

295CC

OWNER'S MANUAL
2023 MODEL YEAR



WORLDCAT
A BETTER WAY TO BOAT™

Dear World Cat Owner:

Thank you for being our customer. Welcome aboard!

We wish to take this opportunity to sincerely thank you for putting your trust in our boat building team and becoming the newest member of the World Cat Family.

The following manual is designed to ensure you enjoy your new World Cat for many years to come. We have made every effort to ensure you and your family are safe, enjoy the unique features of a World Cat, and continue to love the World Cat ride that no other boat company can offer.

If you should ever need assistance with the care, maintenance, or operation of your boat, then please visit our website at WorldCat.com to find contact information for your nearest Factory Authorized Dealer.

Once again, thank you for becoming a part of our family.

Best Regards,



ANDREW BROWN
President

Best Regards,



ANNA BOSLER
Customer Care Representative



1090 West Saint James St., Tarboro, North Carolina 27886

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Chapter 1: Customer Information

1.1 Owner's Portfolio

To help you enjoy the many features, benefits, and accessories on your new World Cat, we have provided you with the following materials:

- World Cat Owner's Manual (model specific)
- Vendor Supplied Manuals for various accessories
- Delivery Checklist
- Warranty Information

We refer to this package as the Owner's Portfolio, and will reference it often throughout this text. The portfolio contains a wealth of information, including advice on safety, operation, performance, maintenance, and warranty. Reading and maintaining this information is extremely important, and could be the difference between a positive and negative experience on the water.

1.2 Warranty Information

Upon purchasing your new World Cat, your dealer is responsible for completing the warranty card and returning a copy to the factory. The dealer should provide you with a copy to keep in a secure place so it can be referenced quickly in the event of a warranty issue. Please read your written warranty.

1.3 Dealer Responsibilities

Our dealers are an extension of the factory and we expect them to provide you with great customer service to help prepare you for a positive ownership experience. Therefore, we set forth a list of responsibilities for our dealers as follows:

- Provide courteous service and explanation of the product prior to the sale.
- Provide sea trials for potential owners.
- Provide a detailed orientation of your boat's features and general operation upon delivery, including safety and performance.
- Complete and sign delivery checklist.
- Explain, complete, and submit all warranty information in a timely manner after the purchase.
- Provide the customer with the Owner's Portfolio and explain the information included therein.
- Provide service after the sale, or help the customer locate a qualified service shop at home or away.

1.4 Owner's Responsibilities

As an owner you should also take an active part in the delivery and safe operation of your new catamaran. Some of your responsibilities are:

- Study and understand the limited warranty information.
- Read all literature in your Owner's Portfolio and operate the vessel in accordance with those instructions.
- Review the Customer Delivery Inspection Sheet with your dealer prior to the final purchase and closing to ensure that the systems are functioning properly.
- Maintain the boat and perform service according to the instructions in this manual, including the 20 hour inspection for the vessel and engines.

It is your responsibility to return your boat to an Authorized World Cat Dealer for warranty work. In the event there is no World Cat dealer within a 100 mile radius of your boating location, it is your responsibility to present the boat to a marine professional in your area as directed and approved by World Cat.

Once your warranty information is processed, World Cat will maintain a record of your boat using the Hull Identification Number (HIN), which is located on the starboard side of the transom. Information regarding the dealership, owner, and the factory installed accessories will be recorded to help you should a problem arise. Also, you will receive a survey to rate your purchasing experience and the initial impressions of our company. We ask that you join our family of owners and let us know your feelings about the purchase and the quality of our product.

1.5 Manual Legend

Throughout this manual you will encounter signals to alert of important information. Text printed in bold letters and the warning system shown below is of particular importance. Please review this information prior to reading the manual.

!!! DANGER

This symbol alerts you to hazards or unsafe practices which will cause extensive property damage, severe personal injury or death if the warning is ignored.

!!! WARNING

This symbol alerts you to hazards or unsafe practices which can cause extensive property damage, severe personal injury or death if the warning is ignored.

!!! CAUTION

This symbol alerts you to hazards or unsafe practices which can cause personal injury or property damage if the warning is ignored.

NOTICE

This symbol is not hazard related. It contains information on installation, operation, or maintenance which is needed to ensure the proper operation of your boat.

Chapter 2: Boat Information

Please fill out the following information and leave in this manual for reference. This information will be important for your Authorized Dealer to provide fast and accurate service. To locate an authorized dealer call 866-485-8899 or email service@worldcat.com.

BOAT	
Model:	HIN:
Purchase Date:	Delivery Date:
Ignition Key #:	Door Key #:
ENGINES	
Make:	Model:
Serial # Port:	Serial # Stbd:
Propeller Make / Model:	Propeller Diameter / Pitch:
TRAILER	
Make:	Model:
Serial # Port:	Serial # Stbd:
DEALER	
Name:	Salesman:
Dealer Phone:	Service Manager:

295CC

THE ULTIMATE IN SMOOTH, STABLE PERFORMANCE



LENGTH OVERALL

29' 1"

BEAM

9' 6"

FUEL CAPACITY

233_{gal}

DRY WEIGHT

8,500_{lbs}

HULL DRAFT

15"

SPECS

LOA: 29'1"

Molded LOA: 29'1"

Beam: 9'6"

Hull Draft: 15"

Freeboard Aft: 27"

Transom Height: 25"

Dry Weight w/ Power (Approx.):

8,500 lbs w/ Twin 300's

Max HP Rating: 600 HP (2 x 300)

Fuel Capacity: 233 gal (2 x 116.5)

Livewell Capacity: 42 gal

Freshwater Capacity: 25 gal

Wastewater Capacity: 15 gal

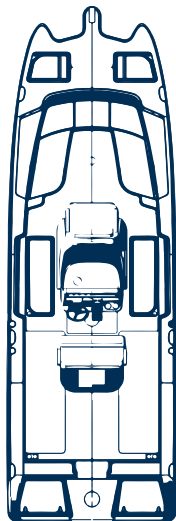
Trailer Height*: 10'6"

Bridge Clearance: 8'10"

Cockpit Length: 50"

Typical Cruise**: 31.7 mph / 1.8 mpg

Typical WOT**: 55.4 mph / 1.0 mpg



HIGHLIGHTS

- Expansive forward seating for 6 people
- Extended swim platform

*Measured keel to top of fiberglass hardtop with no outriggers or electronics installed (not including trailer itself)

