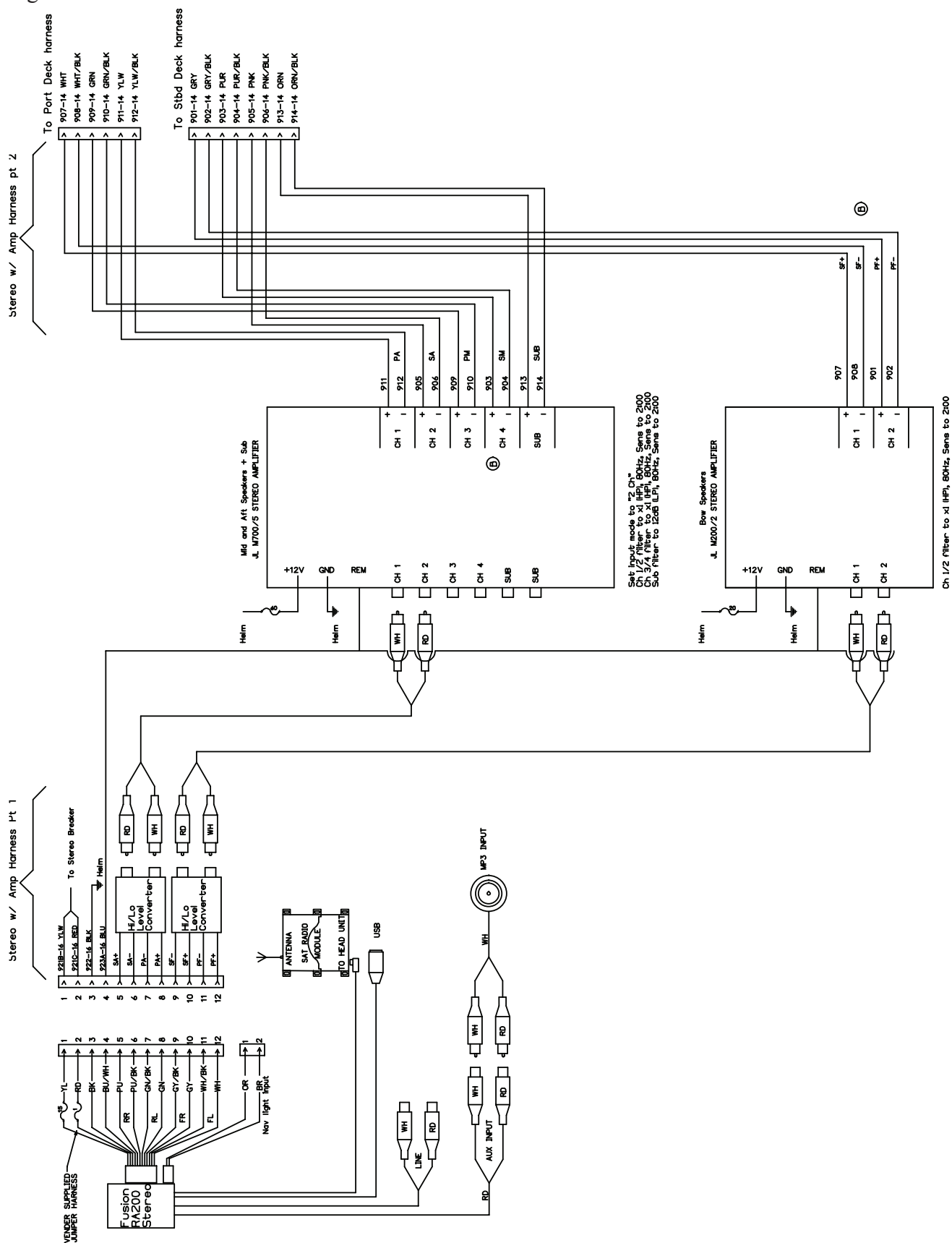
Fig. 4.17.1



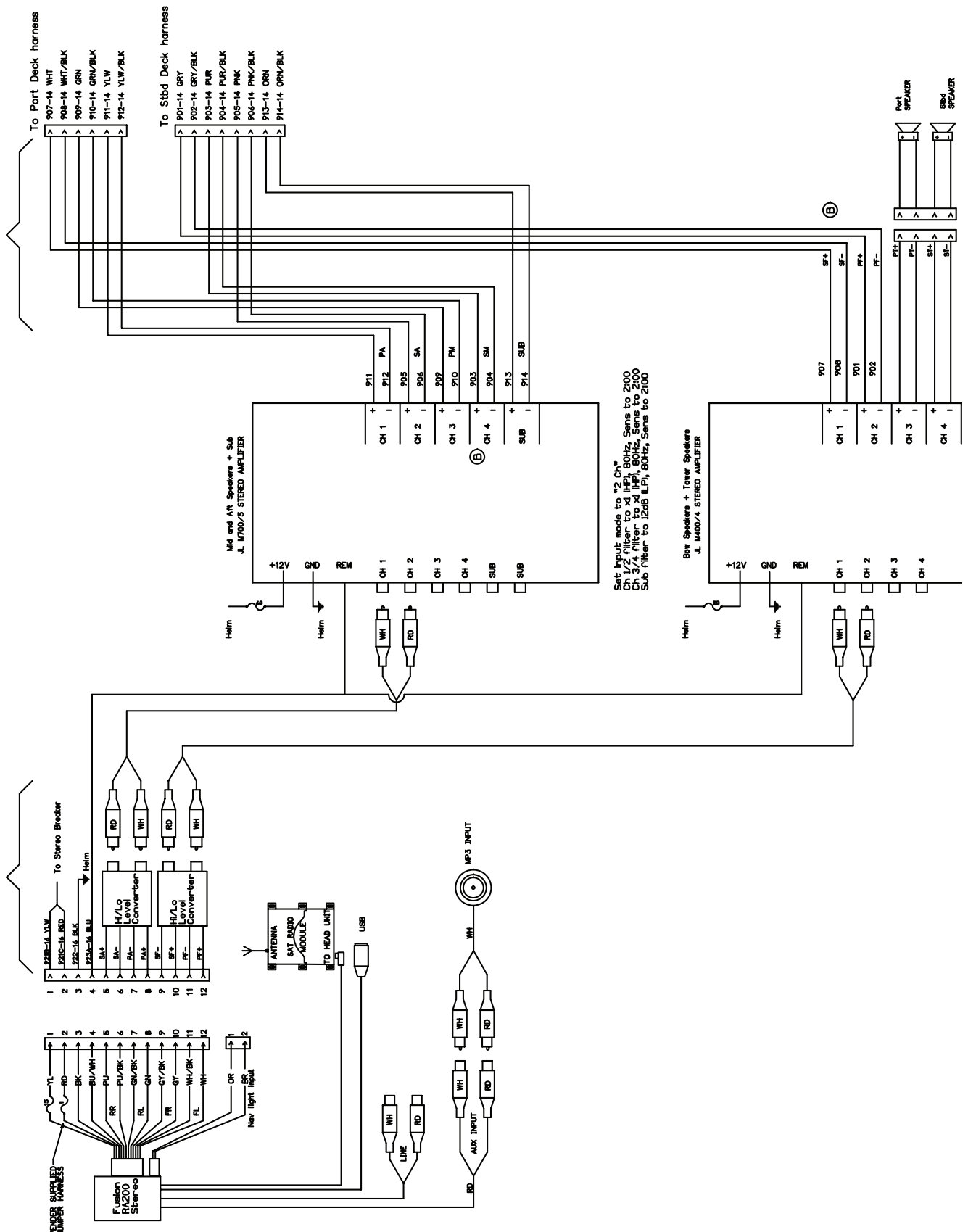


