

220 Dauntless

Owner's Manual



THE UNSINKABLE LEGEND

220 Dauntless



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



WARNING

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

Introduction



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

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

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

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

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

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

Introduction

History

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

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

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

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



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Introduction

Preface

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

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

NOTE: Equipment may vary depending on options selected.

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

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BOSTON WHALER LIMITED MANUFACTURER WARRANTY (US AND CANADA)

Boston Whaler, Inc. (“Boston Whaler”) provides the following Limited Manufacturer Warranty to the original retail owner of its 2023 model year Boats, if purchased from an authorized Boston Whaler Dealer and operated under normal, non-commercial use, subject to the remedies, exclusions, and limitations set out below.

1. **Ten-Year Structural Hull Limited Warranty:** Any Structural Hull Defect in material or workmanship which is reported within ten (10) years from the date of sale to the original retail owner will be repaired or replaced at Boston Whaler’s sole discretion. The “Hull” shall mean the single fiberglass molded shell and integral structural components. A Structural Hull Defect shall mean a substantial defect in the Boat’s Hull which causes the Boat to be unfit or unsafe for general use as a pleasure craft under normal operating conditions.

2. **Three-Year Limited Warranty on Components Manufactured or Installed By Boston Whaler:** (not applicable to 13 Super Sport or 16 Super Sport models): Boston Whaler will repair or replace, at its sole discretion, any components manufactured or installed by Boston Whaler that are defective in factory materials and/or workmanship, which are reported within three (3) years from the date of 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 2023 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. **Limited Engine Warranty:** Retail owners will be entitled to the limited engine warranty as provided in the warranty manual from the engine manufacturer that was delivered to the retail owner with his or her Boston Whaler Boat.

EXCLUSIONS

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

- 1) Expenses for hauling out or transportation to and from the dealer or 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) Damage resulting from abuse, misuse, improper rigging and installation by an owner or any other person or entity that is not an authorized dealer, accidents, or overloading or powering in excess of the recommended maximum horsepower.
- 7) Failure of the owner to use, maintain, or store the Boat as specified in the Boston Whaler owner's manual; and any other failure to provide reasonable care and maintenance. Normal wear and tear maintenance items are excluded from warranty coverage including but not limited to filters, bulbs, batteries, bungees, wiper blades, anchor rope, trailer finishes, tires, brakes, bearings, and lights.
- 8) Any Boston Whaler Boat which has been altered or modified from Boston Whaler factory specifications, including penetration of the hull by anyone other than Boston Whaler factory personnel or Boston Whaler authorized dealer service personnel following factory specified procedures.
- 9) Damages resulting from use of improper trailer, improperly placed supporting bunks or slings, incorrect bunks placement, or improper boat lift or sling.
- 10) Damages due to failure to properly tow the Boat. For those Boats for which Boston Whaler offers a yacht tender package, damages due to towing when the package has not been installed.
- 11) Any Boston Whaler Boat used for commercial purposes, which includes, but is not limited to, any for-profit or other revenue-generating uses.
- 12) Any representation or implication relating to speed, range, fuel consumption or estimated performance characteristics.
- 13) Any failure or defect caused by an act of nature resulting in damage, cost, or expense.
- 14) Any failure or defect arising from a previous repair made by a non-authorized service provider.
- 15) Any item exceeding the expressed coverage limits specified in any Boston Whaler Limited Manufacturer Warranty.
- 16) Failure of the owner to use, maintain, or store an Accessory in reasonable fashion; and any other failure to provide reasonable care and maintenance.
- 17) Any accessory which has been altered or modified from Boston Whaler factory specifications.
- 18) Any accessory not purchased from an authorized Boston Whaler Dealer, authorized Boston Whaler website, or authorized Boston Whaler affiliate. For a list of Boston Whaler's affiliates, please refer to www.brunswick.com.
- 19) Any accessory used for commercial purposes, which includes but is not limited to, any for-profit or other revenue generating uses.
- 20) Any defect or repair requiring redesign of the Boat, except pursuant to the recall provisions of the United States Federal Boat Safety Act of 1971 or the recall laws of any other foreign jurisdiction.

SOLE REMEDY

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

ENVIRONMENTAL POLICIES

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

OTHER LIMITATIONS

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

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

STATUTE OF LIMITATIONS

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

OWNER'S OBLIGATIONS

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

after one repair attempt. The owner must provide Boston Whaler with a reasonable opportunity to repair, and reasonable access to the Boston Whaler Boat for warranty service and the owner shall pay for all related transportation charges and/or travel time. If the owner cannot deliver the product to such a dealer, written notice must be given to Boston Whaler. Boston Whaler will then arrange for the inspection and any covered repair and the owner shall pay for all related transportation charges and/or travel time. Our privacy policies are available at www.bostonwhaler.com.

ASSIGNMENT OF COMPONENT WARRANTIES

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

REGISTRATION & WARRANTY TRANSFER POLICY

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

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

MODIFICATIONS & SEVERABILITY

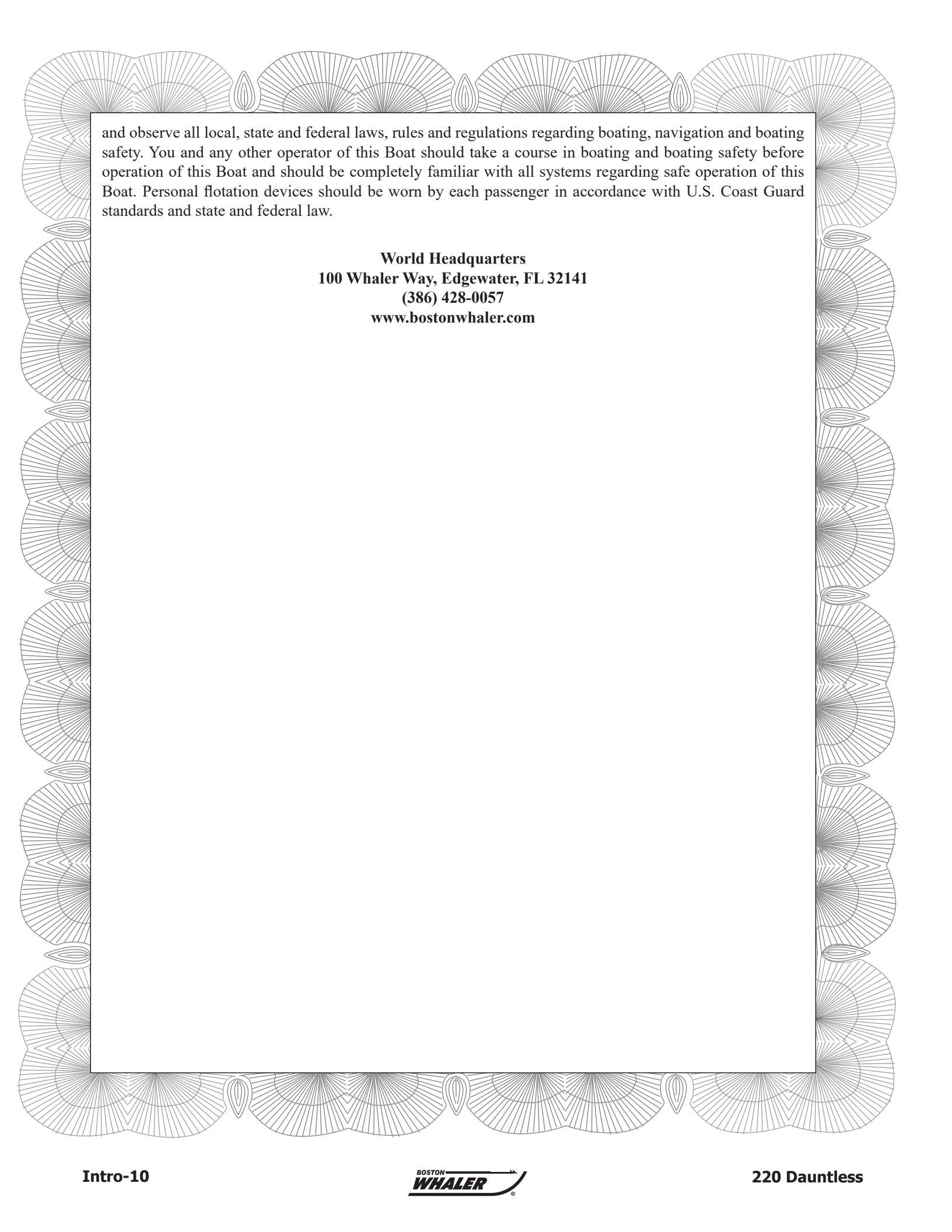
The terms and conditions contained herein, as well as those of any documents prepared in conjunction with the sale of this vessel may not be modified, altered or waived by any action, inaction, or representations, whether oral or in writing, except upon the expressed, written authority of a management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

GOVERNING LAW AND VENUE

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

SAFETY

It is your responsibility (as well as the responsibility of any other operator of this Boat) to be familiar with



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

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

Boston Whaler, Inc. (“Boston Whaler”) provides the following Limited Manufacturer Warranty to the original retail owner of its 2023 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 2023 model year 13 Super Sport and 16 Super Sport, if purchased from an authorized Boston Whaler Dealer, authorized Boston Whaler website or any Boston Whaler affiliate and utilized under normal, non-commercial use (“Accessory”), subject to the remedies, exclusions, and limitations set out below. Boston Whaler will repair or replace, at its sole discretion, any Accessory that is defective in material or workmanship, which is reported within one (1) year from the date of sale to the original retail owner. Boston Whaler is not responsible for any defect and/or damage to the Accessory and/or the Boat caused by improper installation, whether performed by the retail consumer, dealer or any other third party.
4. **One-Year Limited Warranty on Upholstered Items, Canvas, Teak, and Powder Coating:** Boston Whaler will repair or replace, at its sole discretion, any upholstered items, canvas, teak, and powder coating manufactured or installed by Boston Whaler that are defective in factory materials and/or workmanship and are reported within one (1) year from the date of sale to the original retail owner.

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

EXCLUSIONS

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

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

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

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

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

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

ENVIRONMENTAL POLICIES

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

ACCESS FOR SERVICE

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

STATUTE OF LIMITATIONS

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

ASSIGNMENT OF COMPONENT WARRANTIES

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

OWNER'S OBLIGATIONS

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

REGISTRATION & WARRANTY TRANSFER POLICY

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

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

MODIFICATIONS & SEVERABILITY

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

SAFETY

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

THE FOLLOWING SECTION IS APPLICABLE TO AUSTRALIAN CONSUMERS ONLY

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

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

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

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

**CALIFORNIA EVAPORATIVE EMISSIONS
CONTROL SYSTEM WARRANTY STATEMENT**

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and Boston Whaler, Inc. are pleased to explain the evaporative emission control system's warranty on your 2023 MY spark-ignition marine watercraft (SIMW). In California, new spark-ignition marine watercraft must be designed, built, and equipped to meet the State's stringent anti-smog standards. Boston Whaler, Inc. must warrant the evaporative emission control system on your spark ignition marine watercraft for the period listed below provided there has been no abuse, neglect or improper maintenance of your spark-ignition marine watercraft.

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

MANUFACTURER'S WARRANTY COVERAGE:

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

OWNER'S WARRANTY RESPONSIBILITIES:

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

Introduction

PRIVACY STATEMENT

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

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

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

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

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

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

Introduction

Owner's Packet

The owner's packet is a large, zippered bag that contains all the manuals and instructional information for non-Boston Whaler equipment and systems on your boat. Read and retain this information.

Owner's Manual

The contents of this manual:

• Provides basic boating safety information	• Details the boat's features and equipment
• Outlines the fundamentals of boat use	• Contains maintenance information

You must learn to operate this boat as well as read, understand and use this manual. This manual does not give you 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 motor vehicle.

Your Responsibilities

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

• Take a boating safety course	• Understand and follow the <i>rules of the road</i>
• Get instruction in proper boat handling	• Learn how to navigate

Contact Us

Boston Whaler, Inc.

877-294-5645

www.bostonwhaler.com

Warranties

In addition to the Boston Whaler Limited Warranty, each component and/or system on your boat has its own warranty that can be found with the specific information and manual for that component. These are included with your owner's information packet. Please locate, read, and retain the individual warranties.

Boating Information*

A comprehensive background in boating can be found in the book, *Chapman Piloting: Seamanship & Small Boat Handling*, by Elbert Maloney. For boating courses in North America, contact one of the following organizations:

Organization	Website	Phone
BoatUS Foundation	boat.us.org	800-336-2628
U.S. Coast Guard	uscgboating.org	—
U.S. Coast Guard Auxiliary	cgaux.org	877-875-6296
US Power Squadron	usps.org	888 367-8777
Canadian Coast Guard	cgc-gcc.gc.ca	800-267-6687
Canadian Power and Sail Squadrons	cps-ecp.ca	888-277-2628
Red Cross	redcross.org	800-733-2767

State boating offices

Yacht clubs

*Outside of North America, contact your dealer or your governmental boating agency for assistance.

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Safety Labels

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

Mounted at key locations throughout this vessel are safety labels which advise the operator of imperative safety precautions to follow when operating and/or servicing equipment. Label categories are broken down by color and type.

DANGER

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

WARNING

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

CAUTION

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

NOTICE

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

ATTENTION

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

Below are black and white examples of safety labels which appear throughout this manual and must be observed when operating or servicing this vessel. Learn to recognize the label category and understand the explanations before reading this manual.

DANGER

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

WARNING

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

CAUTION

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

NOTICE

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

ATTENTION

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

Safe Boating Means:

- Knowing the limitations of this vessel.
- Following navigational rules (rules of the road).
- Be aware of 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 passenger safety at all times.
- Reducing speed when there is limited visibility, rough water, boats or structures.

NOTICE

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

Boating in beautiful weather and calm water conditions can be a wonderful experience. But boating 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 USCG, U.S. Power Squadron or equivalent boating safety course. Call the BoatUS Foundation at 800-336-2628 for information on available courses, or go to: www.boatus.org
- Get hands on training on how to operate this vessel properly.

Safe Boating Checklist

Before Departure

- Check weather forecast
- Check required documents are on board
- Check navigation charts are on board
- Check safety equipment is on board
- Ensure passengers and crew have received safety instructions on procedures, location, and use of safety equipment.
- Check drain plugs are installed
- Check bilge pumps are working and clean
- Check blower is working
- Check navigation lights are working
- Check horn is working
- Check fuel system has no leaks or fumes
- Check fuel filter is tight and clean
- Check power steering fluid is full (if applicable)
- Check steering system is working smoothly
- Battery connections and fluid levels (if applicable)
- File float plan with friend or relative

Trailing (if applicable)

- Check boat position is secure on trailer
- Check tiedowns are tight
- Check winch is locked
- Check trailer hitch is connected
- Check engine clearance in trailering position
- Check safety chains are attached
- Test lights, brake lights, and turn signals
- Adjust mirrors for trailering

After Return

- Dry and stow PFDs and other safety gear
- Fill fuel tanks (allow for expansion) to prevent condensation
- Check fuel system for leaks
- Check bilge pump is operating properly
- Check bilge is clean and leak free
- Check in with float plan notification person

General Considerations

- Know how this vessel 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 this vessel in case you are unable to do so.
- You are responsible for passenger's actions. If they place themselves or the boat in danger, immediately correct them.
- Remember the Rule of Thirds: Use one third of the fuel for the trip outbound, one third for the return trip, and keep one third for reserve.

Maintaining Control

High performance boats require intimate knowledge of each vessel's handling characteristics for safe, high speed operation. Learn the effects of trim, steering and throttle changes at gradually increasing levels of speed. Also, approach full throttle while adjusting trim for safe handling of the vessel.

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

The operator must always be alert to approaching boats (from the rear, right and left sides, as well as those ahead). There can be a variety of navigational hazards in the water including partially submerged debris, 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 or increase or decrease speed abruptly, your passengers are at risk of being thrown overboard or thrown about the boat.

When visibility becomes impaired because of weather or time of day, use navigational lights to ensure other boats can see you. In addition, if high

bow angle causes reduced visibility, slow down to allow sufficient time to react if an emergency occurs.

Boarding

- Board only one person at a time.
- Never jump into boat; step or climb.
- Load gear after 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

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 react in critical situations. Give special attention to the effects of alcohol and drugs while boating. No other single factor causes as many marine accidents and deaths. Death or serious injury and damage to personal and private property can result from being impaired while operating a boat.

Operator Responsibilities

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

WARNING

A qualified operator must be in control of the boat at all times. Do not operate the boat while under the influence of alcohol or drugs. Never operate this vessel 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 allows you plenty of time to avoid dangerous situations.

WARNING

STABILITY HAZARD

- Load boat properly. The manufacturer's load rating is the maximum weight 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 in 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 devices (PFDs) for every passenger on board. Boats must have at least one throwable life preserver.

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

Legally Mandated Equipment

Consult your national boating law enforcement agency. The following equipment is the minimum required by the United States Coast Guard (USCG) for boats with a length less than 26 feet (7.9 meters).

Personal Flotation Devices (PFDs)

One USCG approved Type I, II or III is mandatory for each person aboard. One throwable Type IV device

is also required to be onboard and located so that it is immediately available.

A Type V device is acceptable (see *PFD Classifications*, later in this chapter) if worn for approved use. Always wear a PFD when boating.

WARNING

There is rarely time to reach stowed life jackets in time of emergency. Boaters should always wear a properly fitting, approved life jacket when on the water. Children and non-swimmers must wear PFDs at all times when aboard.

NOTICE

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

Fire Extinguishers

If there is no fixed fire extinguishing system installed, two size B-I or one B-II fire extinguisher(s) must be on board. If a fixed system is installed one B-I is required. The American Boat & Yacht Council (ABYC) recommends two B-5 type fire extinguishers be on board and located within easy reach of helm and passenger area.

Sound Producing Devices

Ensure a sound producing device such as a horn or whistle is on board. Navigation rules require that a sound made by an audible device be capable of a four second blast, and be audible for 1/2 mile (.80 km).

Visual Distress Signals

If you operate this vessel in coastal waters or on the Great Lakes, you must have visual distress signals for day and night use on board. At least three day/night combination pyrotechnic devices must be carried, readily accessible, in serviceable condition, and not be expired. Non-pyrotechnic substitutes include one orange flag for day-use and one electric S-O-S signal light for night-use. Store all pyrotechnic signals in a well marked, waterproof container.

Additional Required Equipment

This vessel comes equipped with other mandated equipment such as navigation lights, and certified marine sanitation device (Option).

Additional Safety Equipment

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

- First Aid kit
 - GPS
 - Marine VHF radio
 - Moisture repellent
 - Mooring lines
 - Fenders
 - Moisture repellent
 - Waterproof flashlights
 - High power spotlight
 - Spare propeller
 - Tool kit
 - Anchor
 - Compass
 - Manual bilge pump
 - Spare keys
 - EPIRB emergency positioning indicating Radio beacon
 - Boat hook
 - Extra batteries
 - Instruction manuals
 - Lubricating oil
- Screwdrivers (Phillips and flat)
 - Pliers (regular, Vise-grip, tongue and groove)
 - Wrenches (box, open end, Allen and adjustable)
 - Socket set (metric and U.S.)
 - Electrical tape and duct tape
 - Hammer
 - Spare parts kit (spark plugs, fuses, etc.)

Carbon Monoxide (CO)

Carbon monoxide (CO) is an odorless, colorless, and 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 concentrations or very short exposure to high concentrations can result in asphyxiation and death. Symptoms of carbon monoxide poisoning include:

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

If symptoms are detected, get medical attention as soon as possible. Symptoms of carbon monoxide

(CO) poisoning may be confused with seasickness or intoxication, potentially delaying the seeking of medical attention. The poisoning victim's skin often turns cherry red. If CO poisoning is suspected, have the victim breath fresh air deeply. If breathing stops, resuscitate. A victim often revives, then relapses because organs are damaged by lack of oxygen. CO can accumulate in dangerous concentrations anywhere in or around your boat including on back decks, swim platforms, or in water around generator exhaust. CO can remain in or around the boat at dangerous levels even if the engine is no longer running (see Figure 1.6.1). Remember:

- If you smell exhaust you are inhaling CO.
- Change course/speed to improve ventilation.
- Adjusting the canvas enclosure and/or vents and other opening devices can improve ventilation.

To minimize the danger of carbon monoxide accumulation:

- 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, or CNG cooking devices in areas where fresh air can circulate.

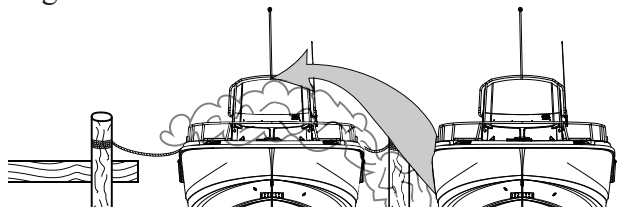
⚠ DANGER

- **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 CO 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 requires a working carbon monoxide detection system, preferably in each sleeping quarter.**

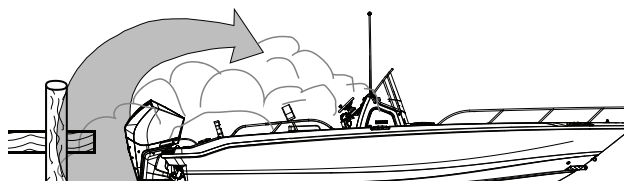
⚠ DANGER

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

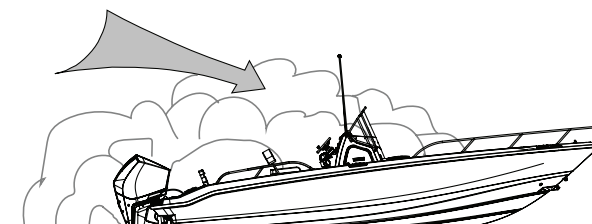
Carbon Monoxide Accumulation Scenarios
Figure 1.6.1



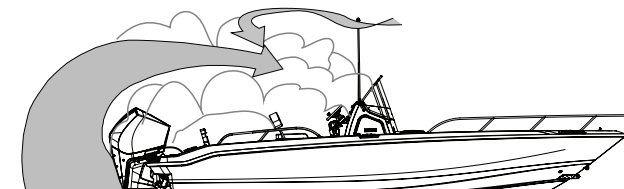
EXHAUST FROM OTHER BOATS.



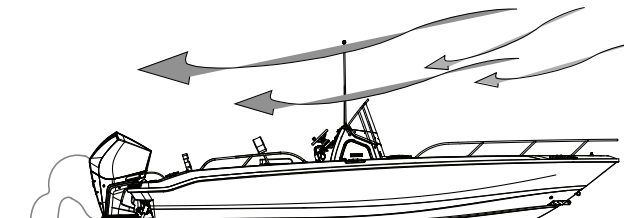
BLOCKAGE OF EXHAUST BY OBSTRUCTION



OPERATING AT A HIGH BOW ANGLE



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



GOOD AIR FLOW

OPEN ALL HATCHES, PORT LIGHTS OR CANVAS TO LET FRESH AIR CIRCULATE.

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) allows a person that has fallen overboard to remain afloat with far less effort and body heat loss, extending the survival time required to find them.

Personal Flotation Devices (PFD)

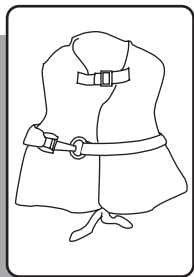
One USCG approved PFD, Type I, II or III for each person aboard or being towed on water skis, tubes, etc. The law requires that PFDs must be readily accessible, if not worn. Readily accessible means removed from storage bags and unbuckled.

NOTICE

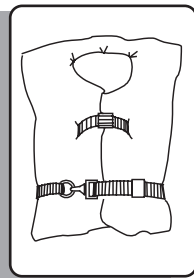
Children and non-swimmers must wear PFDs at all times when aboard.

PFD Classifications

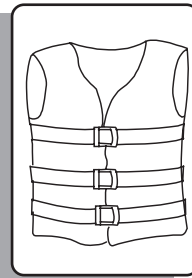
Listed below are the several different types of PFDs, each life jacket has different purposes, choose one that will suit your purpose.



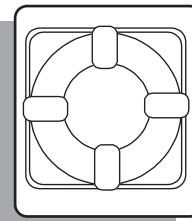
Type I, The off-shore life jacket is considered the most buoyant, it is designed to turn an unconscious person face up. Use in all types of waters where rescue may be slow, particularly in cold or rough water conditions.



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



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



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



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

Before purchasing PFDs, ensure that there is an attached tag indicating they are approved by the USCG or by your 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 owner/operator to assist any person or boat in distress as long as rendering assistance does not endanger the owner/operator, the passengers or the boat.

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

Medical Emergency

You may be far from professional medical help when you are boating. At least two 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 can help in some areas, but they are limited and unreliable and should not be used in the place of a 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°F (21.1°C). There are three steps that must be taken when a person has fallen overboard:

1. Return 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 serves as another marker.

2. Making Contact

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

3. Get 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 reboarding ladder can be deployed to accommodate a person reboarding the boat without assistance.

Fire

Fire is a serious boating hazard. Boats will burn quickly. Do not remain onboard and fight a fire for more than a few minutes. If the fire is out of control and cannot be put out with the fire suppression equipment onboard, abandon ship immediately. The fumes released during a fire are toxic and should be avoided. Even after the fire has been extinguished, proper ventilation of the area is required to minimize exposure to harmful fumes.

DANGER

- **Fires can spread quickly. Have the proper fire fighting equipment close at hand, and in good working order to respond quickly.**
- **Small fire extinguishers have short 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 an automatic fire extinguisher has discharged in the compartment, wait 15 minutes before opening the compartment. Have extinguisher handy in case of a flare up.
- If possible, signal for help. Radio, visual, and audible signal should be used as needed. Also understand, that you must render assistance to any boater requesting help.
- If fire is out of control, grab all necessary survival gear, distress signals, put on personal flotation devices (PFDs) and prepare to abandon ship.
- If you do abandon ship, ensure the passengers have PFDs. Take a head count before entering the water and take another head count when in the water. Stay together.
- If the bilge pump(s) have not automatically turned on, switch them on immediately.
- The deck scuppers on this vessel are designed to drain deck of water.
- Keep the bilge pumps running until flooding is under control.
- Take a head count of all passengers.

Flooding, Swamping and Capsizing

In the event of flooding, swamping or capsizing:

Flooding

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

Swamping

- Always wear a 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.

Capsizing

Capsized is when a boat is on its side or completely upside-down (usually as a result of wave action, improper loading or load shifting).

If the boat will not right itself, get out of the water and climb onto the exposed hull.

- Take 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 engine(s)
- Check on passengers
- If bilge pump(s) have not automatically turned on, switch them on immediately.
- Determine amount of damage to boat 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 USCG 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 engine, (shut off at ignition or pull on emergency engine shut-off switch).
- Drop anchor outside of channel, if possible, to prevent drifting.
- Determine if problem can be fixed or is assistance needed.
- Call for assistance if needed.

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

Outboard engines require propulsion to control the direction the boat will take. Without propulsion, the steering is virtually useless. If you are in a congested waterway you will need to react quickly to warn others that you have lost power, propulsion or steering control and that assistance will be needed.

Grounding

Running aground may be avoided by paying attention to marker buoys or indicated by waves as they form into breakers when passing over a sand bar. If you do run aground, the course of action depends on how hard the boat hits bottom and whether the boat remains stranded. If it is a simple touch, you may need only to inspect the lower drive of the engine and the hull of the boat. If possible do a thorough inspection before trying to get loose; reversing your boat before this is done may cause more damage.

Distress Signals

Visual Distress Signals (VDS)

- USCG regulations require boats in coastal waters and the Great Lakes to carry a 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 meters), open sailboats less

than 26 feet (7.9 meters) 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 and not be expired.
- Carry three signals for day use and three for night. Some pyrotechnic devices meet both day and night use requirements.
- Store pyrotechnic signals in a cool, dry location. Prominently mark an orange or red watertight container *distress signals*.

Other recognized visual distress signals include:

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

Audible Distress Signals, (ADS)

USCG regulations require one hand, mouth or power operated whistle or horn, audible for at least half a mile. Other audible distress signals include:

- Radio communications
- Radio-telegraph alarm
- Position indicating radio beacon
- Morse code S-O-S (3 short 3 long 3 short) sounded by any means.
- Fog horn sounded continuously.

Radio Communications

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 (see Figure 1.12.1). Television, radio, and internet can give you access to NOAA weather

reports that will help you make a determination on where and when to get underway. The following are some weather related rules:

- Understand the design limitations of this vessel.
- Check the weather forecast and water conditions before leaving and while underway.
- Wear a personal flotation device (PFD)
- If bad weather is approaching, immediately seek a safe harbor.
- If bad weather is approaching, immediately seek safe harbor. If bad weather hits, seat passengers in cabin or cockpit deck. Head 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. 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 storm location relative to your location and the direction the storm is moving.

WARNING

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

NOTICE

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

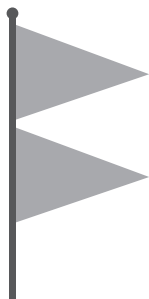
Weather Warning Pennants
Figure 1.12.1

Small craft



Red flag: Winds to
33 knots
(38 mph).

Gale



Two red flags: Winds
34-47 knots
(39-54 mph)

Storm



Square red flag
with black box:
Winds 48-63 knots
(55-73 mph)

Hurricane



Two square red
flags with black box:
Winds above
64 knots (74 mph)

Swimming, Diving and Water Skiing

Swimming

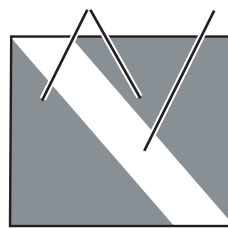
- Do not swim near a moving boat.
- Many areas prohibit swimming from a boat except in designated areas.
- Turn off engine in gear (to prevent propeller windmilling) before picking up swimmer.

Diving

Recognize and respect diving flags (see Figure 1.12.2). Keep at least 100 feet (30 meters) away.

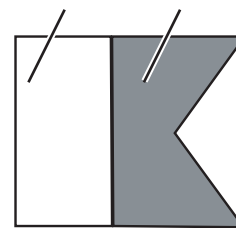
Diver's Flags
Figure 1.12.2

RED WHITE



Sport diver's flag

WHITE BLUE



Code alpha flag

Sport Divers Flag - Red flag with diagonal white stripe marks a diver in the water.

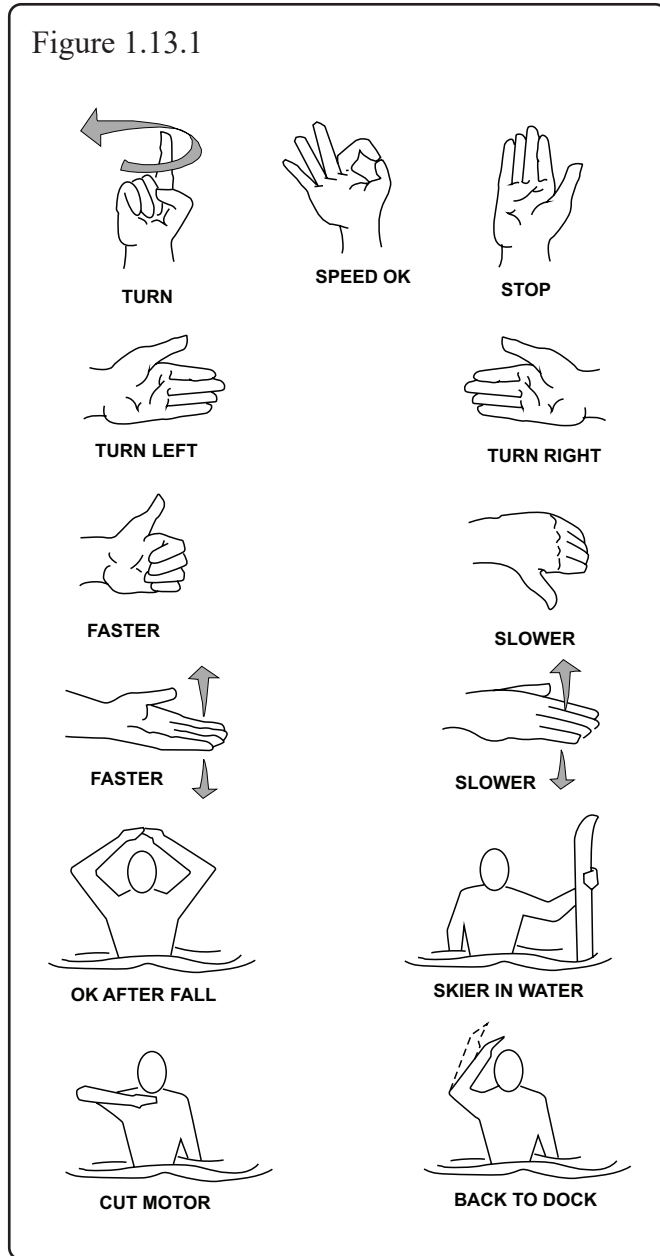
Code Alpha Flag - Blue and white pennant designates boat being used in dive operations.

Water Skiing

- Always have two persons in the boat, one at the controls and one continuously look at the skier.
- 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 boat directly behind a water skier. At 22 knots (25 MPH), 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 towline length.
- Learn the signals to communicate with a skier. The skier is to control the boat through hand signals (see Figure 1.13.1).
- This vessel handles differently while towing a skier; carefully 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 person in the water.

- Turn off engine before picking up skier.
- If the skier suddenly releases tow rope, it can backlash into cockpit. Spotters watching the skier must be aware of this fact and be prepared to take appropriate action to avoid injury.

Water Skiing Signals



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 up or palm up, move hand up and down.

Speed OK – Raise arm and make OK symbol with thumb and index finger

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

OK After a Fall – Clasp hands together overhead.

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

Cut Motor – Draw finger across throat.

Back to Dock – Pat top of head.

! WARNING

SWIMMING/DIVING HAZARD

- Keep clear of areas designated/marked for only swimmers and divers only.
- Never swim when there is lightning.

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 feet from other objects.
- Never follow directly behind a water skier.
- A competent observer must watch 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

⚠ DANGER

PROPELLER SAFETY

- **Before starting the 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 the boat from the water when engines are on.**
- **Educate passengers about propeller danger.**
- **Be alert when operating in congested areas; never enter swimming zones.**
- **Take extra precautions near boats that are towing skiers or tubers.**
- **Never permit passengers to ride on the bow, gunwale, transom, seatbacks, or other locations where they may fall overboard.**
- **Stop! If someone falls overboard. Slowly turn the boat around, and keep the person in sight as you approach. Turn engine off with boat in gear before bringing the person aboard.**
- **Never reverse this vessel to pick someone up out of the water.**

Towed Inflatables

ATTENTION

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

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

Engine Emergency Stop Switch

⚠ WARNING

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

This vessel is equipped with an engine emergency stop switch located at the helm. The engine emergency stop switch incorporates a shut-off switch, switch clip, lanyard and lanyard clip, which is clipped to the operator when running (see Figure 1.15.1).

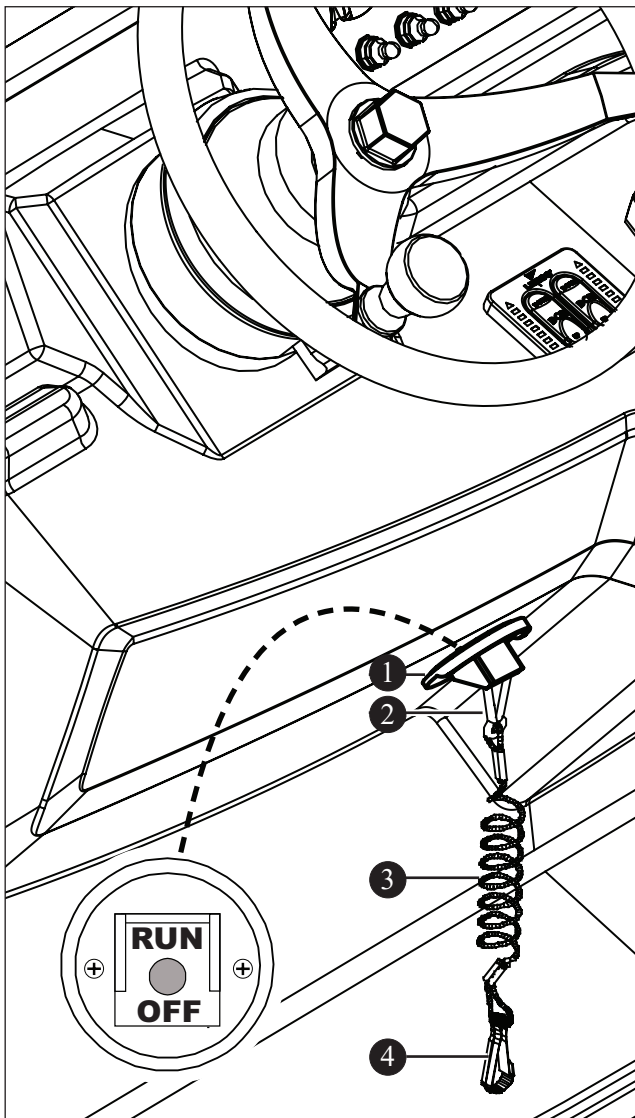
If an emergency arises and the engine must be shut down, a pull on the cord to release the clip from the shut-off will shut off the engine.

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.

The lanyard should be long enough to prevent accidental 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.

Engine Emergency Stop Switch
Figure 1.15.1



- 1 ENGINE EMERGENCY STOP SWITCH
- 2 HELM SWITCH CLIP
- 3 LANYARD
- 4 OPERATOR SWITCH CLIP

1st Mate™ Safety and Security System

The 1st Mate mobile app and wearable device integrate with Mercury systems to provide alerts, alarms, and distress communications designed to keep the captain and passengers safe. The system accommodates a captain and up to seven passengers. Features includes:

- Captain overboard event turns engine(s) off.

- Captain or passenger overboard event sounds alarm on the boat and via the app.
- Distress message capabilities to alert emergency contact(s) including location, heading, date and time of incident.
- Theft deterrent against boat-and-engine theft.

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

Float Plan

Float plans are important to you should you encounter problems on the water. A float plan should contain a description of this vessel 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 USCG, 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. Upon return, notify the contact to let them know you are back.

Chart Course

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

⚠ WARNING

Hitting an object in or under the water or boating in dangerous currents can cause serious injury or death to occupants in the boat. You must know where the hazards are and avoid them. In uncharted waters, boat very slowly and post a lookout.

If an object is struck or if you run aground:

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

Environmental Considerations

Fuel and 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.

Excessive Noise

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

Wake

⚠ WARNING

Speed hazard, watch your wake. It might capsize a smaller craft. You are responsible for damage caused by your wake.

⚠ CAUTION

Reduce speed in a congested waterway. Be alert for no wake markers.

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

Homeland Security Restrictions

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. Navy vessel.
- Observe and avoid all security zones. Avoid commercial port areas, especially those that involve military, cruise line or petroleum facilities. Observe and avoid other restricted areas near dams, power plants, etc.
- Do not stop or anchor beneath bridges or in channels.

America's Waterway Watch

In 2005, the United States Coast Guard officially launched *America's Waterway Watch* to encourage the boating public to report suspicious activities in our nation's ports and waterways. *America's Waterway Watch* simply asks anyone who works, lives, or recreates on the water to keep an eye out for suspicious activities. Anyone who spots such activity is asked to call the National Response Center's 24-hour hotline or 877-24WATCH (877-249-2824). If there is immediate danger to life or property call 911 or the USCG on marine channel 16.

Safety Label Locations

Mounted at key locations throughout the boat, safety labels advise the owner/operator of imperative safety precautions to follow when operating and/or servicing equipment. Do not remove or obstruct any label. Replace any label which becomes illegible (see *Label Locations* section next in this chapter).

Label Locations

IMPORTANT: Replace any damaged or illegible labels. Contact your dealer to obtain replacements.

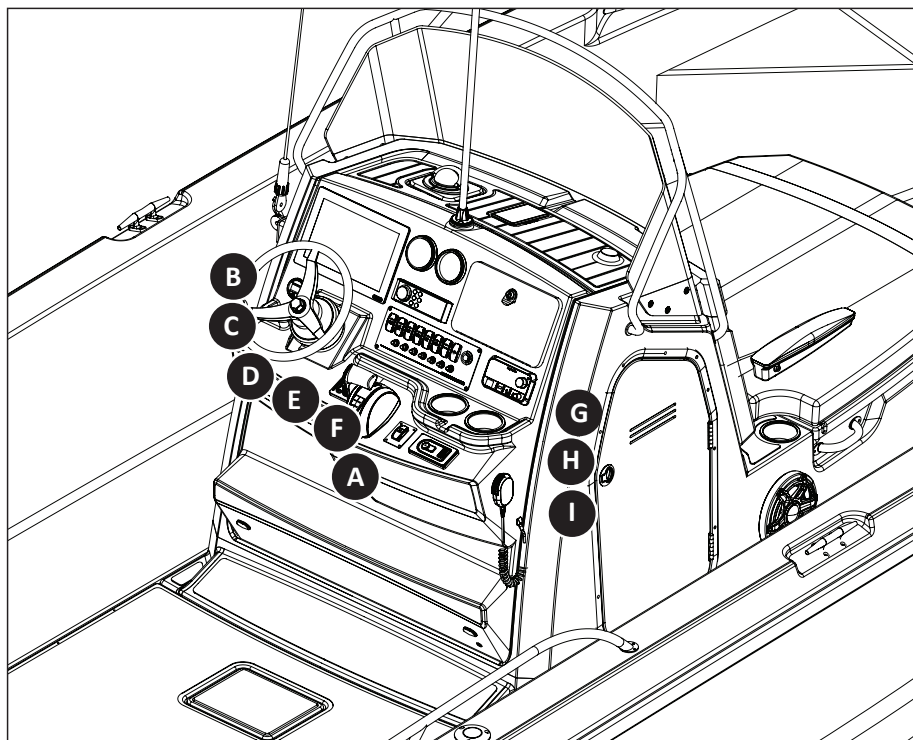


2156485

B **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.

1795087



E **WARNING**

FAILURE TO FOLLOW THESE GUIDELINES CAN RESULT IN INJURY OR DEATH

USE CAUTION WITH SKIER IN TOW AS THE TOW ROPE MAY SNAP BACK INTO COCKPIT WHEN RELEASED
 TOWER RATED FOR WATER SKIING OR WAKE BOARDING USE ONLY
 ALL OTHER RECREATIONAL TOWABLES USE TRANSOM STERN EYES
 DO NOT TOW OTHER BOATS OR USE FOR PARASAILING
 DO NOT JUMP OFF OR DIVE FROM TOWER
 NEVER ALLOW LOOSE TOW ROPE ENDS TO HANG FROM TOWER
 ENSURE STRUCTURAL INTEGRITY OF TOWER AND ATTACHMENT POINTS ON VESSEL PRIOR TO USE

1851556

Optional *All Activity Tower* only

D **WARNING**

ROTATING PROPELLER MAY CAUSE SERIOUS INJURY OR DEATH. SHUT OFF ENGINE WHEN NEAR PERSONS ARE IN WATER

1950698

C

LOOK BEFORE YOU PUMP!

USE E10 FUEL

Do not use any fuel containing greater than 10 percent ethanol (E10) in this equipment. It may cause damage or failure and is prohibited by Federal Law. For more information: www.LookBeforeYouPump.com

Ethanol Percentage

10% OK NO 15%—30%—85%

2304853

F **WARNING**

Carbon monoxide (CO) can cause brain damage or death.
 Engine and generator exhaust contains odorless, colorless CO gas.
 For additional information on CO poisoning, see *Owner's Manual*.
 At first sign of CO poisoning, get to fresh air. Signs of CO poisoning include nausea, headache, dizziness, drowsiness, and unconsciousness.

1811368

G **WARNING**

DOOR MUST BE SECURED IN THE CLOSED POSITION WHILE VESSEL IS UNDERWAY.

2063402

H **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.

1691003

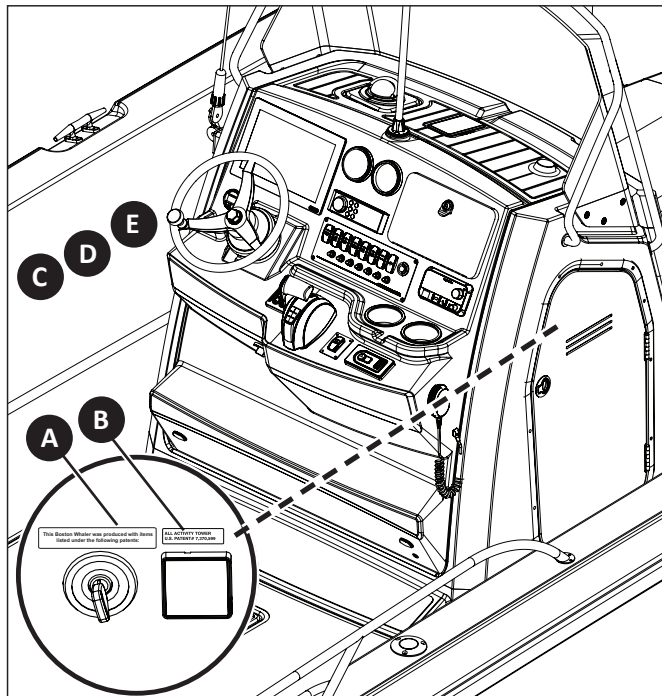
I **AVERTISSEMENT**

NE STOCKEZ PAS D'ESSENCE OU AUTRES LIQUIDES INFLAMMABLES À CET ENDROIT. LA VENTILATION N'A PAS ÉTÉ PRÉVUE POUR LES VAPEURS EXPLOSIVES.

2175076

For Canadian vessels

Label Locations



This Boston Whaler was produced with items listed under the following patents:

A

2088481

B

**ALL ACTIVITY TOWER
U.S. PATENT# 7,370,599**

2063994

C

Vessel's certification plate (see chapter 2, *General Information*).

EMISSIONS CONTROL SYSTEM INFORMATION

MEETS 2022 MY CALIFORNIA EVAP EMISSIONS REGULATIONS FOR SPARK-IGNITION MARINE WATERCRAFT (SIMW)

MANUFACTURER: **BOSTON WHALER, INC.**

CALIFORNIA EVAP FAMILY: **NBNWPVSSLTB1**

EMISSION CONTROL SYSTEM: **SP**

D

2376346

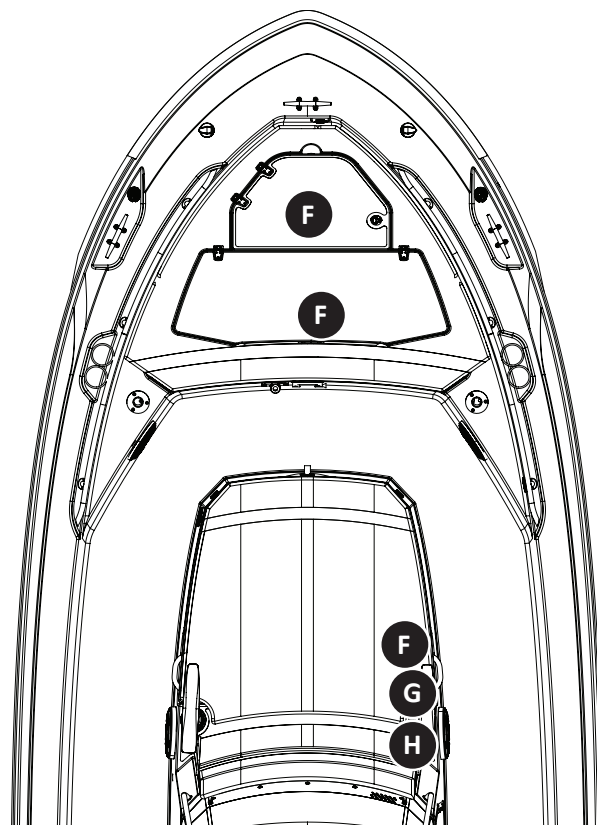
**THIS BOAT HAS BEEN DESIGNED FOR A MAXIMUM
OUTBOARD ENGINE WEIGHT OF**

E

550 lb / 249 kg

1774307

IMPORTANT: Replace any damaged or illegible labels. Contact your dealer to obtain replacements.



F

CAUTION

**AVOID INJURY
BOAT MOVEMENT MAY CAUSE LID TO FALL
KEEP HANDS AND FEET CLEAR OF EDGES WHEN
HATCH IS OPEN**

1836858

G

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.**

1691003

For Canadian vessels

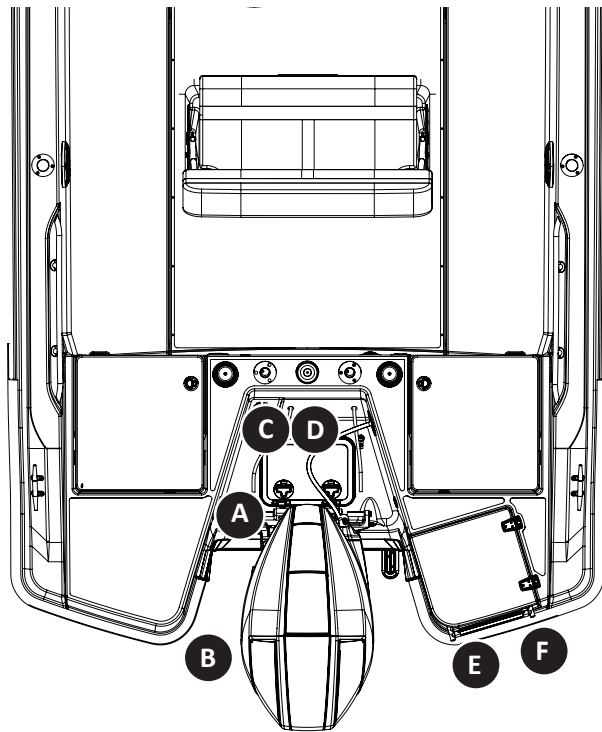
H

AVERTISSEMENT

**NE STOCKEZ PAS D'ESSENCE OU
AUTRES LIQUIDES INFLAMMABLES À
CET ENDROIT. LA VENTILATION N'A
PAS ÉTÉ PRÉVUE POUR LES
VAPEURS EXPLOSIVES.**


2175076

Label Locations



IMPORTANT: Replace any damaged or illegible labels. Contact your dealer to obtain replacements.