**Tested with max power, two people, 1/2 fuel, no gear

FEATURES

Bow

- Molded-In Bow Pulpit with Roller and Cleats
- Pro Series Free-Fall Windlass with 300 ft Line, 15 ft Chain, 22 lb Polished S.S. Anchor, and Foot Switches
- Anchor Locker with 2 Hatches and Raw Water Washdown Hose
- Bow Seating with Cushioned Backs for 6 Adults
- (4) Stainless Steel Cup Holders
- Insulated 210 qt Port and Starboard Storage Compartments with Overboard Drains
- Port and Starboard Lockable, In-Gunwale Rod Storage Lockers (for 6 Rods) with Recessed Handrails
- Forward Seating Backrests

Helm

- Fiberglass Top with Powdercoated Aluminum Frame, Radio Box with Overhead Electronics Panel, Overhead LED Lights, 4 Rocket Launchers and Spreader Lights
- Forward Facing Console Seat w/ YETI 75 qt Cooler, Bolster & Cushion
- Ergonomically Designed Fiberglass Console with Wraparound Safety Glass Windshield and Opening Side-Vents Integrated into the Hardtop
- Pantograph-Style Heavy-Duty Windshield Wiper with Rinse
- Fiberglass Console with Electronics Mounting Surface, Netted Storage Compartments, 2 Stainless Steel Cup Holders, Passenger Handrail, Footrest and Insulated Storage Compartment
- Fusion® MS-UD750 Marine Entertainment System with (4) JL Audio Speakers and Bluetooth
- Integrated Battery Charging System
- Console Marine Head with 15 gal Holding Tank and Overboard Discharge

- Large Electronics Area Capable of (2) 12 in Screens
- Stainless Steel Wheel with Power-Knob
- Double-Wide Custom Helm Seat with Twin Flip-Up Bolsters
- Fiberglass Leaning Post Tackle Center with 42 gal Raw Water, Insulated Livewell with 1100-GPH Magnetic Drive Pump, Overboard Drain, and a Clear Lid
- Tackle Center Raw Water Washdown
- Tackle Center Integrated Toe Rail
- Tackle Center Compartments for 3 Batteries and Battery Select Switches with Parallel Capability, Power Assist Pump Access and Fire Extinguisher Compartment
- Recessed Tray in Dash Brow

Stern

- Insulated 300 qt Port and Starboard Floor Fishboxes with Diaphragm Pumps
- Molded-in Toe Rails and Cockpit Bolsters
- Port and Starboard Gunwale-Mounted Open Storage
- Port and Starboard Sealed Fuel-Filter Compartments for Easy Maintenance
- (6) Pull-Up Stainless Steel Cleats
- (6) Gunwale-Mounted SMITH Rod Holders
- YETI 65 qt Coolers w/ Cushions & Coaming Pad Bolster (Port & Starboard)
- Walk-Through Transom with Heavy-Duty Door, Bait Prep, and Tool Storage
- Freshwater Transom Shower with 25 gal Water Tank
- User-Friendly, Commercial-Grade Dive Ladder & Swim Platform

OPTIONS

YAMAHA Power Matched

- Yamaha 300 HP 4-Stroke with CL5 Touchscreen Display

MERCURY Power Options

- Mercury 300 HP Verado's (Twin) with JPO Joystick Steering and Mercury DTS Controls (White)

Hull Colors

- Arniston Gray
- Majorca Green
- Hermosa Blue
- Ice Blue
- Annapolis Blue

Available in:

Full-Hull or Two-Tone Hull Color

**Custom gel color also available*

Hardtop Underside Colors

- Arniston Gray
- Majorca Green
- Hermosa Blue
- Ice Blue
- Annapolis Blue

Bootstrapping

- Stardust (Top) & Black (Bottom)
- Dark Red (Top/Bottom)
- White (Top/Bottom)
- Black (Top/Bottom)
- Dark Blue (Top/Bottom)
- Stardust (Top/Bottom)
- Teal (Top/Bottom)

Accessories

- Edson Wheel 13" Satin-Finish with Power Knob
- Sun Lounge Filler with Cushion
- Removable Bow Table with Dedicated Storage
- SeaDek Anti-Fatigue Helm Mat (Gray)
- Motor Well Rocket Launchers (3/Side)

Electronics

- Dual Garmin GPSMAP 8612xsv 12" Multi-Touch Widescreen Chartplotter / Sonar Combo, Airmar B175M Transducer, Dark-Tinted Acrylic Dash, Garmin 110 VHF with 8' Antenna
- LED Underwater Lights (Blue)
- Stereo Upgrade - JL Audio 800W Amp, (4) Speakers Upgraded to 6.5" JL Audio M6-Series Speakers, and (2) Additional 8.8" M6-Series Speakers

Steering Systems

- Optimus 360 Joystick Steering w/ Full Function Auto-Pilot and Sea-Station M6-Series Speakers

Top

- Forward Bow Shade (Steel Gray)
- GEMLUX Deluxe Outrigger System w/ 18" Collapsible Hybrid Poles
- Black Powdercoat Option (T-Top Frame, Rocket Launchers, Leaning Post)



Chapter 4: Safety and Regulations

4.1 Operator Responsibilities

Prior to enjoying your World Cat, it is important to read and understand all the information detailed in your Owner's Portfolio. Knowing how to operate and maintain the systems on your vessel can make your experiences safe and enjoyable, as well as increase the performance and longevity of your boat. Federal law and most state laws clearly indicate that it is the operator's responsibility to maintain their vessel, and to operate it in a manner which protects the safety of their passengers and others.

This manual will provide you a basic understanding of boating practices; however, we recommend all owners review federal, state, and local regulations regarding safety and traffic prior to using your World Cat. The U.S. Coast Guard Auxiliary and U.S. Power Squadrons offer excellent educational opportunities on a local level and are open to anyone. If a chapter does not exist in your area contact the following numbers for other educational opportunities:

Boating Education Hotline 1-800-336-BOAT (2628)
U.S. Coast Guard Boating Hotline 1-800-368-5647

4.2 Registration

Vessels are required by federal and state law to be registered in the state where they are primarily used. Registration numbers and validation stickers must be displayed per regulations, and a certificate of registration must be on board while the vessel is being operated. When traveling away from your home waters, contact authorities at your destination to determine if any additional registration is required. Some areas require permits or temporary registrations to operate in their waters. When completing registration forms you will be asked for the Hull Identification Number (HIN). On your World Cat, the HIN is located on the starboard side of the transom. This number is unique to your boat and will be important for registering your vessel, as well as communicating with your dealer and our service department. Including this information in any correspondence or conversations will help our support network serve you better.