### Audio System/Premium Schematic

Fig. 4.18.1

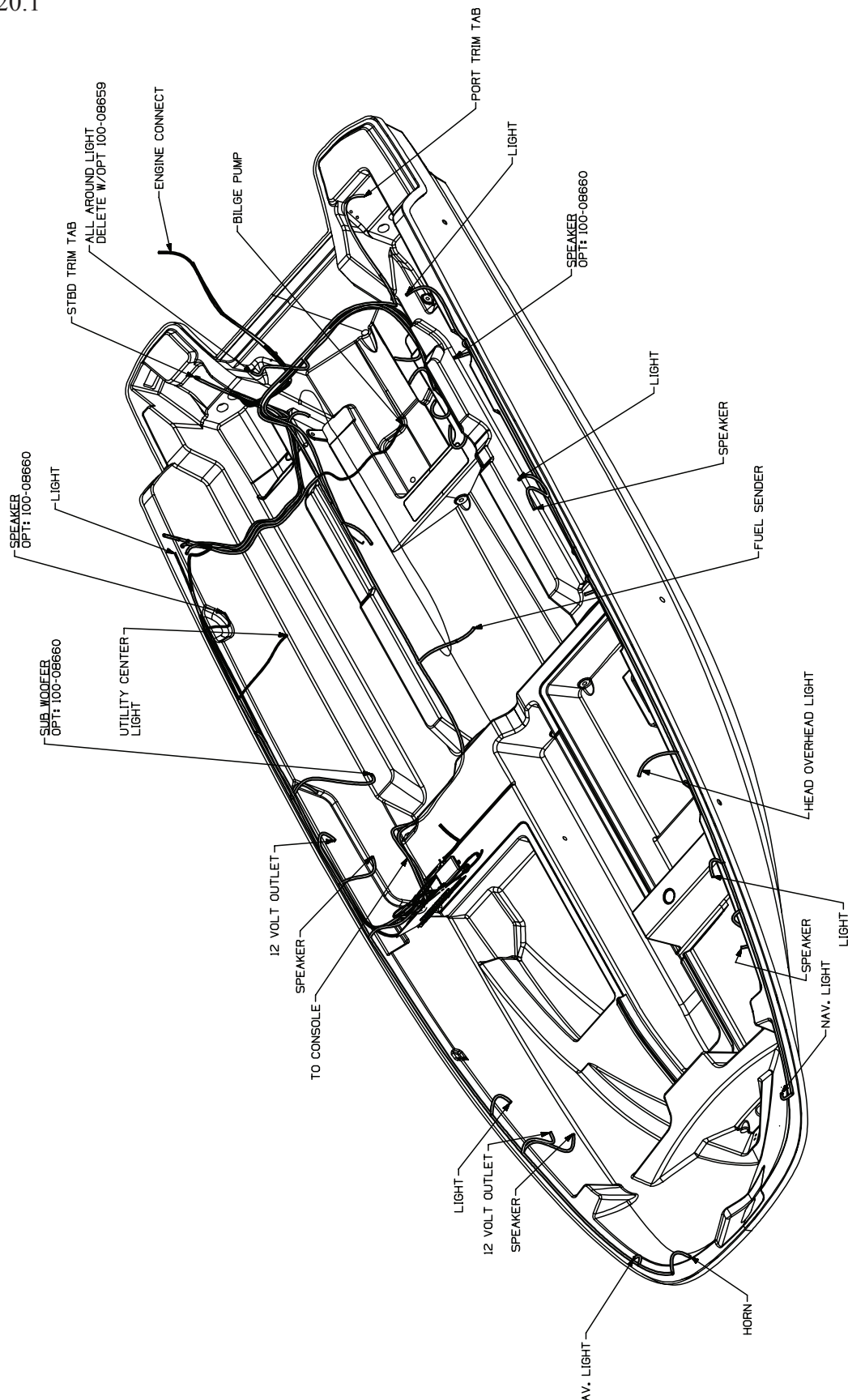


Audio System/Premium w/Tower Schematic  