C **⚠ 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).

2096004

For Canadian vessels

D **⚠ AVERTISSEMENT**

LES FUITES DE CARBURANTS PRÉSENTENT UN DANGER D'INCENDIE OU D'EXPLOSION. INSPECTER RÉGULIÈREMENT LE SYSTÈME. VÉRIFIER LES RÉSERVOIRS DE CARBURANTS POUR DÉCELER DES FUITES OU DE LA CORROSION AU MOINS UNE FOIS L'AN.

2175077



2184707

E **⚠ WARNING**

ROTATING PROPELLER MAY CAUSE SERIOUS INJURY OR DEATH. DO NOT APPROACH OR USE LADDER WHEN ENGINE IS RUNNING.

1903624


For All Activity Tower, tow arch, hardtop, and T-top (not shown)

B **⚠ 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

F **⚠ DANGER**



Carbon monoxide (CO) can cause brain damage or death.

Engine and generator exhaust contains odorless and colorless CO gas.































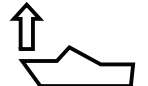



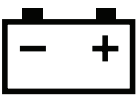



CO will be around the back of the boat when engines or generators are running.

Move to fresh air if you feel nauseous, headache, dizziness or drowsiness.

1811367

Symbols Key

Although not used in this manual, some of these symbols may be found on this vessel's controls, gauges, and hardware.

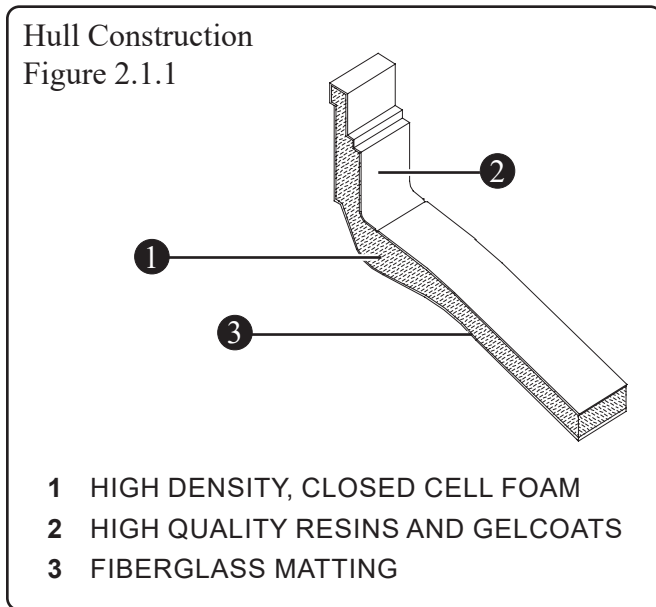
				 WARNING ELECTRICAL HAZARD	 FIRE RISK
 ENGINE EXHAUST CONTROL	 ENGINE	 ENGINE START	 ENGINE STOP	 ENGINE COOLANT WATER JACKET TEMPERATURE	 ENGINE OIL PRESSURE
 FUEL GENERAL	 FUEL LEVEL	 LEADED FUEL	 UNLEADED FUEL	 FUEL FILTER	 ENGINE ROTATIONAL SPEED
 BILGE PUMP	 OUTBOARD DRIVE	 OUTBOARD DRIVE TILT	 PROPELLER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

Construction Standards

Boston Whaler® is dedicated to creating a superior product which provides comfort, performance, safety, and reliability. All boats comply with United States Coast Guard safety standards and are designed, engineered, and manufactured in accordance with applicable recommendations and guidelines from the American Boat and Yacht Council (ABYC) and certified by the National Marine Manufacturers Association (NMMA).

Hull Construction

Boston Whaler hulls are constructed with our patented unbond-construction process (see Figure 2.1.1). 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.

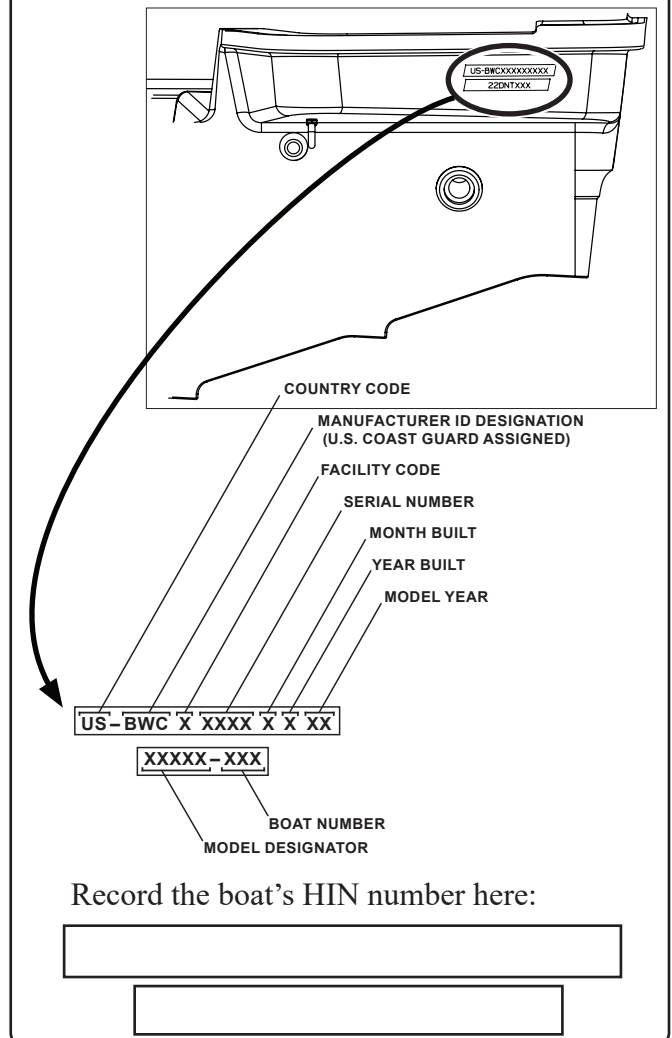


Hull Identification Number

The hull identification number is located on the starboard side of the transom (see Figure 2.1.2). This is the most important identifying factor on this vessel, followed by the engine serial number. Be sure to reference these numbers when contacting Boston Whaler about the vessel or engine.

Hull Identification Number (HIN)

Figure 2.1.2



Servicing

For service or maintenance work, contact an authorized Boston Whaler dealer. To find a dealer call 800-942-5379. 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. Please 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, where applicable. The specifications and dimensions table, listed later in this chapter, indicates the maximum weight, number of persons, and maximum horsepower this vessel is rated to handle. Do not exceed these specifications.

⚠ DANGER

Never carry more weight or passengers than indicated for this vessel, regardless of the weather or water conditions.

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

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

Certification Plates (see Figure 2.2.1)

An **NMMA Certification** means that this Boston Whaler has been verified by the National Marine Manufacturers Association (NMMA) to be in compliance with applicable federal regulations and American Boat and Yacht Council (ABYC) standards.

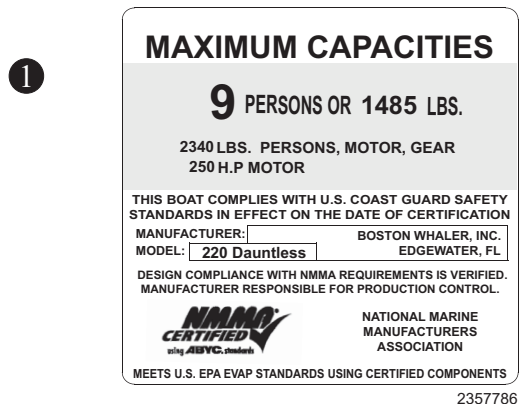
A **Canada Compliance Notice** means that this Boston Whaler has been certified to comply with construction standards for small vessels by Transport Canada.

A **CE mark** means that this Boston Whaler has been certified with the applicable International Organization for Standardization directives.

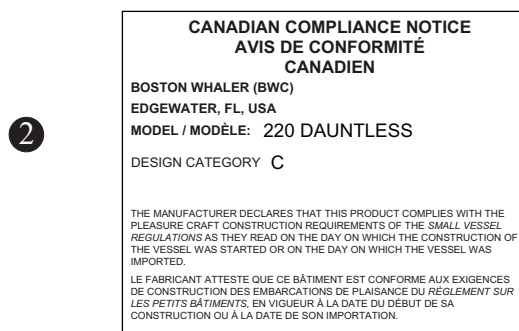
An **Australian Builder's Plate** means that this Boston Whaler has been certified to comply with safety standards set by the National Marine Safety Committee.

Certification Plates

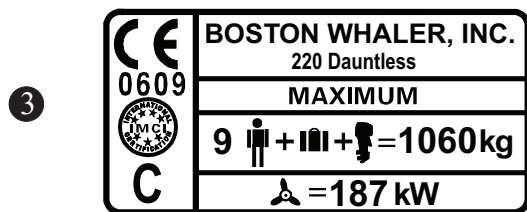
Figure 2.2.1



2357786



2357795



2357785



2357780

- 1 NMMA PLATE
- 2 CANADA CONFORMITY PLATE
- 3 CE MARK (INT'L) BUILDER'S PLATE
- 4 AUSTRALIAN BUILDER'S PLATE

Certification Design Category

NOTICE

The 220 Dauntless is design category C

Boats are classified into four categories depending on their propensity to withstand both the force of the wind and height of the waves. The categories (A, B, C, D) are designed to sensitize the boat operator to navigate safely. The Beaufort Scale is used to classify the force of the wind ranging from 0 (calm) to 12 (hurricane). Devised by Francis Beaufort of the British Navy, the scale offers a uniform description of the effect of different winds at sea.

A: A recreational craft given design category A is considered to be designed for winds that may exceed wind force 8 (on 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 meters.

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

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 meters, with occasional waves of 0.5 meters.

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.

Power Capacity

The *Specifications and Dimensions* information on the following page includes the maximum rated power listed for this vessel. Do not exceed this rating. The various engine types offered today are more powerful and require constant maintenance to stay

at optimal performance. The operator must read all information regarding the safety features, warning notices and maintenance schedules for safe operation of the engine.

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

If you are re-powering this Boston Whaler, you should pay particular attention to the maximum/minimum horsepower and maximum safe engine weight load this vessel is rated for. There is a maximum engine weight label located starboard of the helm seat.

NOTICE

The 220 Dauntless is designed for a maximum outboard engine weight of 550 lbs (249 kg).

WARNING

- Do not exceed maximum engine power rating stated on certification plate.
- Use caution while accelerating. Make sure passengers are safely seated in designated areas of boat and all gear is stowed securely.

NOTICE

Always adjust vessel speed and direction according to sea conditions.

Chapter 2 • General Information

Specifications (measurements are approximate and subject to variance)

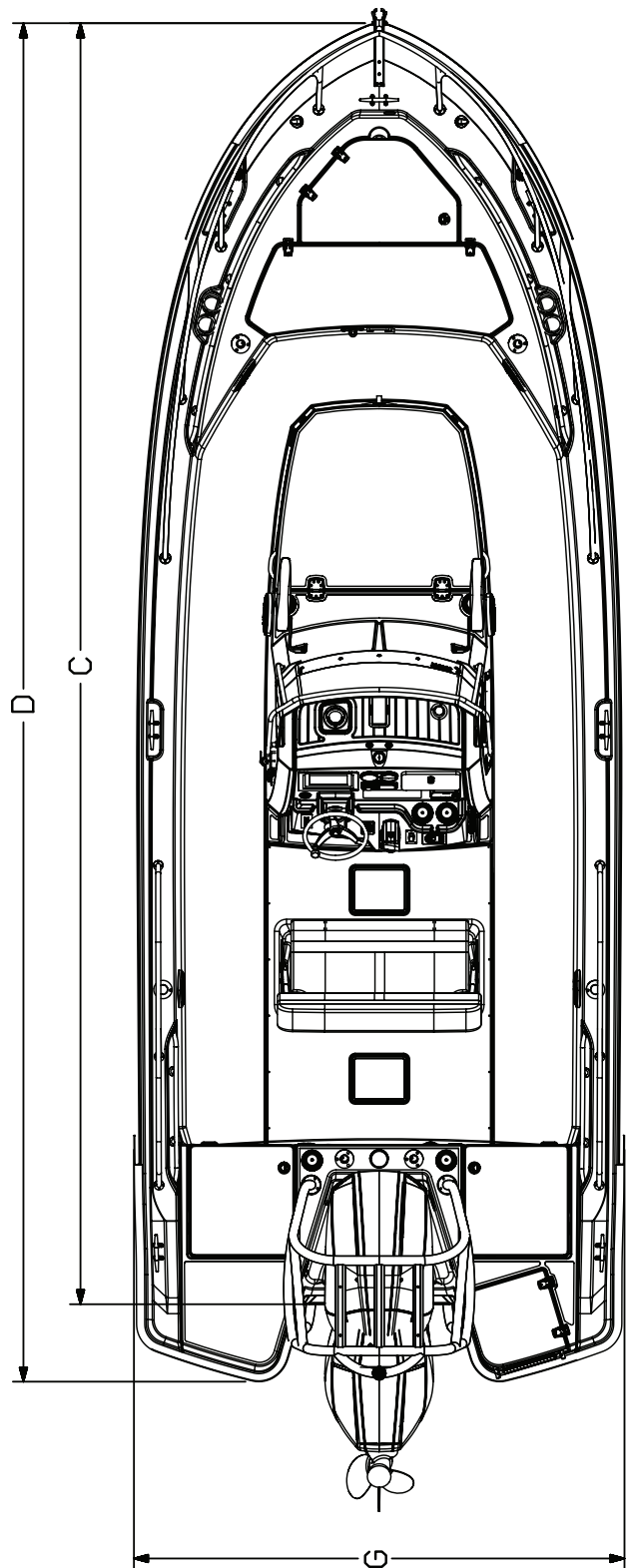
Dimensions and Clearances

Figure 2.4.1

A	Overall length (engine up)	25' 6" (7.77 m)
B	Overall length (engine down)	24' 7" (7.49 m)
C	Hull length (bow to transom)	22' (6.70 m)
D	Hull length (bow to swim platform)	23' 4" (7.11 m)
E	Overall height	8' 8" (2.64 m)
F	Bow to anchor roller	3" (.076 m)
G	Beam	8' 6" (2.59 m)
H	Draft (engine down) ¹	2' 9" (.84 m)
J	Draft (engine up) ¹	1' 4" (.40 m)
M	Freeboard (midship)	2' 10" (.89 m)
N	Bridge clearance	5' 11" (1.8 m)
P	Bridge clearance (T-top)	7' 10" (2.39 m)
R	Bridge clearance (T-top light up)	8' 7" (2.61 m)
T	Bridge clearance (Hardtop)	7' 10" (2.39 m)
U	Bridge clearance (Hardtop light up)	9' 3" (2.82 m)
	Swamped capacity	4125 lbs (1871 kg)
	Maximum engine weight	550 lbs (249 kg)
	Max weight (passengers, engines, gear ²)	2340 lbs (1060 kg)
	Maximum persons' capacity	9
	Maximum horsepower	250 HP (187 kW)
	Minimum horsepower	200 HP (149 kW)
	Fuel capacity	80 gal (303 L)
	Weight (fuel, water, engine)	4135 lbs (1875 kg)

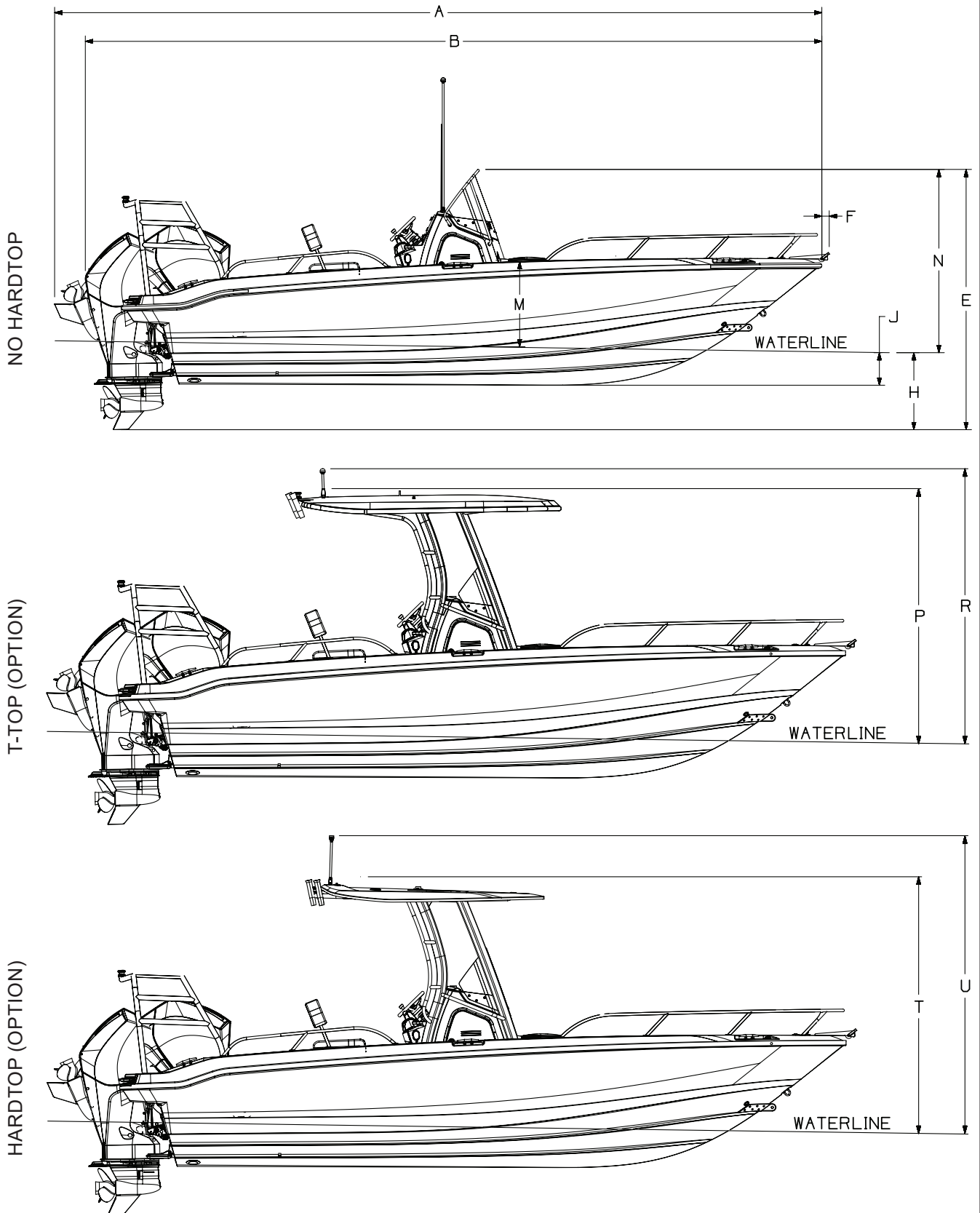
¹ Optional equipment and loading of the boat affects draft measurements. Follow the recommendations listed on the capacity plate regarding the maximum amount of weight this vessel can safely carry.

² Exceeding maximum weight affects boat performance. Do not exceed the weight listed on the capacity plate.



Dimensions and Clearances (Continued)

Figure 2.5.1

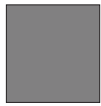


Occupancy

Deck

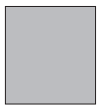
Figure 2.6.1

Working Deck



This area is intended for occupation only while mooring, anchoring, loading/unloading or when the boat is at rest.

Accommodation Deck



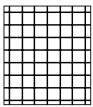
Movement in this area should be done with extreme caution while the boat is underway. A sudden shift in boat direction can cause a loss of balance and lead to injury or death.

Stay Off



Do not stand or walk in this area. Serious injury could result. If necessary, stand or walk only where non-skid is applied.

Custom Working Deck



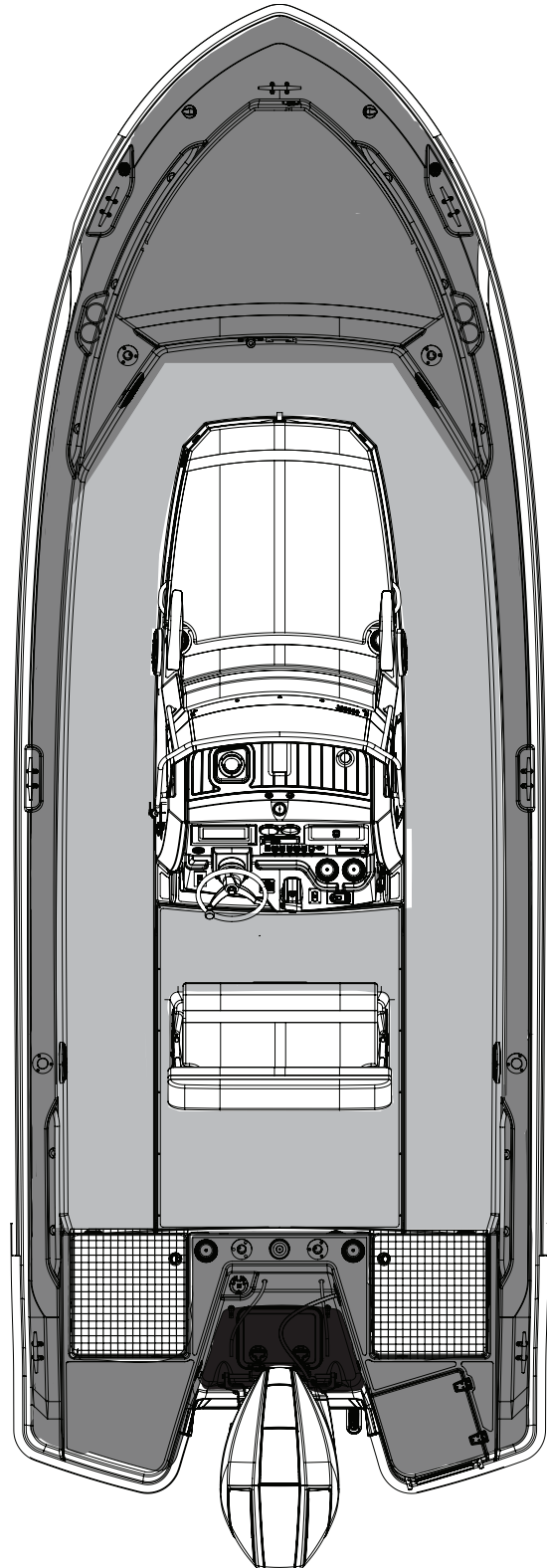
When stern seats are in the stowed position this area is intended for occupation only while mooring, anchoring or when boat is at rest.

⚠ DANGER

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

⚠ WARNING



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

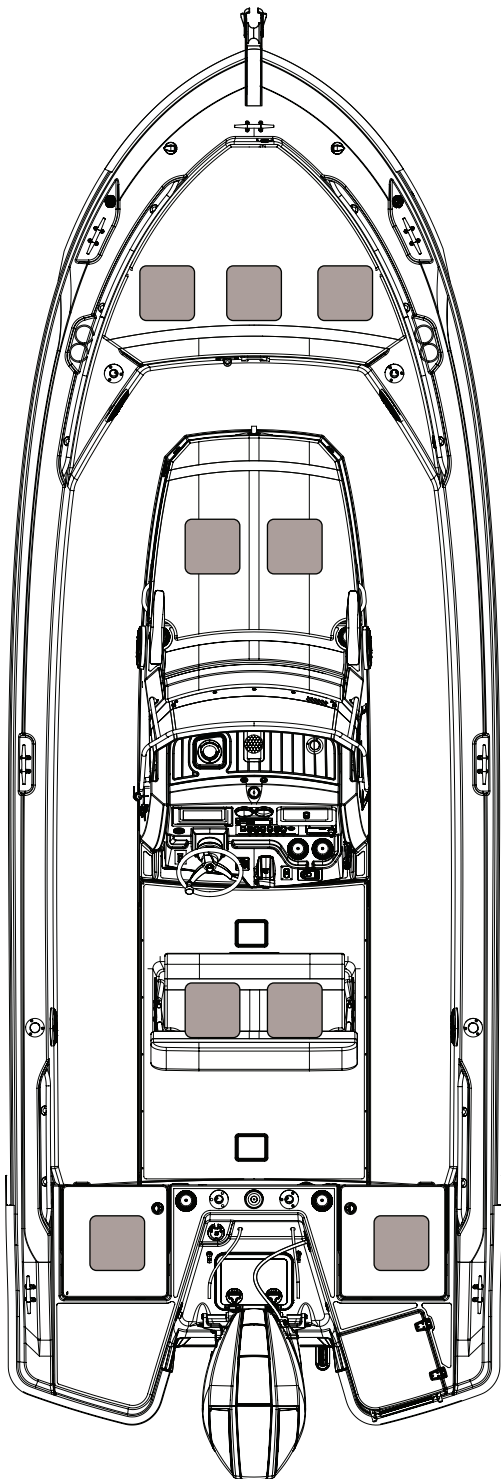


Recommended Occupant Locations

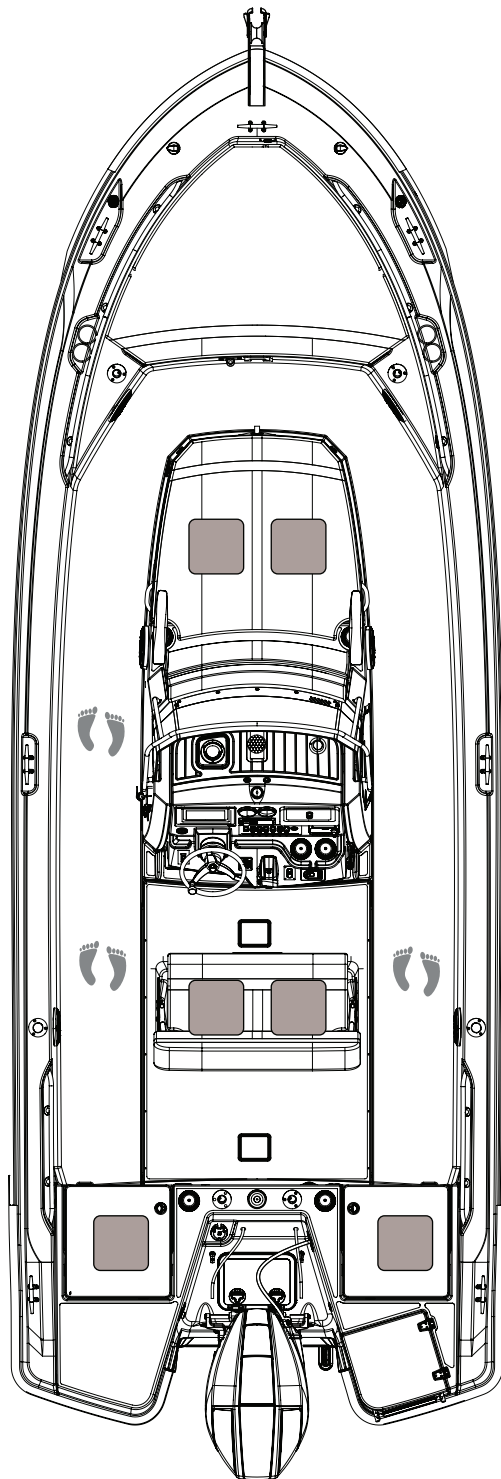
Seating
Figure 2.7.1

⚠ WARNING
Never allow passengers to ride in an area (bow, gunwales, transom, etc.) that poses a hazard to themselves or the boat.

-  = Recommended seating locations
-  = Recommended standing locations



Recommended occupant locations while moored, at idle or under 5 mph

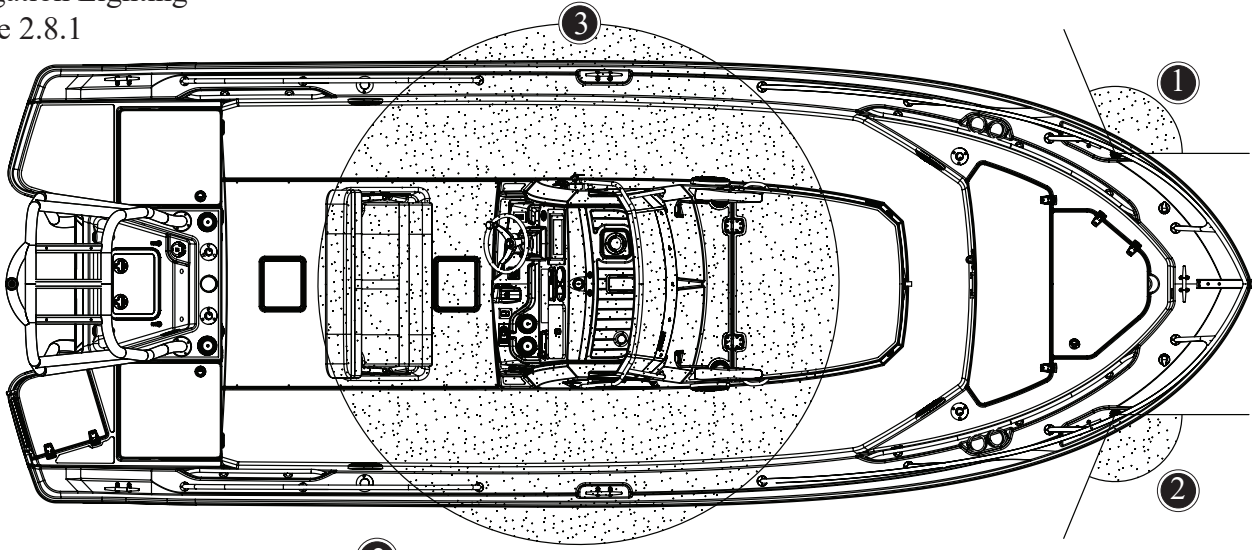


Recommended occupant locations on-plane

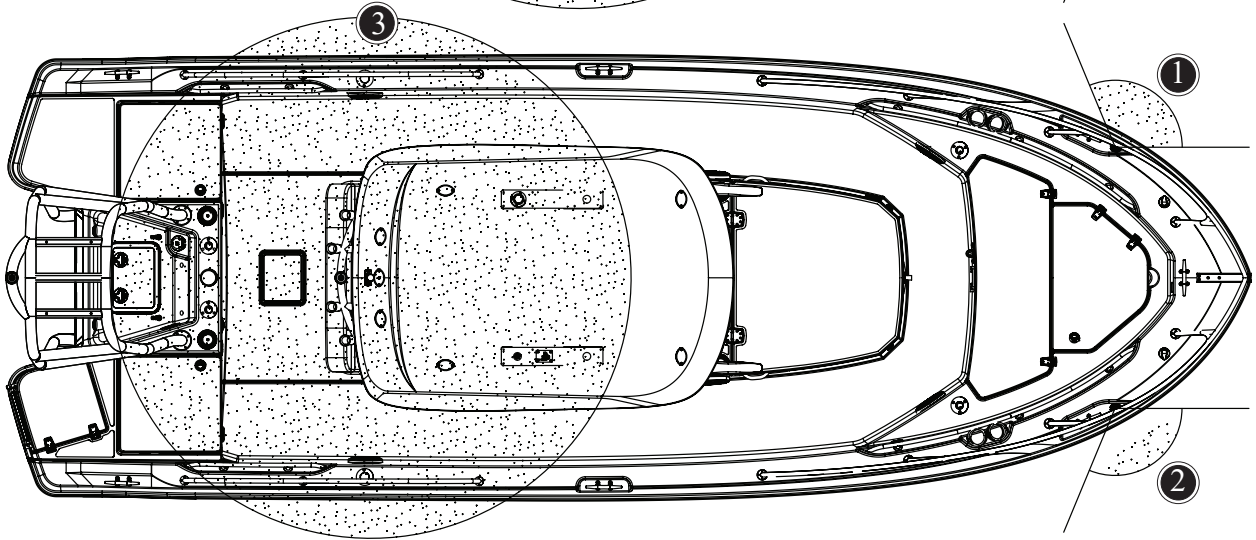
NOTE: Optional hardtop not shown.

Navigation Lighting
Figure 2.8.1

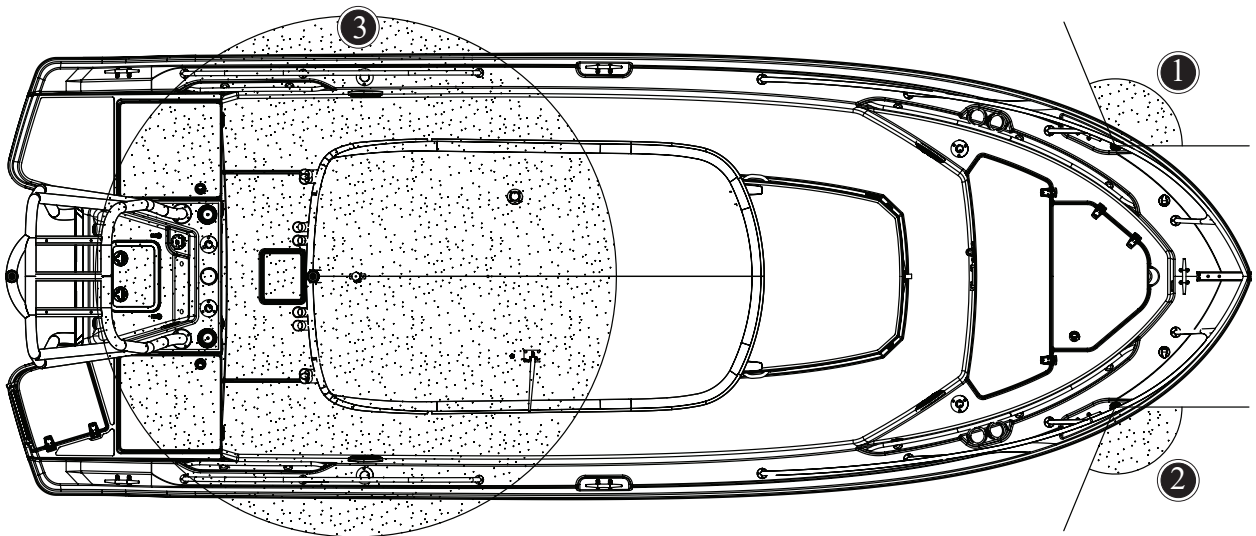
NO HARDTOP



HARDTOP (OPTION)



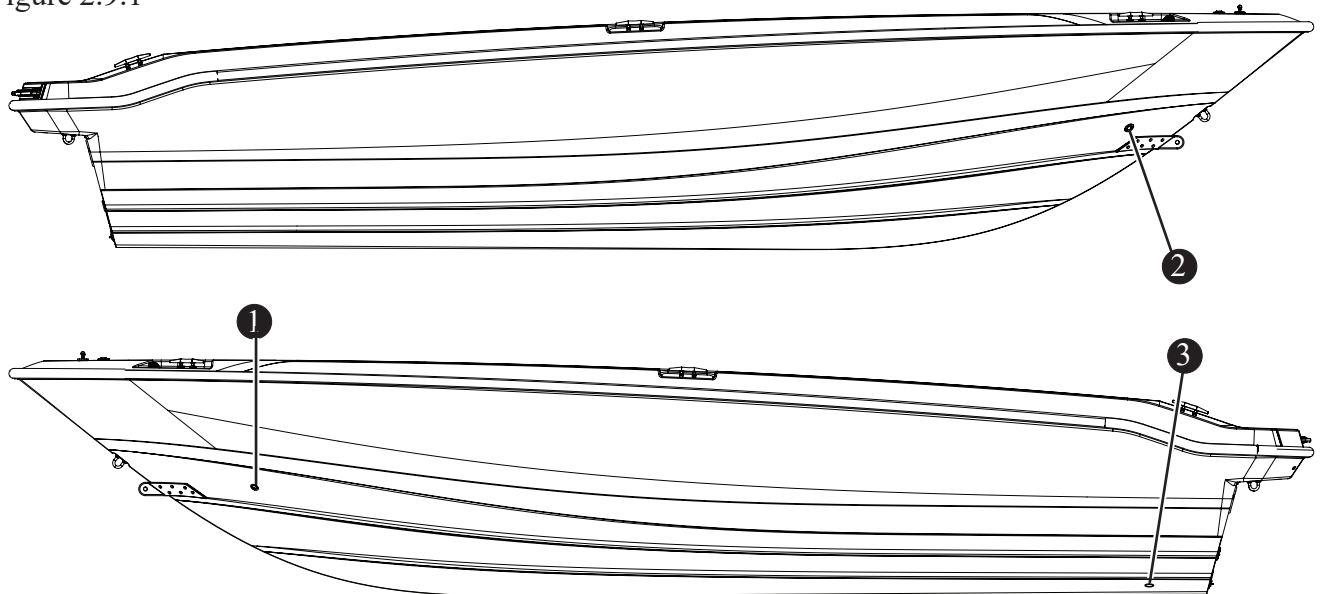
T-TOP (OPTION)



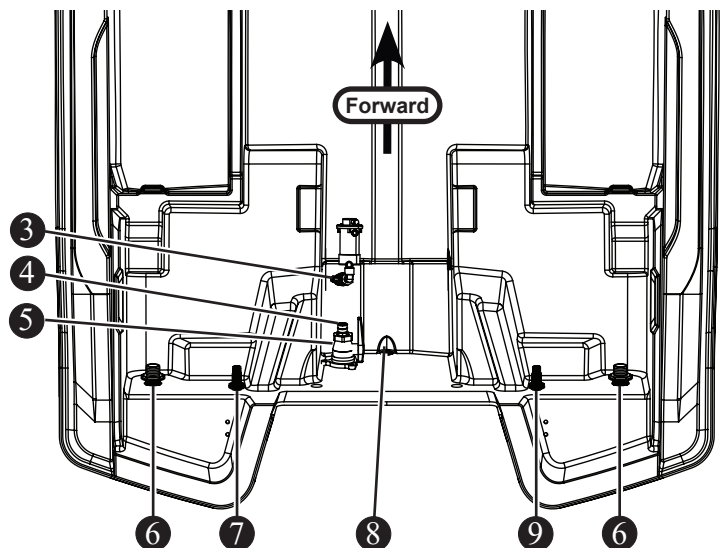
- 1 112.5° PORT NAVIGATION SIDELIGHT (RED) VISIBLE 1 NM
- 2 112.5° STARBOARD NAVIGATION SIDELIGHT (GREEN) VISIBLE 1 NM
- 3 360° ALL-ROUND LIGHT (WHITE) VISIBLE 2 NM

Thru-hull Fittings

Fitting Locations
Figure 2.9.1



- 1 BOW LOCKER DRAIN
- 2 ANCHOR LOCKER DRAIN
- 3 RAW WATER PICKUP
- 4 LIVEWELL DRAIN
- 5 LIVEWELL DRAIN SEACOCK (OPTION)
- 6 DECK DRAIN
- 7 BILGE PUMP DISCHARGE
- 8 GARBOARD DRAIN
- 9 BILGE PUMP DISCHARGE (CE OPTION)



NOTICE

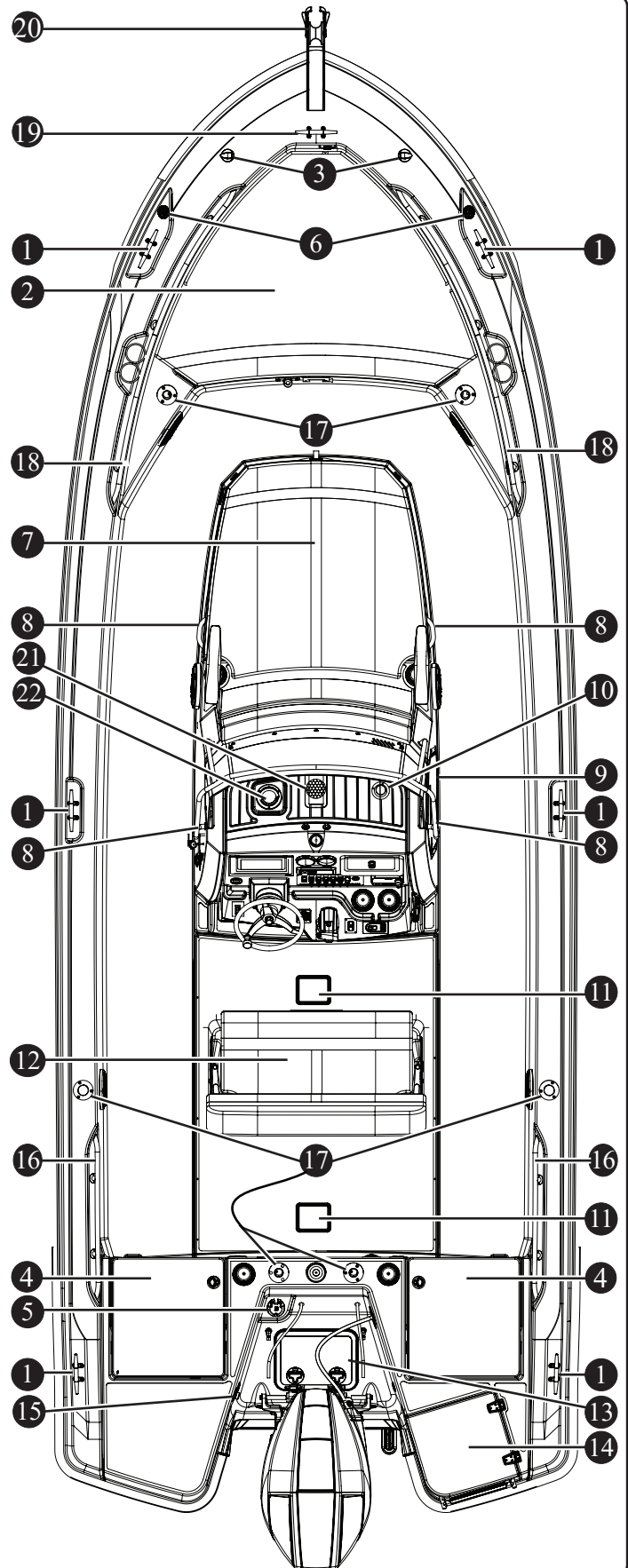
- **The deck drain provides self bailing capabilities while boat is static in the water and no passengers. This feature prevents accumulation of water in the cockpit.**
- **Depending on boat type, underwater fittings may require drain plugs. Garboard and fishbox drain plugs must be in place before boat enters the water. Any submerged fitting must be plugged or seacock needs to be closed.**
- **Check thru-hull fittings and deck drain scupper flaps annually for proper seal. When boat enters the water, check fittings for dripping. Clean, remove, and reseal underwater fittings biannually.**
- **If thru-hull fittings need replacing, visit a Boston Whaler dealer. Thru-hull fittings that are improperly installed can cause premature hull failure and may void the limited warranty.**
- **A standard 1" Snap-tite plug can be used to replace the drain plug(s) in this vessel. Always carry spare plugs to be used in the event that the drain plug(s) become lost or damaged.**

Features

Deck
Figure 2.10.1

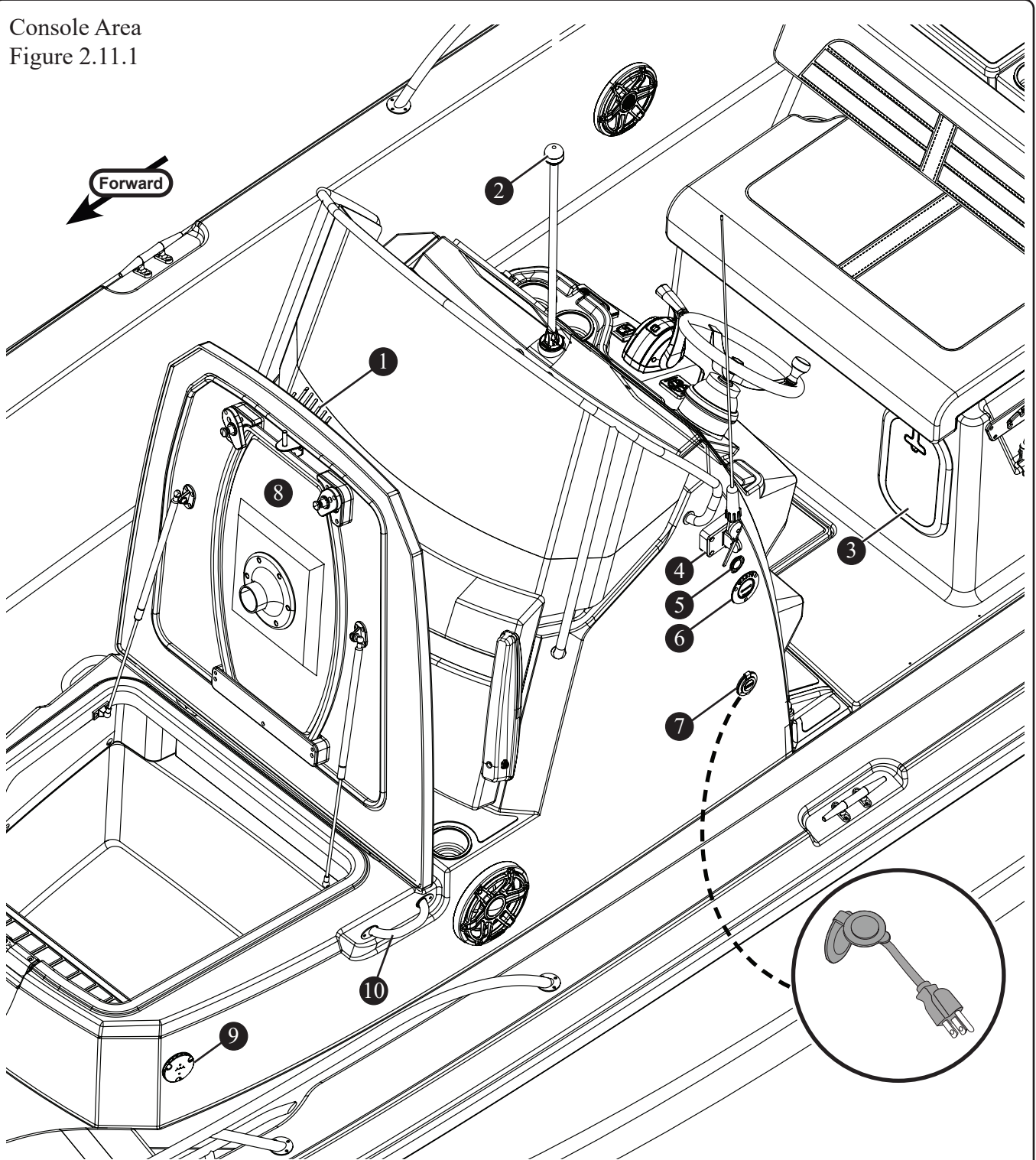
- 1 CLEAT (6)
- 2 BOW LOUNGE
- 3 SHADE POLE HOLDER
- 4 STERN SEAT
- 5 FUEL FILL
- 6 NAVIGATION LIGHT (2)
- 7 CONSOLE LOUNGE
- 8 GRAB RAIL
- 9 HEAD & CONSOLE STORAGE
- 10 SATELLITE ANTENNA (OPTION)
- 11 FUEL TANK INSPECTION ACCESS
- 12 LIVEWELL (OPTION)
- 13 MOTORWELL ACCESS HATCH
- 14 REBOARDING LADDER
- 15 RAW WATER WASHDOWN (OPTION)
- 16 INTERIOR GRAB RAIL (OPTION)
- 17 ROD HOLDER (6)
- 18 INTERIOR GRAB RAIL
- 19 ANCHOR ROLLER CLEAT (OPTION)
- 20 ANCHOR ROLLER (OPTION)
- 21 PHONE CHARGER
- 22 COMPASS

NOTE: Optional bow and stern rails not shown.