4.3 Coast Guard Required Safety Equipment

Once you have reviewed safe boating guidelines and filed for registration, it is time to equip your vessel. The U.S. Coast Guard's (U.S.C.G.) list of required equipment is shown below. To review the guidelines go to <https://www.uscgboating.org/images/420.PDF>.

- Audible Signaling Device (Bell, Horn, or Whistle)
- Fire Extinguisher
- Navigation / Anchor Lights
- Personal Flotation Devices (PFD's)
- Visual Signaling Devices

NOTICE

Remember to check with state and local agencies to ensure that additional items are not required to operate your boat in their waterways.

4.4 Recommended Safety Equipment

Although not required, there are several additional items which help to ensure safety, and provide convenience for you and your passengers. Perform an annual inventory to keep tools, spare parts, and safety equipment in good condition. Immediately replace any items that have been removed from the kit.

!!! CAUTION

Use only marine grade replacement parts. Most automotive and residential parts are not suitable for use in the harsh marine environment. Using them could lead to premature product failure, property damage, or personal injury.

4.4.1 Capacity Information

On all boats under 26' in length, the manufacturer is required to provide capacity information. If you own a model under 26' in length you will find a rectangular metal plate near the helm. This plate will provide information on horsepower ratings and total capacities which include person capacities, motors, and gear. As an owner you should be aware of the weight on board. Exceeding capacity can endanger your passengers and vessel, as well as void any warranty remaining on the boat should a failure occur. Remember that this is a guideline for normal operation, and does not release you from responsibility should an accident occur. You must use rational judgment when adverse conditions are expected, and reduce your loads to create a margin of safety.

Horsepower ratings, however, are set by World Cat and *should not be exceeded*. The max horsepower rating for the 295CC is 600 HP. Exceeding the factory recommendation will result in loss of warranty coverage on your vessel.

4.5 Pollution Regulations

The Refuse Act of 1899 prohibits throwing, discharging or depositing any refuse matter of any kind (including trash, garbage, oil and other liquid pollutants) into the waters of the United States. This information is provided in a pamphlet that is normally received when registering your boat. Use the information below as a guideline, but study the pamphlet and understand any local regulations regarding pollution control. As the operator, you are also liable for individuals on your vessel disposing of materials in an improper manner.

4.6 Boating Safety Guidelines

As an owner / operator you should be prepared to handle any situation which arises before departure, while underway, or upon return to dock. Careful planning will add safety and pleasure to your experience and give you the confidence to handle emergencies if they develop. Listed below are some general guidelines which you should follow before any trip:

4.6.1 Pre-Departure

- Establish a float plan and provide it to a person whom you trust. The plan should give the details of your trip, including where you are going and when you expect to return. If you deviate from the plan, notify that person as soon as possible.
- If you anticipate operating in a new area, understand the local rules and request charts or information on any hazards you may not be aware of.
- If you are towing the boat, inspect the trailer including tires, lights, brakes, winch, and overall mechanical appearance.
- Verify that you have all necessary safety equipment. This should include all the USCG required equipment as well as spare parts or other items you decided to include.
- Check fuel levels and determine if you require additional fuel for your trip.
- Examine the weight of the gear on your vessel and make sure you are not overloaded. Distribute the weight evenly on your vessel to ensure predictable performance.

4.6.2 Launching

- Prepare your boat prior to backing down, (i.e. secure all loose items, install garboard drain), then launch your vessel and move away quickly.
- Move your vessel away from the dock and complete a full system check. Ensure that electronics, pumps, and safety equipment are in working order.
- Instruct a passenger on the operation of the boat, and the location and function of all safety equipment onboard. You should never be the only person capable of safely operating your vessel.

4.6.3 Underway (See Chapter 5 on Performance)

- Obey all "Rules of the Road" and any local regulations.
- Never operate a boat under the influence of alcohol or drugs.
- Do not allow individuals under the age of 16 to operate the vessel. Maintain direct supervision of inexperienced operators.
- Ensure that all passengers are safely seated while underway, and are using the hand rails World Cat has provided to remain securely in their seats.
- Use your electronics and judgment to remain abreast of changing weather. Storms develop quickly and you should be prepared to protect your passengers and vessel.
- Maintain a safe speed and respect other boaters as well as those on land. Obey all "No Wake Zones" and be aware of smaller vessels. The wake you produce could endanger other crafts and their passengers.
- Know the limitations of your craft and your experience. Understand the boat's handling characteristics and do not attempt to operate the vessel in conditions that are unsafe or beyond your experience level.

4.6.4 Returning

- Obey navigational markers and be aware of any tidal changes since departure.
- Collect and dispose of refuse properly to maintain our waters for future generations.
- Prepare your boat for loading before moving to the dock. Quickly pull your vessel from the water and move away from the ramp to complete the preparation for trailering.
- Verify that trailer systems are working properly and all items are secured before leaving.
- Wash the boat and perform general maintenance upon returning home. (See instructions in Chapter 5).

As stated above, these are only general guidelines for safe boating. We recommend using these and any other available resources to protect your passengers as well as your vessel.

4.7 Trailering

Due to the nature of the hull, catamarans require specialized trailers. Your dealer will be able to provide them, as well as information on safe trailering practices. Tow vehicles should be rated to handle the load and stresses which accompany trailering your boat. A properly matched trailer should carry 5-10% of the total vessel weight on the tongue. Routine inspections should be performed on the vehicle and trailer prior to each trip, and thorough checks scheduled on an annual basis.

4.8 Anchoring

There are several types of anchors available, each designed to operate in specific bottom conditions. Your dealer can provide information on which styles are most effective in your area.

!!! CAUTION

Never anchor your boat off the stern. The weight at the transom, combined with adverse sea conditions, could allow water to enter the boat over the transom wall.