Fig. 4.19.1

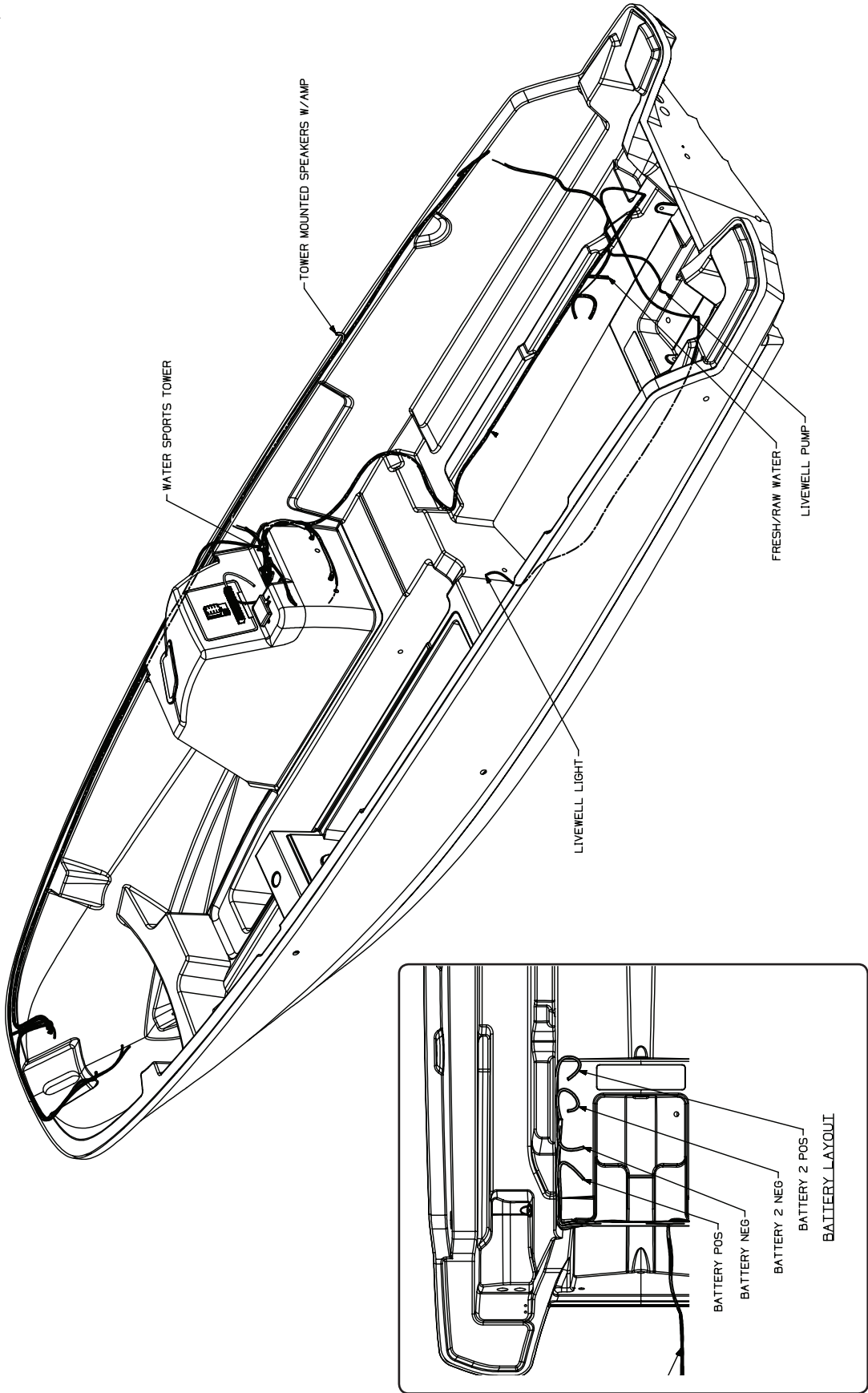


## Deck Harness

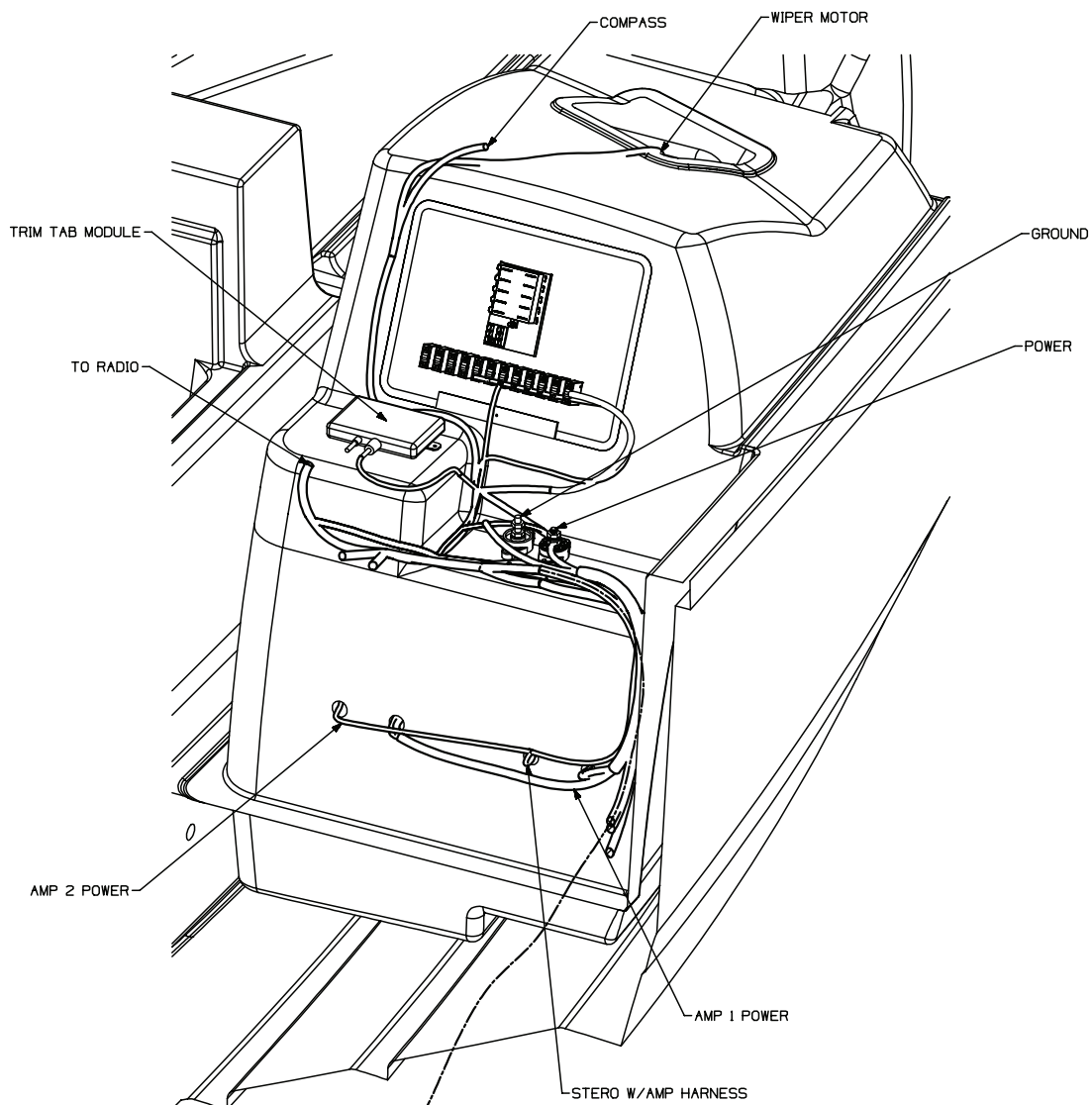
Fig. 4.20.1



Tower Harness  
Fig. 4.21.1



Console Harness  
Fig. 4.22.1



### 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

Fresh water, 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.