Features

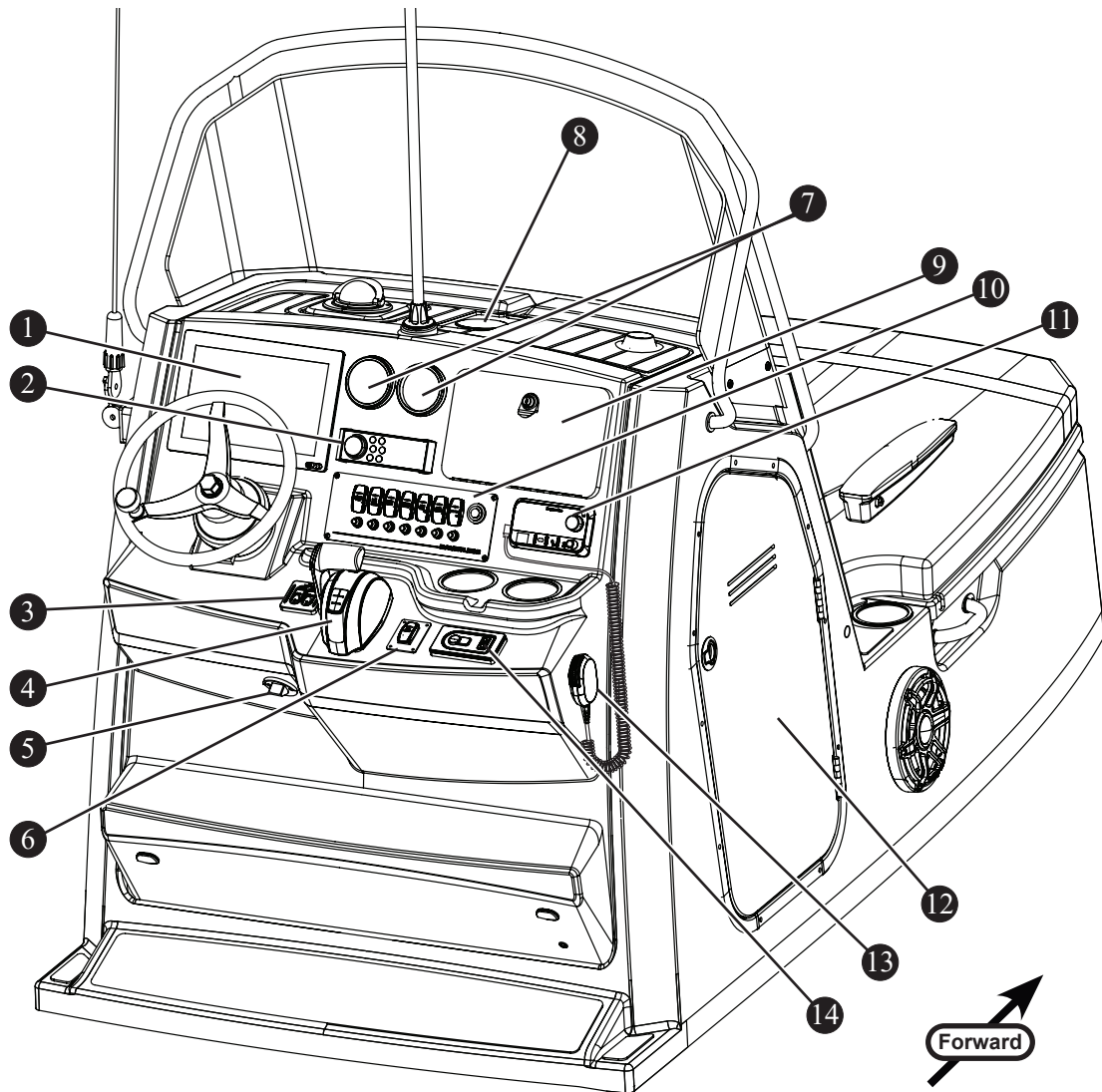
Console Area
Figure 2.11.1



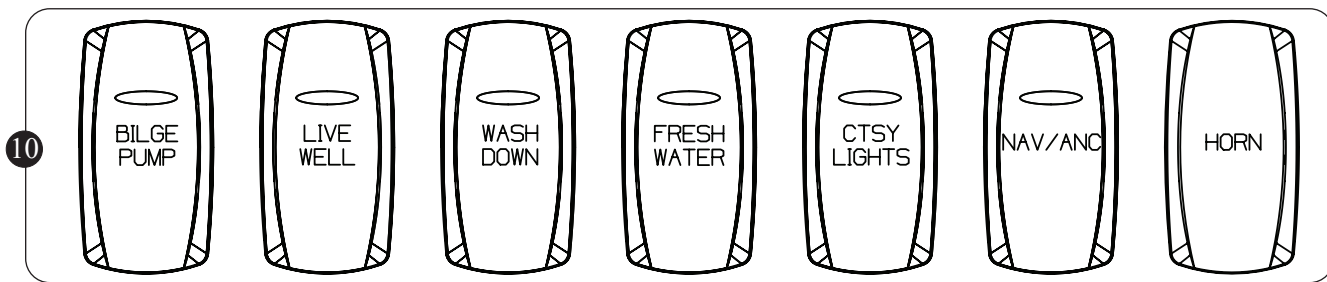
- | | |
|----------------------------|---------------------------------|
| 1 HORN | 6 WASTE PUMPOUT (OPTION) |
| 2 ALL-ROUND (ANCHOR) LIGHT | 7 BATTERY CHARGER CORD (OPTION) |
| 3 LIVEWELL ACCESS PLATE | 8 COCKPIT TABLE (OPTION) |
| 4 VHF ANTENNA (OPTION) | 9 FRESHWATER FILL (OPTION) |
| 5 WASTE VENT (OPTION) | 10 GRAB RAIL |

Features

Helm
Figure 2.12.1



- | | |
|---|-------------------------------------|
| 1 HELM DISPLAY (OPTION) | 8 WIRELESS PHONE CHARGER |
| 2 STEREO (OPTION) | 9 LOCKABLE CONSOLE STORAGE (OPTION) |
| 3 TRIM TAB SWITCH (OPTION) | 10 HELM SWITCH PANEL |
| 4 DIGITAL THROTTLE AND SHIFT | 11 VHF RADIO (OPTION) |
| 5 EMERGENCY STOP SWITCH | 12 CONSOLE STORAGE |
| 6 AUXILIARY BILGE PUMP SWITCH (CE OPTION) | 13 VHF RADIO HANDSET (OPTION) |
| 7 SPEEDOMETER (L) TACHOMETER (R) | 14 ACTIVE TRIM (OPTION) |

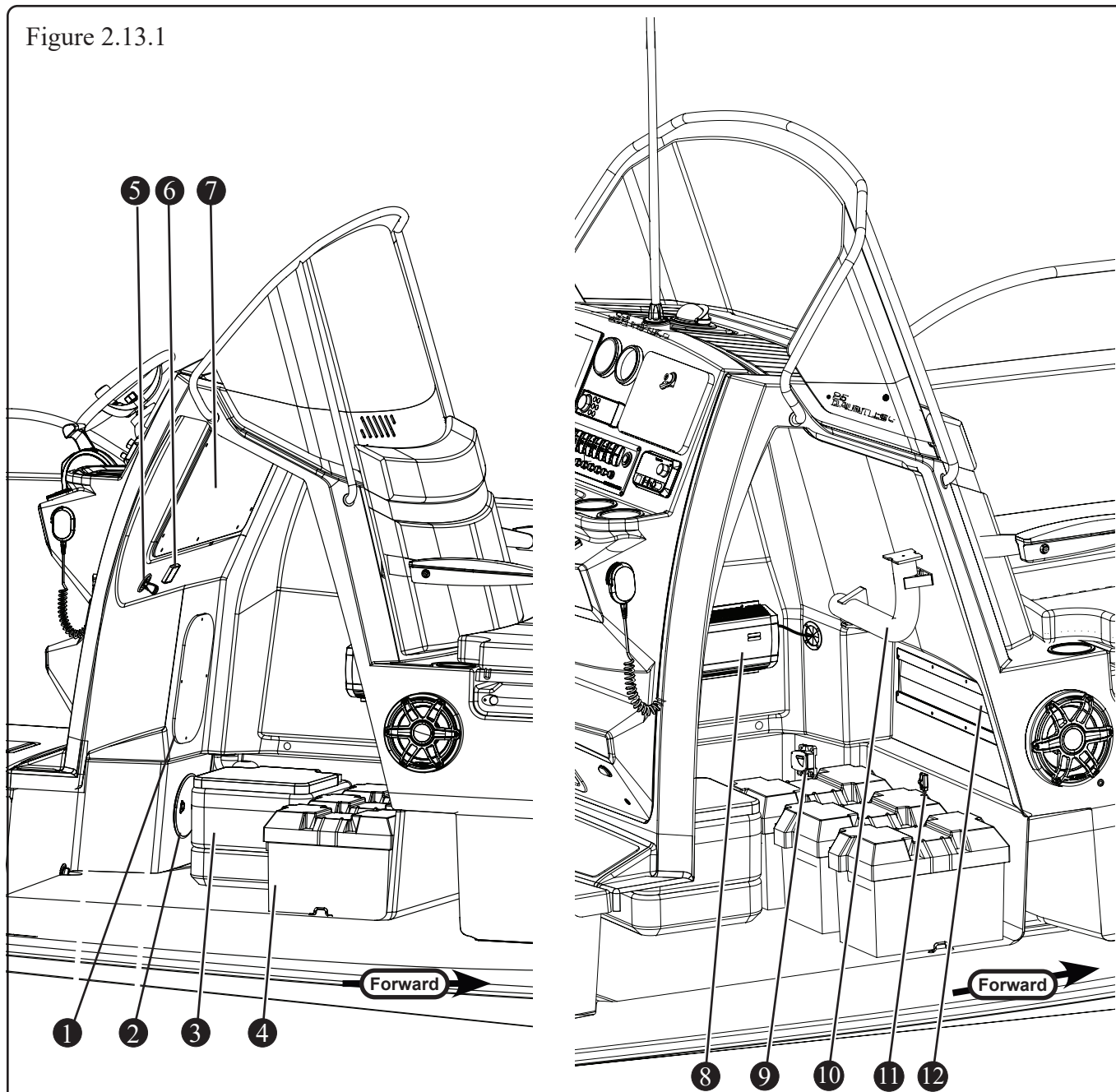


Features

Console Storage

In addition to standard and optional equipment (see Figure 2.13.1), the helm console storage area can be used to store boat fenders or personal flotation devices.

Figure 2.13.1

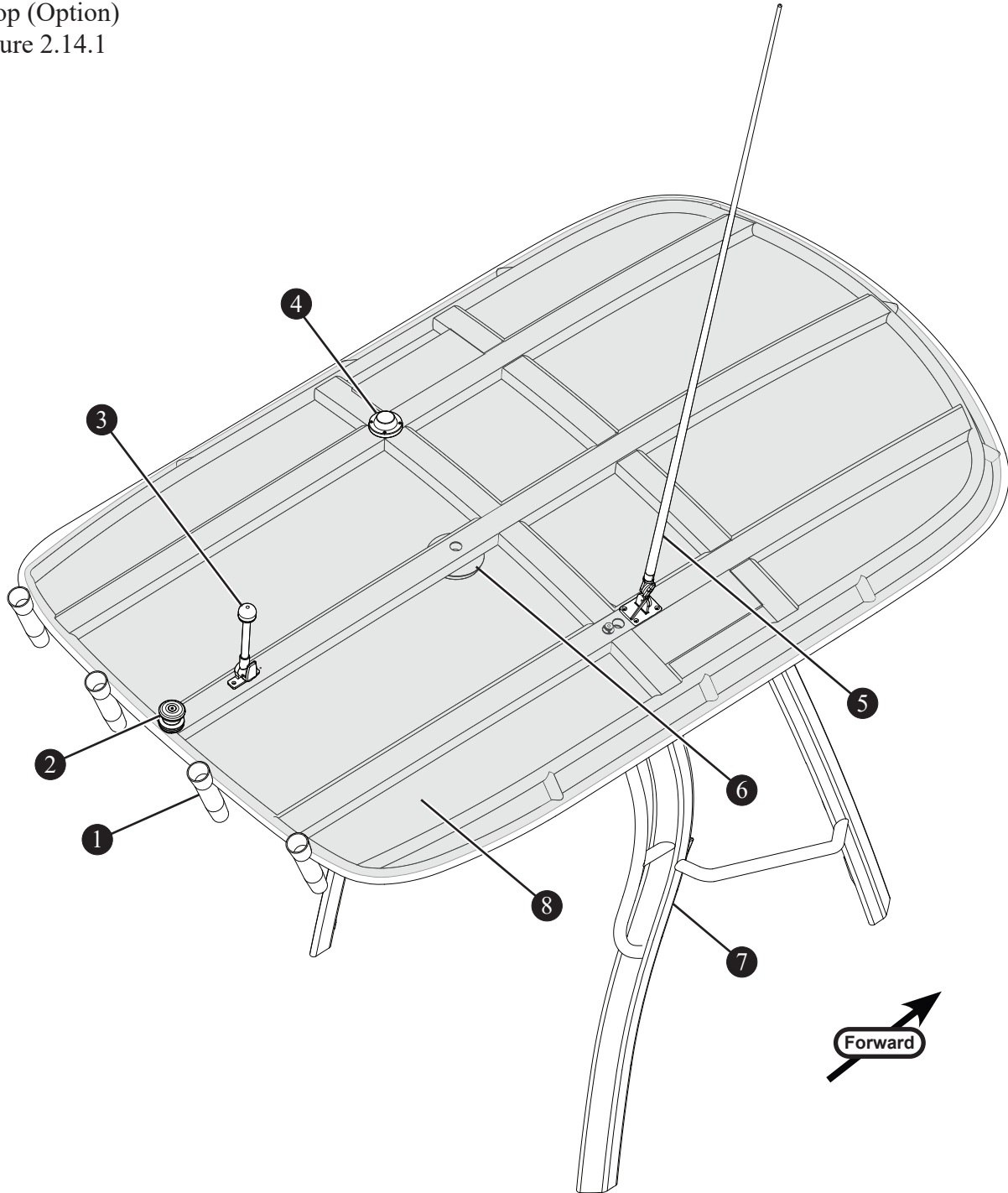


- 1 ACCESS PANEL
- 2 ACCESS PLATE
- 3 PORTABLE HEAD
- 4 TROLLING MOTOR BATTERY (OPTION)
- 5 IGNITION SWITCH
- 6 CARD READER (OPTION)

- 7 FUSE BLOCK ACCESS PANEL
- 8 BATTERY CHARGER (OPTION)
- 9 CIRCUIT BREAKER (TROLLING MOTOR OPTION)
- 10 COCKPIT TABLE POST (OPTION)
- 11 12V OUTLET (TROLLING MOTOR OPTION)
- 12 FISHING ROD HOLDER

Features

T-top (Option)
Figure 2.14.1

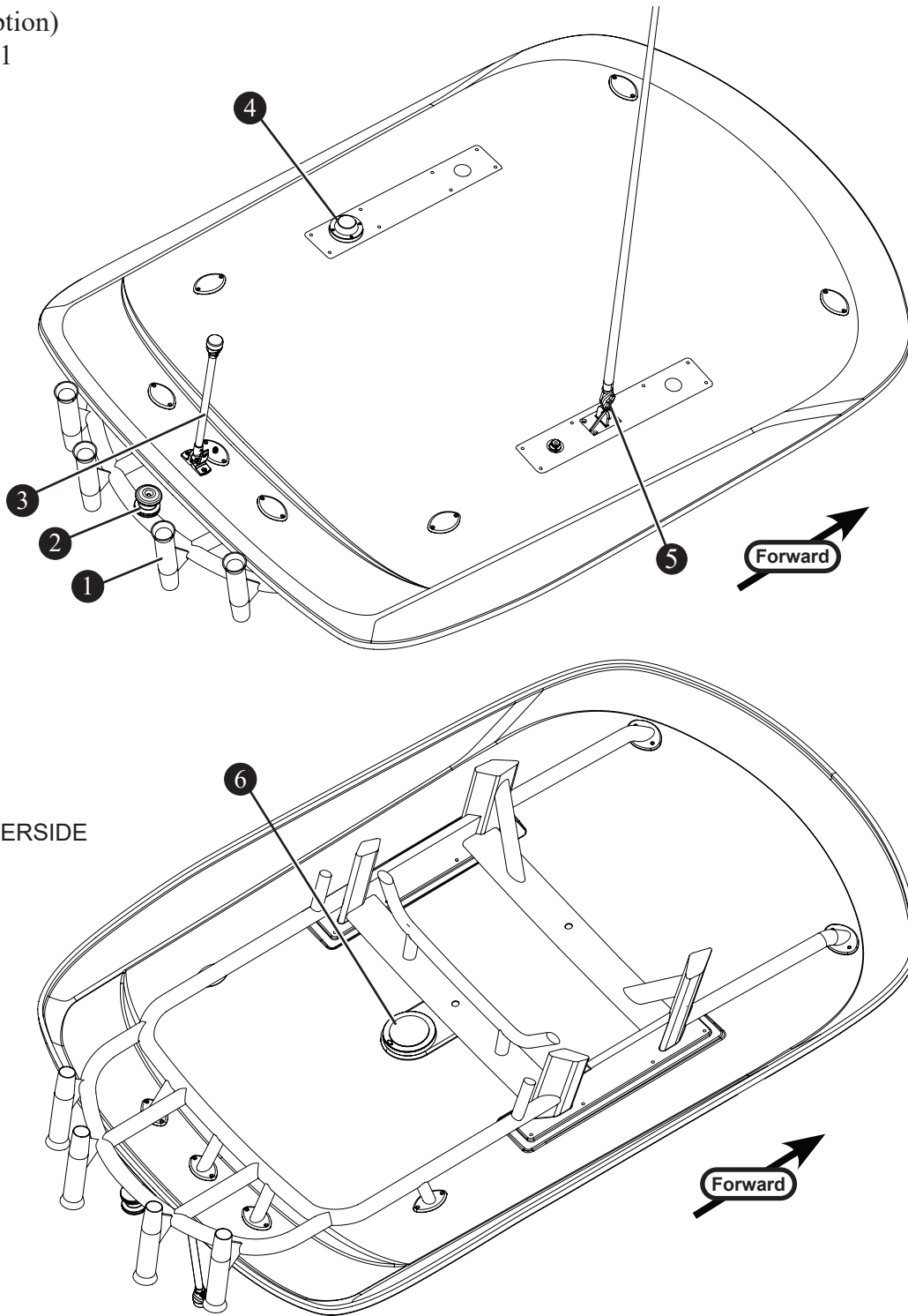


- 1 ROD HOLDER
- 2 SKI TOW PYLON
- 3 ALL-ROUND (ANCHOR) LIGHT
- 4 SATELLITE RADIO (OPTION)

- 5 VHF ANTENNA (OPTION)
- 6 DOME LIGHT (UNDERSIDE)
- 7 T-TOP FRAME
- 8 CANVAS

Features

Hardtop (Option)
Figure 2.15.1



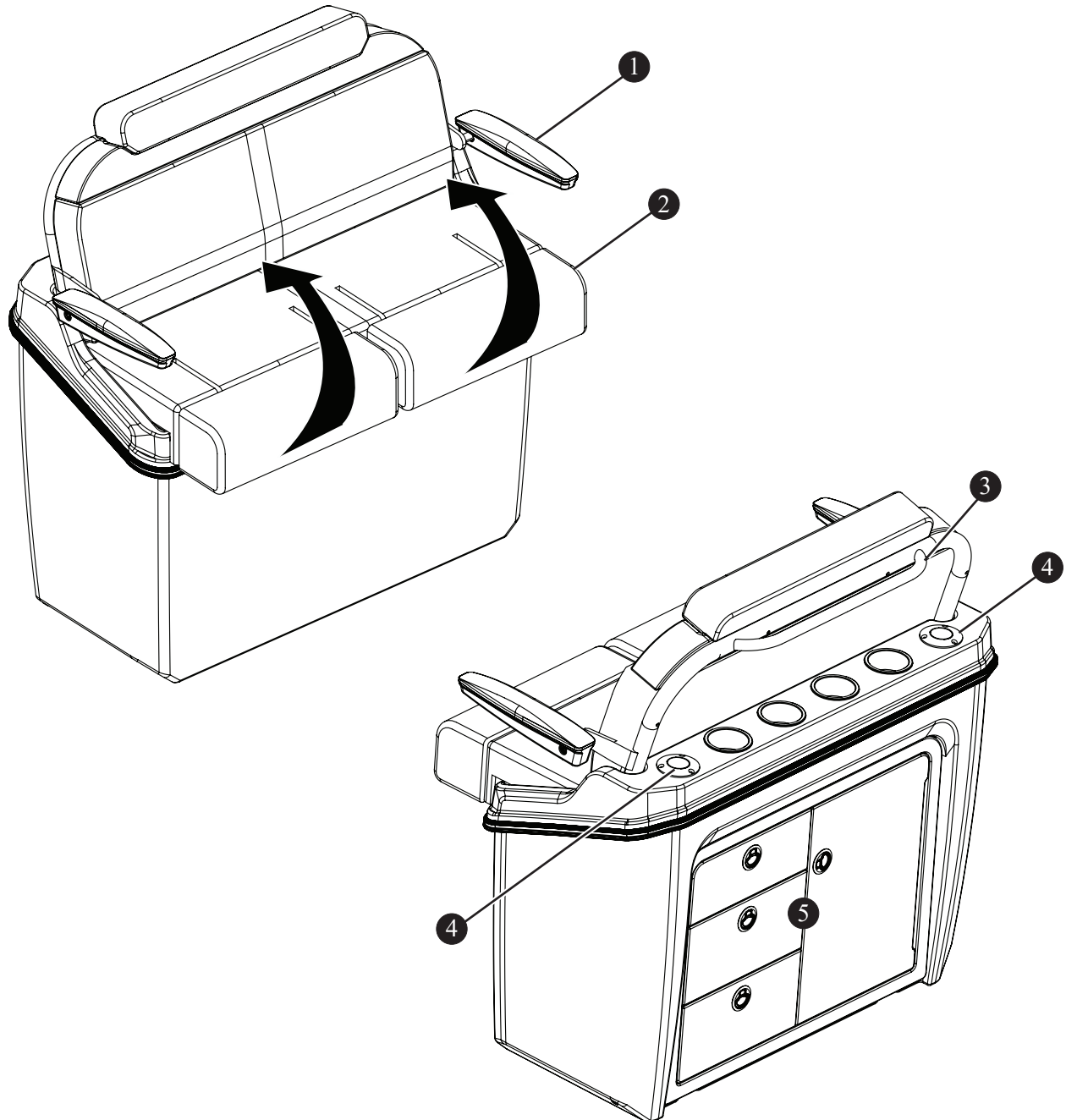
- 1 ROD HOLDER
- 2 SKI TOW PYLON
- 3 ALL-ROUND (ANCHOR) LIGHT

- 4 SATELLITE RADIO (OPTION)
- 5 VHF ANTENNA (OPTION)
- 6 DOME LIGHT

Deluxe Leaning Post (Option)

If equipped, the leaning post allows the operator to stand and navigate the vessel (see Figure 2.16.1).

Figure 2.16.1



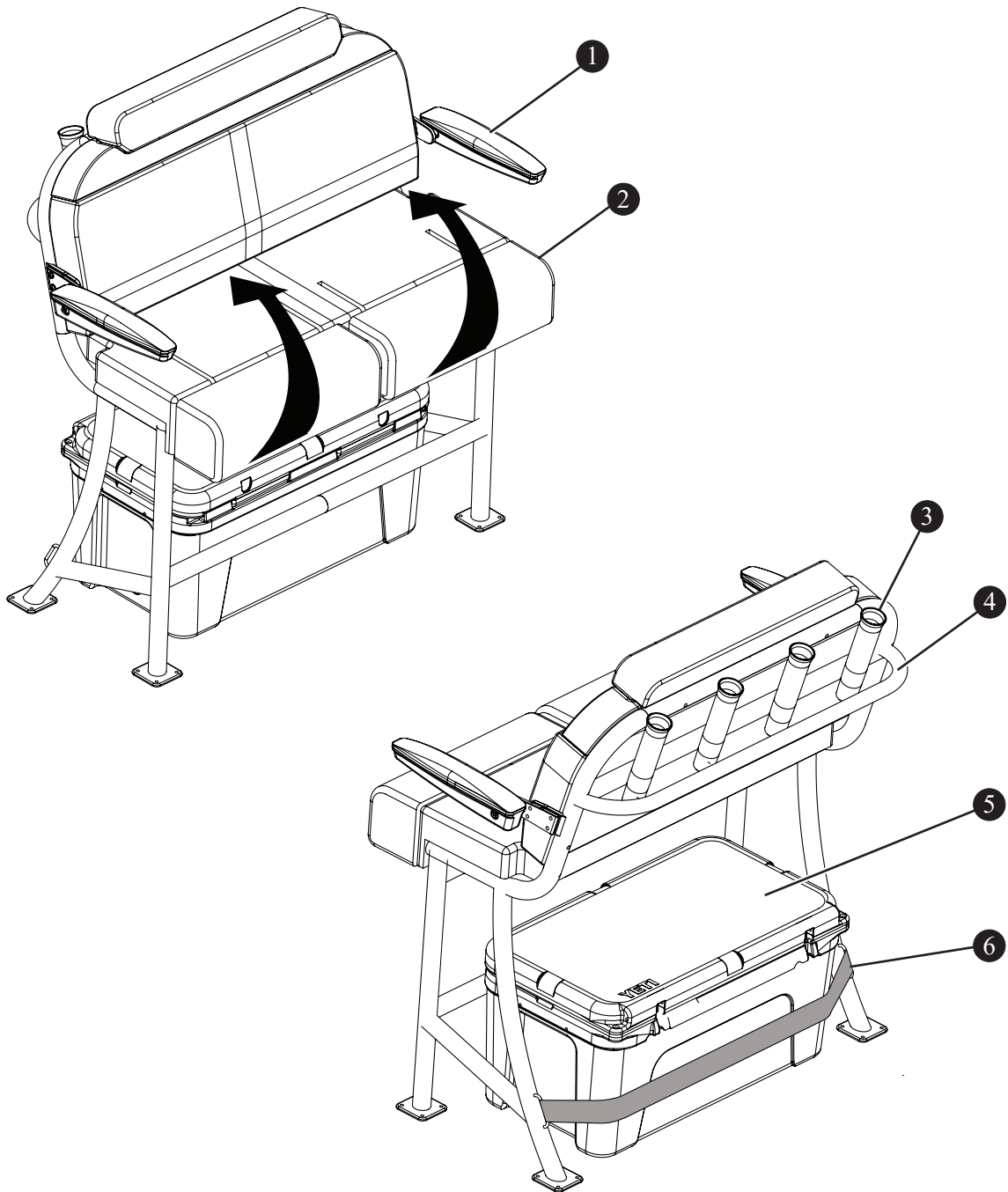
- 1 FOLDING ARMREST
- 2 FOLDING BOLSTER SEAT
- 3 GRAB RAIL

- 4 ROD HOLDER
- 5 STORAGE

Competition Leaning Post (Option)

If equipped, the leaning post allows the operator to stand and navigate the vessel (see Figure 2.17.1).

Figure 2.17.1

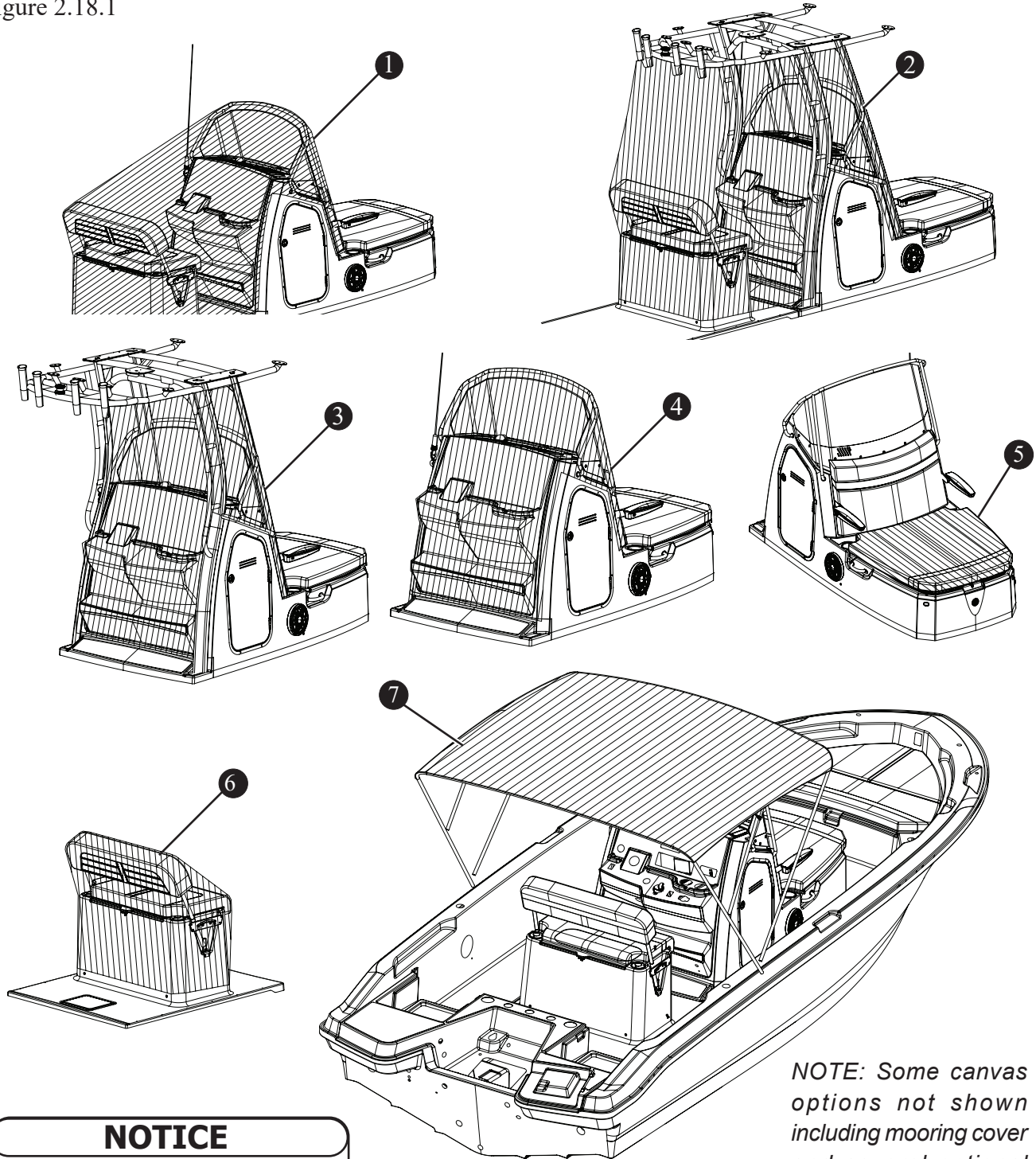


- 1 FOLDING ARMREST
- 2 FOLDING BOLSTER SEAT
- 3 ROD HOLDER

- 4 GRAB RAIL
- 5 75-QUART COOLER
- 6 COOLER STORAGE STRAP

Canvas (Option)

Figure 2.18.1



NOTICE

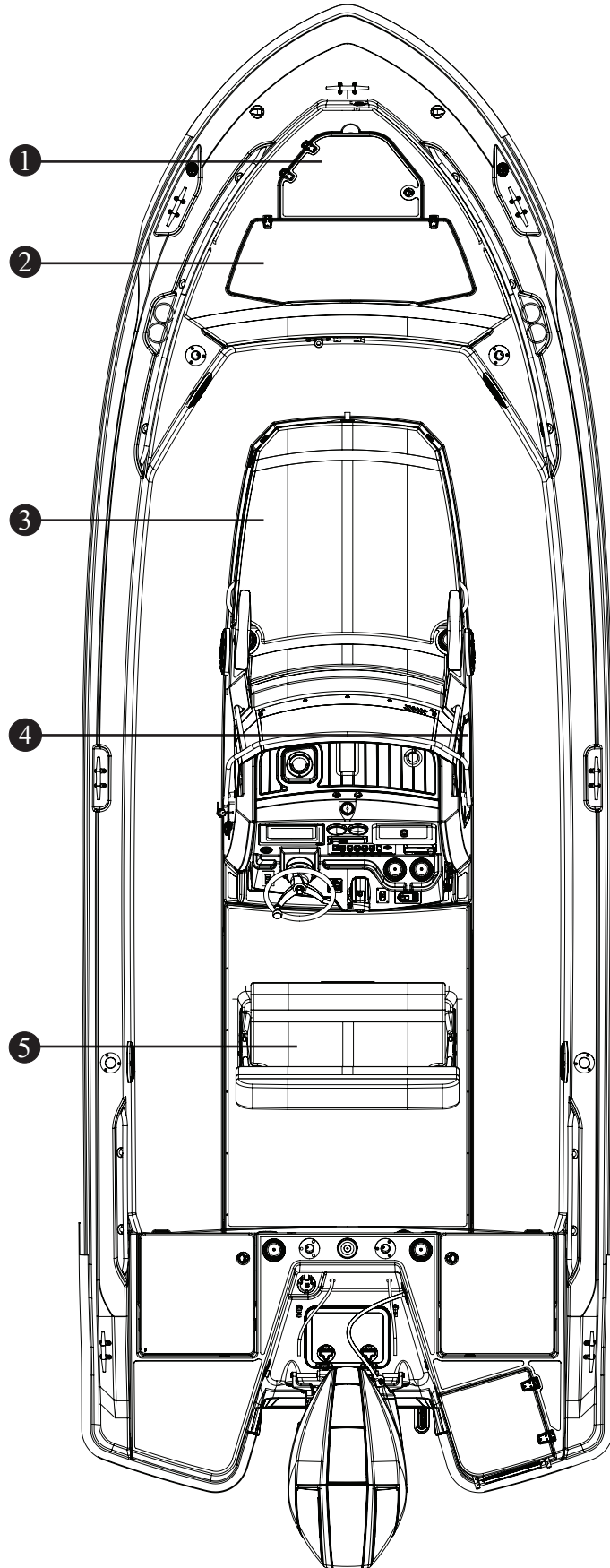
Suntop canvas must be secured in canvas boot before trailering. Never trailer boat with canvas in open position.

NOTE: Some canvas options not shown including mooring cover and several optional seating covers.

- | | |
|--|-----------------------------|
| 1 HELM SEAT AND CONSOLE COVER | 5 CONSOLE LOUNGE SEAT COVER |
| 2 HELM SEAT AND CONSOLE WITH HARDTOP COVER | 6 HELM SEAT COVER |
| 3 CONSOLE WITH HARDTOP COVER | 7 SUNTOP WITH STORAGE BOOT |
| 4 CONSOLE COVER | |

Storage

Figure 2.19.1



- 1 ANCHOR LOCKER
- 2 BOW STORAGE LOCKER
- 3 CONSOLE LOUNGE STORAGE
- 4 CONSOLE STORAGE
- 5 HELM SEAT STORAGE

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Starting the Engine

! CAUTION

Never start or operate engine(s) (even momentarily) without water circulating through all water intake holes in gear case to prevent damage to water pump or engine overheating.

Pre-start Check

1. Ensure lower unit of engine is in the water.
2. Ensure lanyard is installed in engine emergency stop switch (see chapter 1, *Safety* for more information).
3. On helm control, ensure digital throttle and shift lever is in the *N* or neutral position (see Figure 3.3.1).

Ignition Key Switch

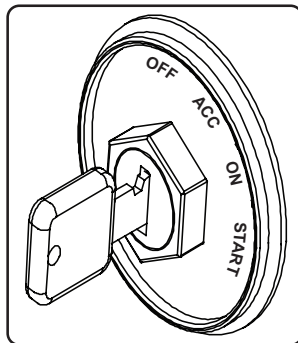
The ignition key switch, located inside the console storage (see Figure 3.1.1), has the following settings:

OFF—No power to engine, instrumentation, etc.

ACC (accessory) — Power to instrumentation

ON — Engine power ready

START — (disabled since start button is at helm)



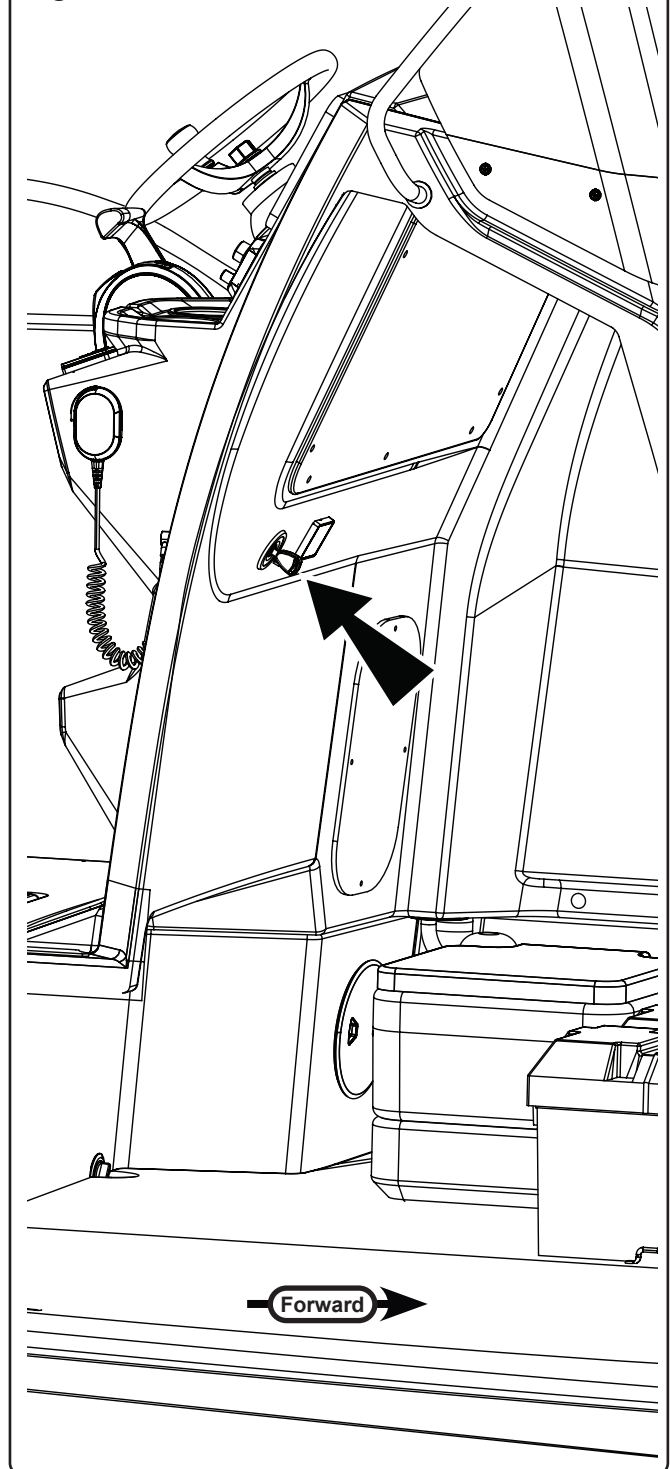
Start-up Procedure

1. Turn ignition key to *ON* position and release key.
2. At helm, press *START/STOP* button on the digital throttle and shift (see Figure 3.3.1). If the engine fails to start the engine stops cranking. Press the *START/STOP* button again until engine starts.

Stopping the Engine

1. Shift the digital throttle and shift into the *N* or neutral position (see Figure 3.3.1).
2. Press the *START/STOP* switch.
3. Before leaving the vessel, turn ignition switch to the *OFF* position.

Console Storage, Ignition Key Switch
Figure 3.1.1



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

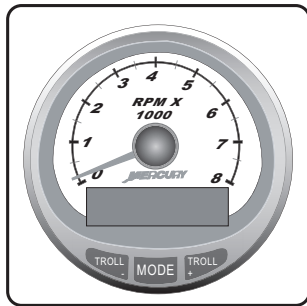
Gauges

The standard gauge set on this vessel includes a Smartcraft™ tachometer and speedometer. 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 includes:

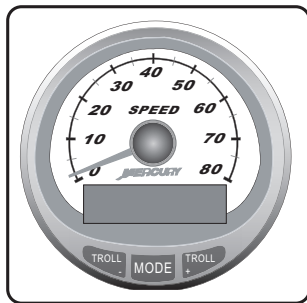
- Engine break-in time
- Water pressure
- Fuel flow
- Temperature
- Engine battery voltage
- Power trim angle-water pressure
- Power trim angle
- Digital tachometer
- Hour meter



Speedometer

Information includes:

- Clock-temperature
- Fuel level
- Oil level
- Traveling range
- Fuel economy
- Trip odometer
- Digital speedometer
- Barometer



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

VesselView® (Option)

If equipped, SmartCraft VesselView allows the operator to receive operational information, displayed clearly and instantly on the helm display. The system continuously monitors and reports information ranging from basic operating data to detailed vessel environment information.

System Calibration

Boston Whaler or the dealer has calibrated the VesselView to the boat's equipment. If equipment is added, system must be recalibrated.

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

VesselView Mobile

VesselView Mobile connects the SmartCraft data network to an Apple or android phone. VesselView Mobile enables the power of SmartCraft to be used on a mobile device with all the digital data the SmartCraft engine supports plus features such as:

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

Digital Throttle and Shift (DTS®)

CAUTION

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

NOTICE

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

This vessel is equipped with a digital throttle and shift control system. This unit controls both the shifting mechanism and throttle control lever (see Figure 3.3.1). The throttle, which regulates engine RPMs, controls the speed of the boat. Moving the shift lever forward engages the forward gear. Continuing to move the lever forward increases forward speed of the boat. To reverse power, bring the shift lever back to engage the reverse gear. Increase the reverse thrust by continuing to pull back on the throttle control. The control must be in the neutral position to start the engine. Neutral is the most central position of the control unit and acts as an idle (you will hear and feel a click when neutral is engaged). While in this position, the propeller is

not rotating. Press the *THROTTLE ONLY* button on the control pad to disengage the shifting mechanism and allow operation of the throttle without engaging the propeller. The button automatically engages the shifting mechanism once the throttle control has been moved back to the center position. Pressing the *DOCK* button (see Figure 3.3.1) initiates docking mode. Docking mode reduces throttle capacity to approximately 50 percent of normal throttle. To turn off docking mode, shift engine into neutral and press the *DOCK* button. The *TRANSFER* button is not used on this vessel.

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



Engine Trim

ATTENTION

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

The engine trim and tilt switches, located on the digital throttle and shift lever (see Figure 3.3.1), are used to raise and lower the engine to achieve optimum performance and also for trailering, launching, and beaching.

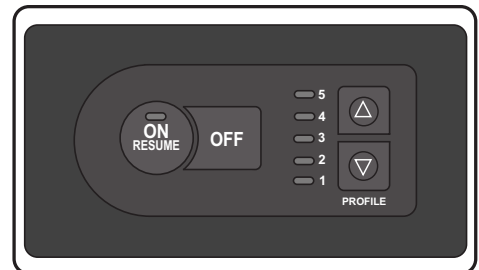
Operation

The engine trim is controlled by a momentary switch, where constant pressure must be applied to the switch during the raising and lowering cycles. Use the power trim switch to obtain ideal boat angle (in relation to the water surface) for a given load and water condition. In most cases the best all-around performance is obtained when the boat runs at an angle between 3 degrees and 5 degrees.

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

Active Trim (Option)

If equipped, the active trim panel is located at the helm. Active trim



trim automatically controls boat trim according to boat speed and engine RPMs, helping avoid potential problems such as engine 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, allowing the operator to compensate for changes in boat load, operator preference, and weather conditions.

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

Trim Tabs (Option)

ATTENTION

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

This vessel is equipped with electrically-powered trim tabs (see Figure 3.4.1) which help provide a smoother, more stable ride. Trim tabs are used to assist in leveling the vessel when there is uneven weight distribution or strong cross winds. Use of trim tabs may also increase operator visibility, particularly during initial acceleration. When the boat is not properly trimmed it reduces fuel economy and increases wear on the engine.

The unit's electrical circuit is protected with a 20A fuse located in the fuse block behind the access panel inside the console (see Figure 3.4.2).

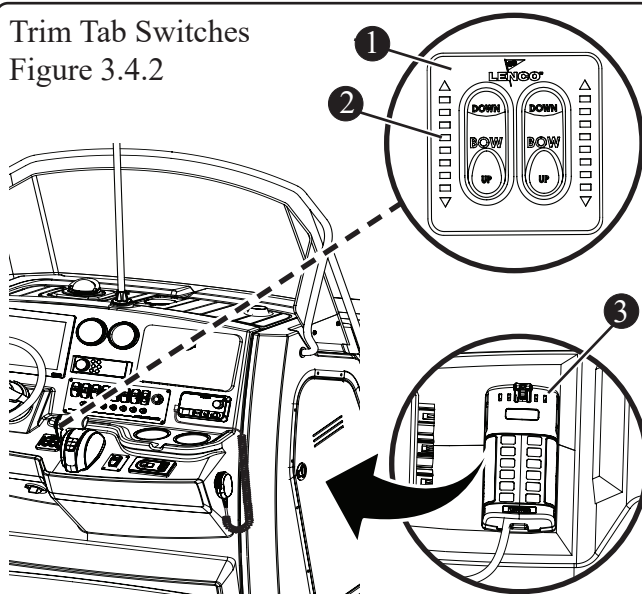
For maintenance information refer to chapter 5, *Care and Maintenance*.

Operation

Control the trim tabs via the trim tab switch panel at the helm (see Figure 3.4.2). Press short momentary bursts on the switches to fine tune hull angle.

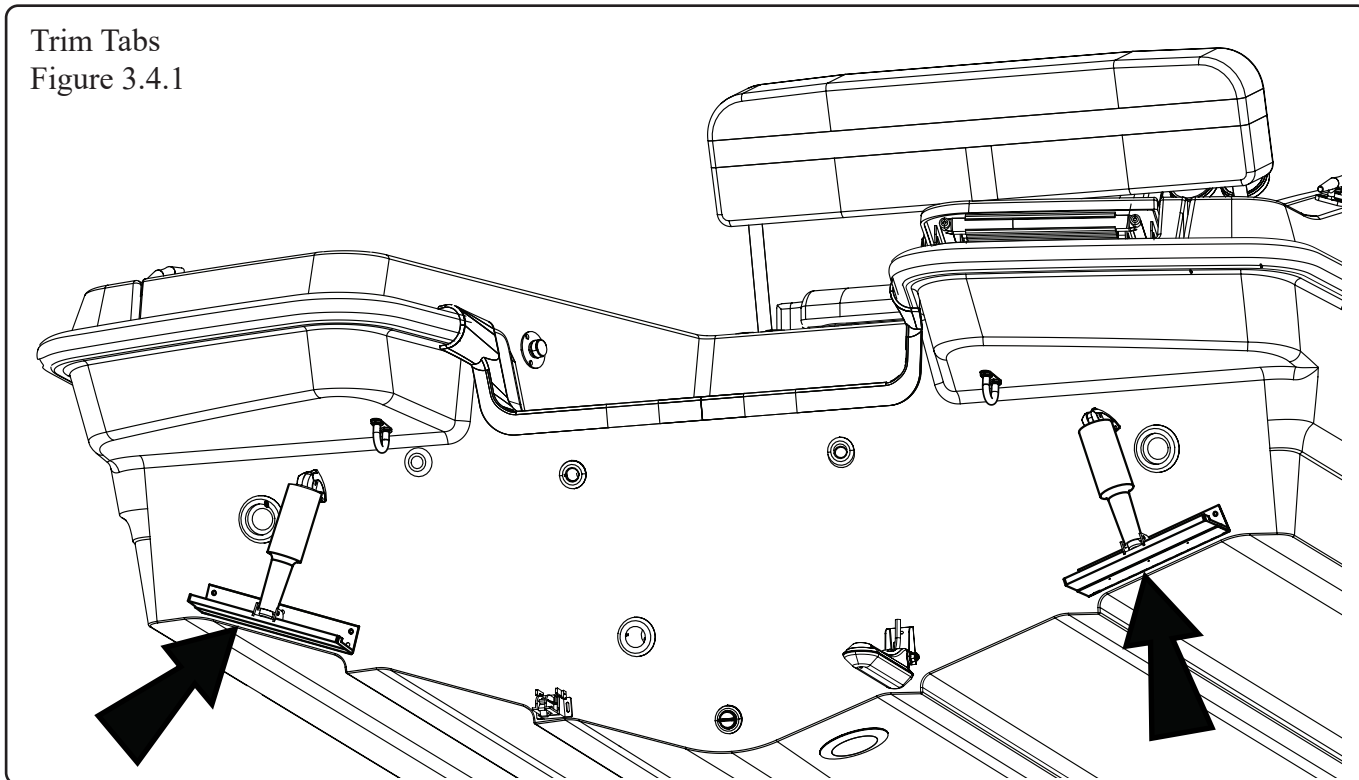
REFER TO OWNER'S PACKET FOR COMPLETE INSTRUCTIONS AND WARRANTY INFORMATION.

Trim Tab Switches
Figure 3.4.2



- 1 TRIM TAB SWITCH PANEL
- 2 LED LEVEL INDICATORS
- 3 FUSE BLOCK (INSIDE CONSOLE)

Trim Tabs
Figure 3.4.1



Bilge Pump

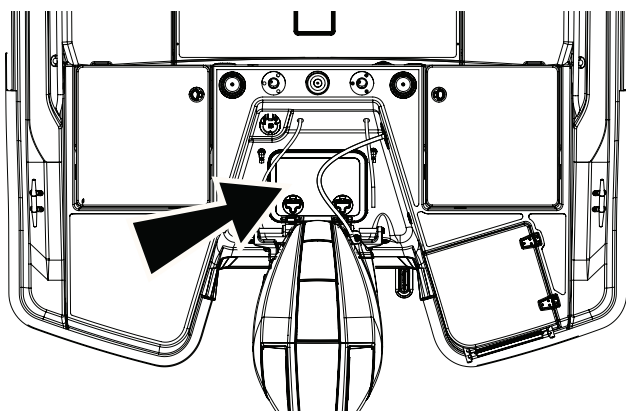
Located in the motorwell access hatch (see Figure 3.5.1), the bilge pump (see Figure 3.5.2) is activated by an internal float switch when water levels reach a predetermined level. The *BILGE PUMP* switch (see Figure 3.5.3) on the helm switch panel controls pump operation. The switch can be operated manually, but should remain in the auto position when not in use.