4.9 Shallow Water

Although your World Cat draws a small amount of water for its size, shallow water should be a concern of all boaters. To avoid this hazard, pay particular attention to navigational markers and know the area you are operating in. Be aware of tidal changes, including those that have occurred during your trip. Rocks, stumps, or other hazards are more prevalent in shallow water and can cause major damage to your hull bottom. Engines can also suffer damage if they are allowed to run in the sand or mud.

If you do become grounded, tilt the motors up to reduce the draft at the transom. Often this will solve the problem; however, it may be necessary to rock the boat from side to side to break the suction along the keel. If you are grounded on an incoming tide, allowing the water to rise can help. Being grounded on an outgoing tide is a larger issue and you need to act quickly to free your boat to avoid being driven further aground. Use the anchor to secure the boat and await the incoming tide, or use it to pull yourself free.

4.10 Emergency Situations

Unfortunately, even the safest boating practices cannot eliminate the potential of emergency situations developing. Therefore you should prepare yourself and your crew to handle any problems that may arise. Establish specific plans for fires, man overboard, collision, etc., and review them with your passengers prior to departing. Planning allows people to remain calm, and gives everyone the confidence to resolve the problem. Below is important information which all owners should be aware.

4.10.1 Emergency Stop Switch

Lanyard clips are provided on all World Cats and, when used properly, provide an emergency stop for the engines should the driver fall from the helm position, or need to perform an emergency shutdown to respond to or avoid an accident. The clip attaches the driver to the ignition panel using a cord. A pull on the cord will release the clip from the shut-off switch on the panel and shut down the engines. To restart the engines, turn ignition switch to the off position, return binnacle to neutral position, insert safety lanyard back into clip and then turn ignition switches back on. This should only be used to prevent or react to accidents, and the operator is solely responsible for the decision.



4.10.2 Communication

If you witness an emergency or become involved in one, you should request assistance via radio communication or visual signals.

4.10.3 Rendering Assistance

Owners are required by law to render assistance to other boaters involved in an emergency situation such as fire, collision, casualty, etc., as long as it does not endanger your vessel or its passengers.

4.10.4 Reporting Accidents

Federal regulations require that operators involved in an accident file a written account of the situation within 48 hours. Reports should be submitted to the State Boating Law Administrator. You can obtain forms through the USCG or local authorities (i.e. harbor patrol, sheriff or police offices). In the event that a casualty or disappearance occurs as the result of an accident, you must notify the authorities immediately by phone or radio and fill out a written statement.

4.10.5 Weather

Pay attention to weather patterns. If you find yourself in the path of a storm, seek shelter immediately. If you cannot reach a dock, seek refuge inside the boat while the storm advances. Never get in the water and stay clear of metal components on your boat. If lightning strikes, it would likely pass through metal objects seeking a ground.

4.10.6 Towing

Due to an accident or loss of power, it may become necessary to tow another vessel or have your boat towed. If you are providing assistance, never attempt to tow a boat larger than your own. Be certain to use proper lines (ropes) and rational judgment to prevent further damage. Tow lines are under heavy strain, therefore passengers should remain clear of the lines to protect themselves from injury.

4.11 Carbon Monoxide (CO)

!!! DANGER

Carbon Monoxide (CO) is a colorless, odorless, and tasteless gas produced by the exhaust system of any combustible engine. CO can cause brain damage or death if inhaled over an extended period of time. To protect yourself and your passengers, never block the ventilation outlets in cabins, consoles, or other enclosed spaces.

One of the most important considerations when dealing with boating safety is carbon monoxide. Commonly referred to as CO, carbon monoxide is a colorless, odorless, and tasteless gas emitted from any engine exhaust. Including inboards and outboards. A CO particle is close in weight to the air we consume; therefore it does not rise or fall in the atmosphere, but accumulates in enclosed spaces. Boat owners with enclosed heads, cabins, or canvas enclosures should pay particular attention to CO. Be aware that fumes produced on your boat can affect other vessels and other boats can affect you. A primary concern is the use of generators when boats are moored adjacent to each other.

Carbon Monoxide is poisonous and potentially fatal if inhaled over an extended period of time. Symptoms of CO poisoning include:

- Dizziness
- Nausea / Vomiting
- Headache / Throbbing in the temples
- Fatigue
- Muscular twitching
- Inability to focus or think clearly

If you or any of passengers experience any of these symptoms, leave the area and find a source of fresh air immediately. If your symptoms persist, seek medical attention.

Chapter 5: Performance

5.1 Overview

This chapter will provide information on the performance characteristics of your catamaran; this is not a substitute for seamanship training or hands-on experience. First time boat owners should use the resources detailed in Chapter 1 to learn proper methods of boat operation. Experienced boaters who have never owned a catamaran should study this chapter completely. Do not assume that previous boating experience will apply to all situations, as there are several subtle differences in the handling characteristics of twin-hulled boats. For existing catamaran owners, this chapter should be a reference.

5.2 Motor Trim

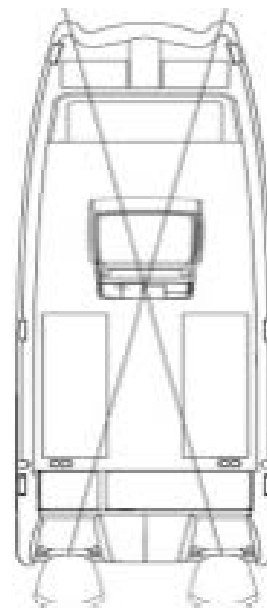
The smooth riding characteristics of a catamaran are a result of the twin hull design. Their ability to slice through on-coming waves is far superior to the slamming characteristics seen on conventional vessels. Motor trim plays an integral part in how your catamaran accomplishes this. In a level or bow down attitude, your boat will slice through larger chop, but you may experience sluggish performance, a wetter ride and increased bow steering in a following sea. In a bow up attitude the boat will perform better, but may ride less smoothly. Experiment with the trim settings in various sea conditions to determine what you are most comfortable with. When using the trim to correct a listing condition, imagine an “X” connecting the starboard engine to the port bow, and port engine to the starboard bow (see drawing below).

5.2.1 Bow Up Condition

To correct a bow up condition on the port sponson, adjust the motor trim “down” on the starboard engine. This will help the starboard sponson to rise and level the vessel. If moving to the lowest trim setting on the starboard engine does not correct the list, trim the port engine “up” to assist the change. Reverse the instructions to accommodate for a bow up condition on the starboard sponson.