### 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.**

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.



### CAUTION

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

**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.**

### Bottom Painting a Bare Hull

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.

The gelcoat will have to be dewaxed of mold release wax before sanding can begin, otherwise the wax

will be dragged into the scratches and will reduce the adhesion properties of the paint.

Remove any mold release wax that may be present using fiberglass surface prep solvent and a scrub pad. Scrub only a few square feet at a time. Flush with fresh water. If the water beads up or separates, continue scrubbing the surface. When the water sheets off, the wax contaminate has been removed.

After the dewaxing is complete, application of a primer coat is recommended. Pay close attention to scratches, nicks and dings in the surface. If necessary, fill any repair areas with a watertight epoxy filler. After filler is cured, sand with 80 grit paper until smooth. Remove the sanding residue using a fiberglass solvent wash.

The paint can be applied after sanding and cleaning is complete. Follow the paint manufacturer's recommendations for application.

### 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.**

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.



### 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.**

### NOTICE

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

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't's after the painting is complete.

### 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.**

### 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

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.

### 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.

### Stainless Steel Care

**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).

### 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.

### 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 protectant 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.

### Cushions

Saltwater, salt residue, dirt, ultra-violet rays etc. will take their toll on vinyl products causing them to lose their luster and texture.

The cushions on your boat are made of a durable vinyl material called OMNOVA which is protected by a finish called PreFixx®. PreFixx® will keep your cushions looking new far longer than most other vinyl upholstery.

### To Clean Your Cushions



### CAUTION

**Solvents are flammable. Exercise proper care. Wear rubber gloves during all cleaning activity.**

**Use caution when cleaning around buttons, stitching and wooden or decorative trim as these solvents could seriously damage such areas.**

- **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 (isopropyl alcohol). Rinse cleaned area with fresh water and dry with a clean, soft, lint-free 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, lint-free cloth or towel.

The vinyl material and superior finish has been tested to resist heavy abrasion. Complete cleaning instructions are included in the owner's packet. Read all information provided by the cushion manufacturer regarding the proper cleaning and maintenance.

**Your cushions are not waterproof.** They are constructed of open-cell foam and will absorb and hold water. **Do not leave the cushions in standing water or exposed to heavy, prolonged rain.**

If, in the event your cushions become waterlogged, remove the foam from the cushion, press as much water as you can 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 a good 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

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.

### NOTICE

**DO NOT use petroleum based products, such as petroleum jelly, on the zippers or fasteners.**

### Cleaning Tempered Glass Windshield

### NOTICE

**DO NOT USE abrasives, harsh chemicals or metal scrapers on glass.**

Use commercially available glass cleaners or a mixture of fresh water and vinegar to clean your glass windows, windshield or portlights. Dry with a soft terry cloth towel or chamois.

### NOTICE

**For windshields with aluminum frames refer to "Aluminum Care" in this section.**

### Corian® Solid Surface Countertops

Corian® was developed for a lifetime of easy care. Following the simple guidelines below will keep your Corian® surface looking as new as the day it was installed.

#### Routine Care

Soapy water, ammonia-based cleaners or commercial solid surface cleaners, if used routinely, will remove most dirt and residue from the countertop.

#### Minor Cuts and Scratches

Rub the scratch in a straight line with a fine grit sand paper periodically switch rubbing direction 90° until all of the scratch is removed. Rinse top with water. Select the next lighter grit paper and rub over a large area to blend in the sanding. Continue the process using successively finer grits until desired gloss level is achieved. Wipe surface with damp cloth and let dry.