For maintenance information refer to chapter 5, *Care and Maintenance*.

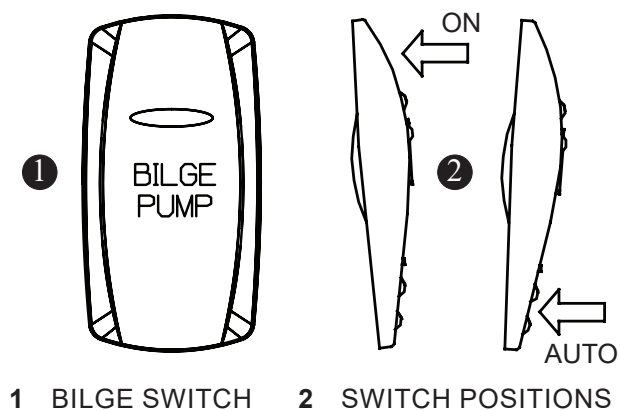
NOTICE

If set to on position, bilge pump operates continuously and discharges battery. Bilge pump is wired directly to battery, so float switch must remain clear of debris to prevent continuous operation and battery discharge.

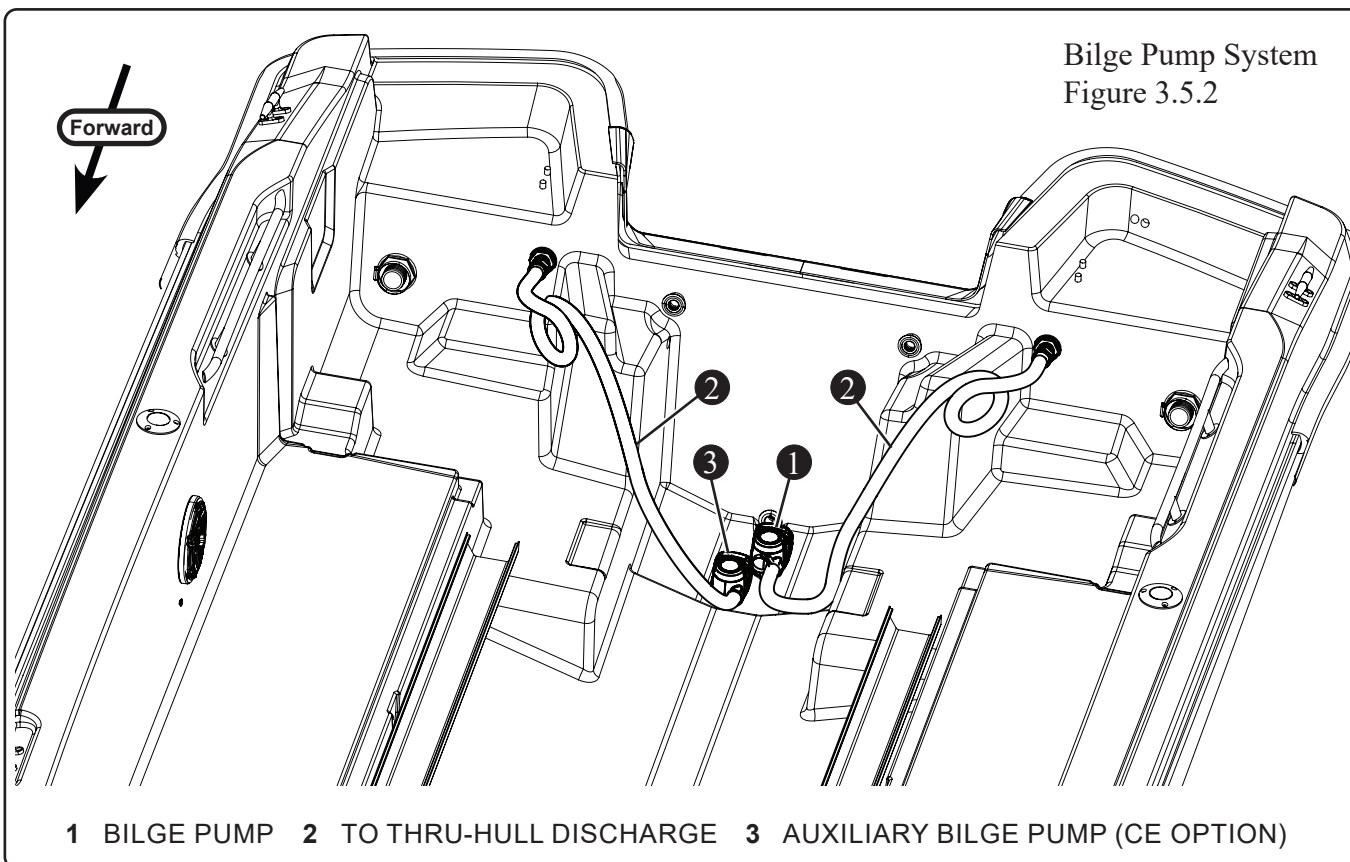
Motorwell Access Hatch
Figure 3.5.1



Bilge Pump Switch
Figure 3.5.3



Bilge Pump System
Figure 3.5.2



Fuel and Oil Spills

Regulations prohibit discharging fuel or oily waste in navigable waters. Discharge is defined as any action which causes a film, sheen or discoloration on the water surface, or causes a sludge or emulsion beneath the water surface. A common violation is bilge discharge. Violators are subject to severe penalties and may also be responsible for the cost of cleanup which could be substantial. Use rags or sponges to soak up fuel or oily waste, then dispose of properly ashore. If a large quantity of fuel or oil is in the bilge, contact a dealer to remove it. Never pump contaminated bilge discharge overboard.

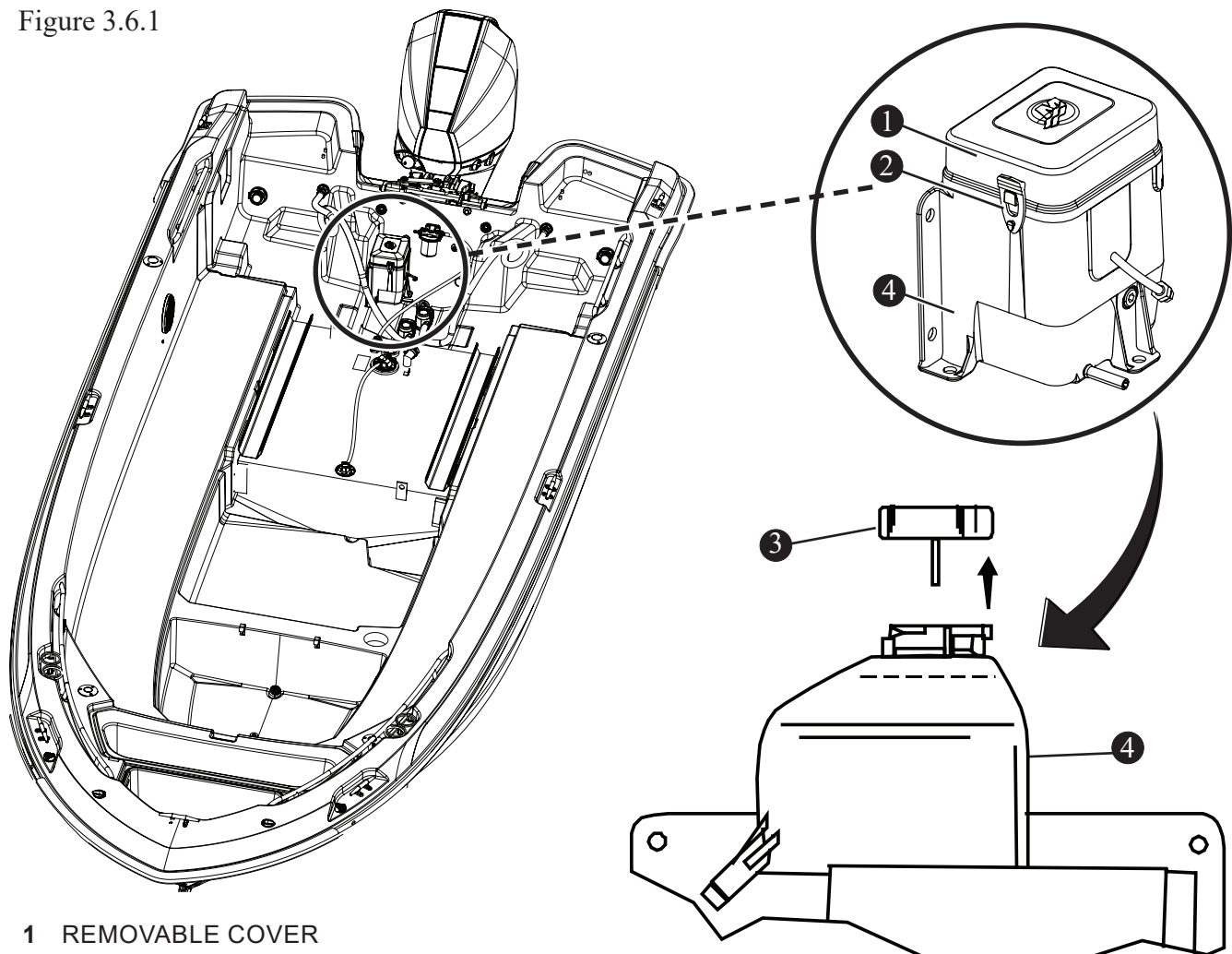
Power Steering

The engine on this vessel incorporates power assisted steering by use of hydraulics. The reservoir is located inside the motorwell access hatch (see Figure 3.6.1). Check power steering fluid regularly and visually inspect the outside of the unit for signs of leaks or damage. Check fluid level before each trip. If necessary add SAE 0W-30 synthetic power steering fluid only.

⚠ CAUTION

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

Figure 3.6.1



- 1 REMOVABLE COVER
- 2 RUBBER LOCKING STRAP
- 3 SCREW-ON CAP
- 4 POWER STEERING FLUID RESERVOIR

Fuel System

CAUTION

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

CAUTION

Use of improper fuel can seriously damage the engine. Engine damage resulting from use of improper fuel is considered engine misuse and voids 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 the owner's packet for complete fuel and fueling information and warnings.

The fuel system (see Figure 3.8.1) is designed to meet EPA regulations using certified components to limit fuel vapor emissions. The 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 that features an audible click, to inform you when it is sealed.

Fuel Tank

The low-permeation aluminum fuel tank (see Figure 3.8.1) has a usable fuel capacity of 80 gallons (303 liters). Review and understand all

fuel related information and warnings in the owner's packet and the included safety inserts. When the fuel tank is less than one-quarter full, this can cause engine stalling due to fuel starvation or by allowing sediment to enter the fuel line. Keep tank full and monitor fuel level often.

Fuel Vent

The fuel tank vent is integrated into the fuel fill deck fitting. The VaporTec fuel pressure management system (fuel fill deck fitting, integrated check valve, fill limit vent valve, and grade valve) ensures that the fuel system maintains proper vapor pressure, which, if unchecked, can seriously damage a boat or engine. The vent serves as an over pressure/vacuum release with anti-surge and flame/spark arresting protection. Grade valves have been added to the tank to allow proper ventilation when the boat is stored, or trailered, on a moderate incline, without fuel seepage.

Fuel Distribution System

Fuel is delivered to the engine through the fuel valve, anti-siphon valve and the fuel line. The fuel valve prevents built up tank pressure from being transferred to the engine while still allowing fuel to flow. The anti-siphon valve is a safety feature designed to prevent 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.

Filling the Tank

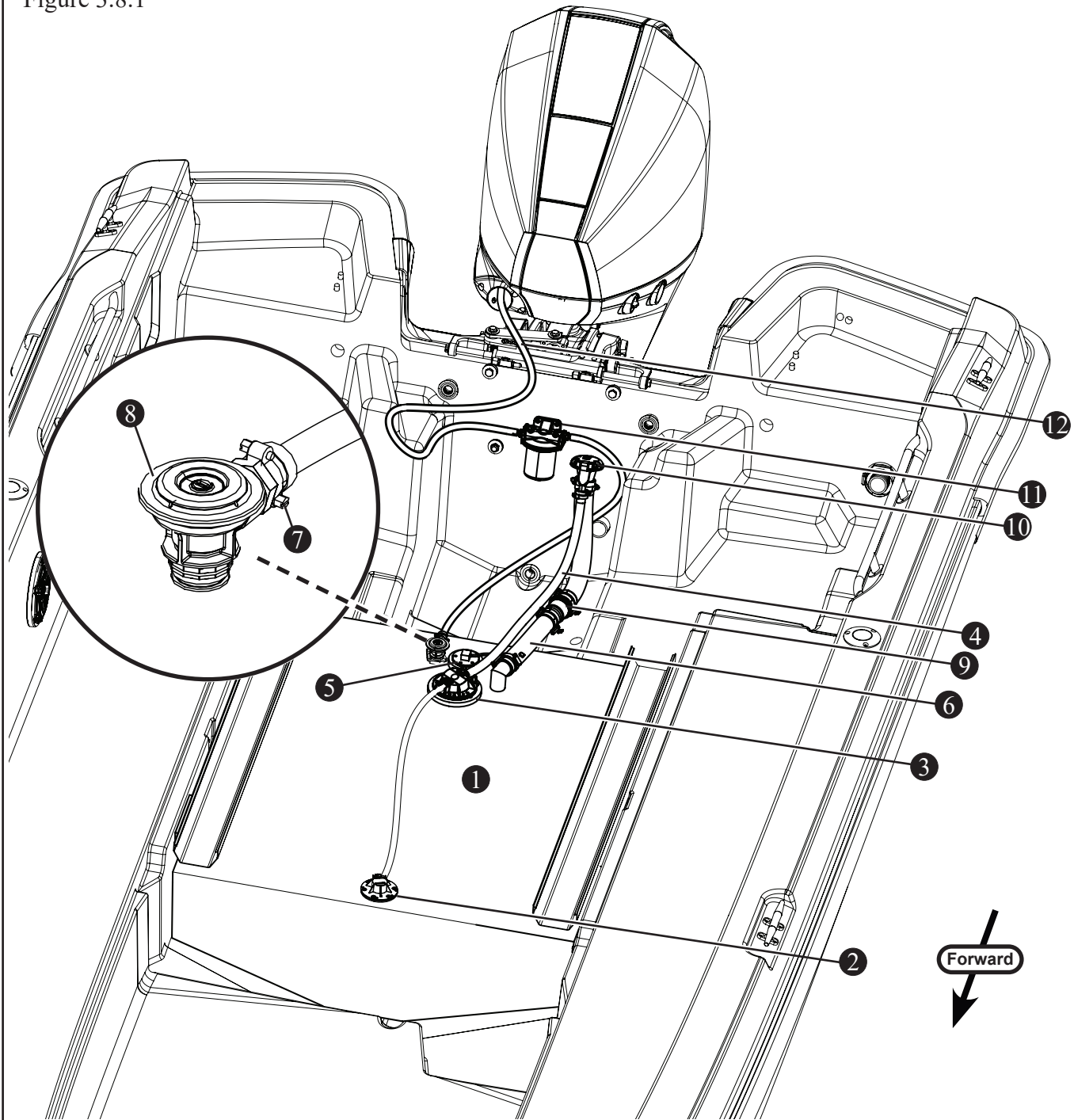
WARNING

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

The 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), ensures a clean a trouble-free fill-up. Attempting to fill the tank past this point may cause some components to malfunction.

Fuel System

Figure 3.8.1



- | | |
|--------------------------|-----------------------|
| 1 FUEL TANK | 7 ANTI-SIPHON VALVE |
| 2 GRADE VALVE | 8 FUEL DEMAND VALVE |
| 3 FILL LIMIT VENT VALVE | 9 INLET CONTROL VALVE |
| 4 FUEL VENT HOSE | 10 FUEL FILL |
| 5 FUEL TANK LEVEL SENSOR | 11 FUEL FILTER |
| 6 FUEL FILL HOSE | 12 ENGINE FUEL FEED |

WARNING

Use of a portable fuel container to fill fuel tank can result in overfilling and circumvent the safety features designed into fuel tank.

WARNING

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

NOTICE

Record this vessel's fuel capacity and consumption. Drastic changes in consumption and mileage may indicate a problem.

DANGER

- **Static electricity can ignite gasoline vapors causing serious injury, death and/or destruction of property.**
- **Check for leaks in tubing, connections and hoses. Avoid all forms of ignition when the fuel fumes are noticed.**
- **Correct the cause of leaks and ventilate the area to insure that no fumes remain prior to energizing any electrical equipment, smoking and/or starting the engine.**

NOTICE

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

Static Electricity

Static electricity can ignite gasoline vapors. Use extreme caution when fueling from a source other than marinas and gas stations. This vessel's bonding system protects it from creating and discharging static electricity. Keep vessel in contact with the water or a land-based grounding system. To reduce static electricity while refueling:

- Never fuel 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 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 lit areas.
- Always keep fuel nozzle in contact with edge of the fuel tank opening when filling.
- Ventilate areas where gasoline vapors could collect before starting the engine.
- Wipe up any spillage completely and dispose of rags or waste on shore.
- Secure the fill cap tightly.
- Portable tanks should only be filled while on shore, never on board the boat.

REFER TO THE SAFETY INSERTS IN YOUR OWNER'S PACKET FOR MORE INFORMATION.

Ethanol Blended Fuels

NOTICE

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

CAUTION

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

Ethanol's high-octane rating may be useful in increasing the octane level of unleaded gasoline. The fuel system components of Mercury engines have been tested to perform with a 10 percent maximum level of ethanol-blended gasoline. Special

precautions should be considered with the use of fuel containing ethanol in the fuel system. Fuels with ethanol can attack some fuel system components, such as tanks and lines, if they are not constructed from ethanol compatible materials. This can lead to operational problems or safety issues such as clogged filters, leaks or engine damage. This vessel was manufactured and shipped from the factory with ethanol compatible materials. Before introducing gasoline with ethanol into the fuel tank, ask the dealer if any components have been added or replaced that are not recommended by Boston Whaler, Mercury, or may not be ethanol compatible. It is best to maintain a full tank of fuel when the vessel is not in use. This will reduce air flow in and out of the tank due to changes in temperature as well as limiting ethanol exposure to humidity and condensation in the tank.

Phase Separation

Humidity and condensation create water in the 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. 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, the only remedy is to drain the fuel, clean and dry the tank completely and refill with fresh fuel.

Fuel/Water Separators

A fuel water separator (filter) is provided for the engine. The addition of another in-line filter to the system may create a possible flow restriction that can starve the engine 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. Consult a Boston Whaler dealer for recommendations

regarding filters that meet Mercury's specifications.

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.

Fuel and Boat Storage

Long periods of storage and/or non-use, common to boats, create unique problems. When preparing to store a boat for a period of two months or more, it is best to completely remove all fuel from the tank. If not possible, fill tank and add fuel stabilizer per manufacturer's instructions. Maintaining a partially full tank during storage is not recommended because the void above the fuel allows air movement that can introduce water through condensation.

NOTICE

Carry spare filters onboard as contaminated fuel can easily clog a filter.

Navigation Lighting

NOTICE

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

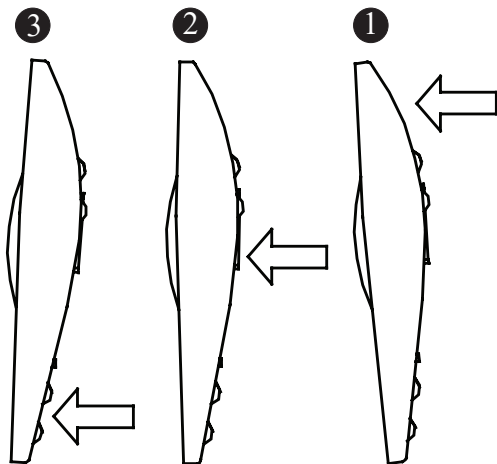
This vessel comes equipped with navigation lighting for your safety (for more information, see chapter 2, *General Information*). Regulations state that all boats must display navigation lights between sunset and sunrise and during periods of restricted visibility, such as rain, fog, haze, etc. If operating in reduced visibility or between sunset and sunrise it is necessary to maintain a safe speed and post a lookout.

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

is the owner's responsibility to ensure that displayed lights are also compliant with local regulations.

Operational settings for the navigation light switches are shown in Figure 3.11.1.

Navigation Lighting Switch
Figure 3.11.1



- 1 ALL NAVIGATIONAL LIGHTS ON
- 2 ANCHOR LIGHT ONLY
- 3 OFF

Freshwater System (Option)

NOTICE

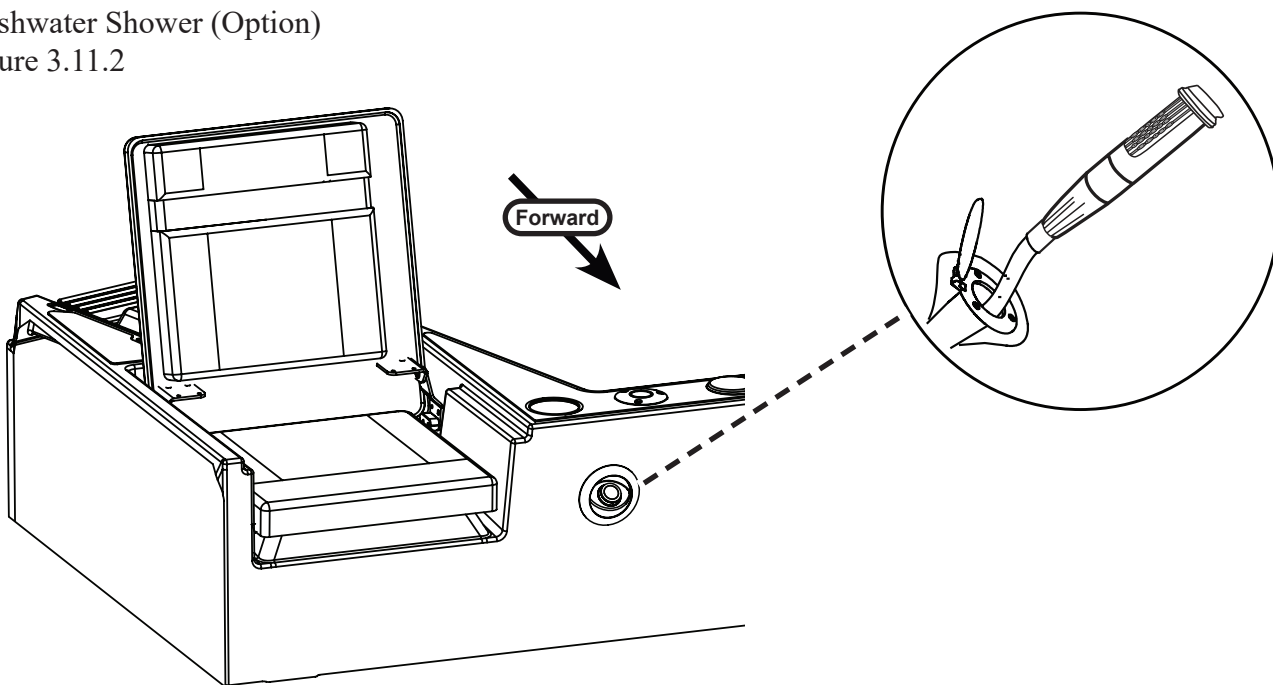
- **Be sure to fill water tank from a source known to provide safe, pure drinking water.**
- **If freshwater system is not used for long periods of time or is used only seasonally, disinfect system before using it.**

The freshwater system includes the tank, pump, filter, freshwater fill (see Figure 3.12.1), and a pullout shower. The shower is located in the stern seating area (see Figure 3.11.2).

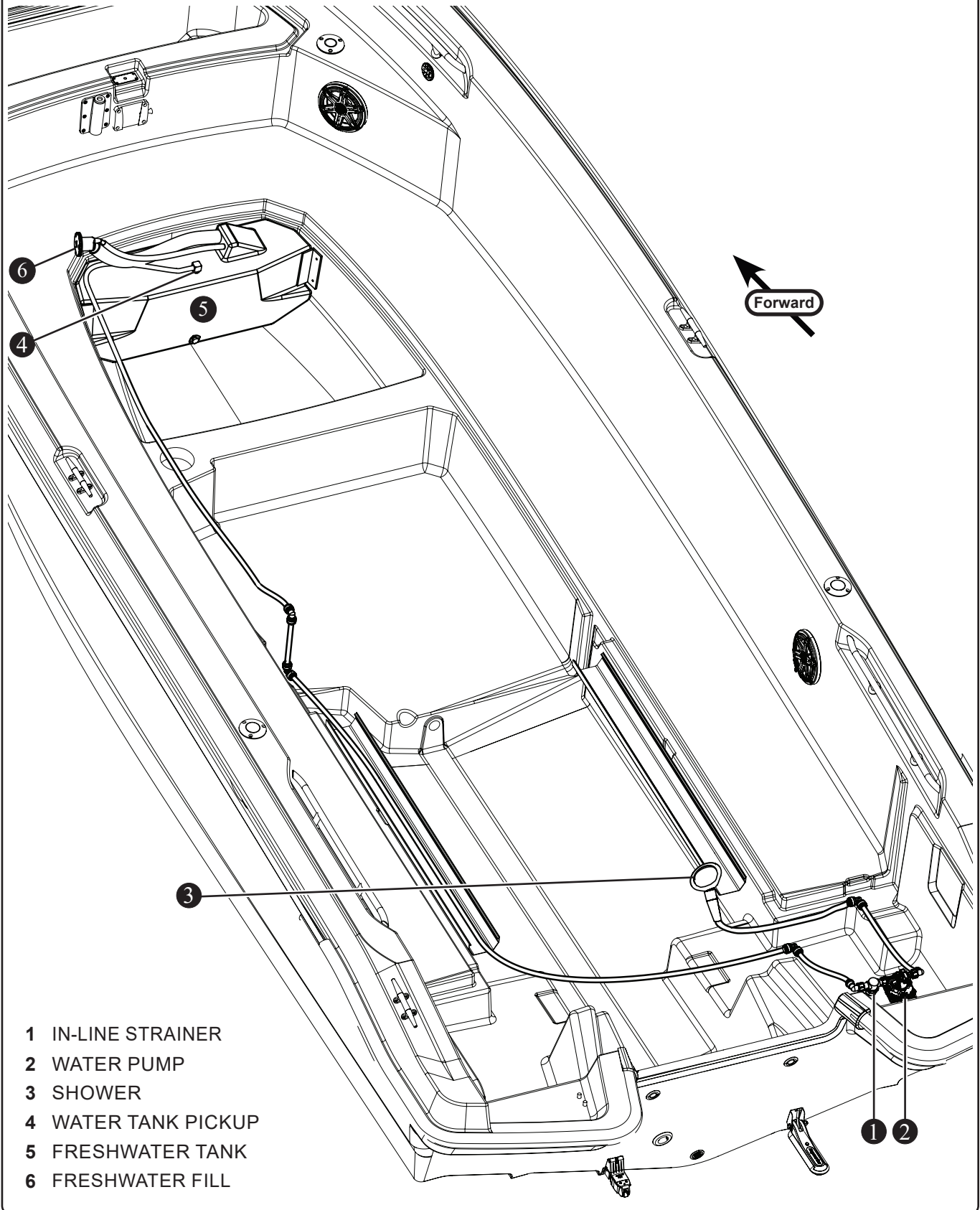
The 12 gallon (45 liter) freshwater tank's fill cap is located on the port side of the console lounge seat.

Only fill the freshwater tank from a source known to provide safe, pure drinking water. Use a plastic hose to fill the water tank as a rubber hose may give the water a disagreeable taste. Before filling the freshwater system it is vital that it be properly disinfected. Ask a dealer if this has been done. For more maintenance information refer to chapter 5, *Care and Maintenance*.

Freshwater Shower (Option)
Figure 3.11.2



Freshwater System (Option)
Figure 3.12.1



Raw Water System (Option)

The raw water system includes the livewell, pumps, seacock, and washdown connection (see Figure 3.13.1 and Figure 3.14.1). The livewell is located under the helm seat (see Figure 3.15.1). For maintenance information refer to chapter 5, *Care and Maintenance*.

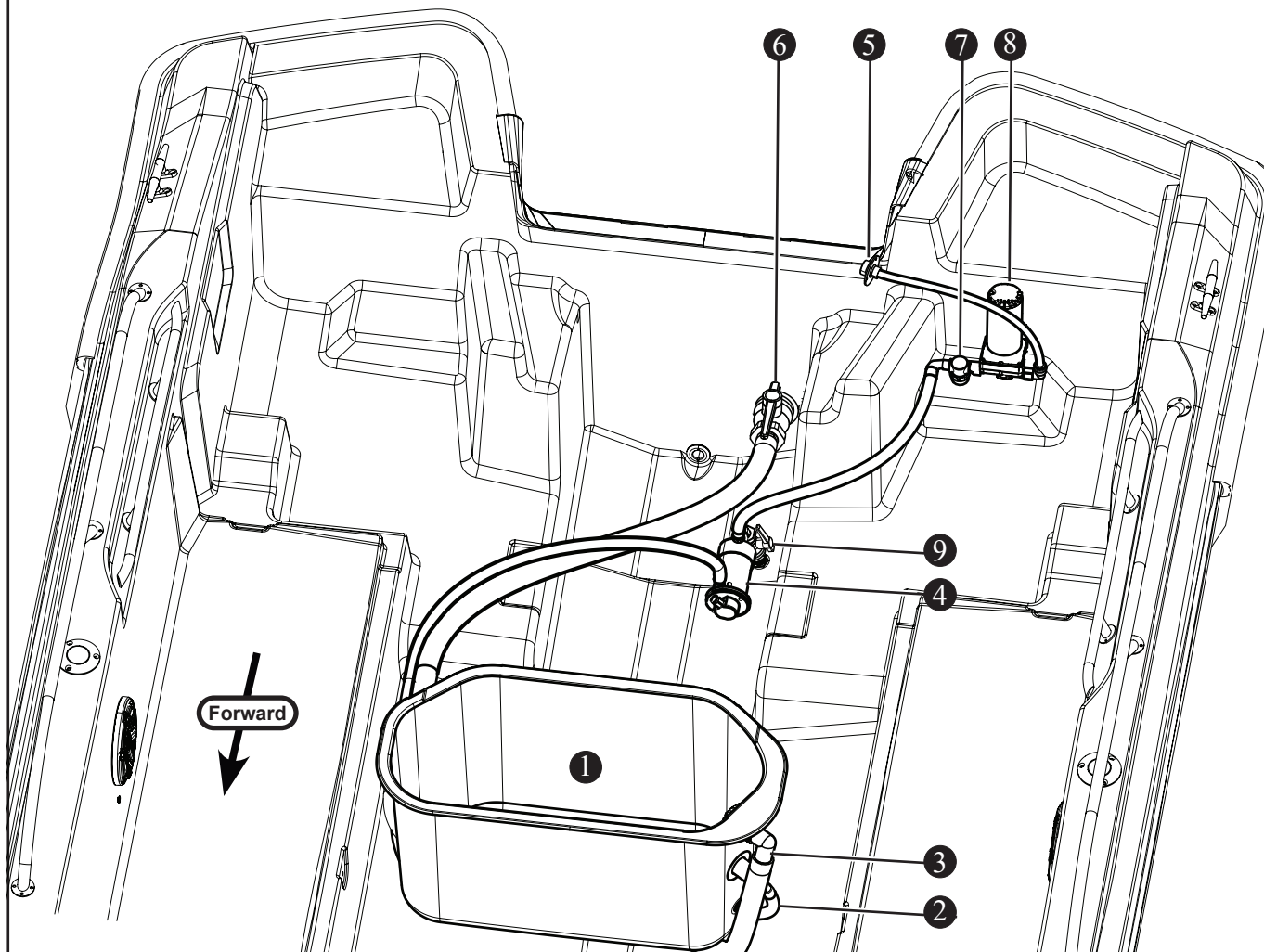
Figure 3.13.1

NOTICE

If seacock and flow control valve are left open while vessel is underway, water may enter livewell.

ATTENTION

Seacock must be in open position when livewell and washdown are in use. Running pump dry may damage unit.



- 1 LIVEWELL TANK
- 2 LIVEWELL FILL HOSE
- 3 OVERFLOW DRAIN
- 4 LIVEWELL PUMP
- 5 RAW WATER WASHDOWN CONNECTION (OPTION)

- 6 LIVEWELL SEACOCK DRAIN
- 7 IN-LINE STRAINER (OPTION)
- 8 RAW WATER PUMP (OPTION)
- 9 INTAKE SEACOCK

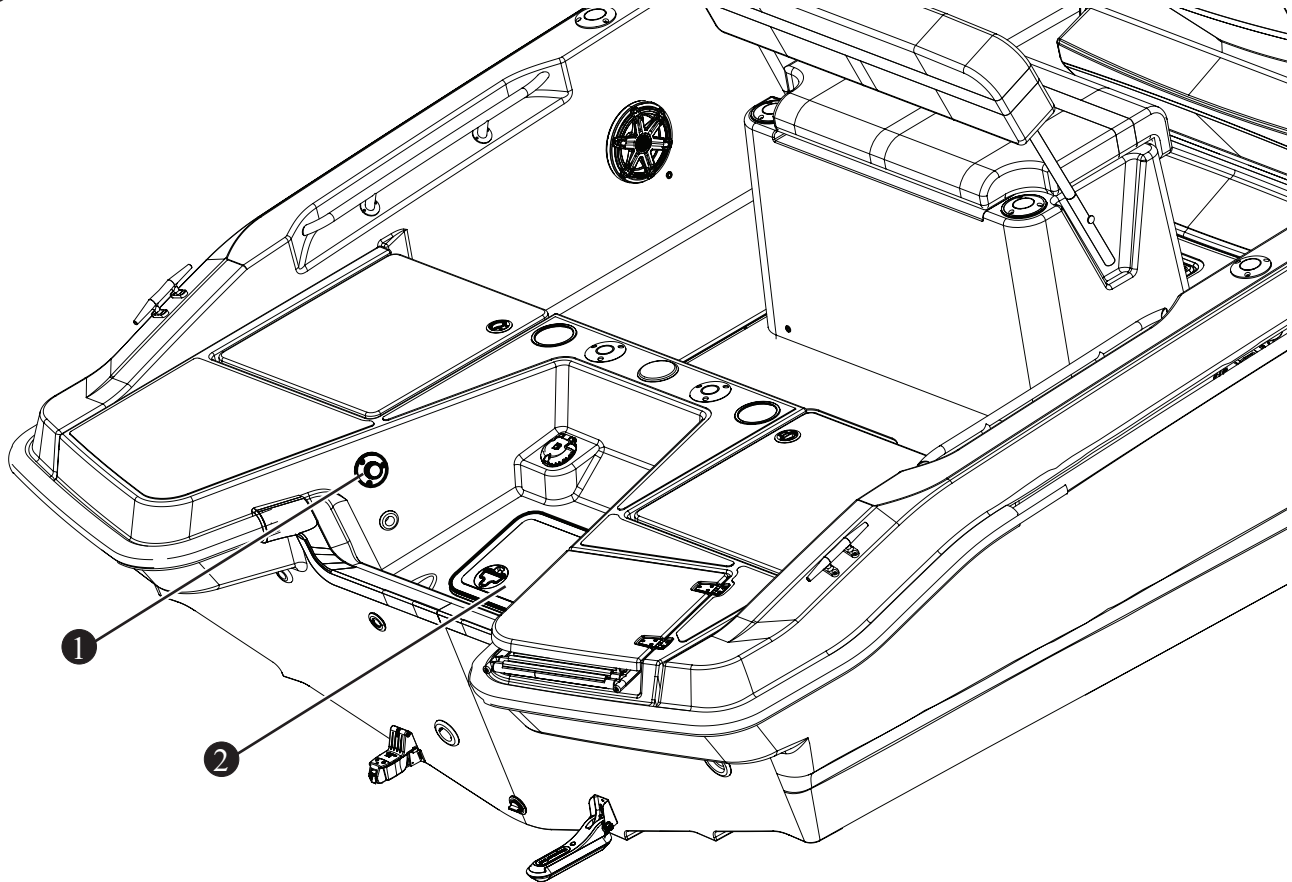
Raw Water Washdown (Option)

The raw water washdown connection is located on the port side of motorwell (see Figure 3.14.1). The fitting allows for connection of a common garden hose. The cap is tethered to the fitting and should be closed when not in use.

Operation

The raw water washdown pump is activated by the *WASHDOWN* switch on the helm switch panel.

Figure 3.14.1



1 RAW WATER WASHDOWN CONNECTION (OPTION) 2 MOTORWELL ACCESS HATCH

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).

Livewell (Option)

If equipped, the livewell keeps baitfish alive by circulating fresh seawater through the tank, located under the helm seat (see Figure 3.15.1 and Figure 3.13.1). Before operating the system, ensure the intake seacock and drain seacock are in the open position. Both seacocks can be accessed through the motorwell access hatch (see Figure 3.14.1). The flow control valve (see Figure 3.15.1) is used to regulate water flow into the livewell tank. Turn the valve clockwise to stop the flow of water. Fill the livewell by pressing the switch marked *LIVEWELL* on the helm switch panel. For maintenance information refer to chapter 5, *Care and Maintenance*.

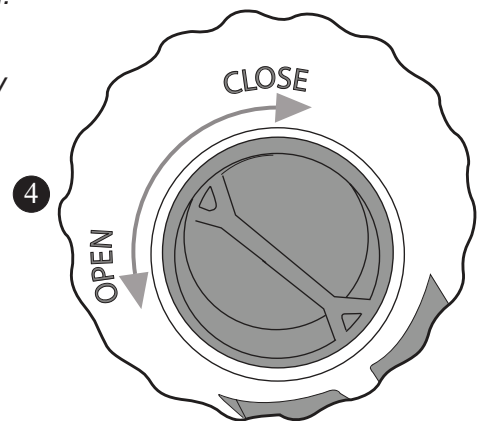
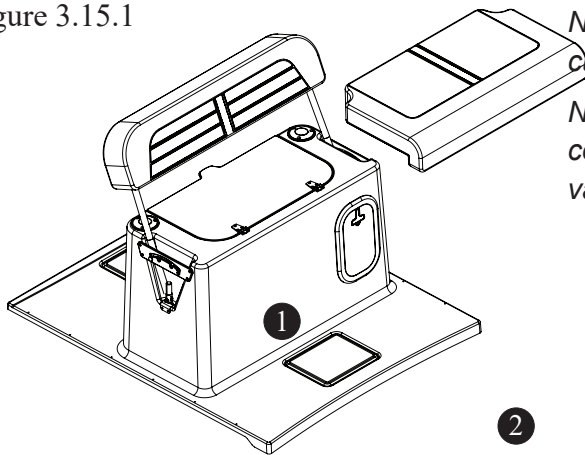
NOTICE

If seacock/flow control valve are left open while vessel is underway, water may enter livewell.

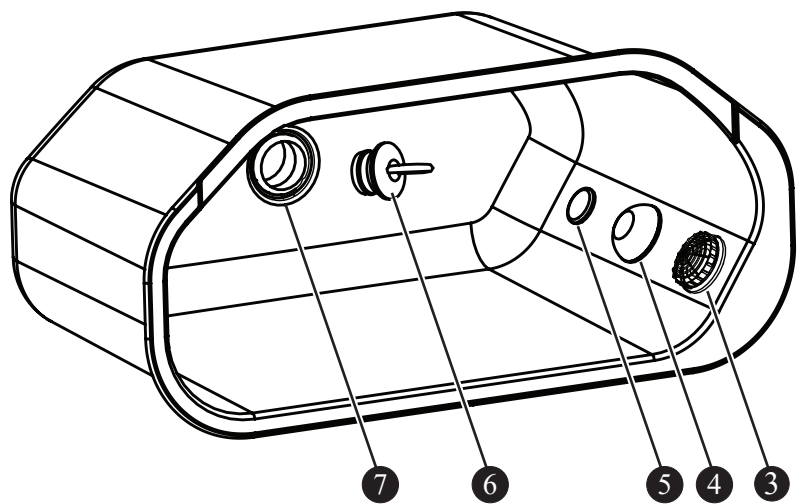
ATTENTION

Seacock must be in open position when livewell and washdown are in use. Running pump dry may damage the unit.

Figure 3.15.1



- 1 LIVEWELL LID
- 2 LIVEWELL ACCESS PLATE
- 3 OVERFLOW DRAIN
- 4 FLOW CONTROL VALVE
- 5 LIGHT
- 6 PLUG
- 7 LOWER DRAIN



Head

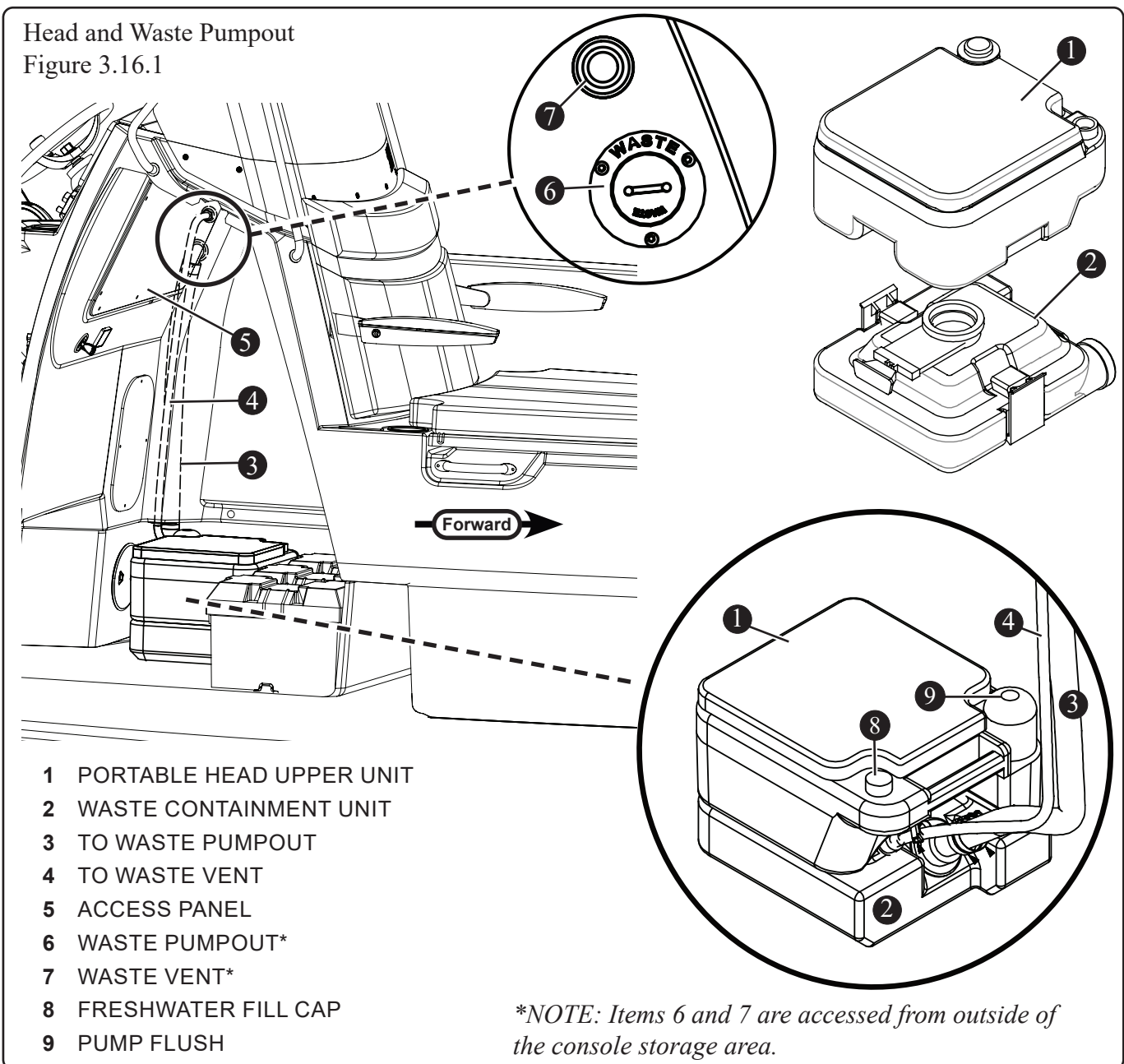
This vessel is equipped with a portable head (see Figure 3.16.1). The two-part head unit holds freshwater for flushing in the upper half and waste in the lower half. The waste containment tank holds 2.8 gallons (10.6 liters). The two-piece head unit can be manually removed from the boat for emptying. REFER TO THE OWNER'S PACKET FOR COMPLETE INSTRUCTIONS AND WARRANTY INFORMATION.

Dockside Waste Pumpout (Option)

If equipped, connect the head unit's waste pumpout to a dockside waste pumping station for emptying of the waste containment tank (see Figure 3.16.1). Open the waste pumpout cover using the multi-pin key (included in owner's packet). Dockside discharge is always the preferred method of waste disposal.

NOTICE

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

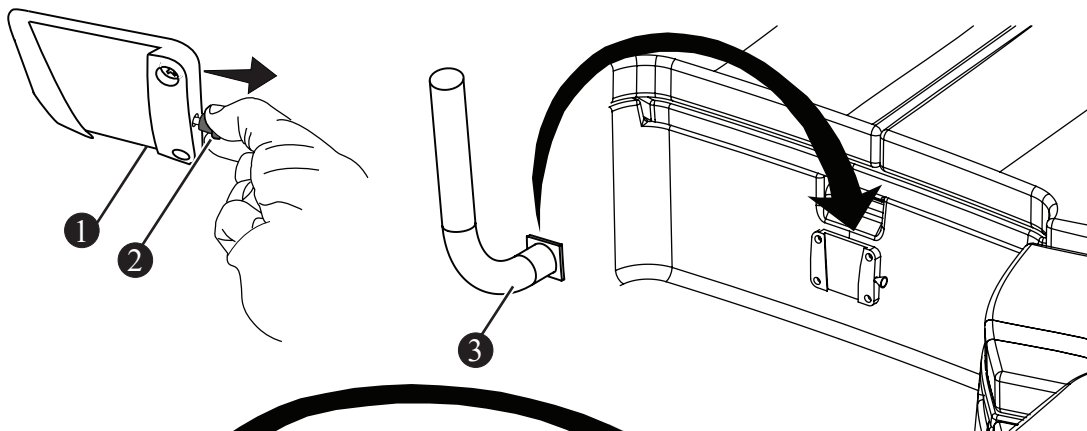


Bow Table (Option)

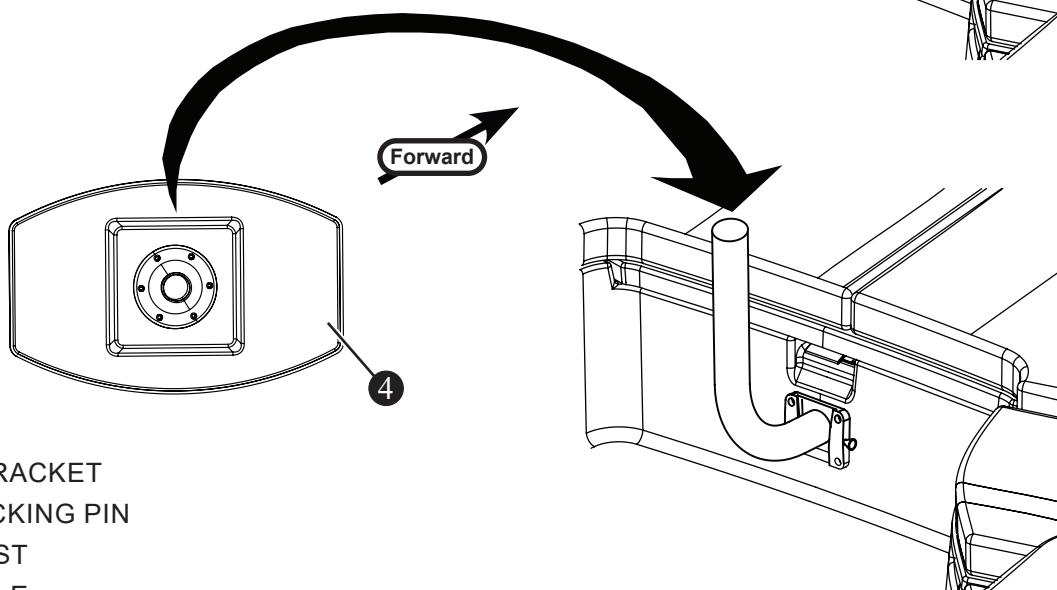
If equipped, the bow table is assembled in the bow lounge area (see Figure 3.17.1). The table is stored in the console lounge storage and the support post is stored in the console storage. To assemble the table:

Figure 3.17.1

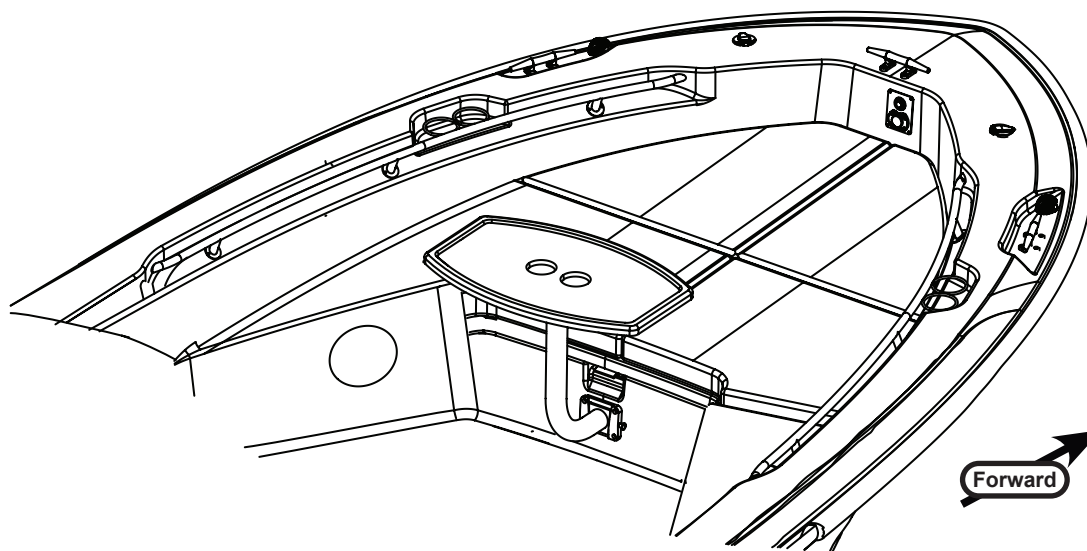
1. Retract the mounting bracket locking pin and insert the support post into the bracket; release locking pin.