5.2.2 Bow Down Condition

To correct a bow down condition on the port sponson, adjust the motor trim “up” on the starboard engine. This will help the starboard sponson to fall and level the vessel. If cavitation occurs on the starboard engine, lower it to correct the problem, then trim the port engine “down” to assist the change. Reverse the instructions to accommodate for a bow down condition on the starboard sponson.



5.3 Engine Controls

All factory rigged boats will come equipped with a binnacle control specific to your type of engine. Located at the helm, the binnacle controls the throttle, shift, and trim mechanisms for your engine. Also read the owner's manual provided by your engine manufacturer to determine how to operate the features on your binnacle. If any components of this system need to be replaced, be certain to use the same style and length as the original equipment.



5.4 Steering Controls

Catamarans offer unsurpassed steering control. The wide spacing of the engines, advanced steering components, and handling characteristics of the World Cat hull give operators exceptional maneuverability in even the tightest spaces.

Because of the superior tracking abilities of the World Cat hull, oversteering can present a problem, especially for owners accustomed to operating conventional boats. Conventional vessels have a tendency to lose tracking abilities in rough and following sea conditions, making constant course corrections necessary. However, catamarans do not exhibit those traits and require operators to take a “hands off” approach. To do so, relax your grip and fight the urge to make constant corrections.

5.5 Steering Maintenance - Twin Engines

In order to maintain the excellent steering characteristics of your boat, occasionally you will need to visually inspect all hoses and fittings for leaks and fluid levels. We also recommend checking your steering cylinders to ensure all bolts and nuts are still tight.

In order to maintain the excellent steering characteristics of your boat, occasionally you will need to adjust the steering system to realign the motors (known as motor toe). To do so follow these instructions:

- Using the helm, center the starboard motor.
- Find the steering system valve, located under the inspection port on the center of the transom.
- Open the valve by rotating it 90 degrees (the handle will be parallel to the valve body when open). This will isolate the port engine, so that it can be adjusted manually.
- Center the port motor manually; then close the steering system ball valve and reinstall the inspection port.

Similar to hydraulic braking systems in an automobile, it may become necessary to bleed the steering system occasionally to remove air from the lines. We have provided a diagram of the steering system in this chapter, and the Teleflex™ owner’s manual in your Owner’s Portfolio. Use these resources, and your dealer, to keep the steering system in excellent working order. Be aware, these are routine maintenance procedures and are not covered under warranty by World Cat.

!!! CAUTION

Routinely check hydraulic fluid levels and all connections for leaks or any sign of mechanical failure. Lubricate all mechanical parts at least annually with high quality marine grease. Failure to do so may result in impaired or unresponsive steering.

5.6 Power Steering System Diagram

The power assist unit provides automobile like steering on your catamaran. The unit is installed in the console between the helm and steering rams. The power for the unit is connected to the port and starboard key switch. If you choose to troll with only one engine your power assist will still be operational.

NOTICE

If possible, have your dealer or trained marine technician perform routine maintenance or repairs on your steering system. Replace faulty parts immediately.

5.6.1 Power Steering System - Bleeding Instructions

Reference the bleeding instructions provided by the SeaStar Solutions® owner's manual, which is included in your Owner's Portfolio. Use them in conjunction with the instructions and diagram below to bleed the steering system. This should be done annually or when air is detected in the system.

Step 1

- With the Power Purge turned "OFF", attach helm fitting and leads.
- Attach one of the leads to the bleeder valve on the Power Assist Pump.
- Open the bleeder valve using a 5/8" wrench.
- Turn the Power Purge unit "ON".
- Watch for air bubbles in the clear hydraulic lines. Once no more bubbles can be seen and there is a steady flow of hydraulic fluid through the lines, allow the Power Purge to run for an additional 60 seconds.
- The helm is now full of fluid. Turn Power Purge "OFF". Close bleeder valve and disconnect line from the Power Assist Pump. Place dust cap back on bleeder valve.



Step 2

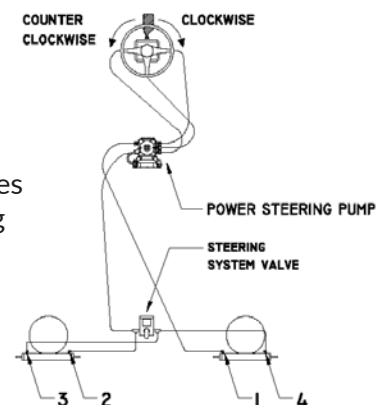
- Attach the four lines to each of the bleeder valves on the steering cylinders.
- Open each of the four bleeder valves.
- Turn Power Purge "ON".
- Turn the steering wheel slowly 20 times clockwise, then slowly 20 times counter-clockwise.

Step 3

- With Power Purge turned "ON", move both engines through their full range of motion (This will help remove any air bubbles still trapped inside the cylinders).
- As a final precautionary step, pull on the engines firmly at the ends of their normal range of motion (This will also help to insure all of the air is out of the cylinders).