#### Heat Damage

Corian® has excellent heat resistant properties. However, as with all countertop materials, it is important to minimize direct exposure to intense heat. We recommend the use of trivets or hot pads when placing hot objects on the countertop.

#### Other Damage

In most cases Corian® can be repaired if accidentally damaged. However, to prevent any permanent damage to your countertop avoid exposing the surface to strong chemicals, such as paint removers,



oven cleaners, nail polish remover, etc. If contact occurs quickly flush the surface with water. Avoid cutting directly on the countertop.

### Refurbishing

Over time and use your countertop may acquire a patina, changing the appearance of the finish. Using a general countertop polish rub the entire surface in a circular motion, rinse with clear water and wipe dry

### Powder Coating Touch-Up

If it is necessary to apply touch-up paint on areas of the finish that have been scratched or damaged the powder material supplier should be contacted for their recommendation of the proper touch-up material to use.

Single component Acrylic Enamel (spray enamel) touch-up paint is commonly used for repair of minor damage in the powder coated finish. In some cases a two-component catalyzed paint system may be required to achieve the desired repair. In all cases, perform a color and adhesion test in an inconspicuous area of the finish to assure compatibility before applying the paint to the damaged area.

### NOTICE

**For the best results, use Orbit Industries touch-up paint, RAL 9010 Pure White.**

**Orbit Industries: 1-800-448-3885**

### Touch-up Procedure

- CLEAN surface of dirt, oil, grease, etc.
- SAND LIGHTLY with 400 grit wet/dry abrasive paper.
- REMOVE sanding dust with a lint-free cloth dampened with mineral spirits.
- TEMPERATURE of surface and paint must be at room temperature (between 70 to 90 degrees is ideal).
- APPLY paint to minor scratches by spraying

a small amount of paint into the container's cap. Using a small brush, carefully apply the paint sparingly to the properly prepared surface. **DO NOT APPLY A HEAVY COAT ALL AT ONCE.** Apply several light coats allowing the paint to dry until tacky between each coat.

### NOTICE

**The visual, mechanical, chemical as well as corrosion protective and weather resistance properties of repaired areas ARE NOT equal to those of the original powder coating and are not suitable for long term performance.**

### NOTICE

**If painting over exposed or bare metal, a chemical pretreatment process and/or primer sealer is recommended.**

**Follow manufacturer's recommendations.**

### NOTICE

**It is highly recommended that you DO NOT penetrate the powder coating on your boat by securing equipment or other objects onto the coated surface. If necessary, contact the manufacturer for repair recommendations.**

FOR MORE INFORMATION, CONTACT APEX POWDER COATING, INC CUSTOMER SERVICE AT 1-864-288-2739

### 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

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.

#### NOTICE

**Pay particular attention to the information provided in "Ethanol-Blended Fuel" in section 3 of this manual.**

### After Long Term Storage

At least annually, inspect your fuel system for leaks. You should check the fuel tank area below the floor for liquid fuel, or a strong odor of gasoline before each outing, but at least once a year you should open each access port to any of the fuel system components to inspect them for leakage. If any leakage or seeping of fuel around any fuel system fitting is found, or there is a strong odor of gasoline, **DO NOT** turn on or off any electrical appliances or attempt to start your boat; open all hatches to allow the compartment to ventilate, and call a qualified service/repair person for inspection and repair of the leak before using your boat.

### Electrical System

- Check all connections and tighten if necessary.
- Spray all 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.**

- 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.

#### NOTICE

**Follow the manufacturer's recommendations for long term storage of your battery(s).**

### 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

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.