2. Place the cockpit table onto the support post.



- 1 MOUNTING BRACKET
- 2 BRACKET LOCKING PIN
- 3 SUPPORT POST
- 4 COCKPIT TABLE



Trolling Motor (Option)

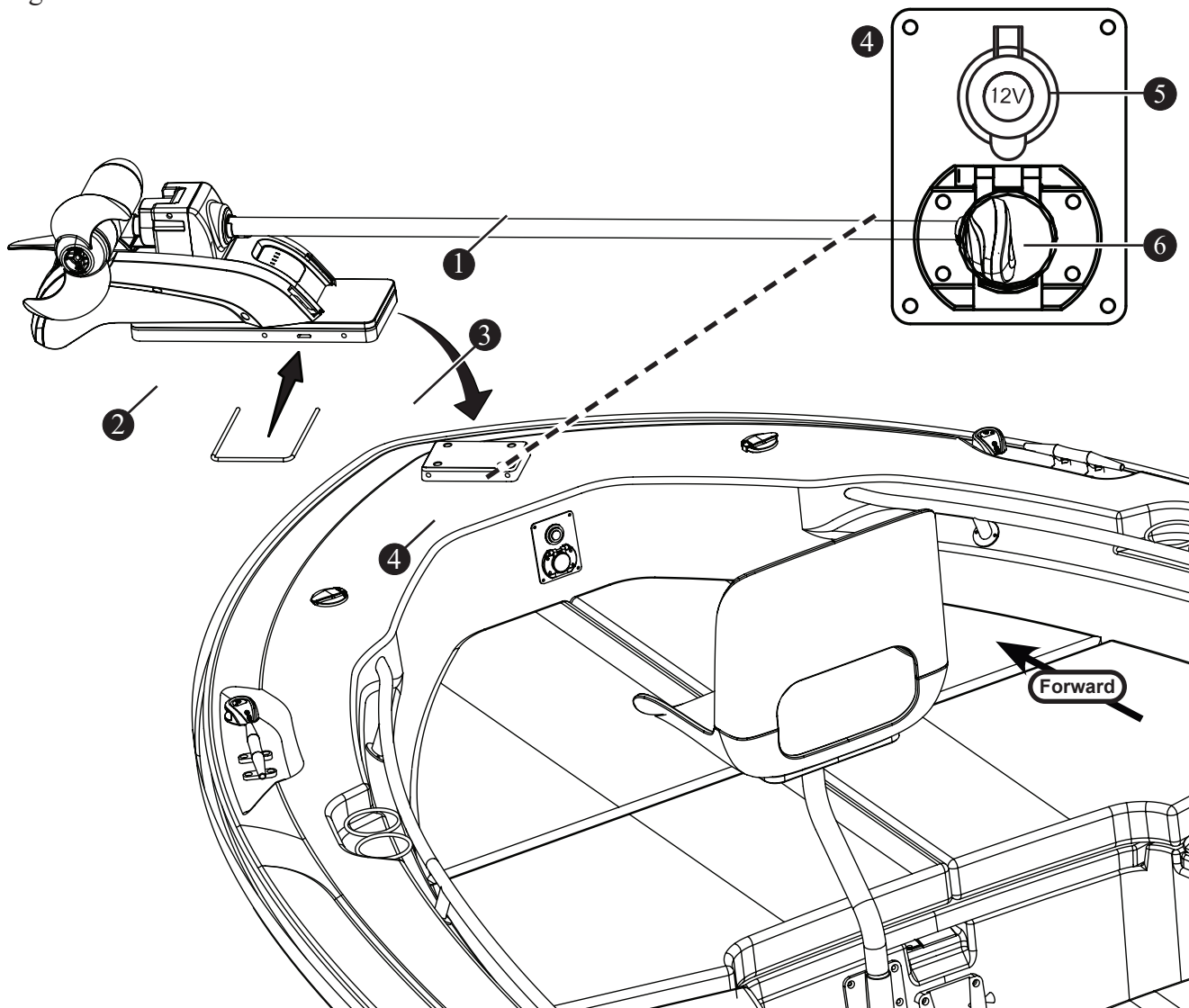
If equipped, the trolling motor serves as a secondary means of propulsion mounted on the bow (see Figure 3.18.1). The trolling motor package includes a motor, panel, battery boxes, and a battery charger. Consult a Boston Whaler® dealer for installation information.

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

! WARNING

There is a risk of electrical shock. Always have a qualified marine electrician install any system upgrades that are not already on this vessel. There are a variety of wiring configurations up to 36V. Incorrect wiring adversely affects trolling motor performance. Always use correct circuit protection and wire gauge when installing an upgraded trolling motor wiring system.

Figure 3.18.1



- 1 TROLLING MOTOR
- 2 QUICK RELEASE HANDLE
- 3 TROLLING MOTOR MOUNT

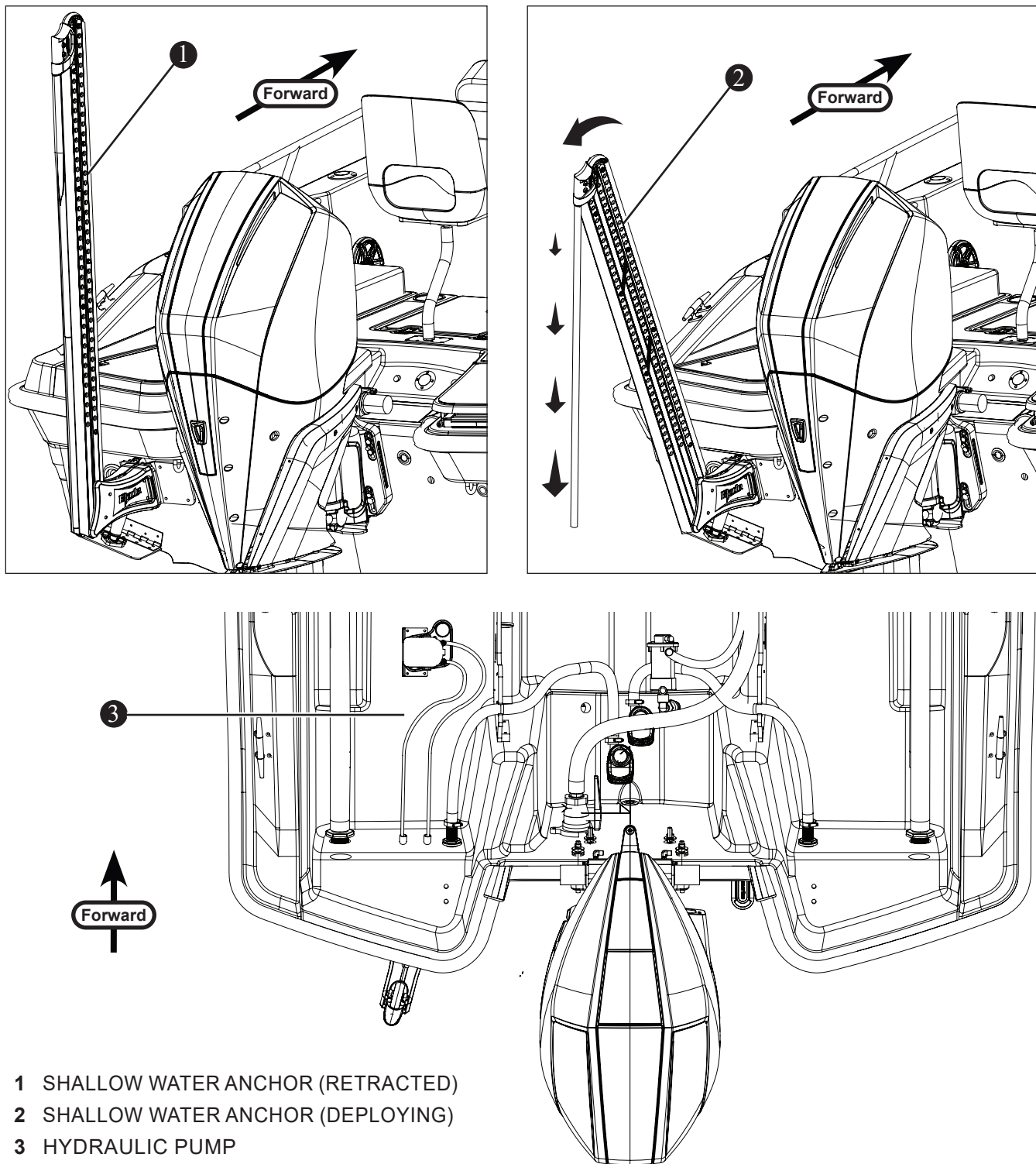
- 4 TROLLING MOTOR PANEL
- 5 12 VOLT OUTLET
- 6 TROLLING MOTOR RECEPTACLE

Shallow Water Anchor (Option)

If equipped, the optional shallow water anchor assists with keeping the vessel in position in the water (see Figure 3.19.1).

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

Figure 3.19.1

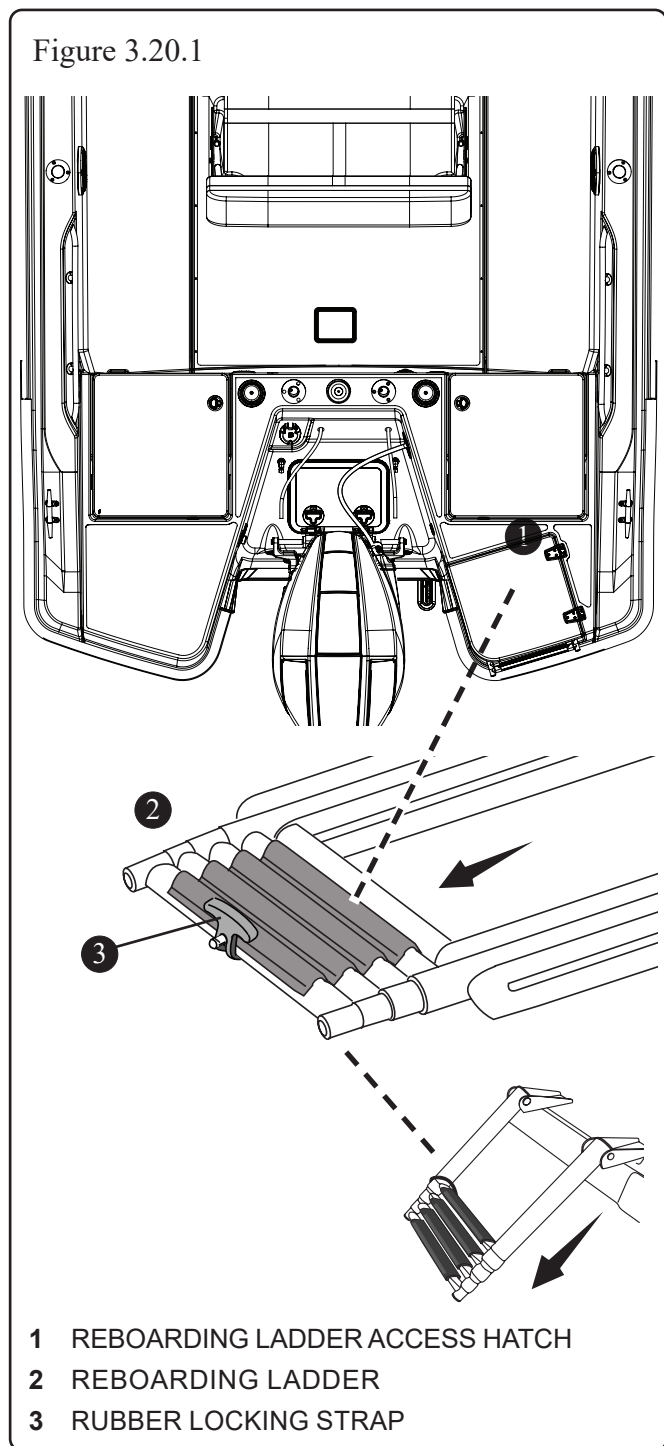


Reboarding Ladder

The reboarding ladder is located under the ladder access hatch on the aft starboard deck of the boat (see Figure 3.20.1). The ladder can be accessed without the cover raised. To deploy the reboarding ladder:

1. Release ladder's locking strap.
2. Pull ladder out and extend down.
3. Extend ladder rungs.

Figure 3.20.1



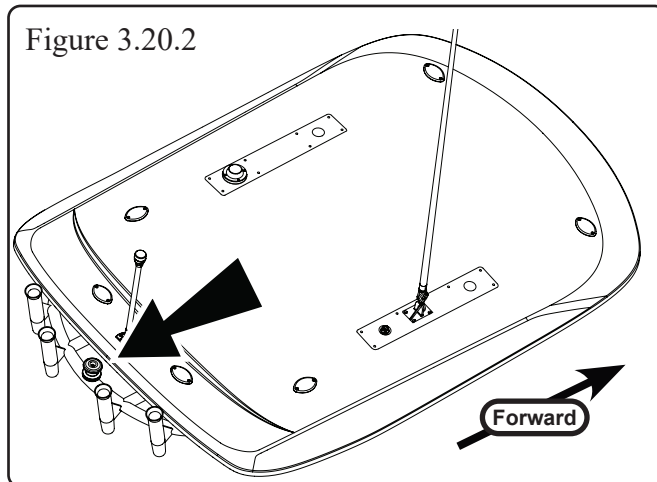
Ski Tow Pylon (Option)

⚠ CAUTION

Do not use ski tow pylon with any equipment tied to the tow rope.

The ski tow pylon is used for skiing or wakeboarding only (see Figure 3.20.2 and Figure 2.21.1). If engaging in tubing or other activities requiring watersport equipment be tied to the boat, attach the tow rope to both stern eyes at the transom (see Figure 3.21.2) using a tube tow harness. Read and understand the safety rules for recreational activities in Chapter 1, *Safety*.

Figure 3.20.2



All Activity Tower (Option)

⚠ WARNING

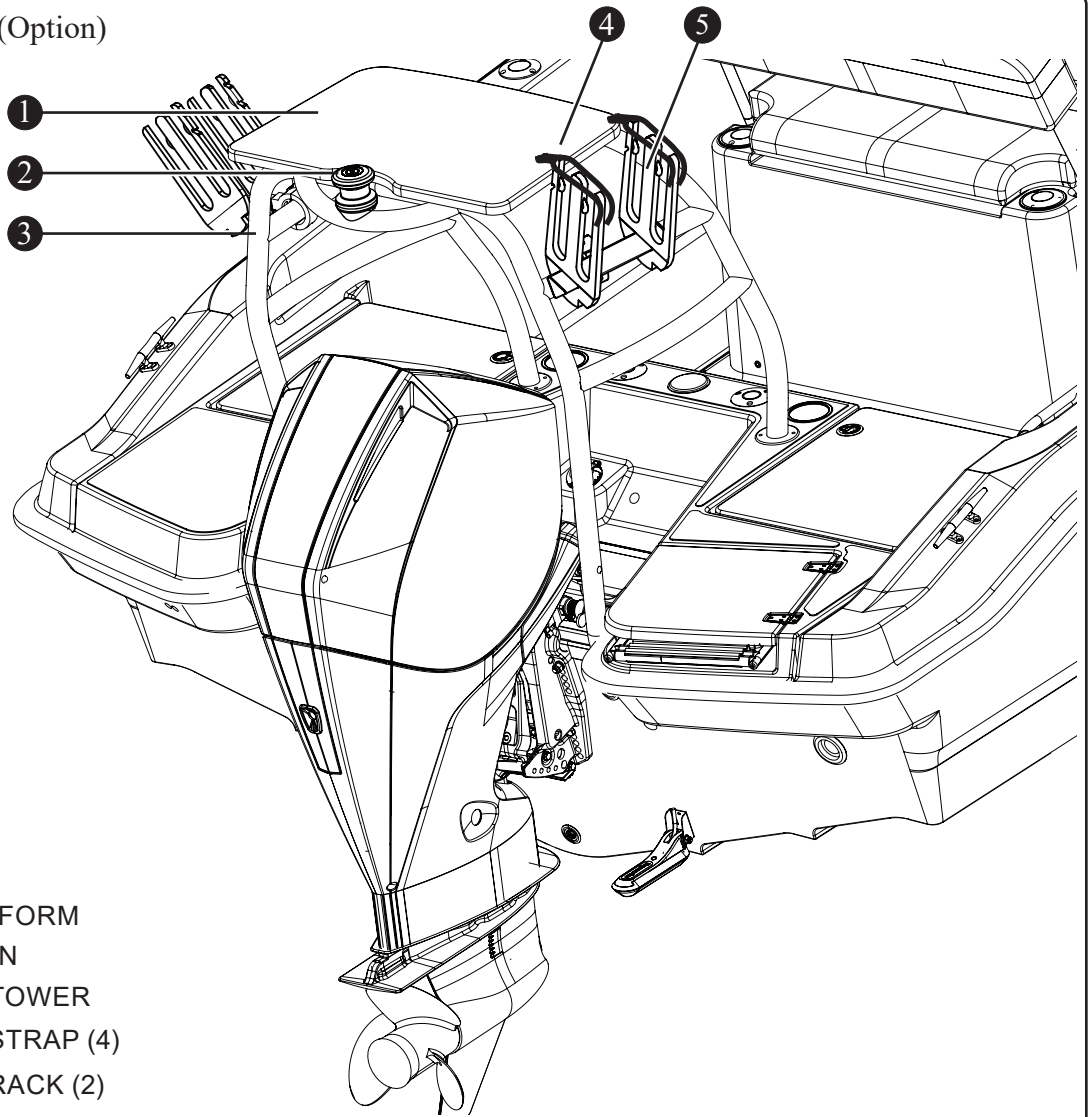
Do not use All Activity Tower's topside platform when engine is running. Wait for propeller to completely stop before occupying the platform.

⚠ CAUTION

Do not use ski tow pylon with any equipment tied to the tow rope.

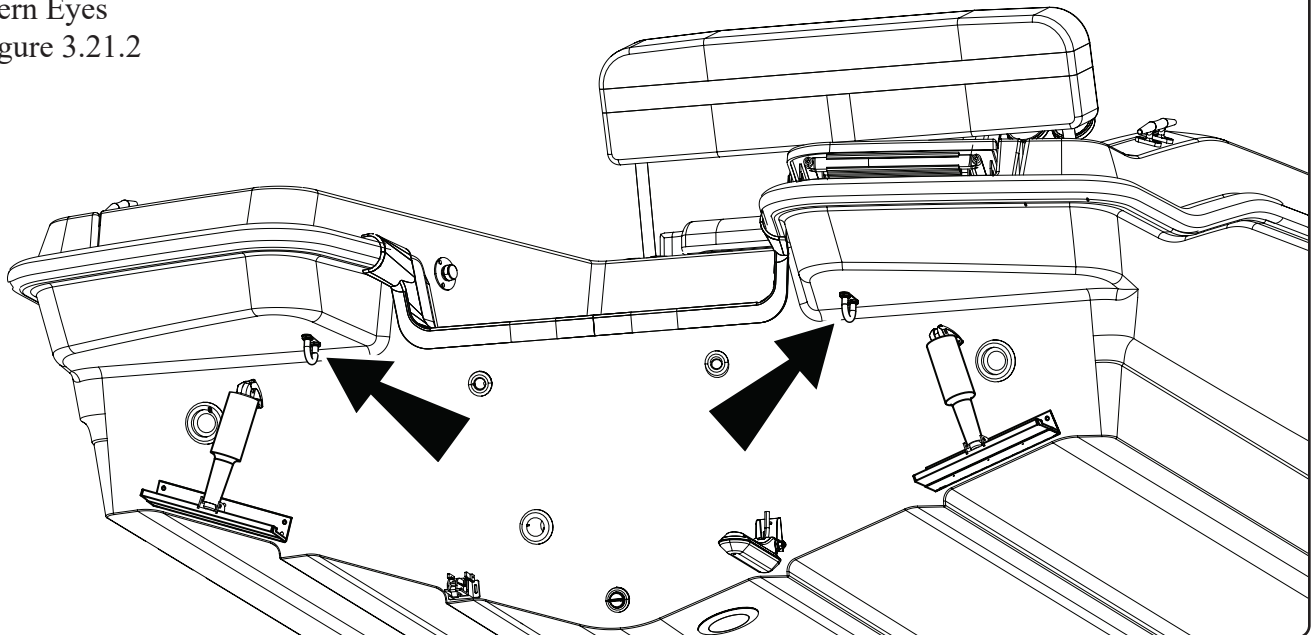
Read and understand the safety rules for recreational activities in Chapter 1, *Safety*. The all activity tower includes an integrated ski tow pylon used for skiing or wakeboarding only (see Figure 3.21.1). If engaged in tubing or such other recreational towing, attach the tow rope to the stern eyes at the transom (see Figure 3.21.2). The large topside platform provides a solid non-skid footing for fishing or poling through shallow waters (see Figure 3.21.1).

All Activity Tower (Option)
Fig. 3.21.1



- 1 TOPSIDE PLATFORM
- 2 SKI TOW PYLON
- 3 ALL ACTIVITY TOWER
- 4 WAKEBOARD STRAP (4)
- 5 WAKEBOARD RACK (2)

Stern Eyes
Figure 3.21.2



Seating

Helm Seat
Figure 3.22.1

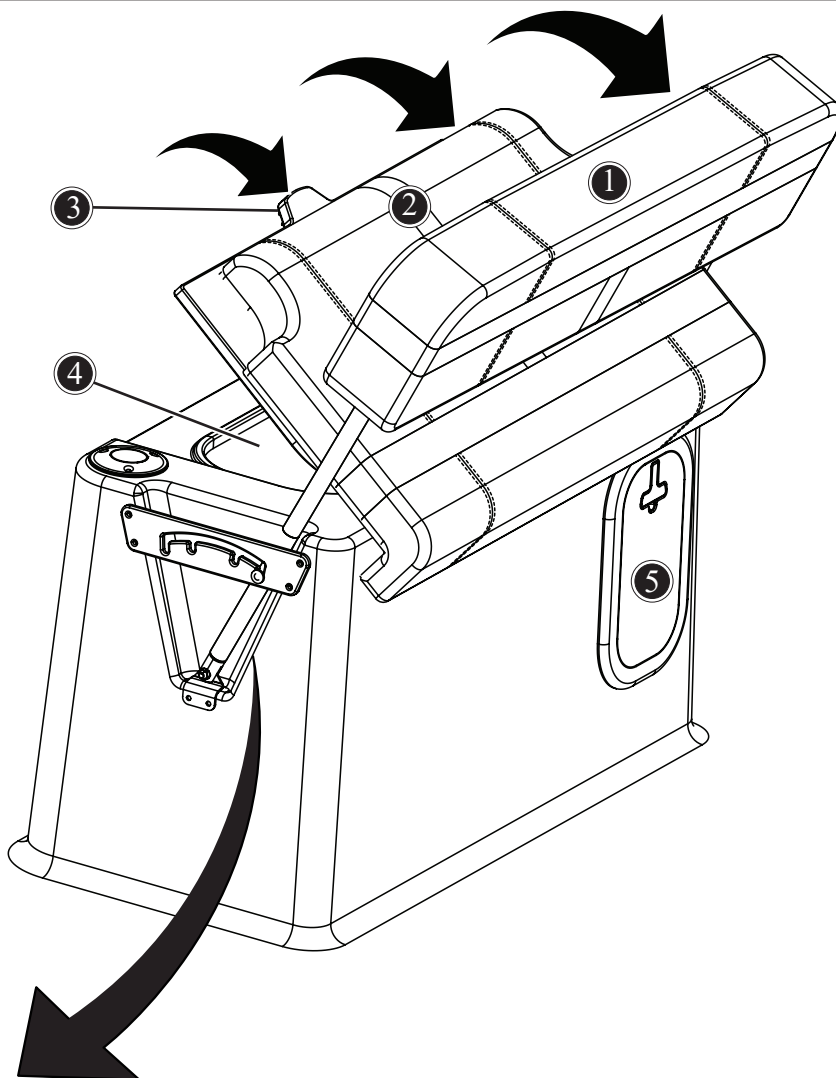
NOTICE

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

- 1 SEAT BACK
- 2 FLIP-UP SEAT CUSHION
- 3 STORAGE OR LIVEWELL¹ LID
- 4 STORAGE OR LIVEWELL¹
- 5 LIVEWELL ACCESS PANEL²

¹Livewell is optional.

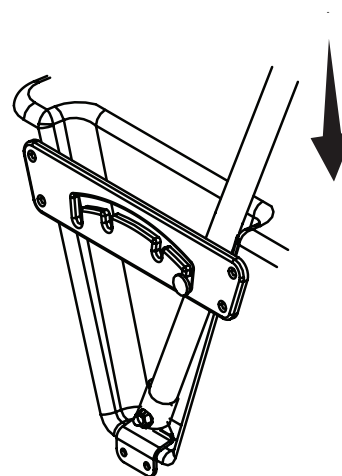
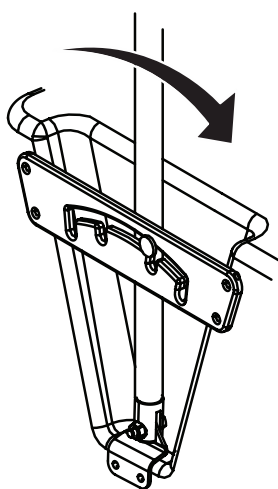
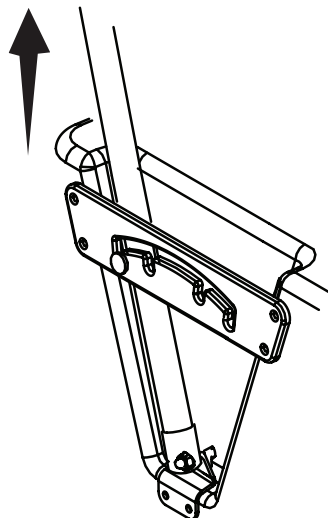
²Included with livewell option only.



Operation

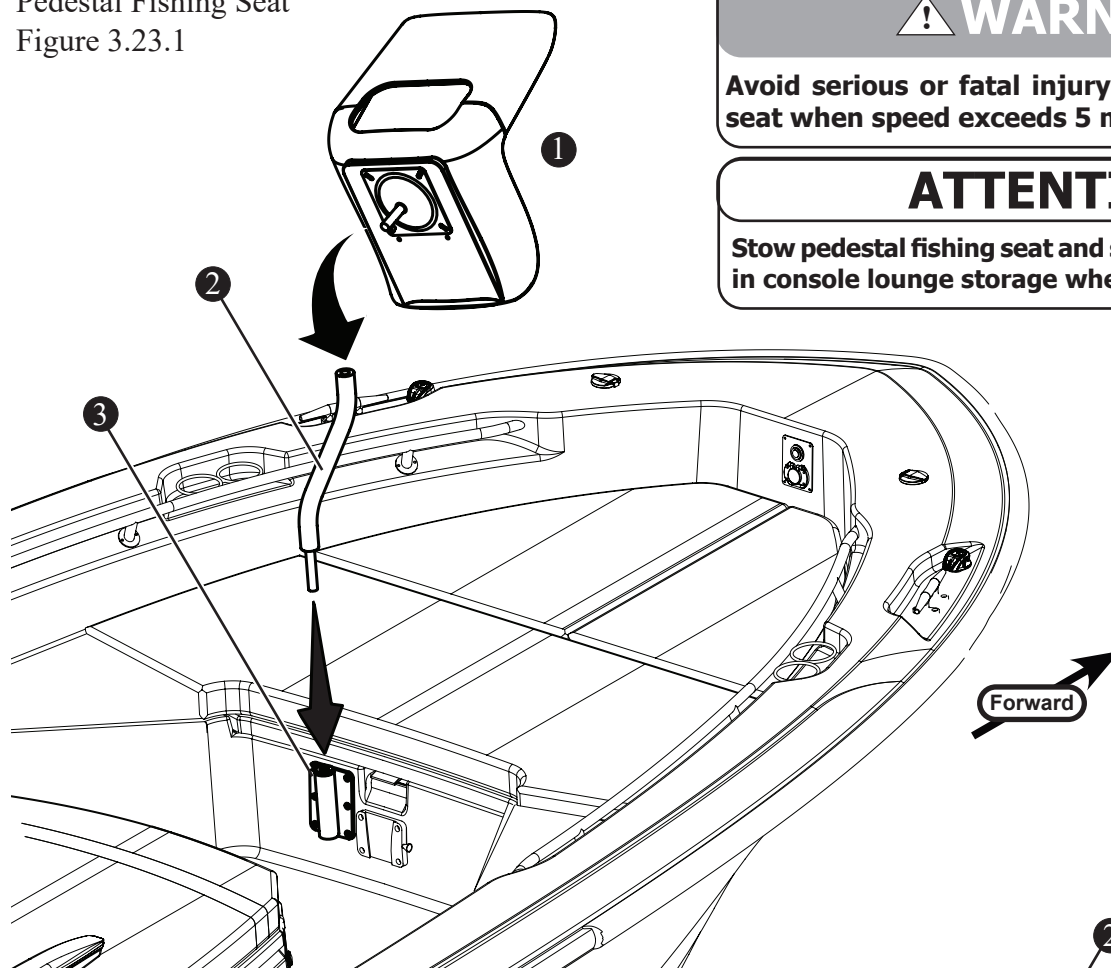
Change seat position as follows:

1. Lift up seat back.
2. Shift to desired position.
3. Lower seat back and engage in slot.



Seating (Continued)

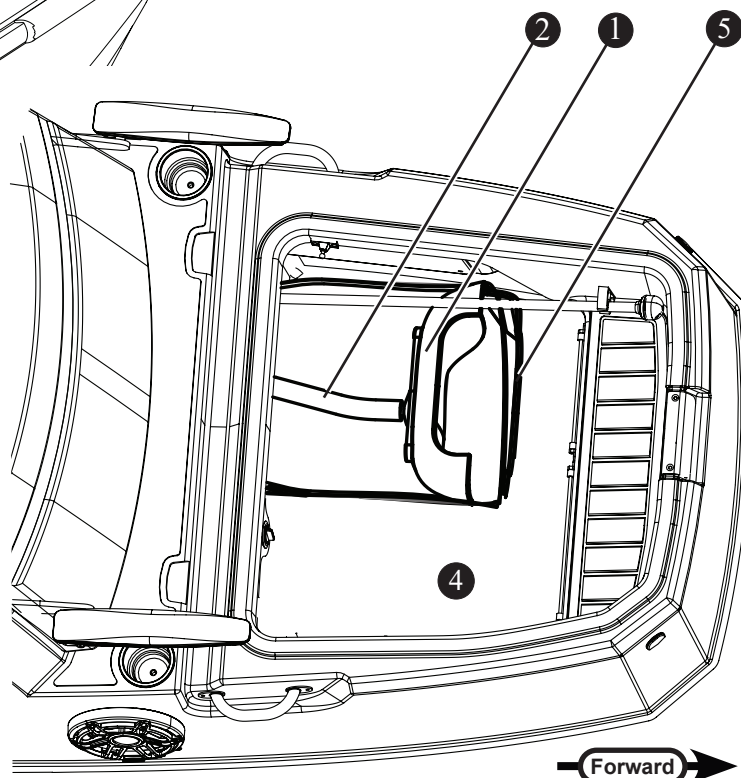
Pedestal Fishing Seat
Figure 3.23.1



! WARNING
Avoid serious or fatal injury. Do not occupy seat when speed exceeds 5 mph.

ATTENTION
Stow pedestal fishing seat and seat post securely in console lounge storage when not in use.

- 1 PEDESTAL FISHING SEAT
- 2 SEAT POST
- 3 FORWARD BASE
- 4 CONSOLE LOUNGE STORAGE
- 5 TIE-DOWN STRAP



NOTE: Console lounge storage shown with hatch removed.

Anchoring

To anchor, turn bow into the wind or current and put the engine in neutral. When the boat comes to a stop, lower the anchor from the bow (see Figure 3.25.1). Proper anchoring requires knowledge of rode and scope and understanding the relationship between rode, scope and anchor performance.

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

Scope: The scope is 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. To determine how much rode to use when anchoring, use this common formula: Rode length = (bow height + water depth) × scope. The minimum is 5:1 for calm conditions; normal is 7:1, and severe conditions may require 10:1.

Example:

Rode length = (3 feet + 10 feet) × 7*

Rode length = 13 feet × 7*

Rode length = 91 feet

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. Because there are a variety of anchors with different uses, discuss with a dealer the right anchor for this vessel.

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

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

Lowering the Anchor

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

Setting the Anchor

There is no ideal way to set an anchor. Experiment to see how it performs. One method is to turn the rode around a bitt or a cleat and slowly pay out as the boat backs from the anchor site. When the proper scope has been reached snub the rode quickly, causing the anchor to dig in to the sea bottom.

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

WARNING

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

Collision hazard - Anchor only in areas where vessel will not disrupt other boats. Do not anchor in a channel or tie up to navigational aids as it is both dangerous and illegal.

WARNING

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

CAUTION

Be careful trailing lines do not foul the propeller.

CAUTION

To avoid property damage, engage gypsy lock and ensure anchor is secured with lanyard before getting underway.

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

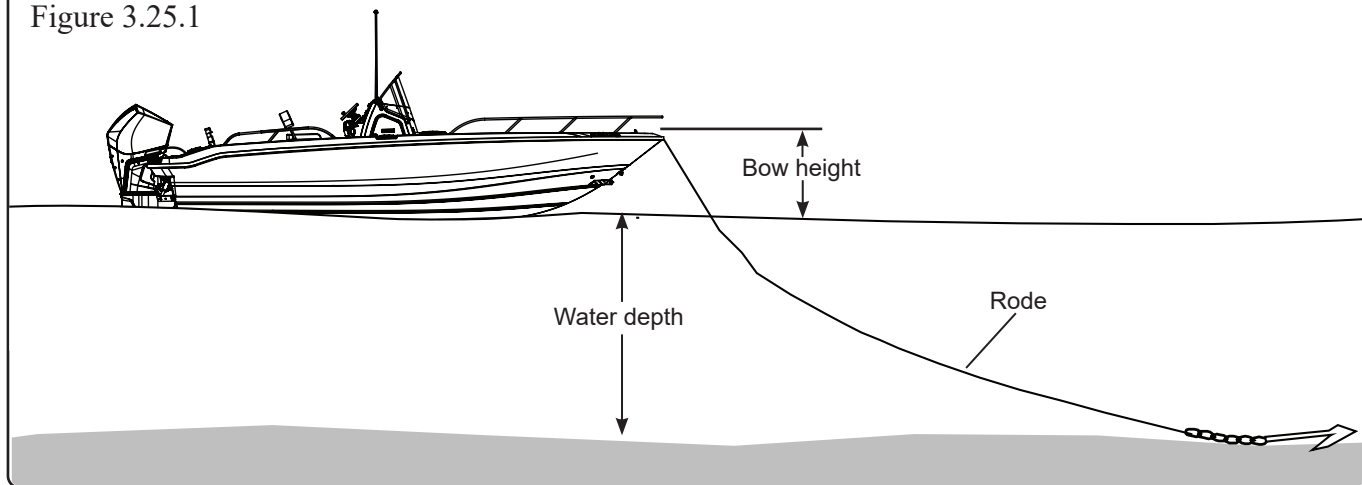
NOTICE

Turn on 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 securely attached to the eye in the bottom of the anchor locker and to the anchor itself.

Proper Anchoring
Figure 3.25.1



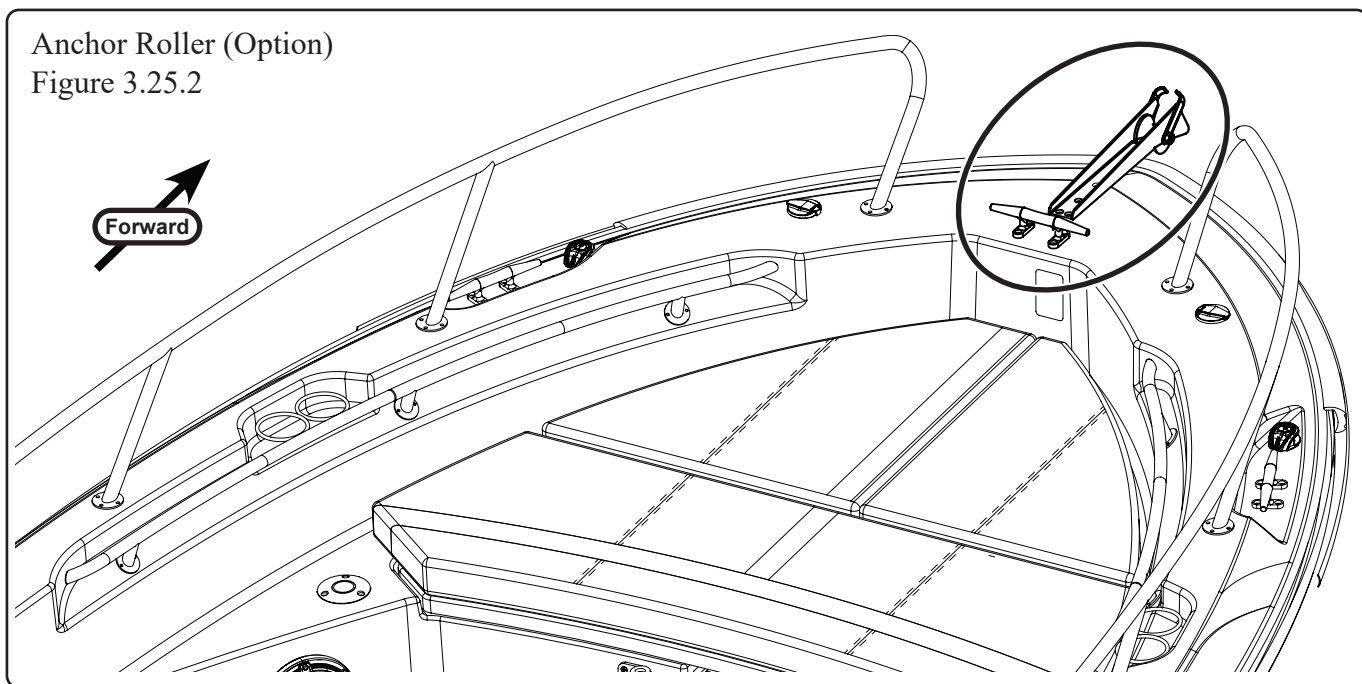
Weighing the Anchor

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. The bow storage compartment located in the starboard bow should be used to stow the anchor line.

Anchor Roller (Option)

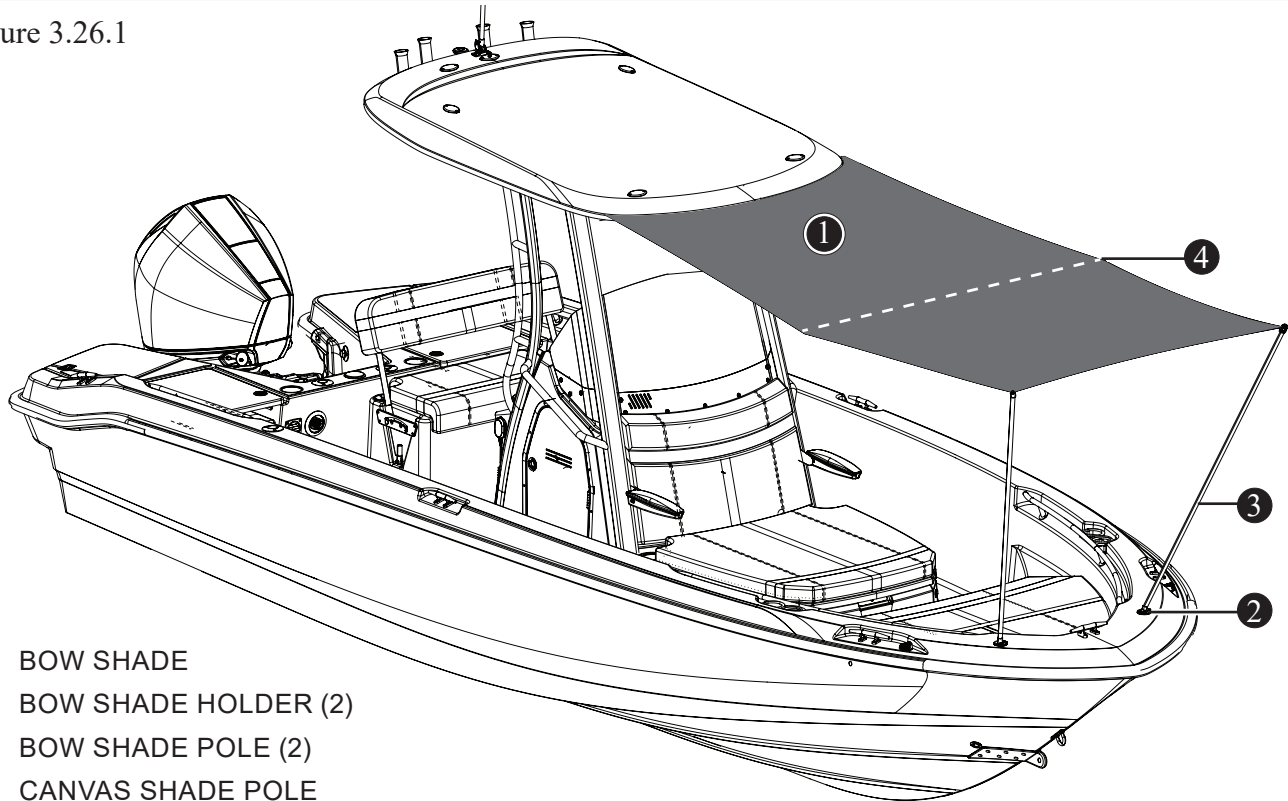
If equipped, the anchor roller (see Figure 3.25.2) allows deployment or retrieval of the anchor rode without damage to the rub rail or other equipment on the boat. This option includes a cleat for tying off the anchor rode.

Anchor Roller (Option)
Figure 3.25.2



Bow Shade (Option)

Figure 3.26.1



WARNING

Bow shade is intended for use while boat is anchored or moored, not while underway. Obstruction of navigation sidelights, damage to boat or personal injury could occur if shade is used while underway.

If equipped, set up shade as shown in Figure 3.26.1:

1. Insert two bow shade poles into bow shade pole holders.
2. Assemble two-piece canvas shade pole and insert into canvas.
3. Attach bow shade with provided clips on bow poles and the hardtop or T-top.

Follow the canvas care instructions in chapter 5, *Care and Maintenance*.

Entertainment System (Option)

The entertainment system consists of a stereo radio, waterproof speakers, and USB input. The bluetooth-enabled stereo is located at the helm.

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

Towing, Docking, Lifting and Trailering

Towing

WARNING

Towing or being towed places extreme tension on tow lines and strong points (cleats, bow stern/eyes). Do not stand directly in line with tow line. Serious injury or death and/or vessel damage may occur if towing gear fails.

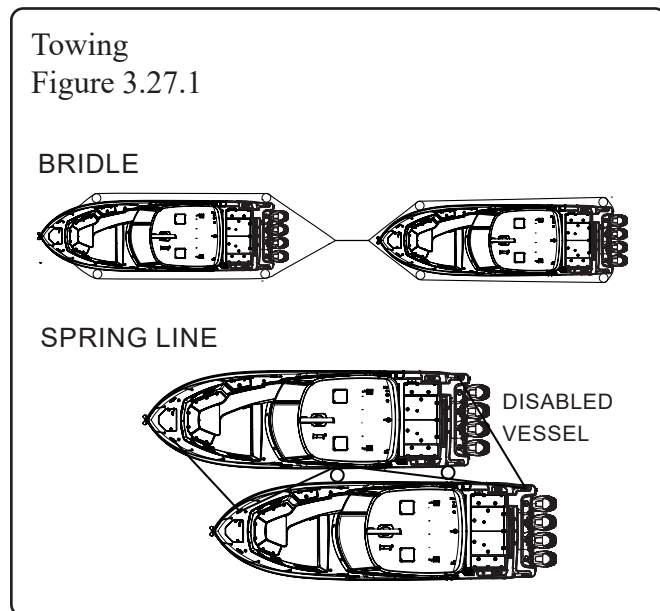
If it becomes necessary to have this vessel towed, the U.S. Coast Guard or a private salvage company experienced in this type of operation are better equipped to perform this service. Only use another recreational boat as a last resort as doing so may cause damage to one or both boats due to operator inexperience or other conditions such as weather and/or current. The other boat may assist by standing by and keeping the disabled boat's bow at the proper angle until help arrives.

When towing is necessary, create a bridle with a line around the hull or use spring lines to secure the disabled vessel to the towing vessel (see Figure

3.27.1), whenever possible. Either of these methods distributes the load over a wide area. Be sure to use fenders or other chafe protection at pressure points.

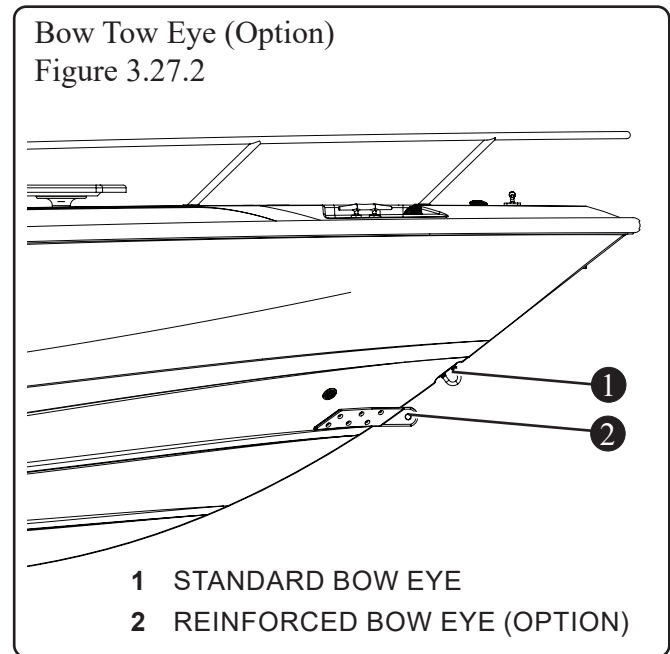
The standard bow eye (see Figure 3.27.2) is typically used to haul out and hold this vessel on a trailer. Before operating with a boat in tow, seek professional advice and/or training (e.g., USCG Auxiliary, US Power Squadrons, or BoatUS) to master towing fundamentals. While operating with a boat in tow there are several regulations and guidelines that must be followed:

- Display the proper markings and navigation lights on towing vessel and disabled vessel.
- Disabled vessel should never be larger or heavier than towing vessel.
- Ensure all tow lines/bridle are adequately sized and in good condition.
- Only secure tow lines to strong points designed for towing (bow/stern eyes, reinforced cleats).
- Designate experienced crew to monitor, identify, and manage risks.
- Always monitor WhalerWatch while towing, when installed.
- While underway, be prepared to adjust tow line length and speed to meet current conditions.



Bow Tow Eye (Option)

The optional bow tow eye, which is located on the front hull of the boat, is reinforced with a steel-backing plate (see Figure 3.27.2).



Docking and Cleats

This vessel has six cleats to use for tying up to a dock, two located at the bow, two located midship, and two located at the stern (see Figure 3.28.1). There is an additional cleat installed at the bow with the anchor roller option. While loading/unloading or mooring, learn the proper way to secure the boat and how best to use the boat's mooring points. Figure 3.28.2 shows the correct method for tying a belaying knot, commonly used to secure a boat to a dock. This knot holds fast and is simple to release when needed.