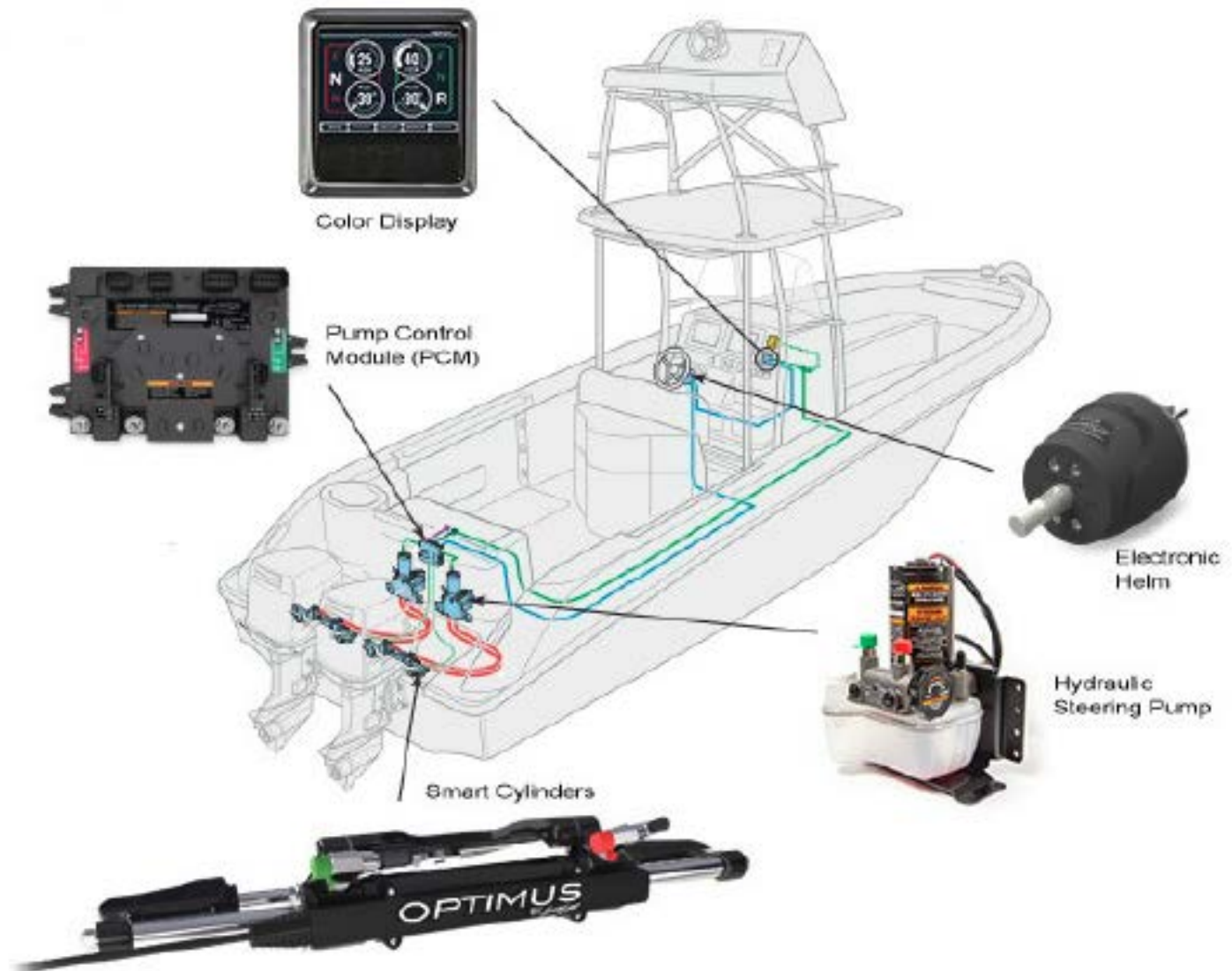
Step 4

- Turn the ignition key for the port engine "ON". This will turn the Power Assist Pump "ON".
- Repeat "Step 2".
- If no more bubbles can be seen then the bleeding is complete. Turn the Power Purge "OFF". Close all four bleeder valves. Disconnect the four lines from the cylinders and both lines from the helm. Remove the helm fitting and replace it with vent cap.
- If bubbles are still present in lines, then bleeding was not successful. Repeat entire process.



6.10.22 Optimus Electronic Power Steering Package (Standard)

The Optimus Electronic Power Steering package provides increased comfort, lighter steering loads, and car-like steering response when on the water. See the Optimus EPS user's manual for additional information.



Features:

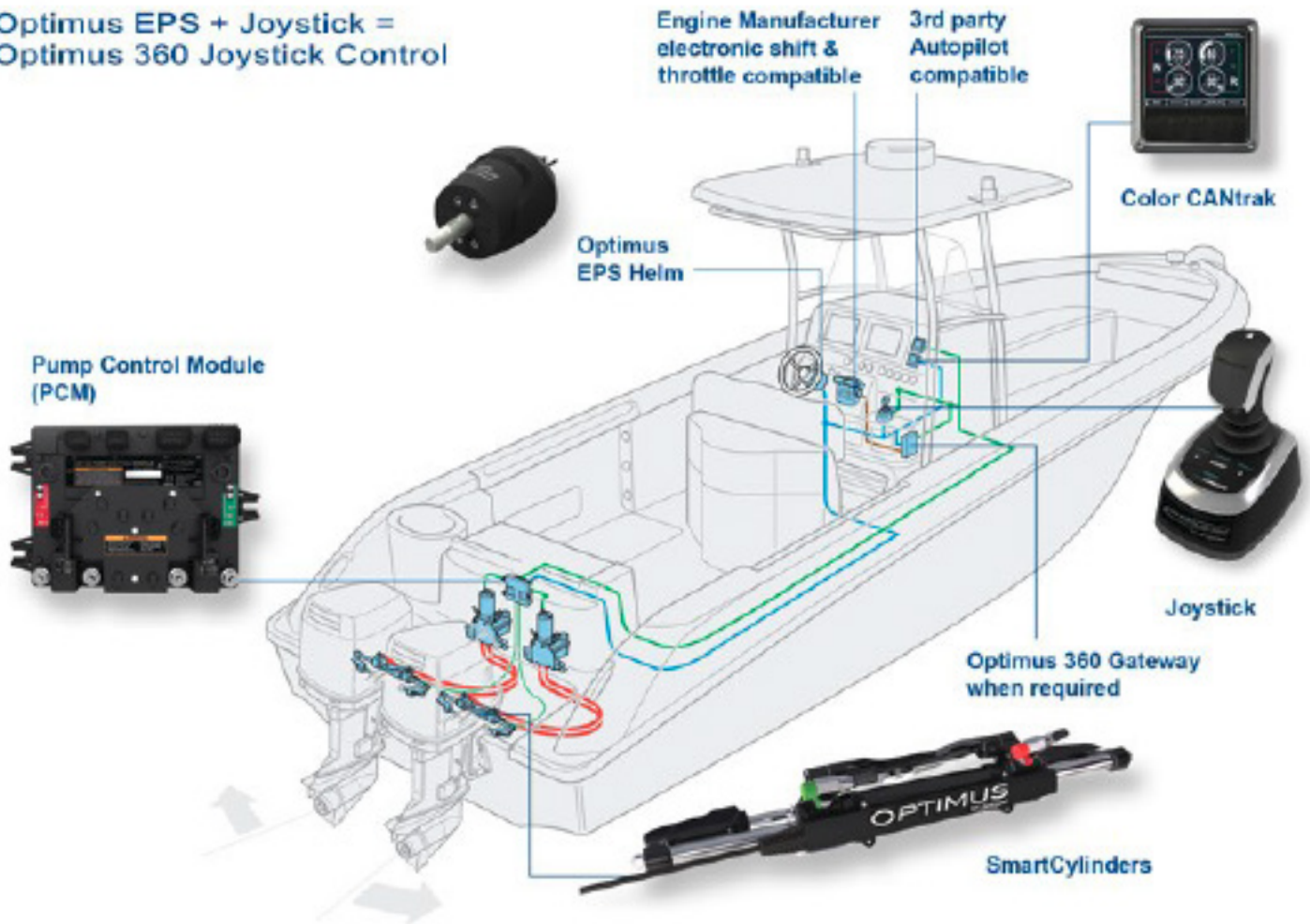
- User adjustable speed sensitive helm turns, wheel effort and steering response
- Fault tolerant CAN Bus network
- Sealed, locking cable connections
- On-demand hydraulic steering pumps
- Rigged with Kevlar-reinforced hydraulic hoses
- Adjustable stainless steel ORB fittings on the SmartCylinder
- Redundant systems for fail-safe operation