#### NOTICE

**DO NOT USE a bimini top in lieu of a cover. Damage and aging will occur while providing no protection for your boat.**

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

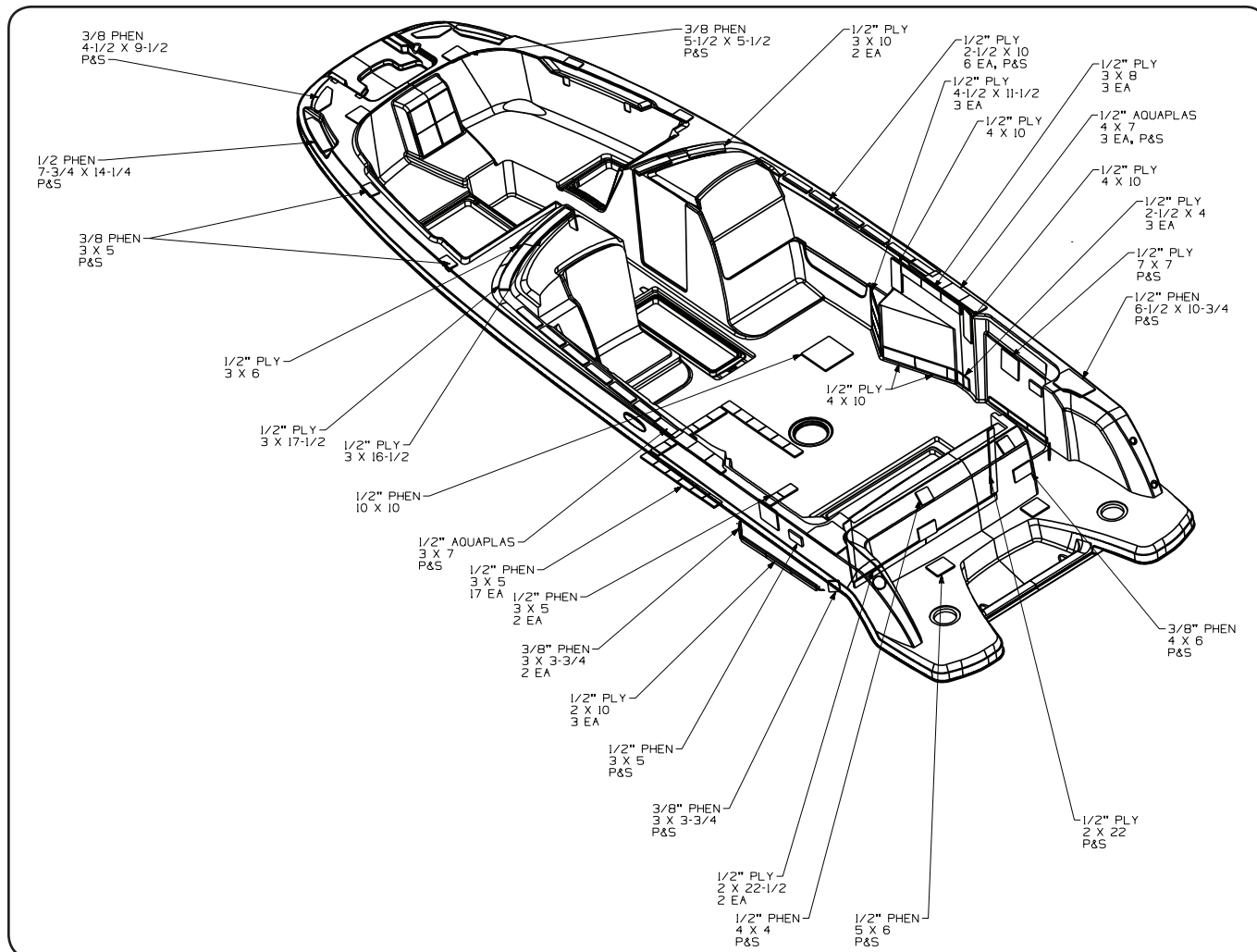
Antifreeze and other winterizing fluids can be toxic to aquatic life and cause harmful effects to plant life.

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

## Section 5 • Care & Maintenance

Fill out the log below after scheduled service or maintenance is performed.

MAINTENANCE LOG			
DATE	ENGINE HOURS	SERVICED BY	MAINTENANCE PERFORMED

NOTES