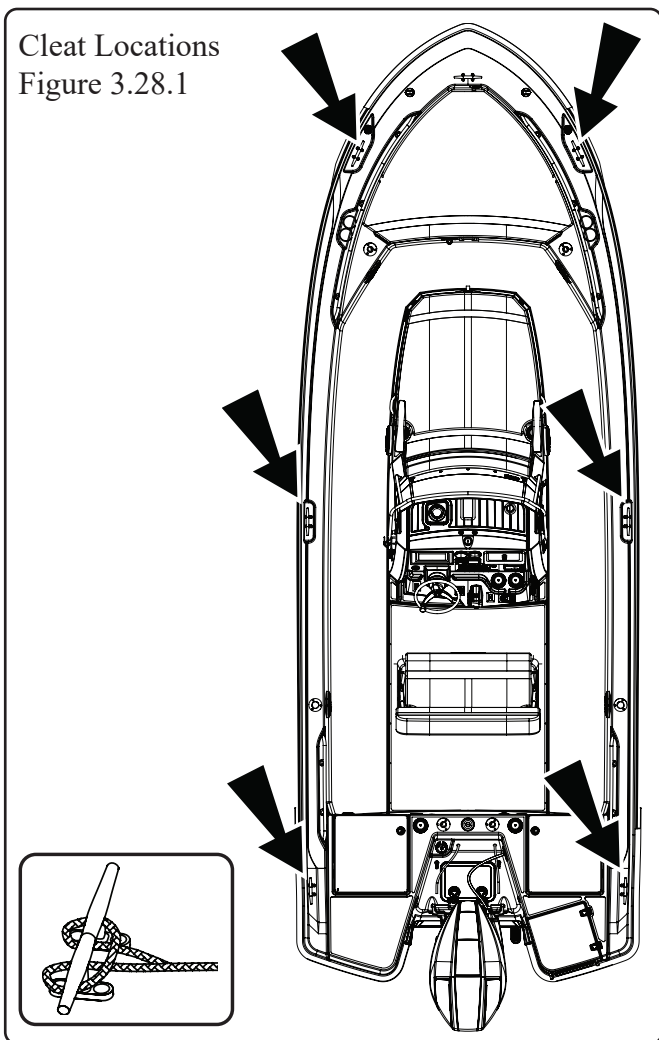
⚠ DANGER

Use lifting points specified only. Using cleats for lifting could cause serious injury or death.

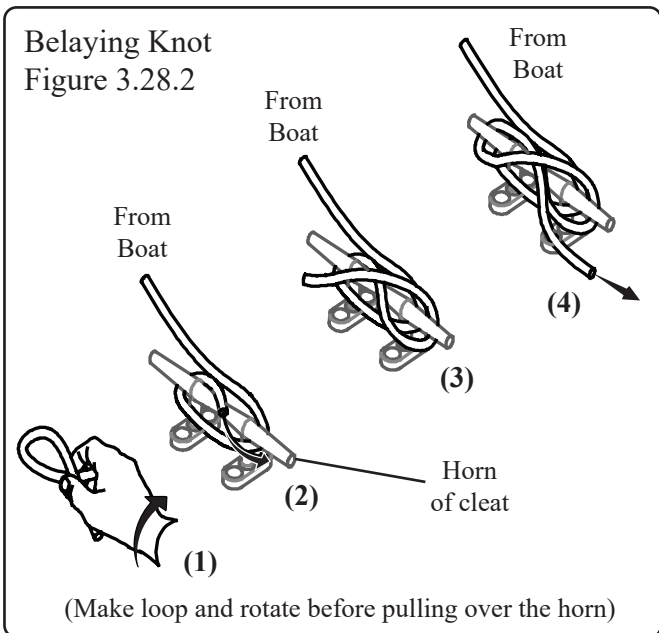
⚠ CAUTION

Do not lift with bow and stern eyes as this places significant stress on fiberglass and gel coat.

Cleat Locations
Figure 3.28.1



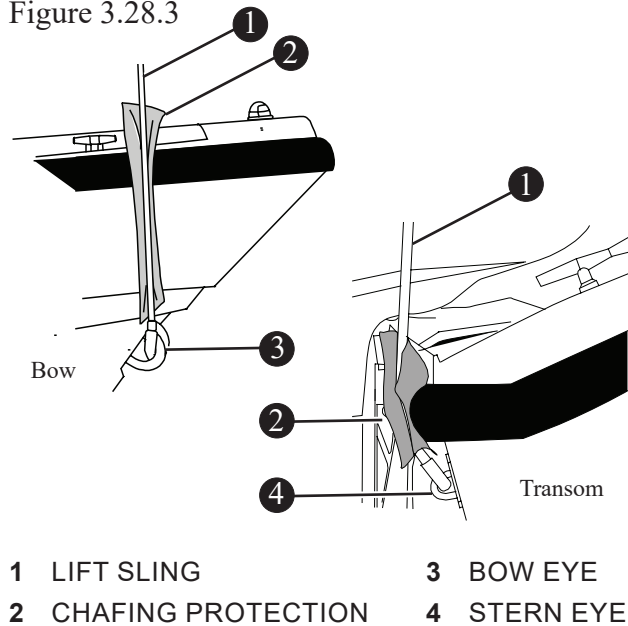
Belaying Knot
Figure 3.28.2



Lifting

The bow eye is used to haul this vessel out of the water onto a trailer and hold it there. The stern eyes are used as tie down points while trailering. The bow and stern eyes may be used only for short-term lifting of the boat such as servicing (see Figure 3.28.3). For long-term lifting or storage, use flat, wide belt-type slings and spreaders long enough to keep pressure from gunwales. Do not allow slings to contact underwater fittings.

Short-term Lifting
Figure 3.28.3



Whether lifting this vessel out of the water for routine maintenance or long-term storage, consider the following:

- If using a professional lifting service, check all credentials and ask for proof of insurance.
- Use a wide, flat, belt-type sling for lifting to minimize stress on the gunwales. Careful location of the sling is required. Sling labels are installed at four spots on the gunwale that should be used as a guide for sling placements.
- If using a lifting hook, attach to bow and stern lifting eyes.
- Use a spreader bar on the stern eyes and use chafing protection on the top of the transom.
- All drain plugs should be removed and bow positioned slightly higher than stern for draining.

Trailer

DANGER

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

CAUTION

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

NOTICE

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

This vessel has the option of being fitted with an aluminum bunk trailer (see Figure 3.30.1) which is tailored to the boat's length and width. If you have a trailer or plan on purchasing a trailer separately; there are some points to consider, such as:

- Having a center roller and keel guards helps provide good support for the keel, and provides good fore and aft support.
- Trailers equipped with rollers instead of bunks can damage the foam sandwich hull of this vessel and should never be used.
- Bunks provide more even weight distribution (see Figure 3.30.1).

Securing Boat to 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

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.

Engine Trailing

CAUTION

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

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

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

Securing Trailer to Tow Vehicle

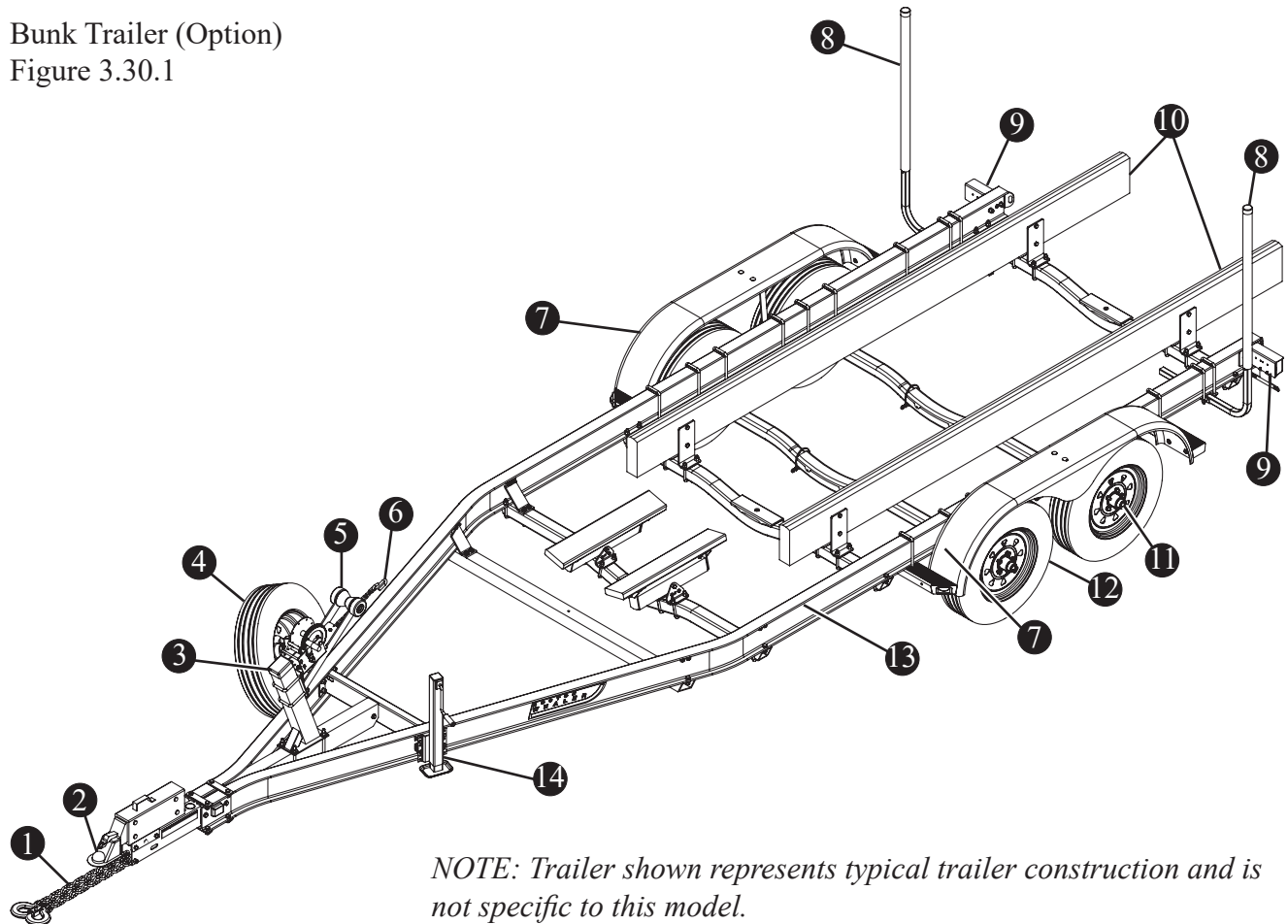
Safety Chains

The trailer's safety chains should be of sufficient length to reach the frame of the tow vehicle and also allow the tow vehicle to turn without binding.

Trailer Hitch

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

Bunk Trailer (Option)
Figure 3.30.1



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

DC Electrical System

This vessel's electrical system is powered by a series of batteries that are charged when the vessel is running. Battery power is used for engine ignition, switches, lighting, livewell, as well as for the trim/tilt, freshwater, raw water, and stereo systems.

Batteries

⚠ DANGER

Batteries contain hazardous substances which can cause serious injury. Avoid contact with skin, eyes, and clothing. If contact occurs, immediately flush with large quantities of water and obtain medical assistance.

NOTICE

Always store the batteries in the battery trays. Use the retaining straps to keep the batteries secure while underway.

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

The following table is for reference purposes only. Use only AGM batteries with Mercury engines.

Application	Group	Volts	MCA*	RC 25	Qty.**
USA (SAE)	31	12	800	135 min	2

* Marine Cranking Amps

** Trolling motor option adds three more batteries

Application	Group	Volts	CCA*	Reserve	Qty.**
Int'l (EN)	31	12	975	65Ah	2

* Cold Cranking Amps

** Trolling motor option adds three more batteries

NOTICE

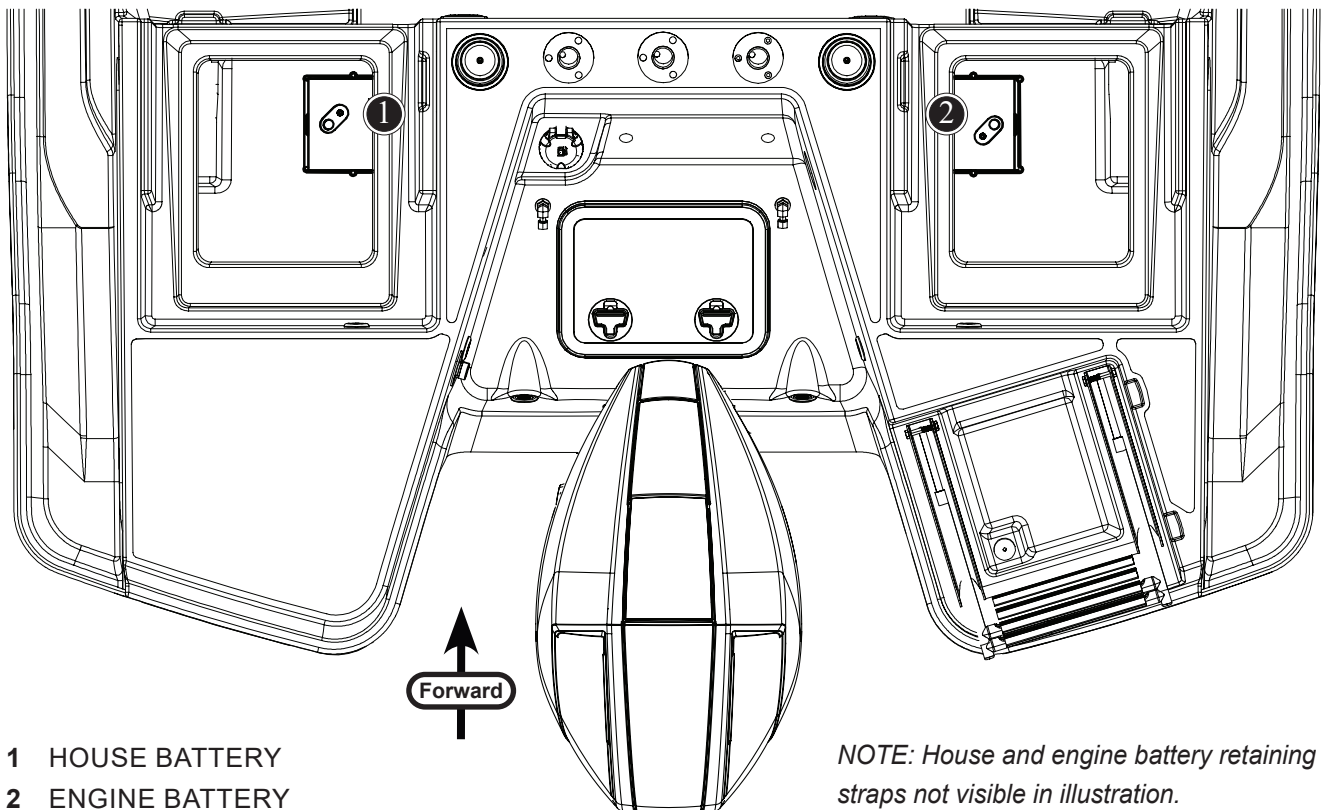
Ensure batteries meet Mercury's AGM and CCA requirements.

Battery Trays and Boxes

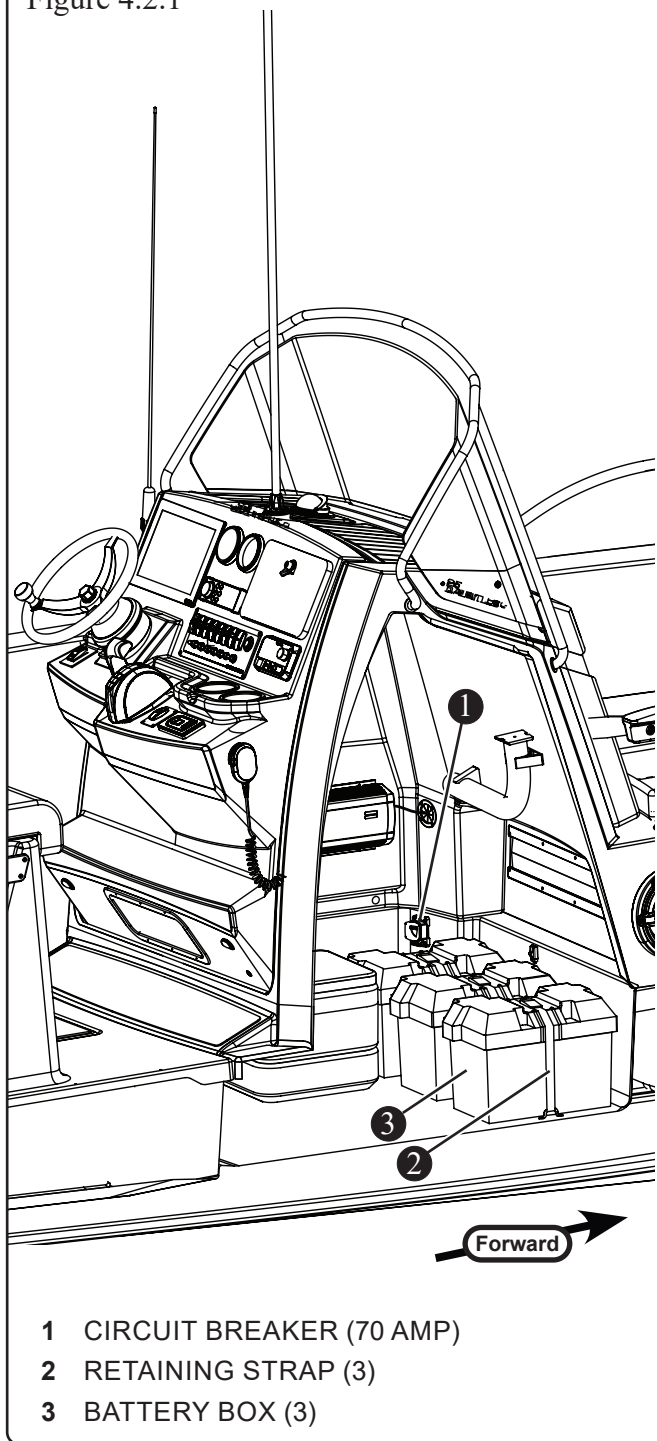
The house and engine batteries are located under the stern seats (see Figure 4.1.1) in battery trays. If the trolling motor option is included, three battery boxes are installed inside the console (see Figure 4.2.1).

To remove a battery, remove the retaining straps (from battery tray or battery box); disconnect cable from negative terminal first, followed by positive cable.

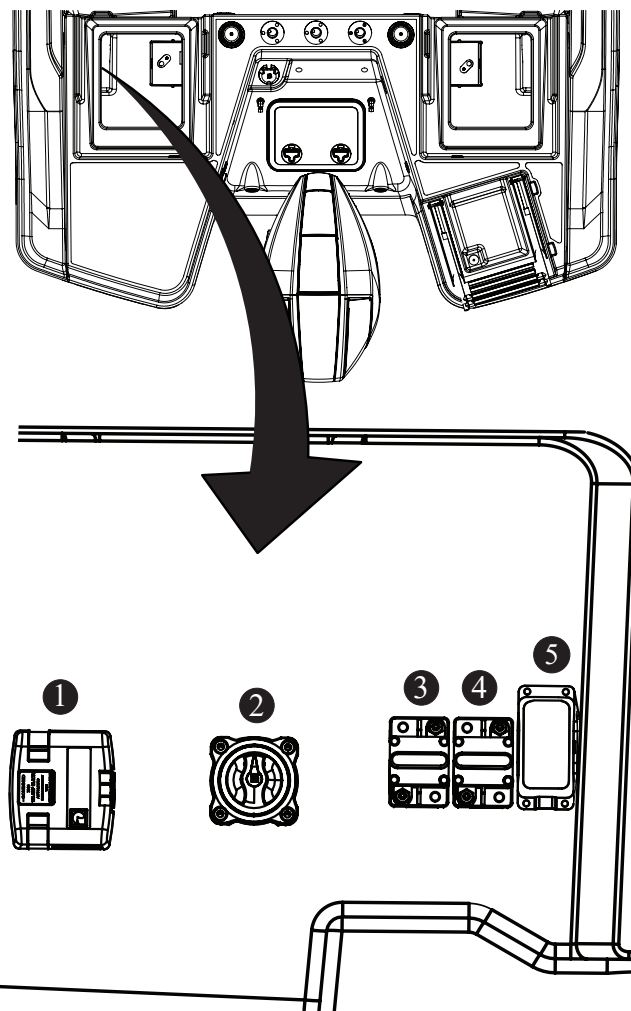
House and Engine Batteries
Figure 4.1.1



Trolling Motor Battery Box (Option)
Figure 4.2.1



Battery Switch
Figure 4.2.2



- 1 AUTOMATIC CHARGING RELAY (ACR)
- 2 BATTERY SWITCH
- 3 MAIN DC CIRCUIT BREAKER (80A)
- 4 AMPLIFIER BREAKER (80A) (OPTION)
- 5 BREAKER BOX¹

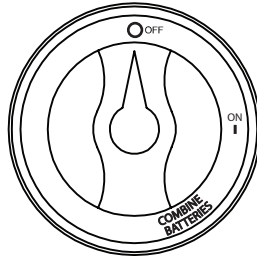
¹Includes fuses for main bilge pump (5A) and optional auxiliary bilge pump (5A)

Battery Switch

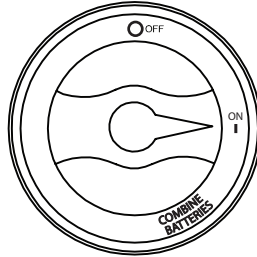
This vessel uses a battery switch (see Figure 4.2.2). to control delivery of DC power from the house and engine batteries. The battery switch is located under the port stern seat. The battery switch settings are detailed in Figure 4.3.1.

Battery Switch Settings Figure 4.3.1

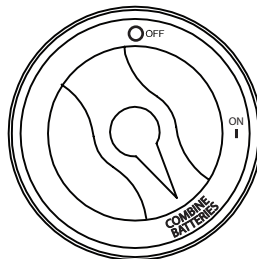
OFF - No power to the house and engine systems.



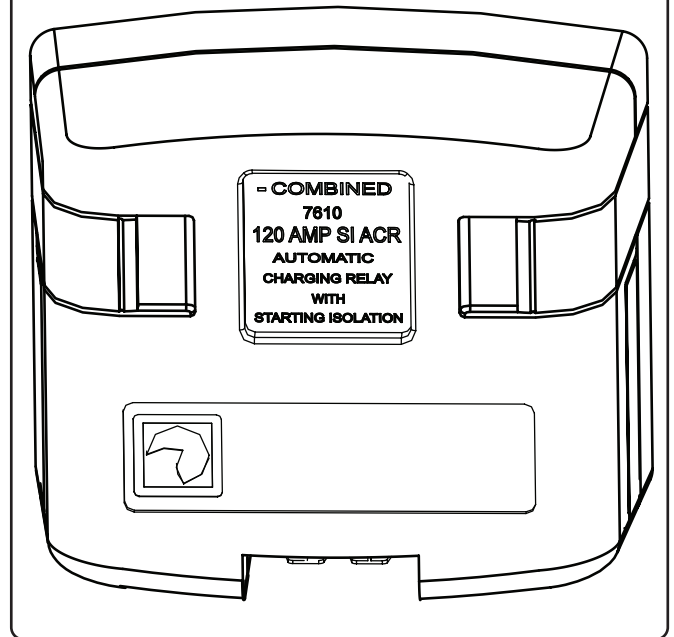
ON - Power to the house and engine systems.



COMBINE BATTERIES
- This combines the engine and house batteries to assist with engine starting.



Automatic Charging Relay (ACR) Figure 4.3.2



WARNING

Do not operate boat with batteries in combined batteries position once the engine is started or serious engine electrical damage may result.

WARNING

Use combined batteries position only if all batteries are near the same voltage. If one battery is strong and another weak, high current could cause battery damage.

Automatic Charging Relay (ACR)

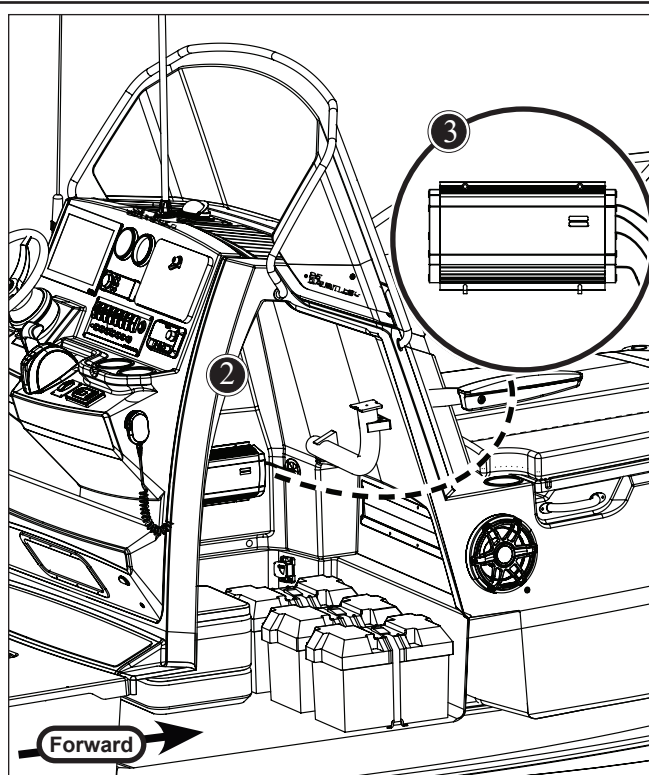
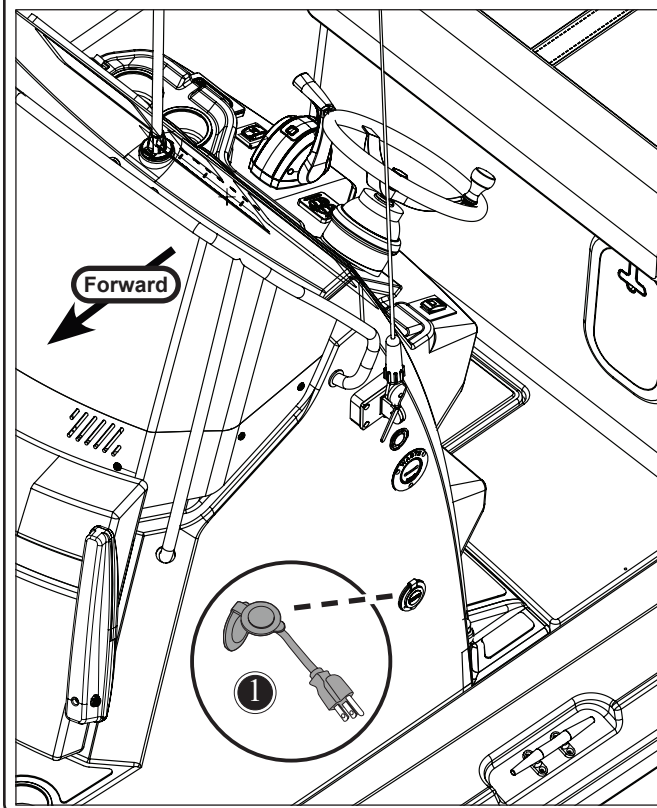
Batteries are automatically connected in parallel through the use of an automatic charging relay (see Figure 4.2.2 and Figure 4.3.2) when a sufficient charging source is present. The battery locations are automatically isolated when the charging source falls below a certain voltage level for a predetermined amount of time. Using an automatic charging relay eliminates the need to monitor battery voltage and manually parallel multiple batteries.

Battery Charging System (Option)

This vessel may be equipped with a battery charging system (see Figure 4.4.1) which is available with the trolling motor option, and only charges the trolling motor batteries. Connect the battery charger cord to a dockside GFCI outlet to charge batteries. Completely draining the batteries before recharging shortens battery life. For maintenance information refer to chapter 5, *Care and Maintenance*.

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

Battery Charging System (Option)
Figure 4.4.1



- 1 BATTERY CHARGER CORD (OPTION)
- 2 CONSOLE STORAGE (DOOR NOT SHOWN)
- 3 BATTERY CHARGER

⚠ CAUTION

- No open flame in battery storage area.
- Avoid striking sparks near the battery.
- A battery will explode if flame or spark ignites hydrogen given off during charging.
- Battery should always be disconnected before doing any work or maintenance on the electrical system.
- Never reset a circuit breaker without first determining and correcting trip cause. Should a circuit repeatedly trip, have a qualified electrician determine and correct the cause.
- If battery switch equipped, stop engine before moving switch to off position.

⚠ DANGER

To avoid serious injury or death from fire explosion or electrical shock, only connect charger to a GFCI-protected outlet.

NOTICE

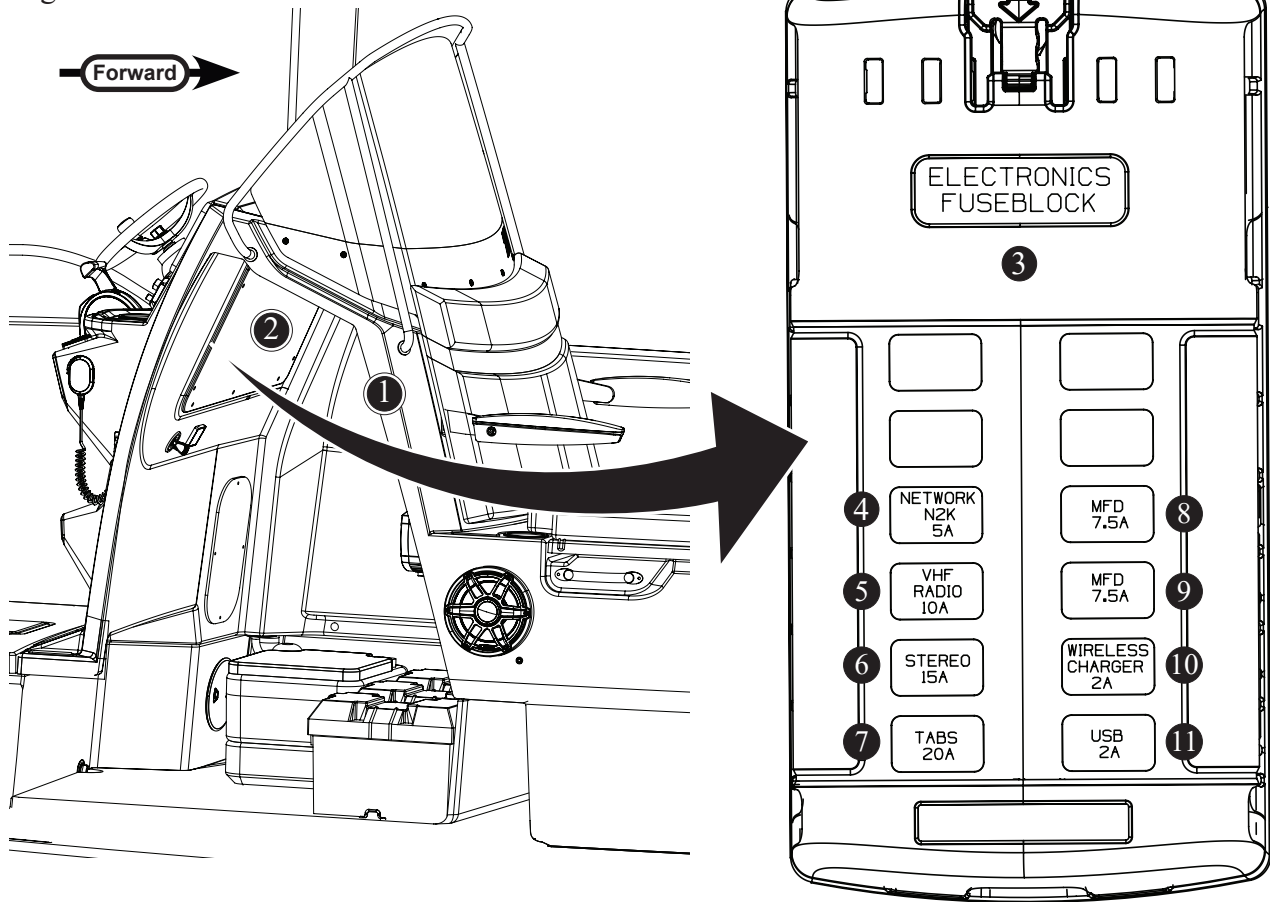
Use a heavy duty UL-approved extension cord to connect dock to battery charger cord. After connecting extension cord to charger cord, plug extension cord into 120VAC GFCI outlet. When charging is complete, always disconnect extension cord from 120VAC outlet before disconnecting charger cord.

Fuse Block

The fuse block can be accessed through the fuse block access panel in the console interior (see Figure 4.5.1). In the event fuse replacement is required, only replace with one of the same amperage. 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 blow the fuse. 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.

Console Storage Fuse Block

Figure 4.5.1



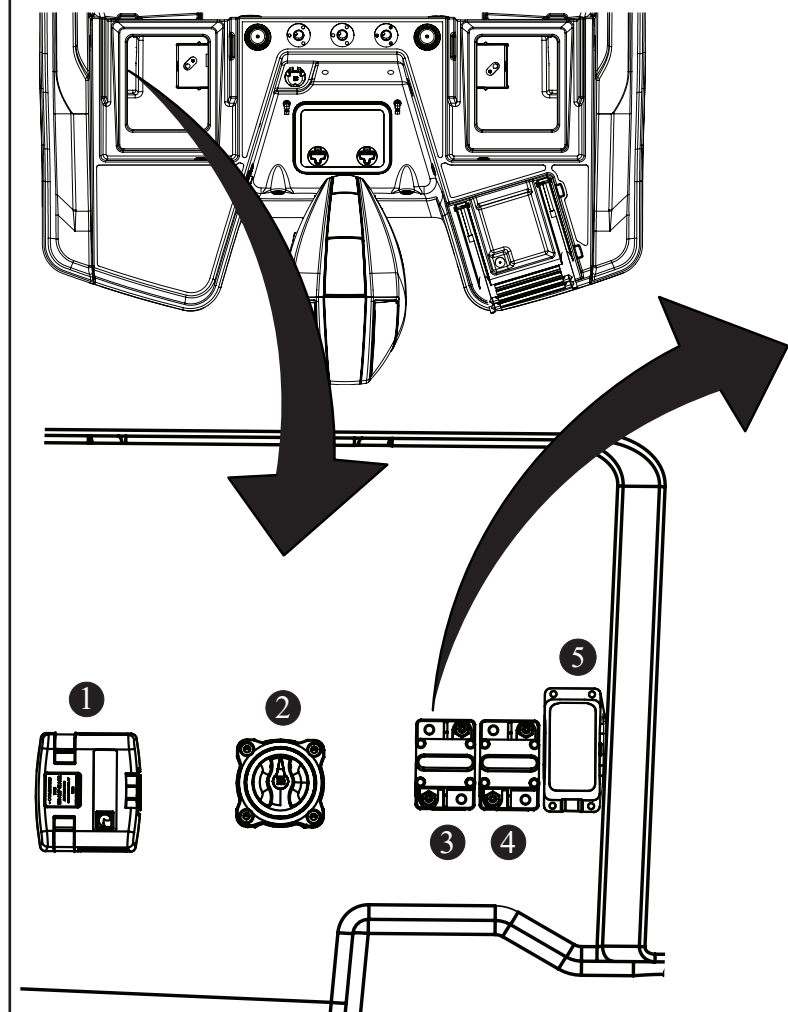
- | | |
|--------------------------------------|----------------------------------|
| 1 CONSOLE STORAGE (DOOR NOT SHOWN) | 7 TRIM TABS (20A) (OPTION) |
| 2 FUSE BLOCK ACCESS PANEL | 8 HELM DISPLAY 1 (7.5A) (OPTION) |
| 3 FUSE BLOCK | 9 HELM DISPLAY 2 (7.5A) (OPTION) |
| 4 MARINE COMM. NETWORK (5A) (OPTION) | 10 PHONE CHARGER (2A) |
| 5 VHF RADIO (10A) (OPTION) | 11 USB OUTLET (2A) |
| 6 STEREO (15A) (OPTION) | |

Main DC Circuit Breaker

The main DC circuit breaker switch is located under the port stern seat (see Figure 4.6.1). If the circuit breaker trips, determine and correct the problem prior to resetting the circuit breaker. To reset the circuit breaker, rotate the switch to the *ON* position.

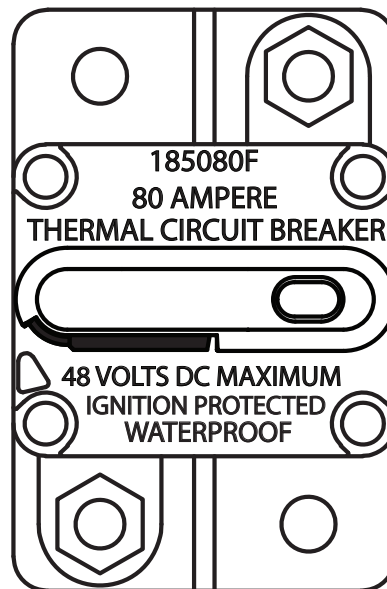
⚠ WARNING
Use of higher amperage fuses or breakers is a fire hazard. Use fuses and breakers having the same amperage rating as the original or as specified.

Main DC Circuit Breaker
 Figure 4.6.1

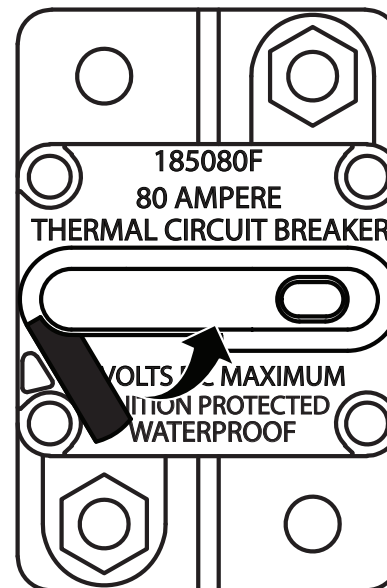


- 1 AUTOMATIC CHARGING RELAY (ACR)
- 2 BATTERY SWITCH
- 3 MAIN DC CIRCUIT BREAKER (80A)
- 4 AMPLIFIER BREAKER (80 AMP) (OPTION)
- 5 BREAKER BOX

CIRCUIT BREAKER ON POSITION

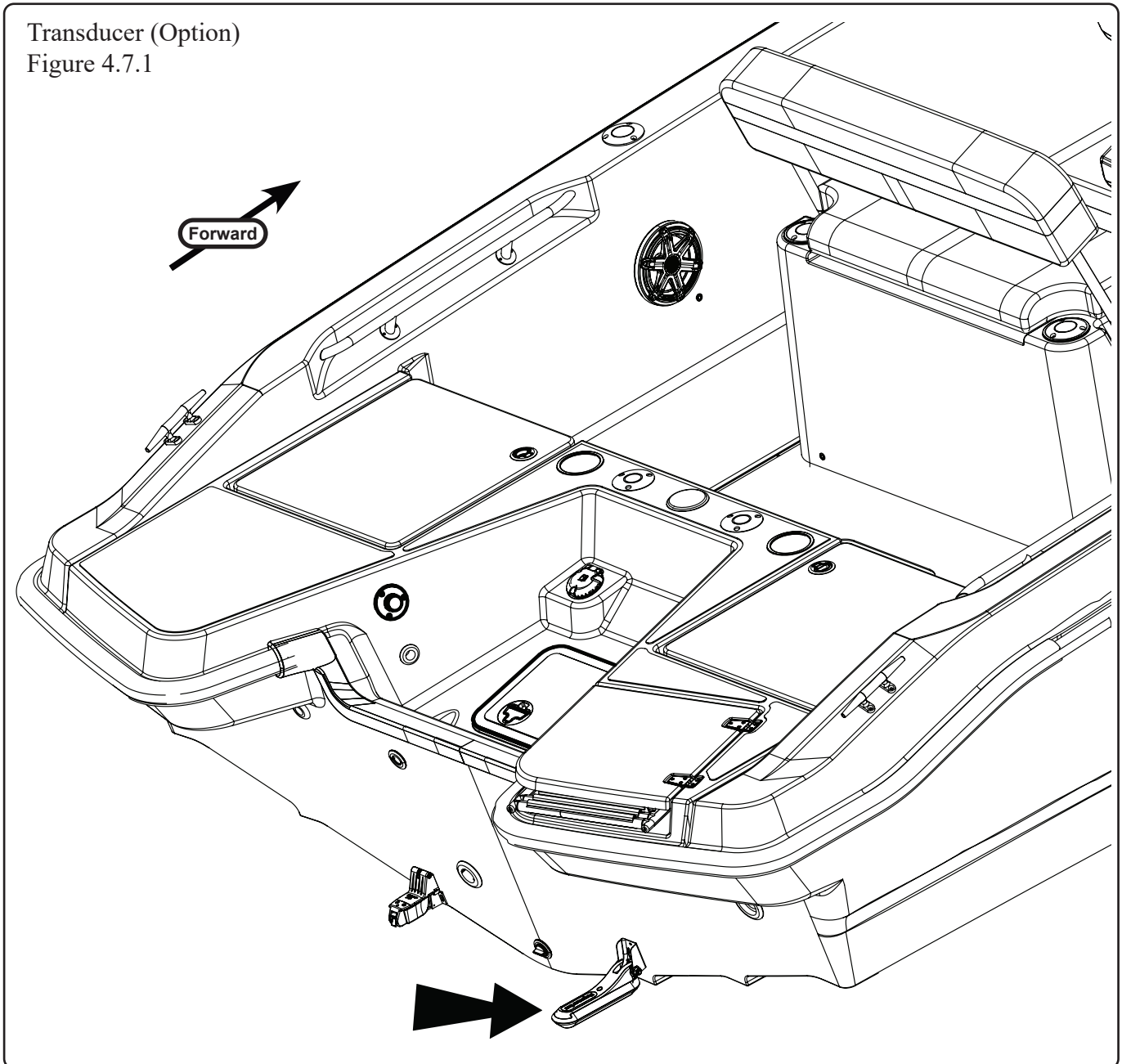


CIRCUIT BREAKER
 TRIPPED (OFF) POSITION



Transducer (Option)

If equipped, the transducer is located on the transom and acts as an antenna for the sonar system, sending sound waves through the water, bouncing off objects, and returning a signal (see Figure 4.7.1). Should after market installation be required, contact a Boston Whaler dealer for details on the correct mounting location.

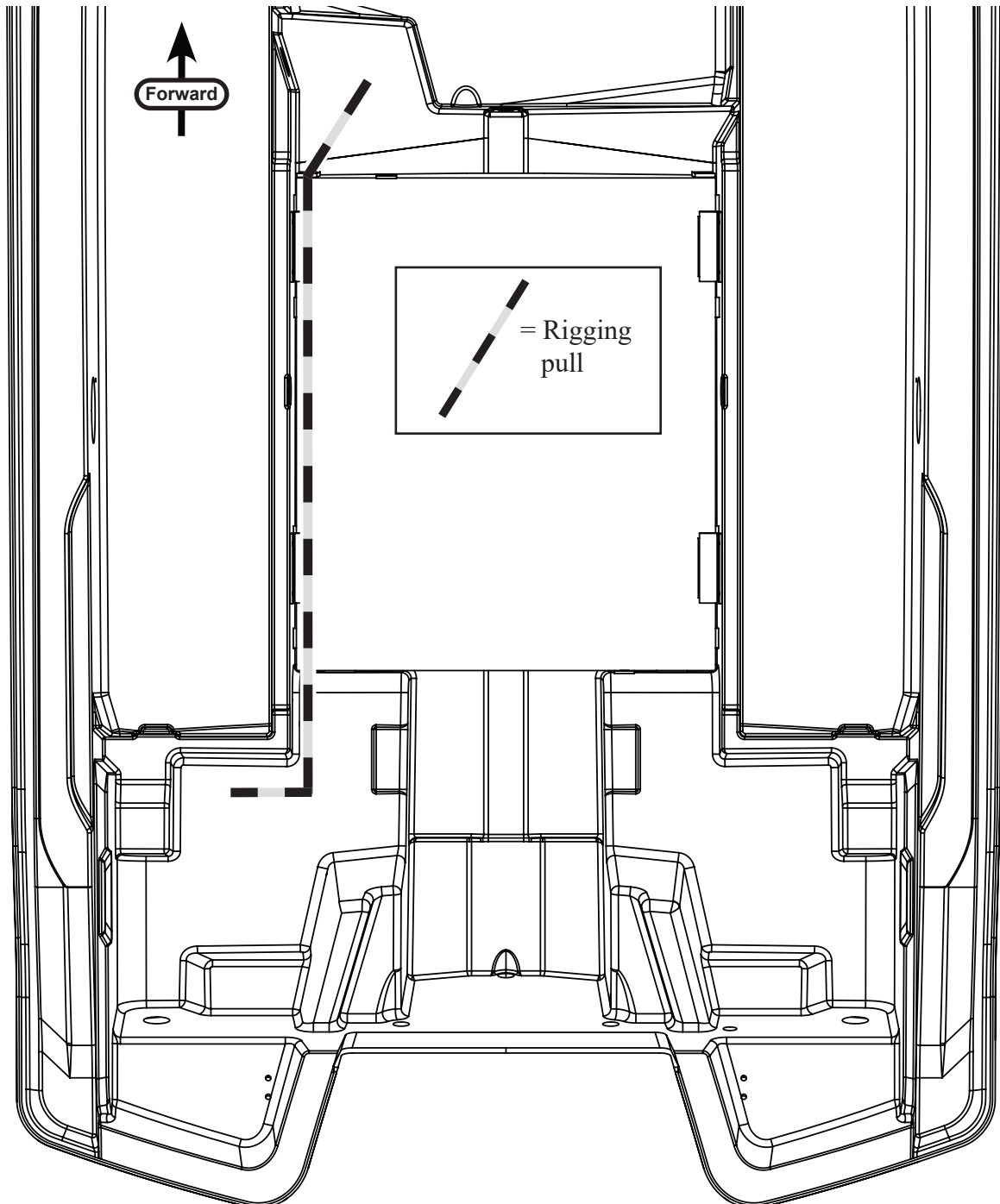


Rigging Pull

A factory-installed rigging pull is provided to assist with the running of new wiring (see Figure 4.8.1). This vessel is equipped with a rigging pull tied off at either end of the rigging trough. When using a rigging pull, be sure to attach a cord to each run of the new wiring to ensure a new pull is in place for future use.

For further information on rigging pulls, contact your dealer or Boston Whaler.

Rigging
Figure 4.8.1



Chapter 4 • Electrical

Wiring

Boston Whaler adheres to electrical wiring requirements that meet ABYC E-11 standards. The following table details the color and function of wiring used.

Wire Color Chart for DC and Special Circuit

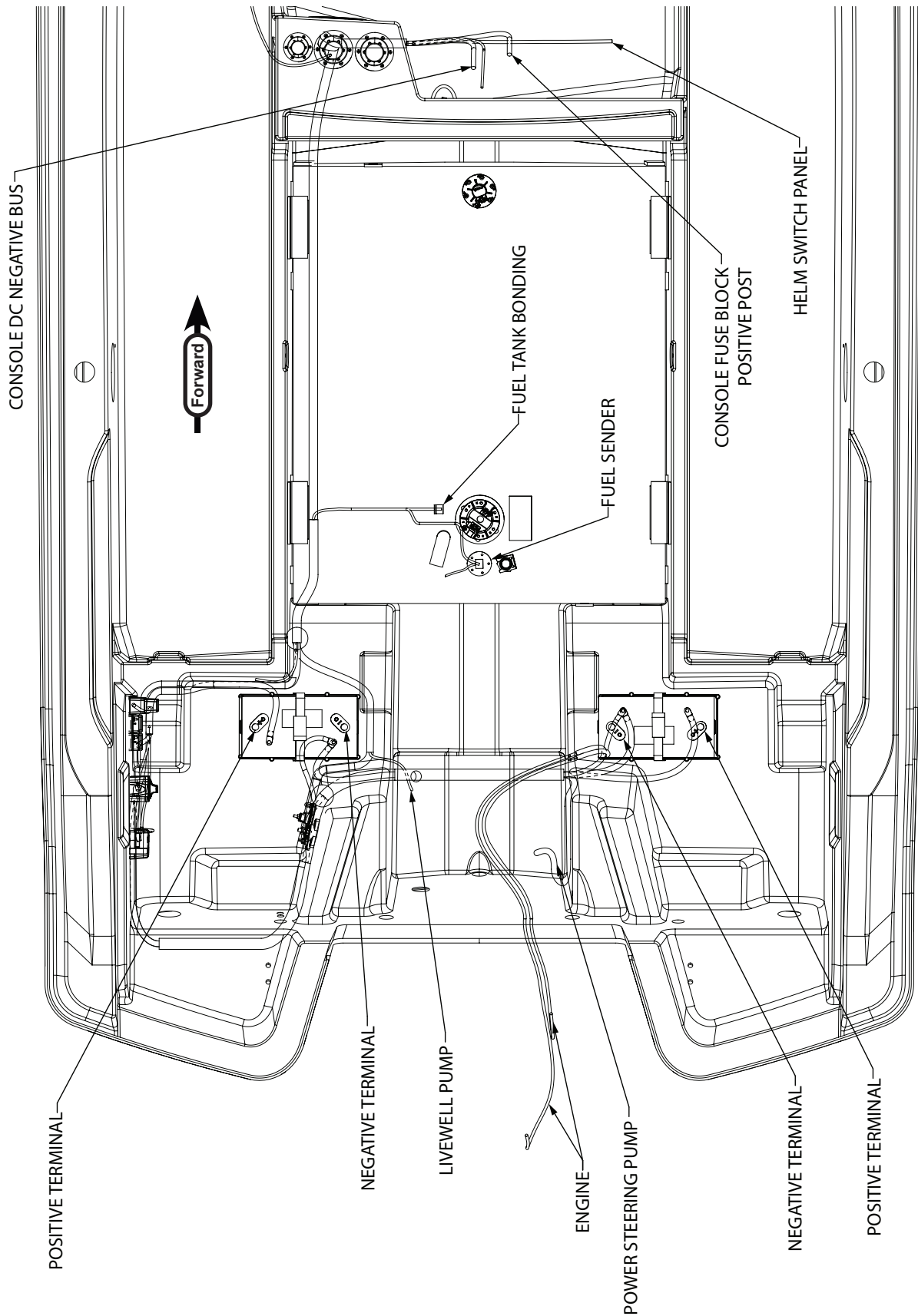
COLOR	FUNCTION	COLOR	FUNCTION
RED	MAIN FEEDS	BROWN/RED	LIVEWELL PUMP
RED	+12V MAIN	BROWN/WHITE	BILGE PUMP (SWITCHED)
RED	12V RECEPTACLE.	GREY	RUNNING LIGHTS
RED	TRIM TAB (SWITCHED)	GREY/WHITE	ALL-ROUND LIGHT
BLACK	GROUND	GREEN	GROUNDING/BONDING
BLUE	COMPASS LIGHT	ORANGE	HORN
BLUE/RED	DOME LIGHT	PINK	FUEL SENDER
BLUE/RED	LIVEWELL LIGHT	VIOLET	IGNITION
BLUE/RED	COURTESY LIGHTS (BLUE)	WHITE/RED	PORT TRIM TAB
BLUE/WHITE	COURTESY LIGHTS (WHITE)	WHITE/GREEN	STBD TRIM TAB
BROWN	BILGE PUMP (UNSWITCHED)	YELLOW	STEREO MEMORY
BROWN/GREEN	FRESHWATER	YELLOW/RED	START
BROWN/GREY	RAW WATER		

Electrical Schematics

The harness illustrations and schematics on the following pages are for reference and to be used by Boston Whaler service technicians. Boston Whaler reserves the right to change or update the electrical system on any model at any time without notice. In addition, Boston Whaler is not obligated to make any updates to units built prior to a change.