6.10.23 Optimus 360 with Electronic Steering, SeaStation, Joystick, and SeaWays Autopilot (Optional)

The Optimus 360 package includes Electronic Power Steering, Electronic Joystick Control System, and Seaways Autopilot. Using state-of-the-art electronics, it provides easy 360 degree maneuvering capabilities when docking, negotiating crowded areas, or loading a vessel onto a trailer. See the Optimus 360 user's manual for additional information.

Optimus 360 System Schematic

Optimus EPS + Joystick =
Optimus 360 Joystick Control



Features:

- Three axis joystick with guided feel and boost mode
- Unique joystick design with a focus on user ergonomics and harsh marine environments
- User adjustable speed sensitive helm turns, wheel effort, and steering response
- Fault tolerant CAN Bus network
- Sealed, locking cable connections
- On-demand hydraulic steering pumps
- Rigged with Kevlar-reinforced hydraulic hoses
- Adjustable stainless steel ORB fittings on the SmartCylinder
- Compatible with 3rd party autopilot systems
- Redundant systems for fail-safe operation
- Adjustable stainless steel ORB fittings on the SmartCylinder
- Redundant systems for fail-safe operation

HELM MASTER® EX OVERVIEW



Your World Cat comes standard with Yamaha's Digital Electric Steering (DES). Yamaha's DES is a compact steering device that replaces hydraulic steering systems. It works like a typical power steering system but without the hassle of maintaining hydraulics. There are no pumps, valves, hoses, or external Steering Control Units. Please refer to your Yamaha Helm Master EX Manual for more information.



Auto Pilot Panel

Full Maneuverability(Auto Pilot, Joystick)

Helm Master EX features the Yamaha Autopilot. A boat builder or dealership can easily add Yamaha Autopilot to the system by inserting a new panel in the console, adding a Heading Sensor, GPS antenna, Boat Control Unit (BCU), and related harnesses. Only Yamaha Autopilot is compatible with Yamaha DES. Please refer to your Yamaha Helm Master EX Manual for more information on how to operate the auto pilot functions. Helm Master EX option also features the Yamaha Full Maneuverability Joystick, which provides the captain with ease of operation in a variety of environments and applications. A boat builder or dealership can easily add Yamaha Joystick to the system. The joystick gives the captain ability to control shifting, steering, and throttle control with a thin, functional and ergonomic design. The joystick can control auto pilot heading, course, and speed changes. For more information, please refer to your Yamaha Helm Master Manual.

Propeller Lights

For any boat configured with the Full Maneuverability Joystick, propeller lights are installed on the stern. These lights serve to warn swimmers of an outboard motor activating at any time.



Joystick

!!! WARNING

When the Joystick is active, the propeller lights will be illuminated as a warning, no one should enter the water or approach the boat.

5.7 Handling Characteristics

World Cat's patented VectorFlo™ hull is a planing hull, Planing hulls provide speed and economy of operation since a limited amount of the hull is in contact with the water. Our proven design provides a superior ride, excellent handling characteristics in a variety of conditions, and speed with economy of operation. To help you experience "The Ultimate Ride", study the following sections.

5.7.1 Turning Characteristics

Turning a catamaran is slightly different than cornering on a conventional vessel. Imagine the difference between an automobile and a motorcycle: Automobiles take turns in a flatter, more stable manner similar to a catamaran hull, while motorcycles pitch hard into a turn similar to a monohull. Do not underestimate a catamaran's cornering ability. Hard adjustments to the steering wheel can make a World Cat bite quickly and execute high-performance turns. Experiment with the handling ability of your cat so you are prepared for any situation on the water.

5.7.2 Adverse Sea Conditions

Catamarans are designed to handle some of the roughest waters in the world, but that is no substitute for common sense. As an operator, you are responsible for the safety of your passengers and vessel; therefore, your trips should be limited by your level of experience. Planning and paying constant attention to the weather and sea conditions is paramount. If you are forced to operate in dangerous seas you can be confident that your World Cat, when operated properly, can handle them safely.

Here are a few tips on how to handle your boat in adverse sea conditions:

- When traveling into the wind, changing your direction a few degrees to allow one sponson to settle before the other, can make the ride smoother and allow for increased speed.
- In a rough chop with short wave intervals, increasing your speed may allow the boat to skim across the tops of each wave. This will result in a smoother ride.
- Steer to avoid larger swells and breaking waves.
- In a following sea, position your vessel on the back of a wave and match its speed to remain ahead of the trough. Speed is paramount. Work the throttle to avoid going over the wave or being thrown down the face of a following wave.

5.7.3 Cross-Clutching - Twin Engines

World Cat 295CC twin engines are mounted at a specific distance, based on the configuration of the boat, allowing you to cross-clutch (one motor in forward while one in reverse).

To dock, reverse the boat into a slip: put the outside motor in reverse and turn to face aft. Keeping the wheel straight, steer with the inside motor putting it in forward and reverse to guide you into the slip. Keep it simple and slow.