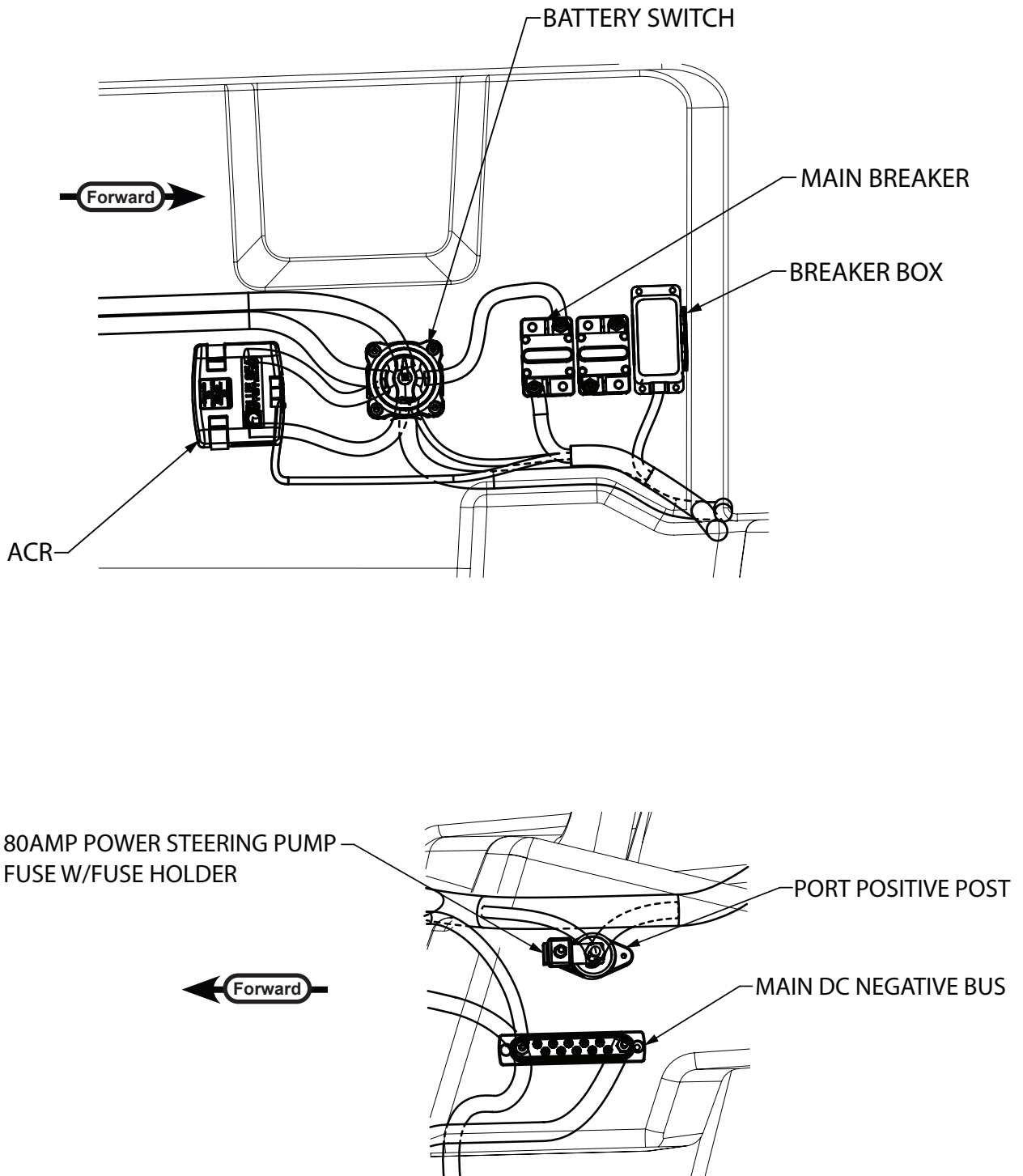
DC Main Harness (Page 1 of 3)

Figure 4.10.1

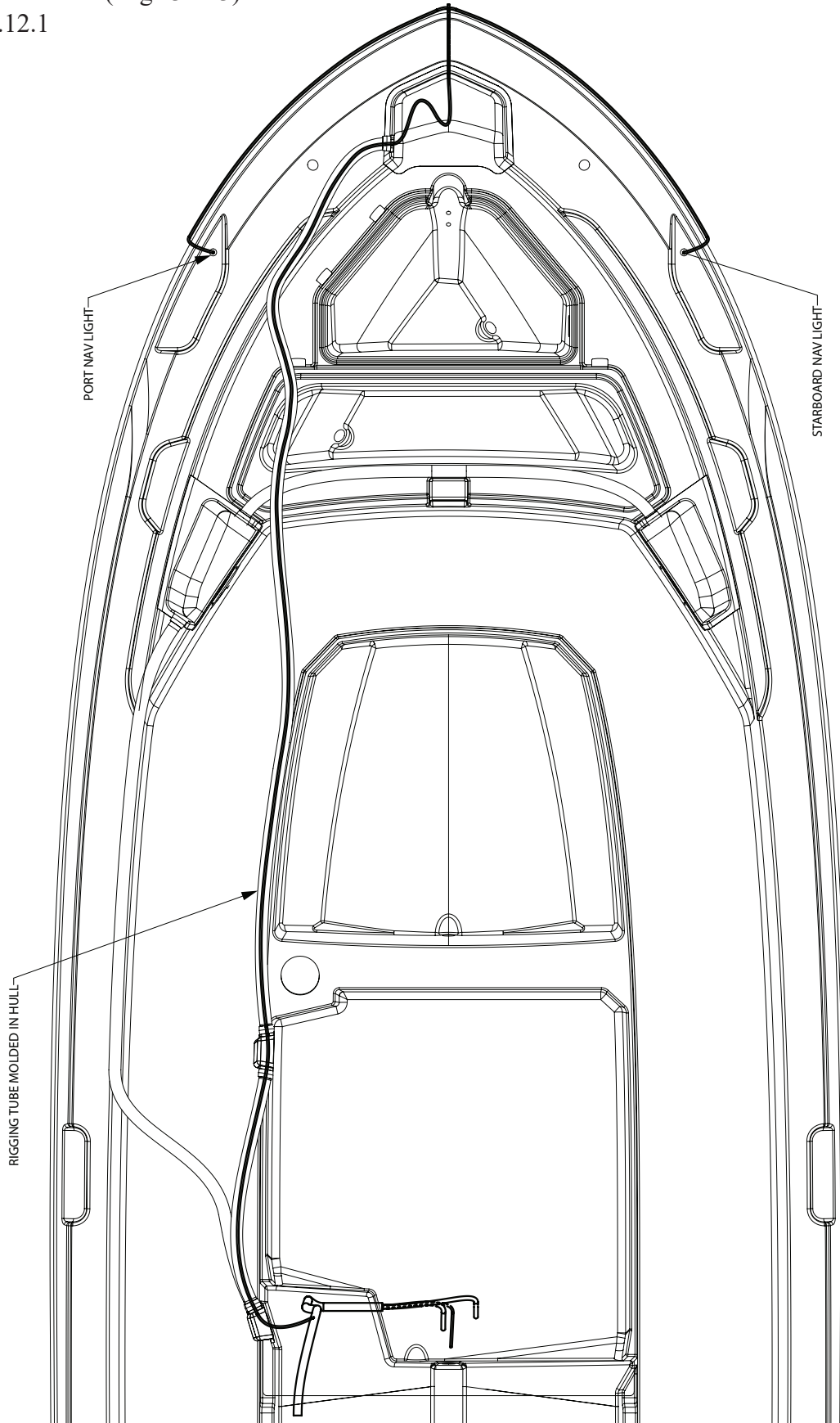


DC Main Harness (Page 2 of 3)

Figure 4.11.1

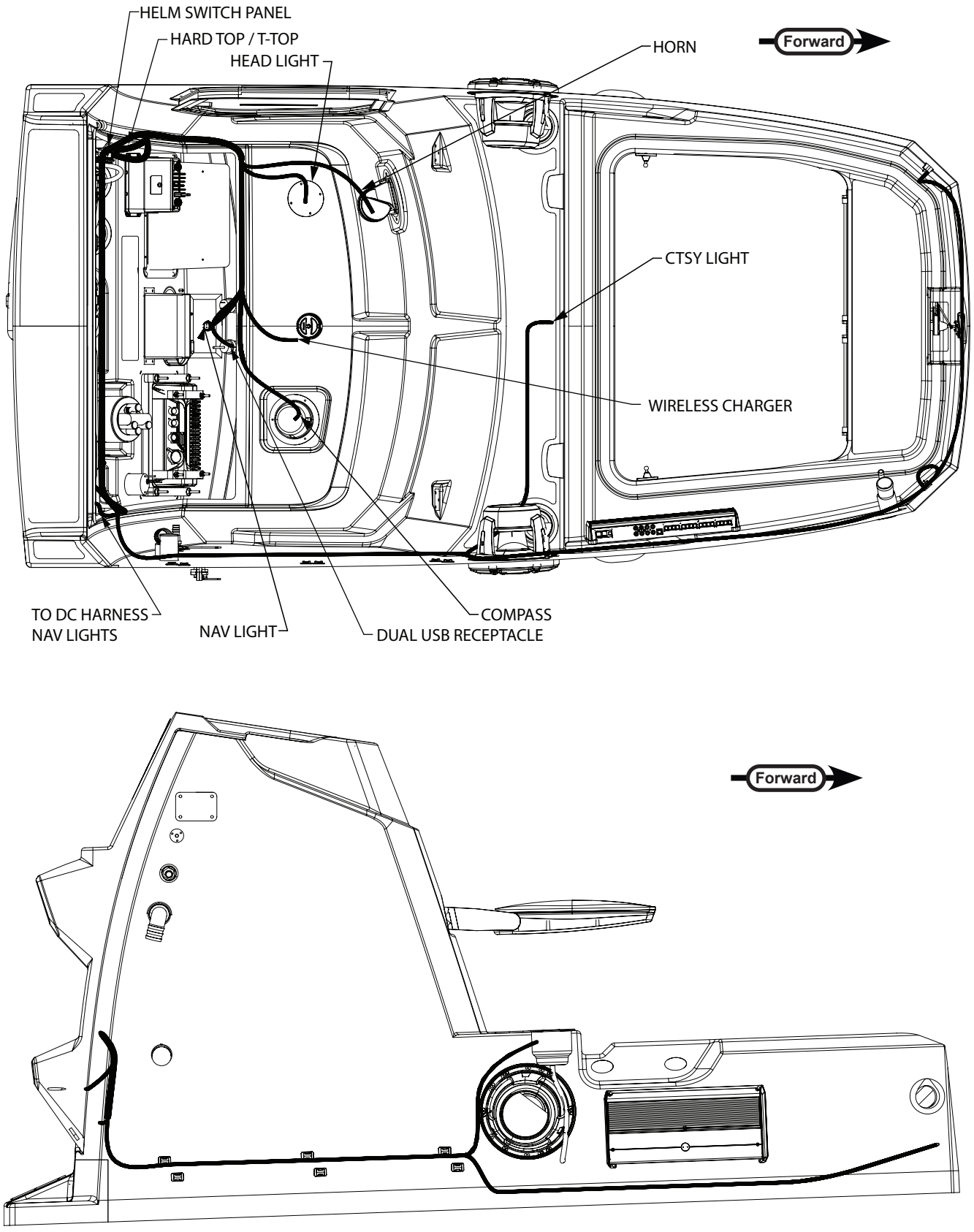


DC Main Harness (Page 3 of 3)
Figure 4.12.1

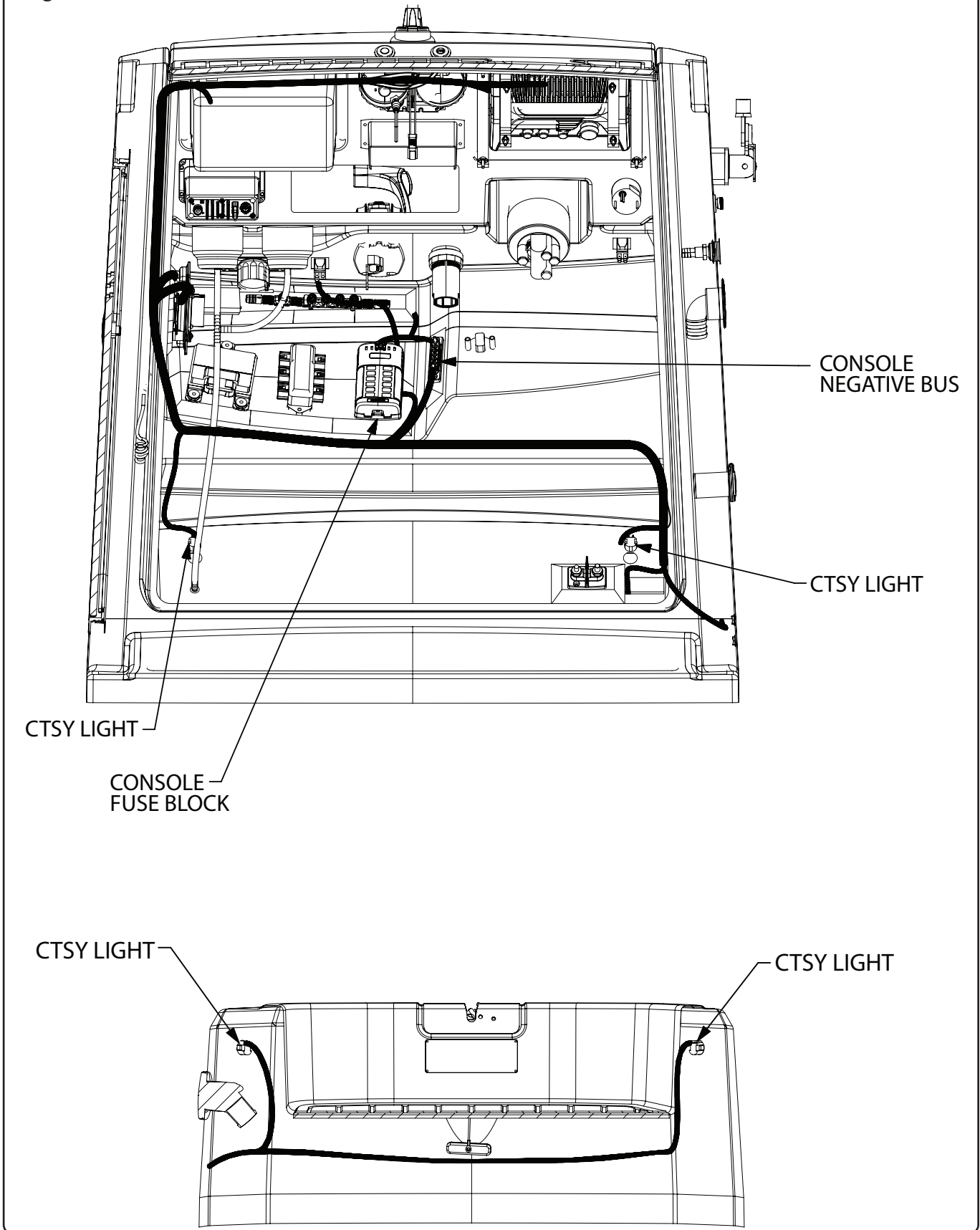


Console Harness (Page 1 of 2)

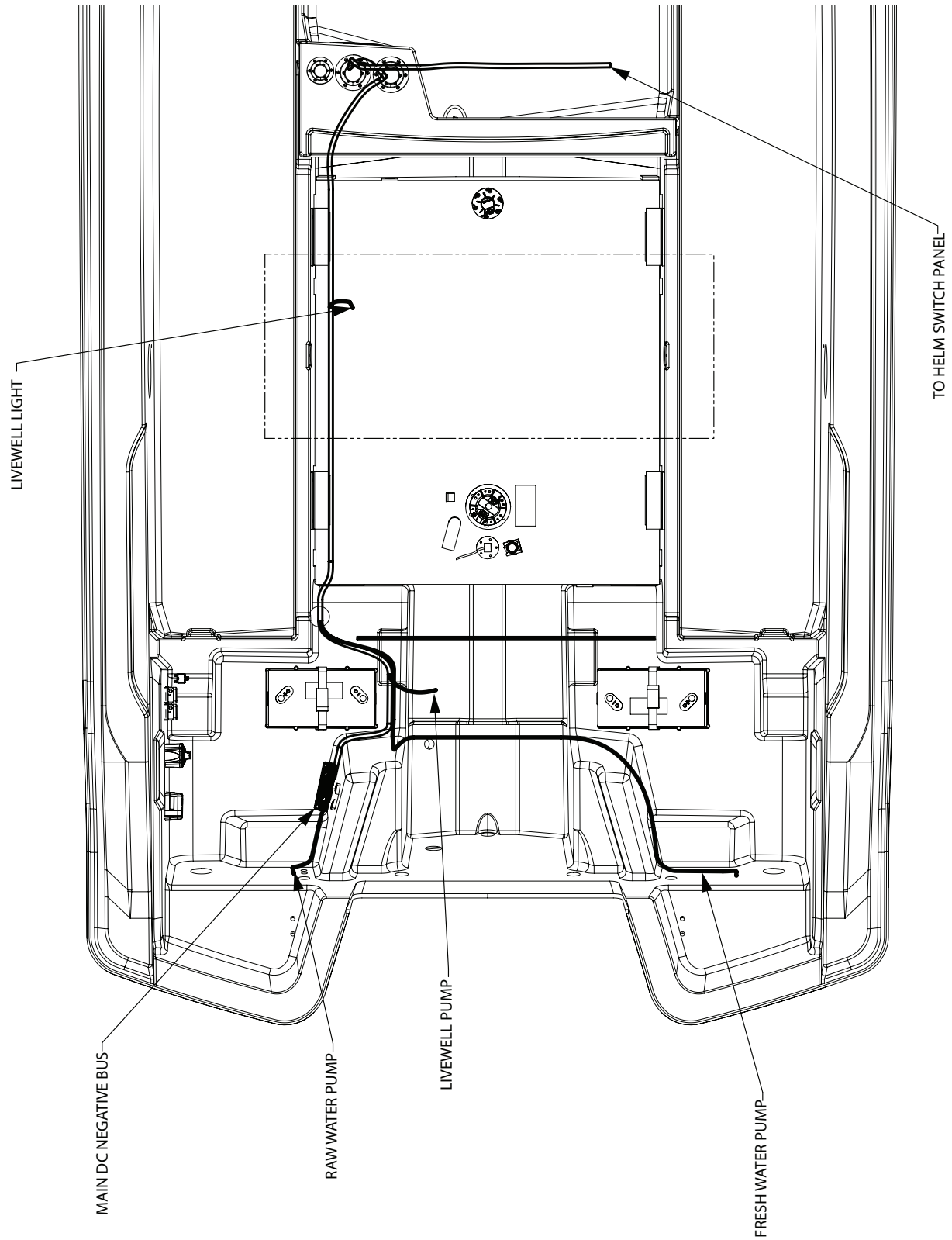
Figure 4.13.1



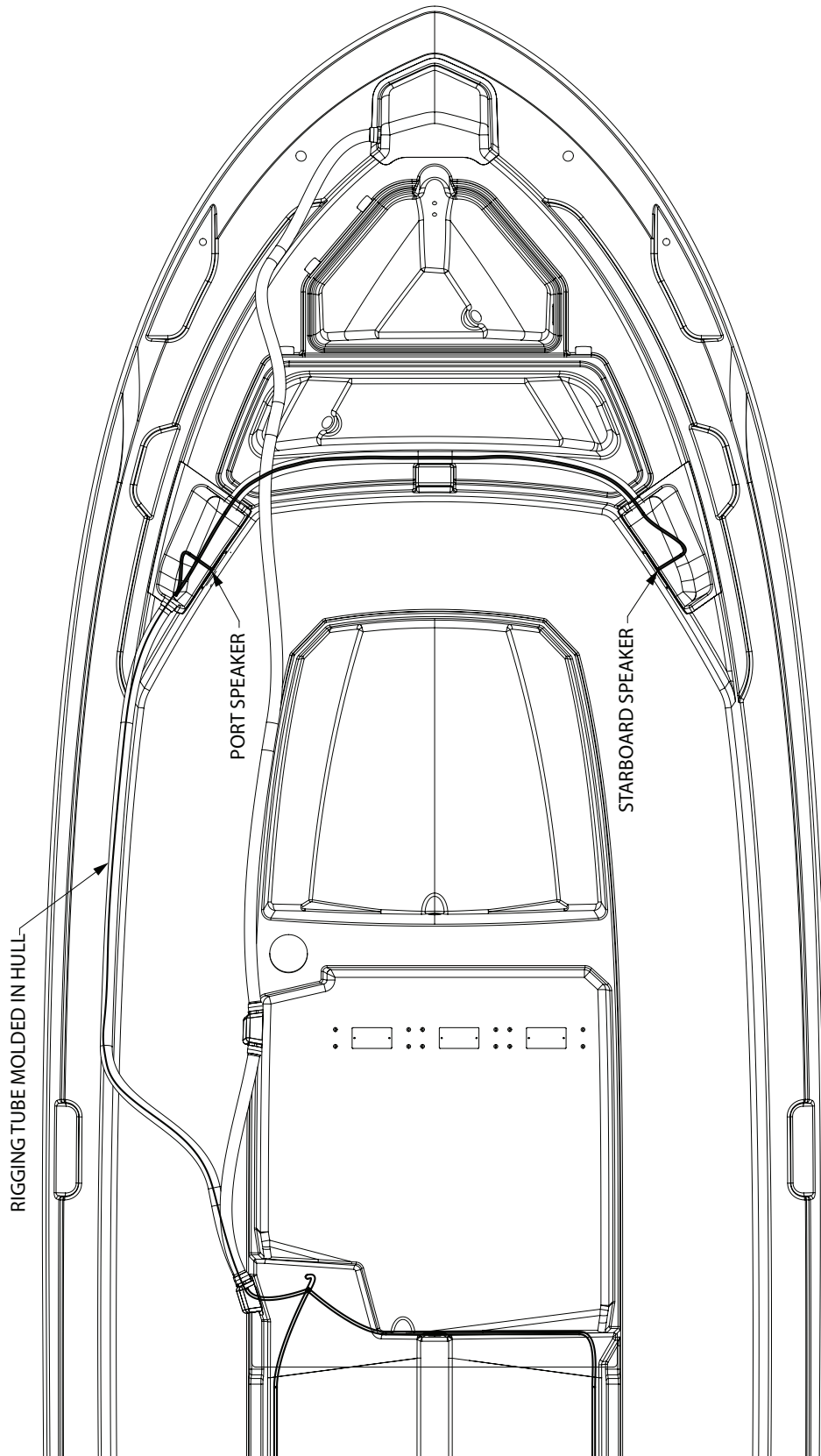
Console Harness (Page 2 of 2)
Figure 4.14.1



Water System Harness (Option)
Figure 4.15.1

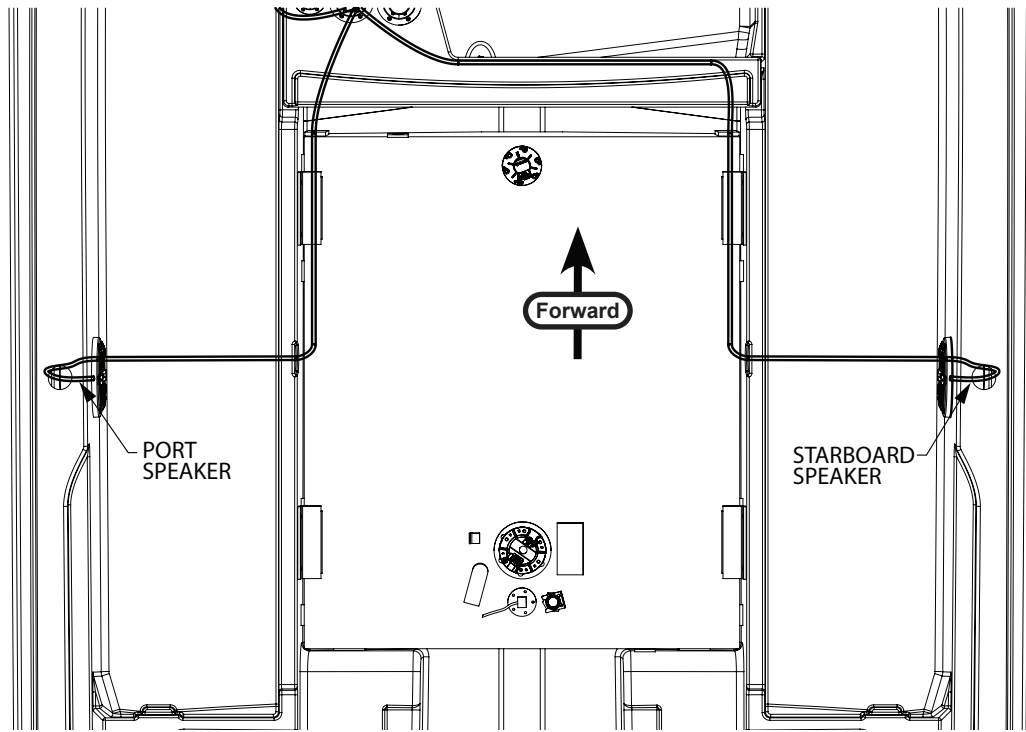


Stereo Speaker Harness (Page 1 of 2) (Option)
Figure 4.16.1



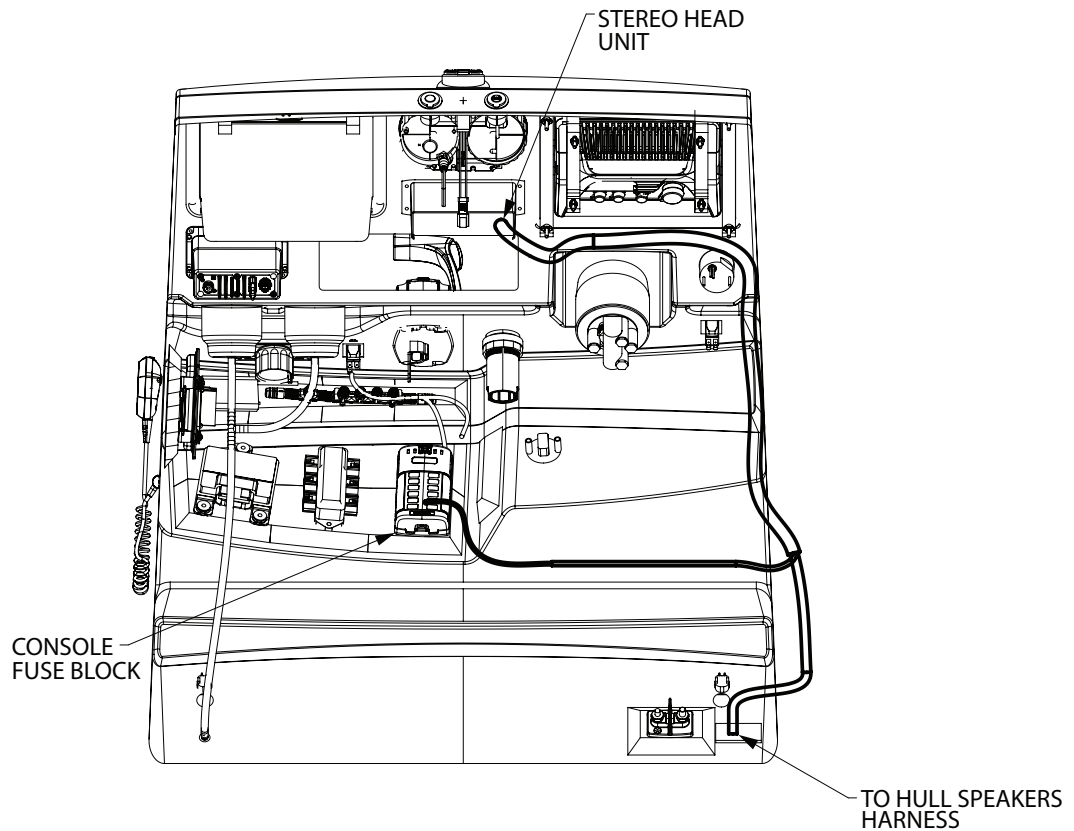
Stereo Speaker Harness (Page 2 of 2) (Option)

Figure 4.17.1



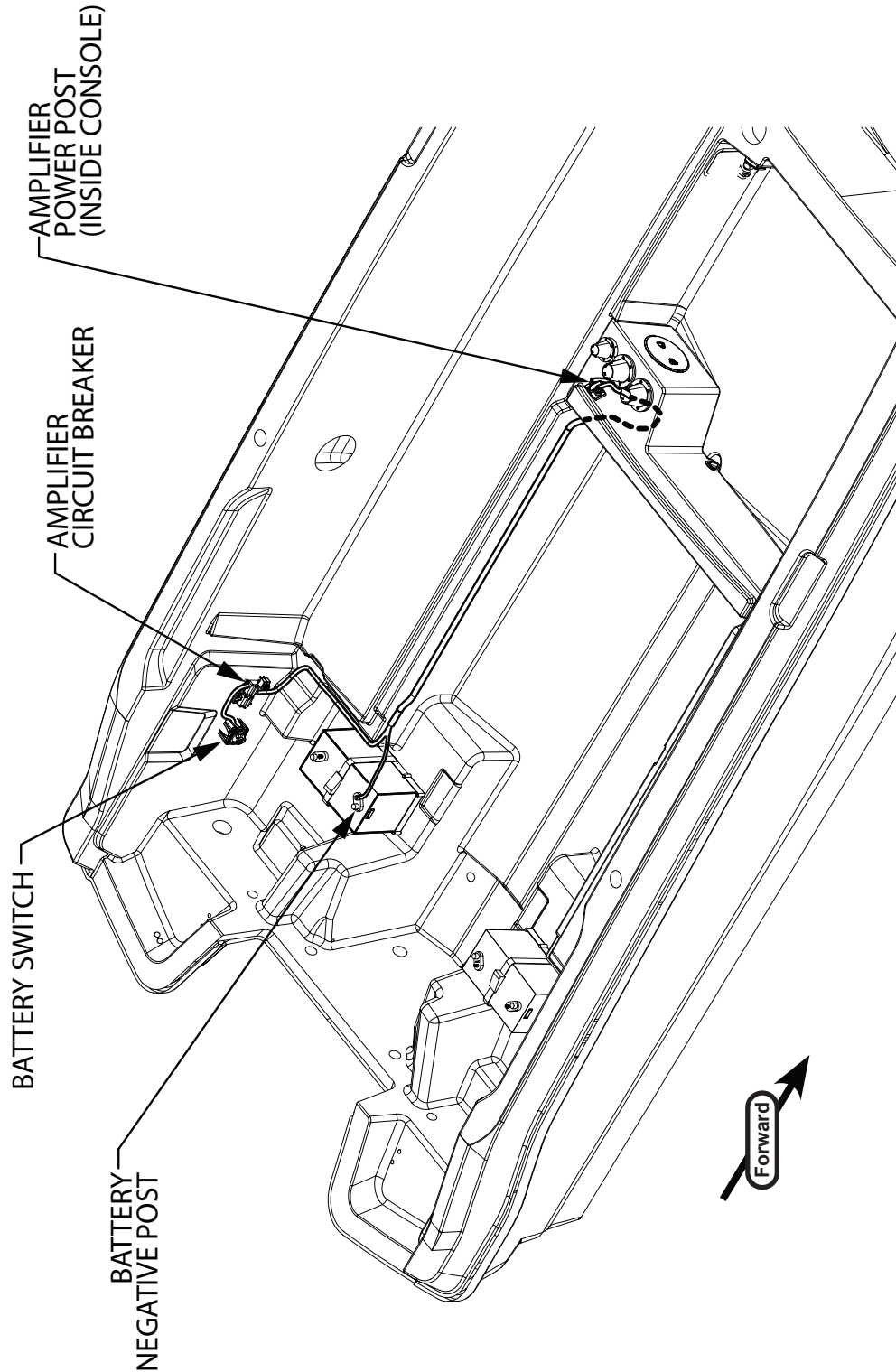
Stereo Harness (Option)

Figure 4.17.2



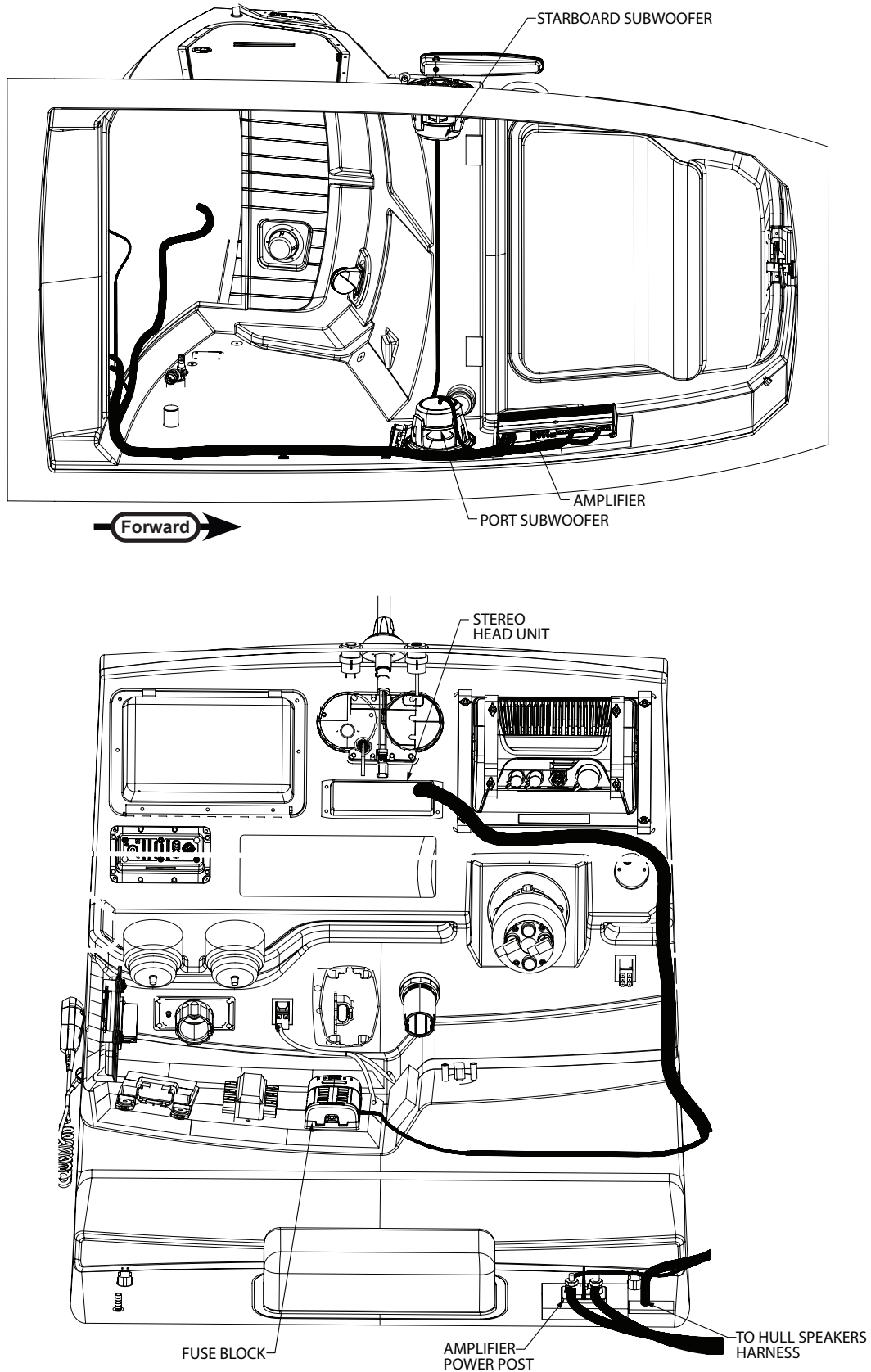
Stereo Amplifier Power Harness (Option)

Figure 4.18.1

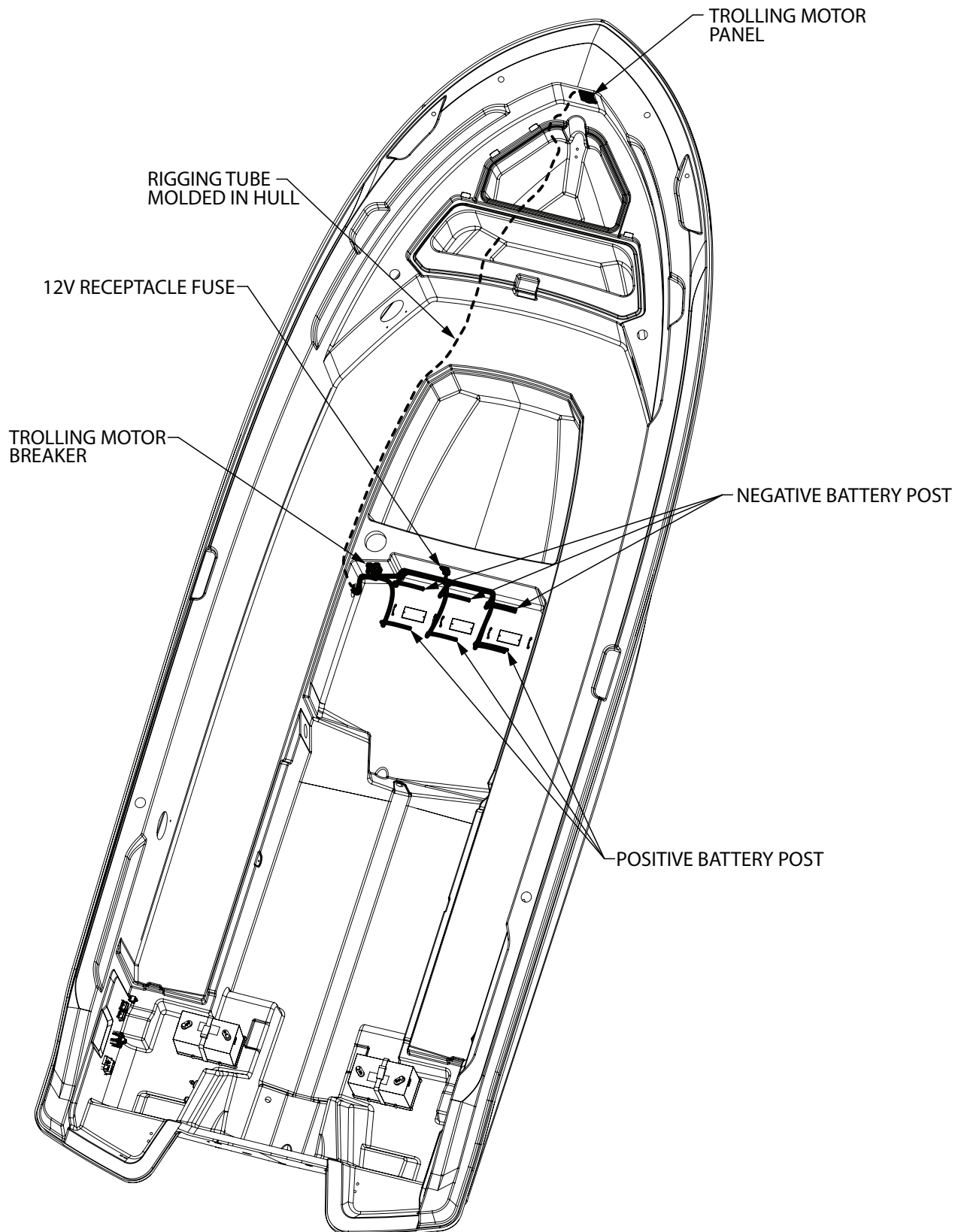


Stereo with Amplifier Harness (Option)

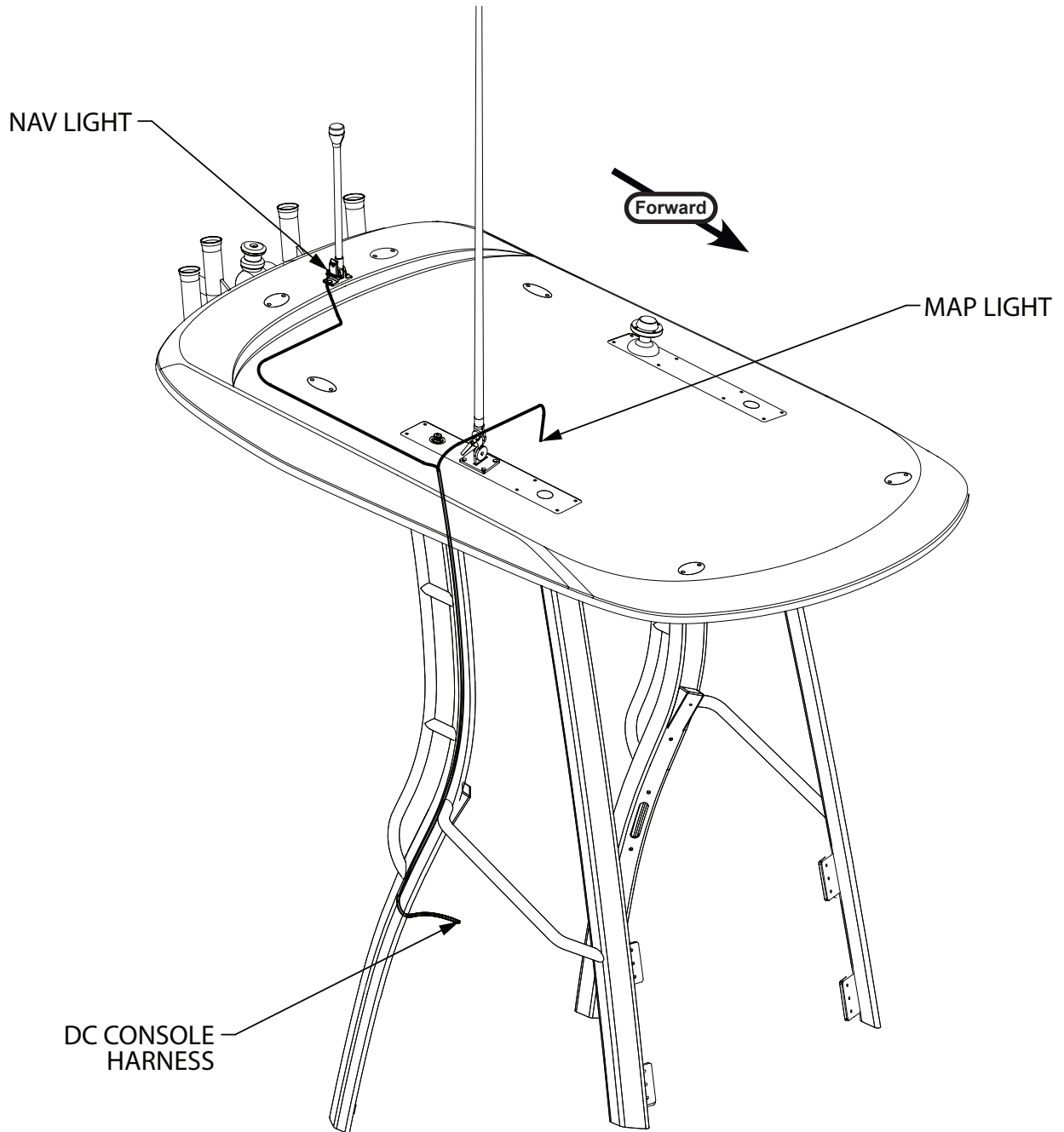
Figure 4.19.1



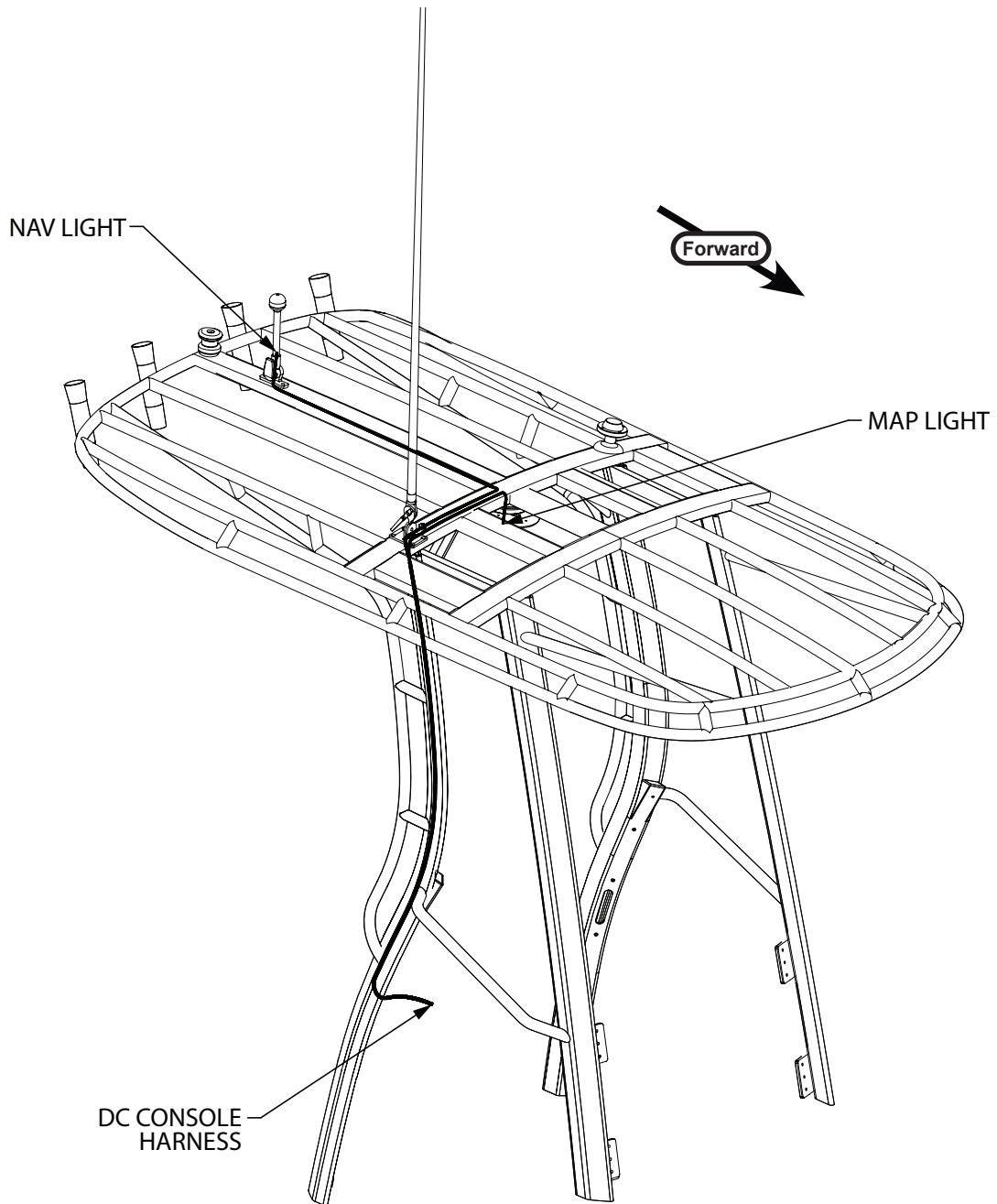
Trolling Motor Harness (Option)
Figure 4.20.1



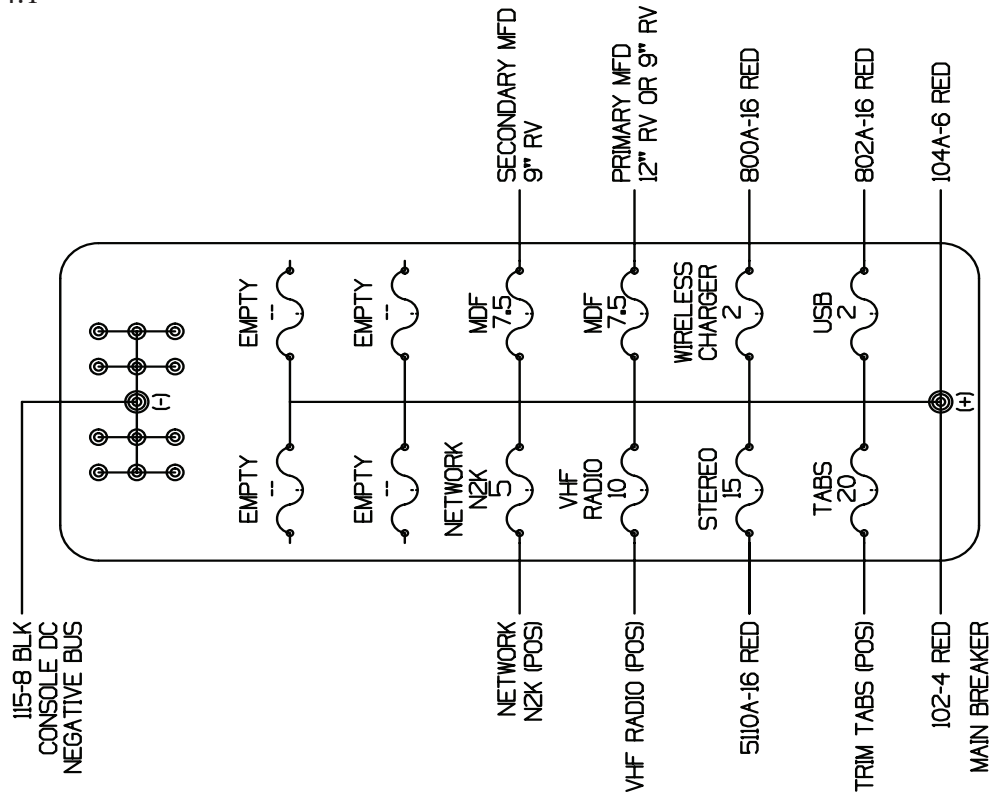
Hardtop Harness (Option)
Figure 4.21.1



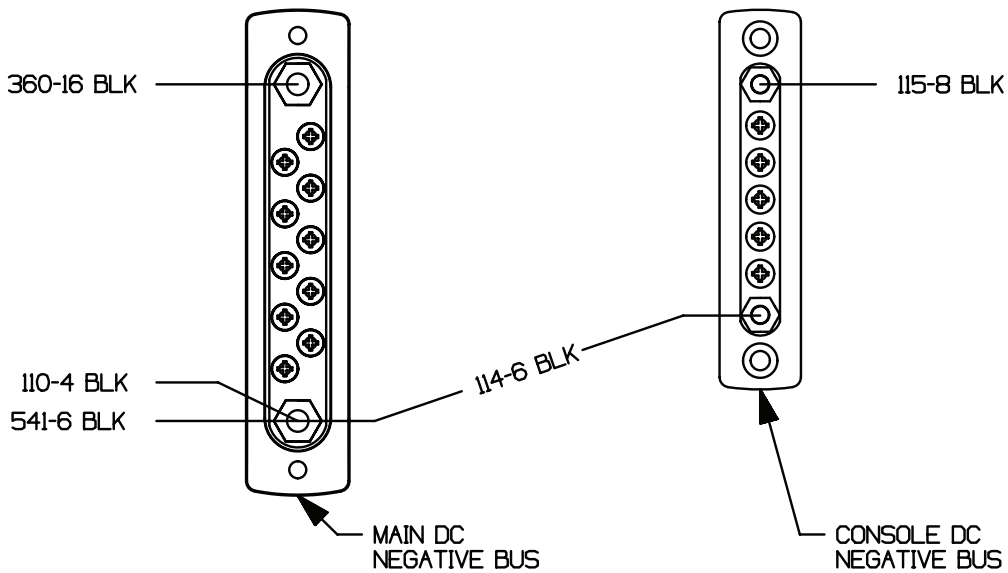
T-Top Harness (Option)
Figure 4.22.1



DC Console Fuse Block
Figure 4.24.1

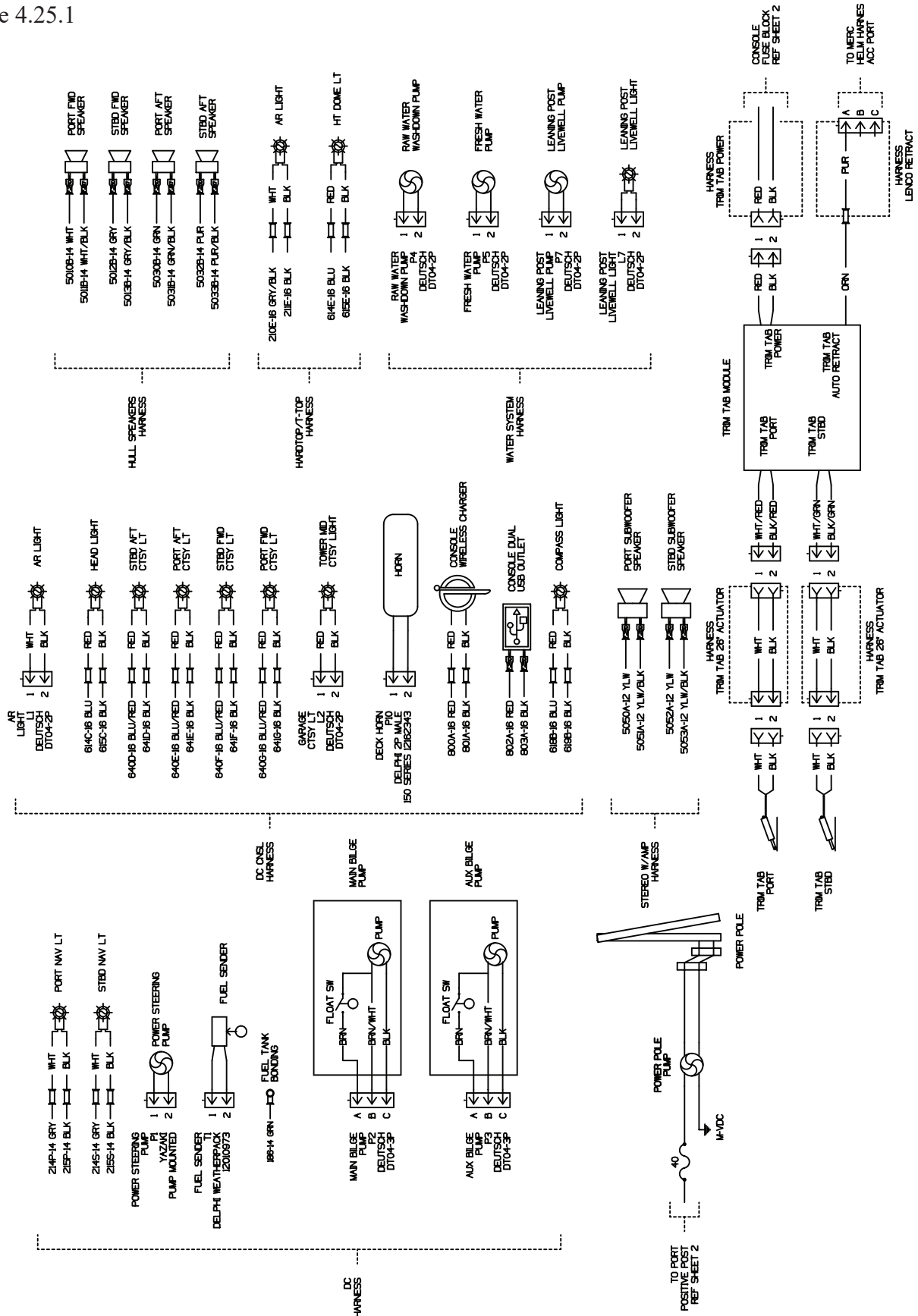


DC Negative Bus
Figure 4.24.2



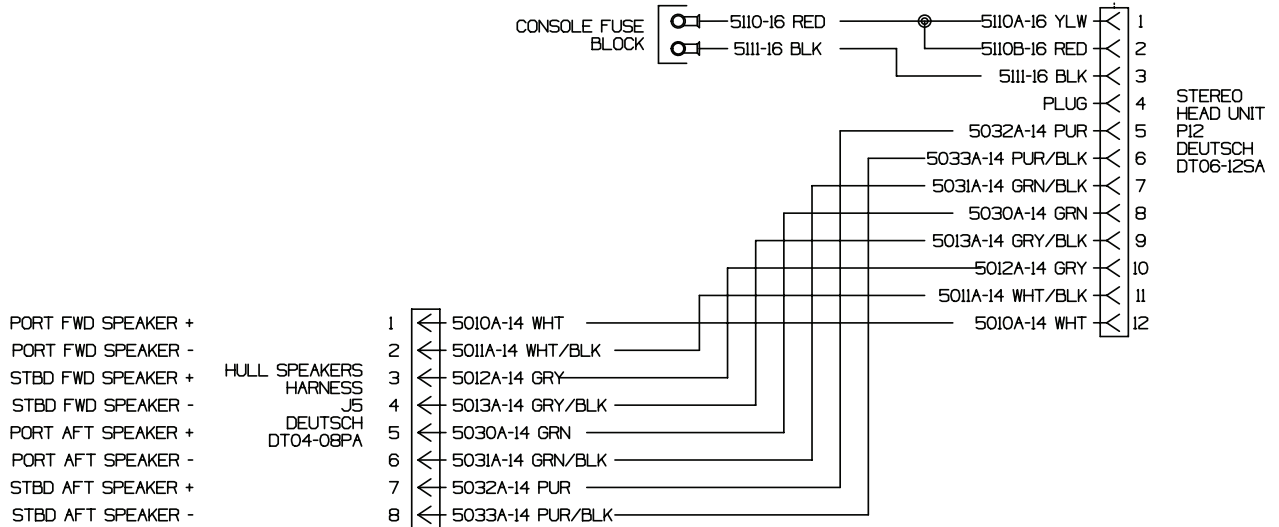
DC Component Connections

Figure 4.25.1



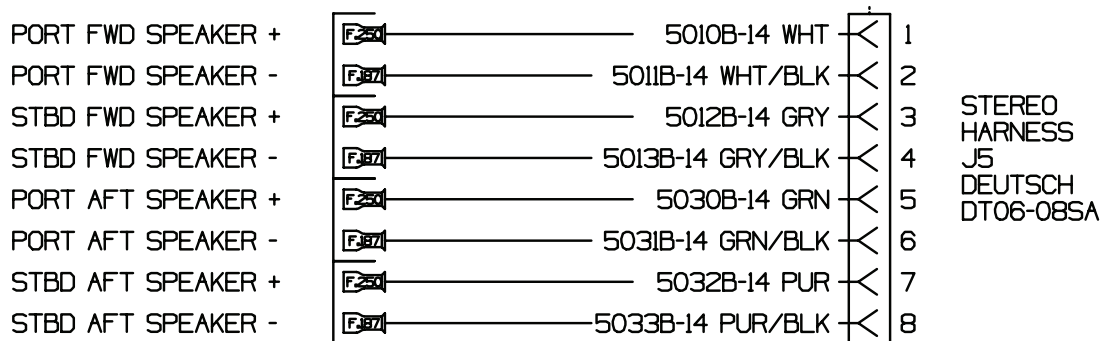
Stereo Wiring without Amplifier Harness (Option)

Figure 4.27.1



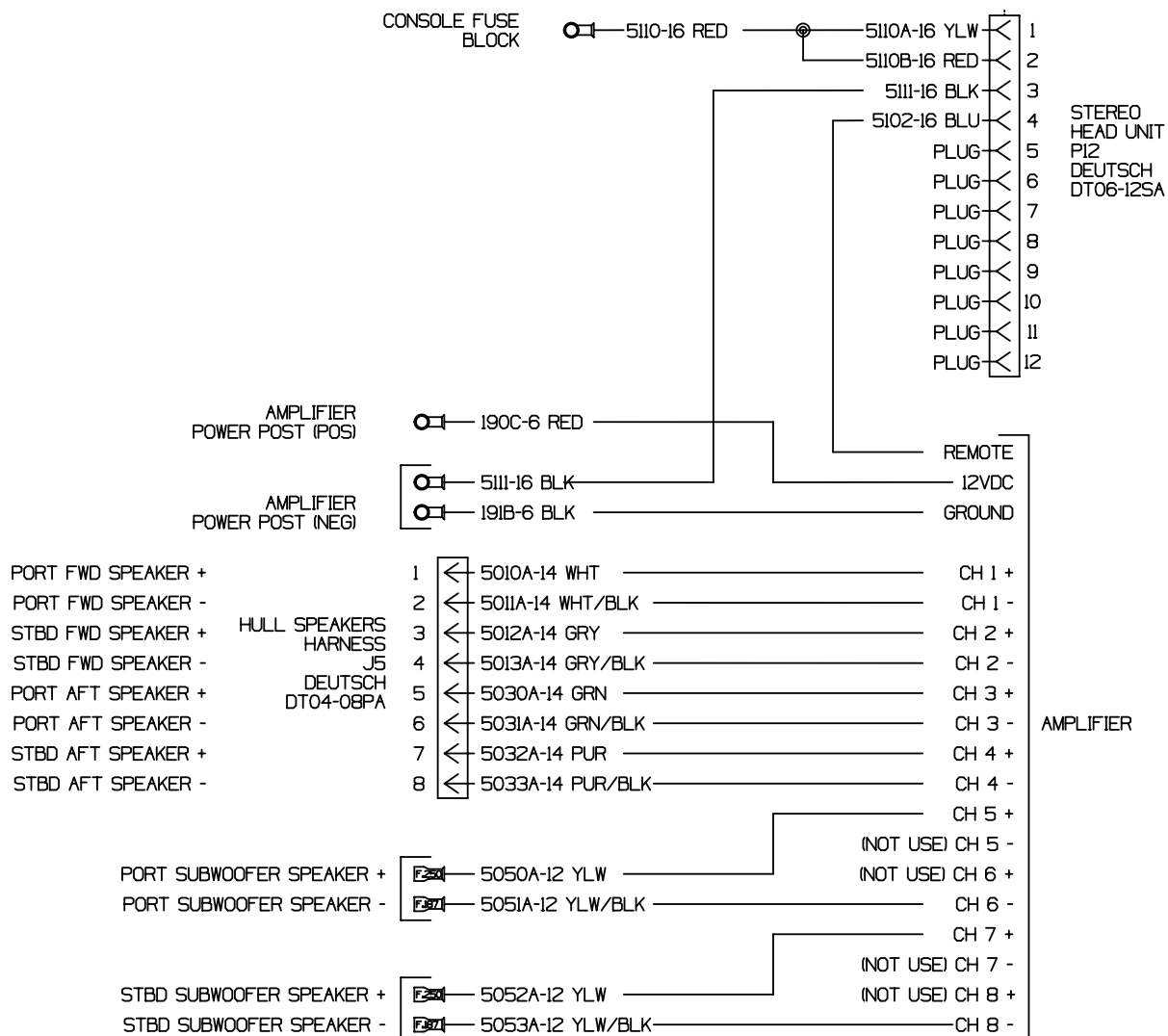
Stereo Speakers Harness (Option)

Figure 4.27.2



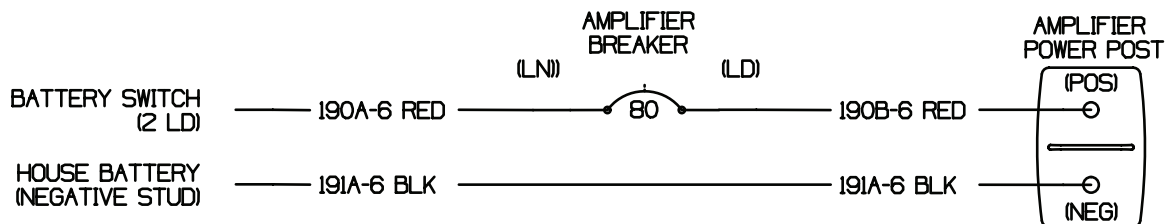
Stereo Wiring with Amplifier Harness (Option)

Figure 4.28.1

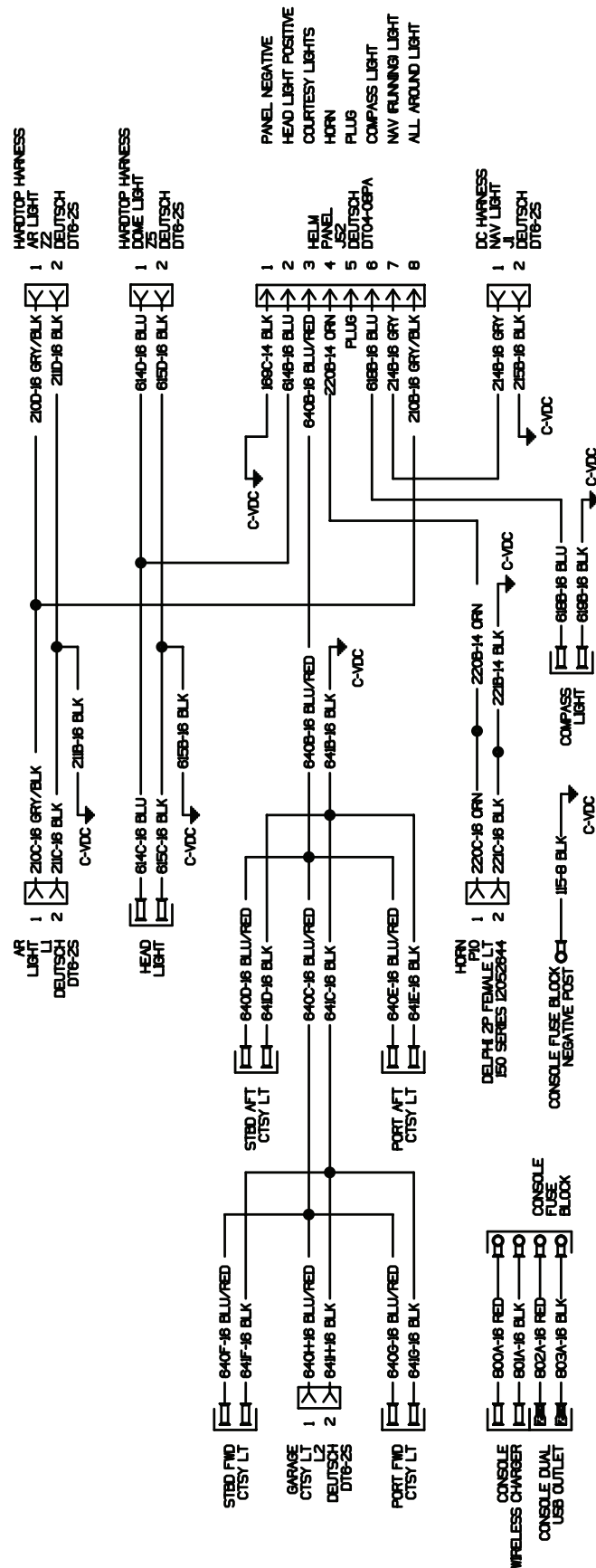


Stereo Amplifier Power Harness (Option)

Figure 4.28.2

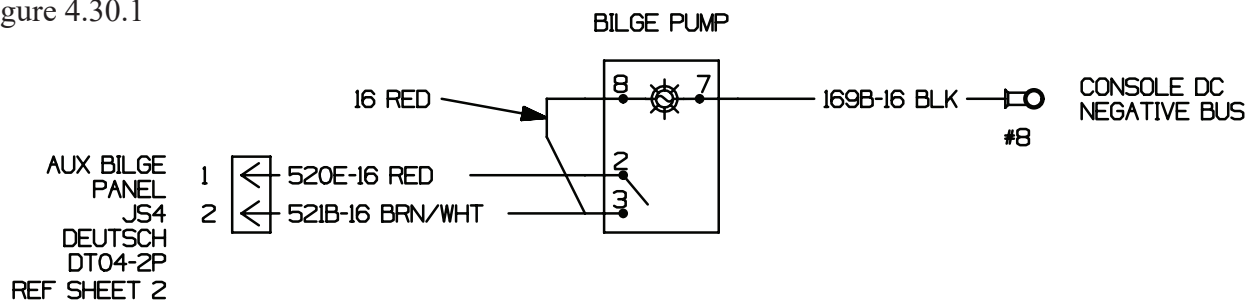


Console Harness
Figure 4.29.1



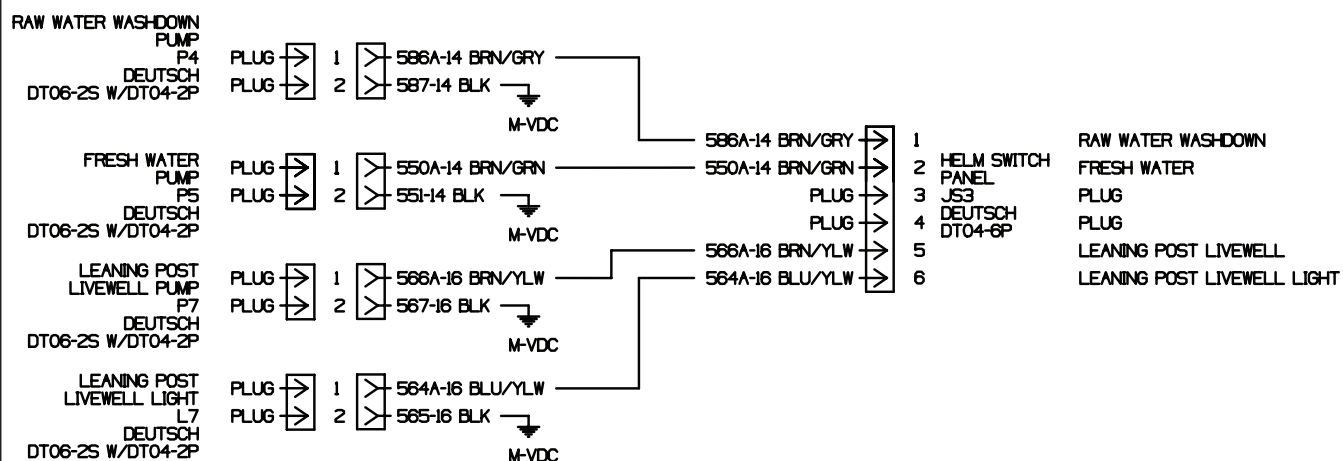
CE Auxiliary Bilge Pump Panel (Option)

Figure 4.30.1



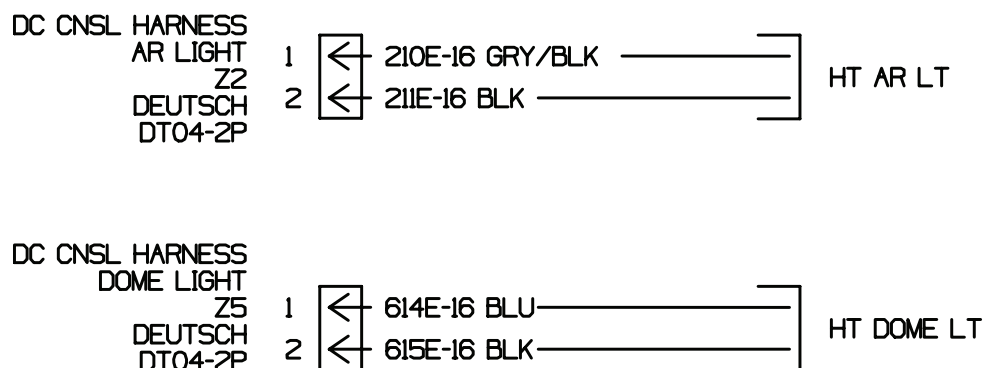
Water System Harness (Option)

Figure 4.30.2

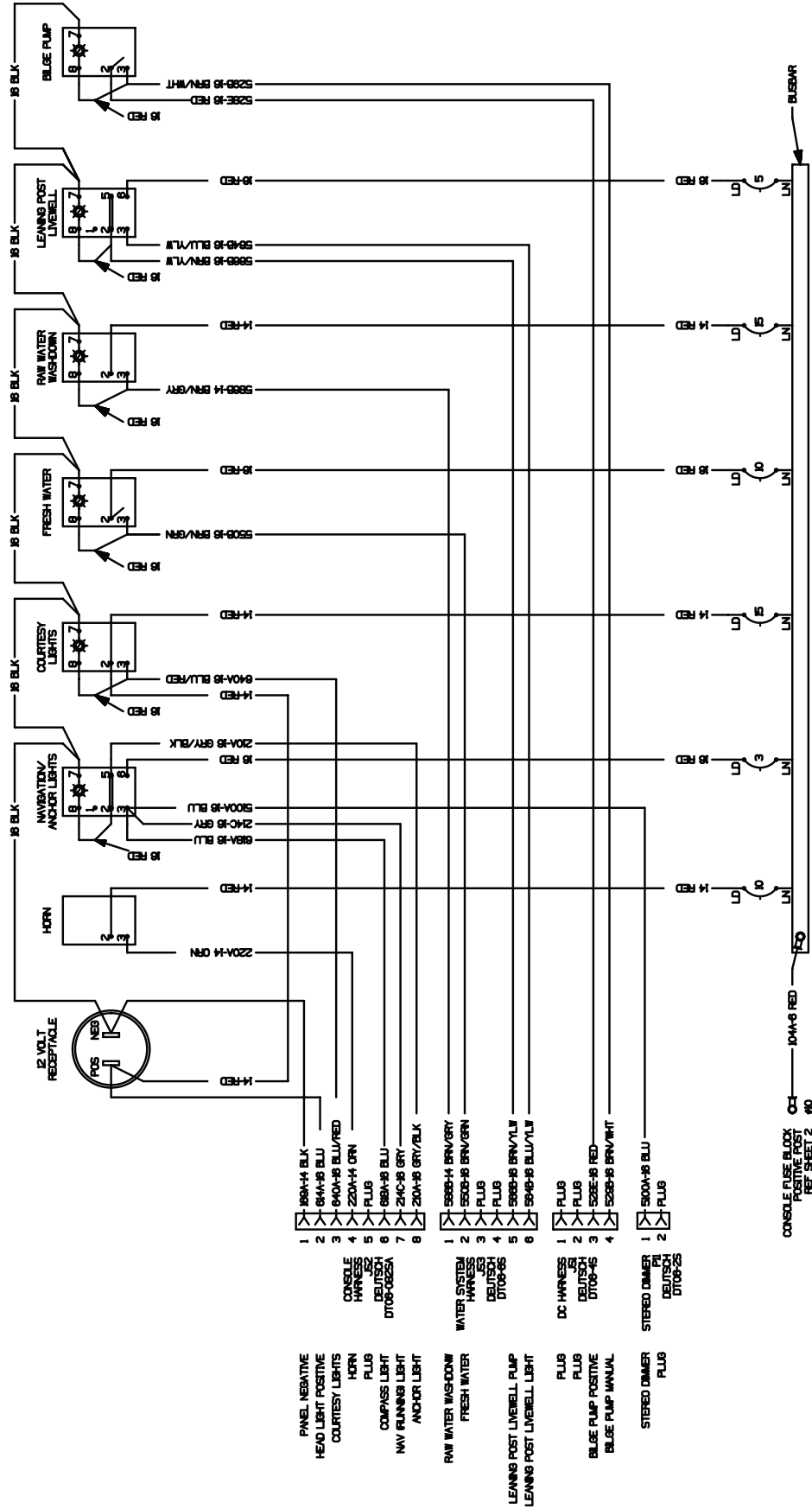


Hardtop and T-top Harness (Option)

Figure 4.30.3



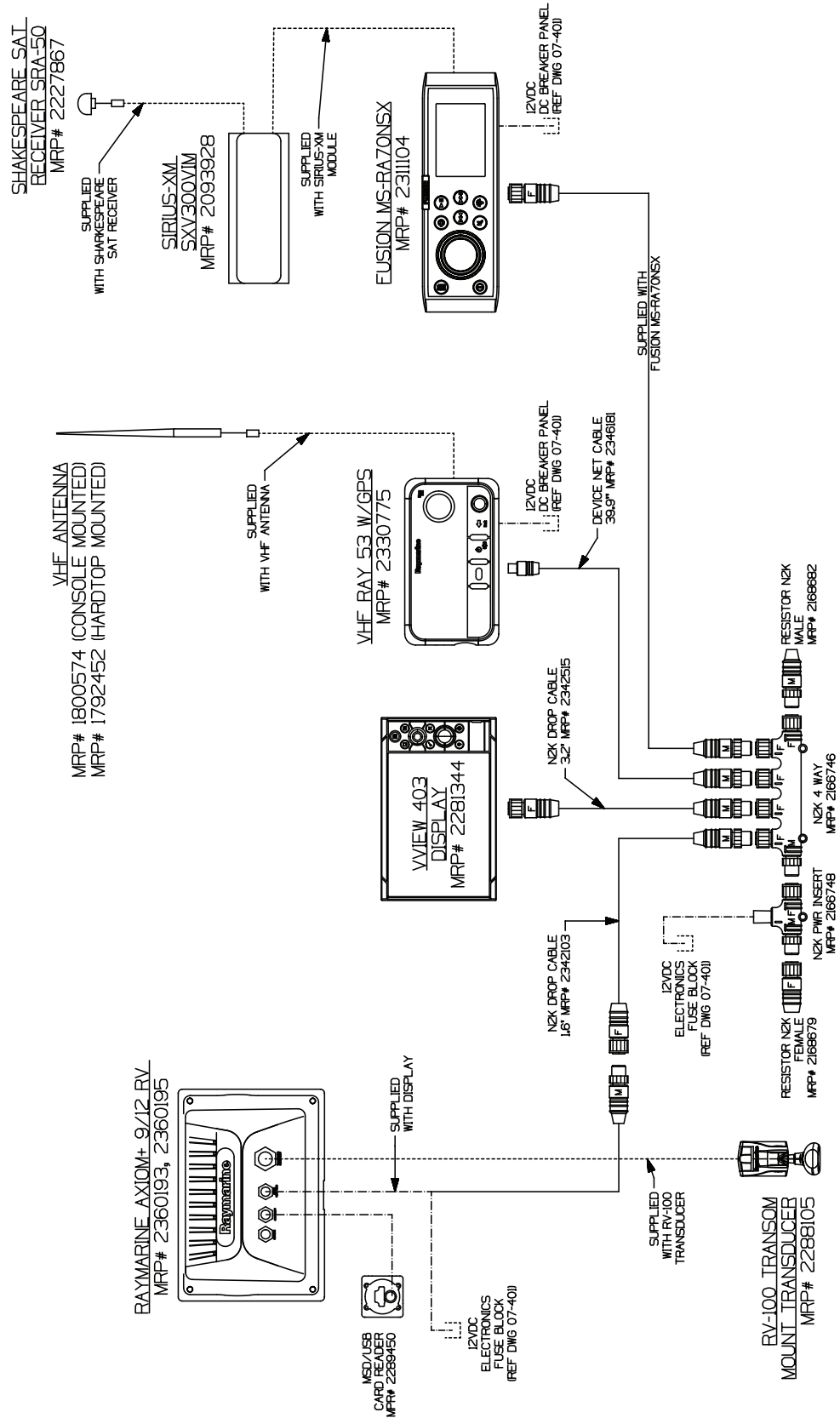
Helm Panel
Figure 4.32.1



CONSOLE FUSE BLOCK
PART NUMBER 104A-8 RED
REF SHEET 2 #40

Single Display Axiom RV Setup
Figure 4.33.1

SINGLE DISPLAY AXIOM RV SETUP



Routine Care and Maintenance

NOTICE

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

⚠ 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.

⚠ WARNING

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

Routinely inspect, service and maintain your boat. Boat systems and components are vital to assure your safety, as well as prolonging the life of the vessel. How often necessary service or maintenance is required varies greatly depending on the environment the boat is used in. For example, corrosion of boat parts and components occur far faster in a salt water environment than on a boat which is used in freshwater.

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

Hull

Fresh water, saltwater and water temperature can all affect the types of growth that can occur on the boat's hull. Any growth affects the boat's performance and overall appearance. 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. Contact your Boston Whaler® dealer for recommendations on a compatible rubbing compound or a professional hull cleaning company in your area.

Waxing Gel Coat Surfaces

NOTICE

Wax the exterior surfaces at least twice a year to protect gel coat.

Waxing is necessary to provide added protection to the gel coat. Periodic cleaning and waxing ensures your boat is protected and looks good longer.

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.

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 damage the boat surface.

Refrain from pressure washing the console as

high pressure may compromise the integrity of the electronics and gauges as well as other equipment. Also avoid pressure washing any caulked seams.

When staining from build-up does occur, use cleaning agents that are recommended for stubborn stains on marine gel coat. 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 either an aluminum or wood frame to keep the cover raised off the surface, thus allowing air to circulate.

Hull Blistering

Due to the quality of the materials used in Boston Whaler hulls, 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. The studies seem to indicate 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 reduces the likelihood of hull blisters forming. Be sure to use a bunk-type lift or trailer for out of water storage.

Contact a 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 all rags, rollers, and trays properly. Follow all precautions and regulations listed by the manufacturer before and after painting boat's 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 this vessel will spend most of its time in the water, painting the bottom hull is a good way to slow the formation of hull blisters and to keep bottom growth (fouling) under control. If you trailer the boat to and from the water, you might want to forgo the painting.

The following is an abbreviated section on bottom hull painting. A Boston Whaler dealer should have information on properly painting your boat's hull or recommendations on qualified hull painters.

Bottom Painting a Bare Hull

CAUTION

Do not paint over sacrificial anodes. This action renders them useless and leads to deterioration of the underwater metal parts.

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.

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 must 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

Proper ventilation and capture of the dust created by sanding is essential. The dust created by sanding is toxic and should not be inhaled. A proper fitting respirator must be used. Do not use a paper filter mask.

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 off 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" for placement of the tape line.

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

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.

Rubrails

The rubrail on this vessel 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 and 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.

Areas which have been torn or are affected by heavy abrasion require the damaged section to be replaced. Please see your Boston Whaler dealer for this type of repair.

Fiberglass and 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.

Never use silver cleaners.

Stainless Steel

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 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 marine grade polish using a sponge, cloth or small bristled brush (for nooks and crannies).

Seats

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

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 stain coated surfaces. Make sure to wash and dry the full circumference of aluminum parts.

Apply an aluminum protectant at least twice a year, more frequently as conditions warrant. Neglect will cause pitting of the surface that 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



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.

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

- Remove ordinary dirt and smudges with a mild soap and water solution. Dry with a soft, lint-free cloth or towel.
- More difficult stains can be cleaned using rubbing alcohol (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 with fresh water and dry with a clean, soft, lint-free cloth or towel.

- The vinyl material and finish have been tested to resist heavy abrasion. Complete cleaning instructions are included in the owner's packet.
- 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.

Instrumentation

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 920-929-5040.

Canvas

NOTICE

Do not use detergents, bleach or solvents to clean canvas.

NOTICE

Failure to remove all of the soap solution can cause deterioration of seams and prevent fabric from proper retreating.

To keep your canvas and metal parts in good working condition and in good appearance, you will need to keep them clean.

The fabric should be cleaned regularly before substances such as dirt, pollen, etc. are allowed to

accumulate on and become embedded in the fabric. The canvas can be cleaned without being removed from the installation.

Chafing, fiber wear from dirt and grit and deterioration from ultraviolet light can cause your canvas to degrade over time.

Maintaining Appearance

After each use, especially if used in salt water areas, rinse the canvas completely with fresh cold water.

To maintain canvas:

- 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.

Stubborn Canvas 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.

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.

Canvas Zippers

NOTICE

Do not use petroleum based products, such as petroleum jelly, on the zippers or fasteners.

Lubricate zippers and fasteners periodically with a clear silicone spray. In the absence of silicone spray, a wax candle can be used to lubricate the zipper track. Replace any missing fasteners or any fasteners showing signs of corrosion.

Acrylic Windscreen

NOTICE

- **Never use a dry cloth or duster or glass cleaning solutions on acrylic.**
- **Do not use solvents such as acetone, silicone spray, benzene, carbon tetrachloride, fire extinguisher fluid, dry cleaning fluid, lacquer thinner, glass cleaning solution or harsh detergents on acrylic.**

Rinse windscreen thoroughly with clear water to remove any dust, dirt particles, salt water or environmental agents before applying cleaning products. Use your bare hand, with plenty of water, to feel and dislodge any stuck-on dirt or foreign particles. This should be done frequently to avoid build up of salt water, dirt and other environmental contaminants.

Using a soft non-abrasive cloth, wash windows inside and out with a mild soap (*Woolite, Joy, Palmolive*, etc.) and water solution. Rinse completely with cool water. Do not use detergents. Blot dry with a soft cloth or chamois to prevent water spots.

The use of a polycarbonate protective cleaner/restorer is recommended to keep your acrylic scratch resistant, clean and minimize the deteriorating effects of sunlight.

Powder Coat 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.

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 heavy coat all at once. Apply several light coats allowing the paint to dry until tacky between each coat.

NOTICE

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

Orbit Industries: 800-448-3885

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 864-288-2739.

Long Term Storage and Winterization

CAUTION

Never start or run an outboard (even momentarily) without having water circulating through cooling water intake holes in gear case. This prevents damage to water pump (running dry) or overheating of engine.

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

Protecting the 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. To protect your engine:

- Replace engine oil and filter, running the engine to drain out as much old oil as possible.
- Flush engine with fresh water using flush muff's or similar device attached to raw water pickup.
- Let all water drain from engine.
- Fog engine while running. Spray until it stalls.
- Run fuel which has been treated with conditioner and stabilizer through engine.
- Replace lower unit gear oil. Check for moisture in old oil, a sign of deteriorating seals.
- Remove prop and grease shaft and threads.
- Grease all fittings with recommended lubricant.

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NOTICE

Follow manufacturer's recommendations for long-term battery storage.

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- Remove prop and grease shaft and threads.
- Grease all fittings with recommended lubricant.
- Lightly lubricate exterior of engine or polish with a good wax.
- Check engine mount bolts are torqued to 55 ft/lbs.

- Follow all recommendations in 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 full and add fuel stabilizer and conditioner, following the manufacturer's recommendations, to provide fuel stability and corrosion protection.

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 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 Apply an anti-corrosion spray on all connections.

Batteries

The house source of power typically comes from a battery bank comprised of two or three batteries in parallel. The charging source for the batteries while away from the dock is the engine; or if equipped a generator and the generator is on, battery chargers. As the engine provides a charge output to the house bank through the automatic charging relays (ACRs), keep in mind the following recommendations:

Mixing Fresh, Used and Dead Batteries

NOTICE

Do not use a suntop in lieu of a cover as damage and aging will occur.

A fresh battery delivers current to a dead battery which has high resistance. This results in excessive heat in the used/dead battery, which can cause further damage, leakage, or rupture. A used battery drains energy from a new one, reducing the total amount of battery power available.

Mixing Battery Types

Different battery types are designed for different purposes. Mixing an AGM battery with a lead acid battery does not improve performance and may damage devices or cause battery leakage or rupture.

Mixing Battery Brands

Different battery brands may not have the same specifications like marine cranking amps (MCA) or cold cranking amps (CCA). This results in excessive heat, which may then cause damage, leakage or rupture in one of the batteries. Use the same type batteries throughout the boat.

Battery Charging System (Option)

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

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 engine in an upright position to promote drainage.

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. Vents along the entire length of the cover allow condensation to escape. Placing a series of foam pads between hull and cover also aids in circulation and reduces condensation. To help keep boat dry and mildew free, place commercial odor and

moisture absorbing products 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.

Freshwater System (Option)

The following procedure is recommended to disinfect the freshwater system:

1. Flush entire system thoroughly by allowing potable water to flow through it.
2. Drain system completely.
3. Fill entire system with a disinfecting solution.
4. After disinfecting, drain entire system.
5. Flush entire system thoroughly several more times with potable water.
6. System is now ready for use; fill with potable water. Perform annually or before first use after being stored for an extended period of time.

Raw Water System (Option)

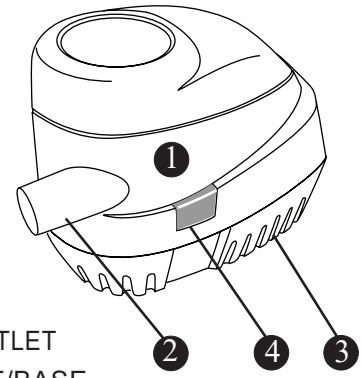
Check fittings and hoses for system integrity to prevent leaks. The system should be run at least every other month to keep the pumps' impellers in good condition. When the boat is out of the water, clean the seacock intake(s) on the bottom aft of the hull to keep free of any debris or build-up.

Bilge Pump

Frequently inspect the area under the bilge pump's float switch to ensure it is free from debris and bilge oil. The float switch and pump strainer can be accessed by pressing the two locking tabs on the sides of the bilge pump (see Figure 5.10.1) and lifting off the cover. To clean, soak in heavy-duty bilge cleaner for 10 minutes, agitating several times. Check for unrestricted operation of the float. Repeat cleaning procedure if necessary. Inspect the bilge pump water intakes and keep them free of dirt or material which may impede water flow. If water does not come out of discharge:

Bilge Pump
(Figure 5.10.1)

- 1 BILGE PUMP
- 2 DISCHARGE OUTLET
- 3 WATER INTAKE/BASE
- 4 LOCKING TAB



1. Remove the motor from base 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.

Livewell

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

Trim Tabs

The trim tabs units are sealed, waterproof and maintenance free. General cleaning is recommended, and marine growth should be removed when the boat is out of the water.

Sacrificial Anodes

Inspect the sacrificial anodes regularly and replace as necessary.

Reinforcement Locations

This vessel has been manufactured with reinforcement in various locations throughout the deck. To add equipment that requires penetrating the deck with fasteners, Figure 5.11.1 illustrates the size and type of reinforcement materials. The table below provides a description of the material and recommended fasteners to secure added equipment.

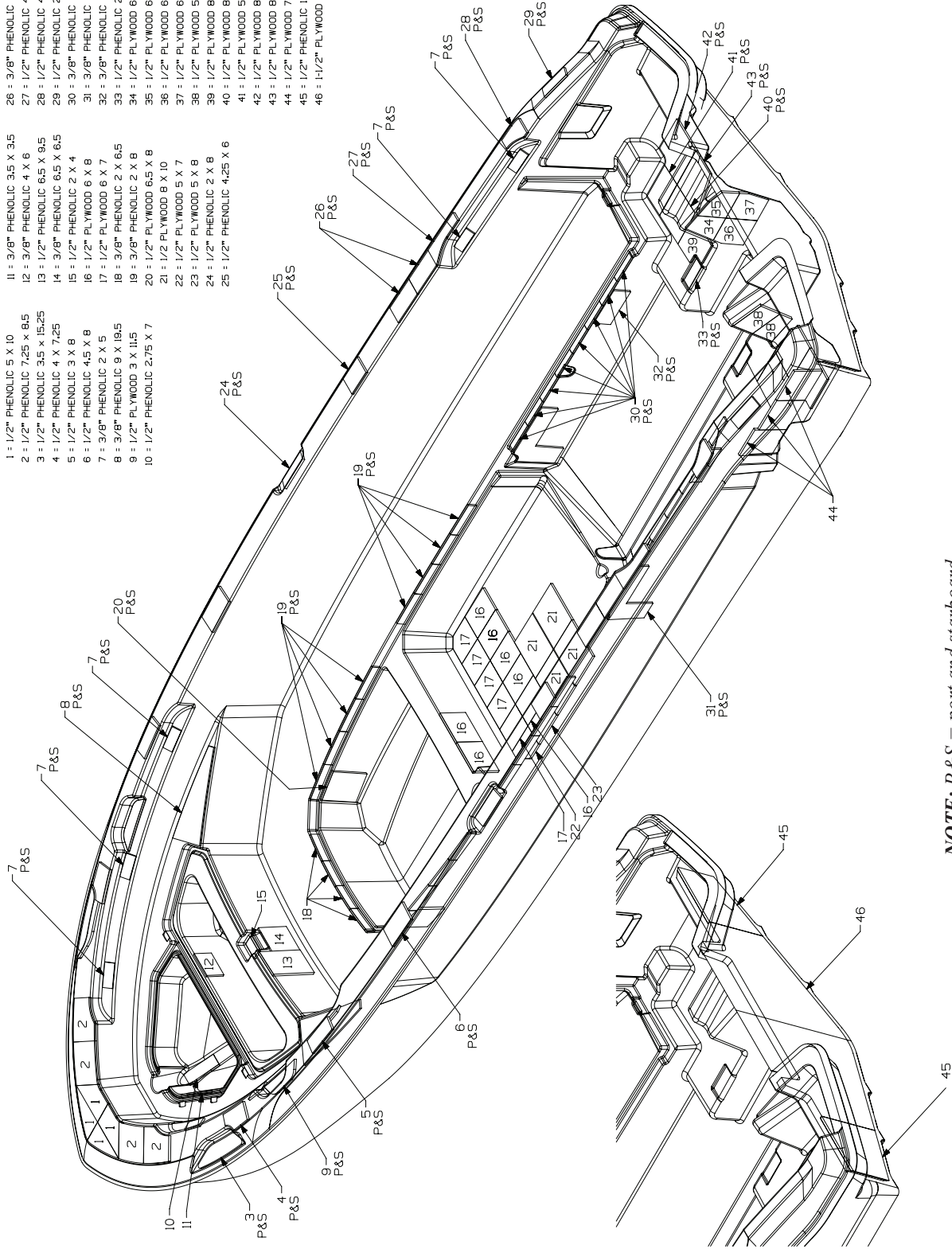
Reinforcement	Construction	Equipment Weight	Fastener Type*
Plywood	Standard boat building material	Light	Self-tapping screws
Trevira	Thick spun bound polyester fabric	Light	Sheet Metal screws
Aquaplas	High density plastic	Medium	Self-tapping screws
Phenolic	Fiberglass reinforced composite board	Heavy	Drill and tap

* Drill and countersink a pilot hole to prevent damage to the gelcoat surface.

Reinforcement Locations
Figure 5.11.1

CAUTION
Do not attempt to secure equipment in any location other than those that are illustrated.

- 1 = 1/2" PHENOLIC 5 X 10
- 2 = 1/2" PHENOLIC 7.25 X 8.5
- 3 = 1/2" PHENOLIC 3.5 X 15.25
- 4 = 1/2" PHENOLIC 4 X 7.25
- 5 = 1/2" PHENOLIC 3 X 8
- 6 = 1/2" PHENOLIC 4.5 X 8
- 7 = 3/8" PHENOLIC 2 X 5
- 8 = 3/8" PHENOLIC 3 X 19.5
- 9 = 1/2" PLYWOOD 3 X 11.5
- 10 = 1/2" PHENOLIC 2.75 X 7
- 11 = 3/8" PHENOLIC 3.5 X 3.5
- 12 = 3/8" PHENOLIC 4 X 6
- 13 = 1/2" PHENOLIC 6.5 X 9.5
- 14 = 3/8" PHENOLIC 6.5 X 6.5
- 15 = 1/2" PHENOLIC 2 X 4
- 16 = 1/2" PHENOLIC 6 X 8
- 17 = 1/2" PLYWOOD 6 X 7
- 18 = 3/8" PHENOLIC 2 X 6.5
- 19 = 3/8" PHENOLIC 2 X 8
- 20 = 1/2" PLYWOOD 6.5 X 8
- 21 = 1/2" PLYWOOD 8 X 10
- 22 = 1/2" PLYWOOD 5 X 7
- 23 = 1/2" PLYWOOD 5 X 8
- 24 = 1/2" PHENOLIC 2 X 8
- 25 = 1/2" PHENOLIC 4.25 X 6
- 26 = 3/8" PHENOLIC 4 X 8
- 27 = 1/2" PHENOLIC 4 X 10.5
- 28 = 1/2" PHENOLIC 4.75 X 6
- 29 = 1/2" PHENOLIC 2.5 X 6.5
- 30 = 3/8" PHENOLIC 1.25 X 6.625
- 31 = 3/8" PHENOLIC 1.05 X 14.75
- 32 = 3/8" PHENOLIC 4 X 9
- 33 = 1/2" PHENOLIC 2.5 X 6
- 34 = 1/2" PLYWOOD 6 X 7.5
- 35 = 1/2" PLYWOOD 6.625 X 6.75
- 36 = 1/2" PLYWOOD 6.625 X 7.5
- 37 = 1/2" PLYWOOD 6.75 X 7.5
- 38 = 1/2" PLYWOOD 5.75 X 7.75
- 39 = 1/2" PLYWOOD 8 X 9.5
- 40 = 1/2" PLYWOOD 8 X 8.375
- 41 = 1/2" PLYWOOD 5.5 X 8.375
- 42 = 1/2" PLYWOOD 6.75 X 9.25
- 43 = 1/2" PLYWOOD 8 X 9.25
- 44 = 1/2" PLYWOOD 7 X 8
- 45 = 1/2" PHENOLIC 15 X 15.25
- 46 = 1/2" PLYWOOD 29.5 X 83.5



NOTE: P&S = port and starboard

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