5.7.4 Get the Boat on Plane

- Trim both engines down (the motors act as trim tabs forcing the bow down).
- Quickly increase speed to get the boat on plane then slow down to 3500 RPM's.
- Adjust trim up until the motors cavitate, then tap trim down.
- Feel / hear the motors and do not watch the trim gauges.
- A smooth ride is more important than having your engine RPM's synchronized.

5.7.5 Keep the Boat Level (if the seas change or people move on the boat)

Trim the **High-Side-High**. When one side of the bow is high compared to the horizon, simply trim the high-side motor up. (If it cavitates then trim the **low-side-low**). Different models have different sensitivity to trim (do not over-correct as this may cause the boat to pitch in flat calm water at high speeds)

5.7.6 Handling Different Sea Conditions

- **Head Sea:** trim motors down to keep the bow down.
- **Following Sea:** trim up to keep the bow out of the water.
- **Calm water:** trim engines up to run on the back of the hull.

5.7.7 Boating Tips

Experience is the best way to determine the handling characteristics of your catamaran. Operating the boat in multiple sea conditions and under various loads will help you predict how the boat will perform in any situation. World Cat provides the following recommendations regarding the performance of your catamaran:

- Establish an RPM chart which details the speed and fuel consumption at various RPM levels to achieve the most economical operation.
- Monitor fuel gauges to determine the amount of operating time remaining at a given reading.
- Determine minimum speed for effective steering in close quarters.
- Determine the turning radius required at various speeds.
- Determine the rates of acceleration and deceleration with various load conditions. Include the distance required to stop the boat at various speeds.

5.8 Performance Factors

Proper setup and maintenance of the systems on your boat is important to ensuring proper performance, but be aware they are not the only factors which affect it. Several things which contribute to the level of performance of your catamaran can change between or during trips.

5.8.1 Engine Efficiency

Without proper maintenance, your engine(s) will gradually lose power, resulting in a loss of speed. Use the recommendations in the engine's owners manual to schedule routine maintenance procedures and as a guide for the correct RPM range for your engines. Neglecting to do so may result in loss of performance and an increased risk of failure.

5.8.2 Propeller Condition

The size and condition of your propeller also plays a major role in the performance of your catamaran. A damaged propeller can result in lower speeds, sudden drops in RPM, increased fuel consumption, and severe vibration while running. Improperly sized propellers can cause damage to your engine as a result of exceeding the maximum or minimum RPM levels.

5.8.3 Weather Conditions

Barometric pressure and humidity can affect the output of your engines. For example, on an extremely hot and humid day, your engine can experience as much as a 10 percent loss in horsepower. Although you should monitor your engines' performance, be aware that the weather could be a major factor in your boat's performance.

5.8.4 Load

Increased load can affect performance, especially if the load is unbalanced. Passengers, gear, and fuel are all examples of things which can affect your vessel. Fuel levels change throughout the day, and greatly affect the attitude of your boat. When necessary, make adjustments to engine trim and load distribution to compensate for fuel usage.

5.8.5 Marine Growth

If you store your boat in the water or fail to clean it after each trip, the existence of marine growth can contribute to a loss of performance. A decline in speed or increased fuel consumption can occur. Prevent this by applying a marine growth inhibitor or by cleaning your boat thoroughly after each trip.

5.8.6 Bottom Paint

Bottom painting your catamaran will also change the performance. Although not significant, you can expect a drop in speed between 1 and 5 miles per hour.

Chapter 6: Systems Information

6.1 Overview

This chapter will provide you with basic information for all the systems on your boat. Understanding this information is imperative, as it directly contributes to the safety and enjoyment of your trips on the water. Talk with your dealer if you need further information on any of these systems.

6.2 Fueling Guidelines

Study the following guidelines thoroughly, and consult your dealer if you have questions. Be sure to read the engine manufacturers recommendations regarding the type and grade of fuel to use for your engines.

!!! WARNING

Avoid methanol or other alcohol based fuels or additives which can deteriorate fuel hoses. Alcohol-based fuels also absorb water which can lead to engine damage.

!!! DANGER

Follow all safety guidelines while fueling. Leaking or spilled fuel is an explosion hazard. Regular checks of the fuel system are needed to protect you and the vessel.

!!! DANGER

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

6.2.1 Before Fueling

- Shut down the engines and turn off all electrical devices including the batteries.
- Close all hatches, port lights, and doors to prevent accumulation of fuel vapors.
- Extinguish cigarettes or other lighted materials.
- Keep a properly charged and correctly rated fire extinguisher nearby.

6.2.2 During Fueling

- Use common sense and obey all safety regulations related to fuel handling.
- Avoid static sparks by maintaining contact between the fuel nozzle and fuel fill.

6.2.3 After Fueling

- Secure the fuel cap and inspect for leaks.
- Clean up any spilled fuel and dispose of the cleaning material accordingly. Do not store fuel-soaked material on your boat.
- Open all hatches, port lights, and doors to allow for ventilation.
- Check for fuel vapors using a “sniff test” and do not turn on electrical devices, including batteries, until you are certain the fumes have dissipated.

6.3 Fuel System

Due to the nature of the hull design, your World Cat 295CC is equipped with separate port and starboard fuel systems. These systems act independently, providing fuel to the engine on their respective side. Tanks are constructed of polyethylene material to prevent corrosion.

Hoses are NMMA certified, and fittings are clamped securely to reduce the potential for leaks. However, comprehensive checks of hoses and fittings should be completed at least annually, including those normally hidden from view. Tighten all connections, replace deteriorated hoses, clamps or fittings, and, if necessary, replace the fuel / water separators during this check. World Cat has provided inspection plates (in the cockpit floor) to assist you with annual maintenance.

If you experience fuel flow problems, remove the fuel feed hose from your engine and connect it to a portable fuel tank. Doing so will help you determine if your fuel system or the engine is the source of the problem. Fuel system repairs and engine maintenance should be performed by a qualified marine technician.

The fuel / water separators are installed between the tank pickup and the engine. They are located in the aft rigging space. Inspect these filters regularly and replace when needed.

6.3.1 Fuel System Benefits

- Automotive-style refueling.
- Automotive Nozzle shut-off for overfill protection – reducing the possibility of accidental fuel spills.
- Fuel nozzle retention.
- Reduces hydrocarbon emission through the use of specially designed fuel fill. The fuel fill has a permanently attached cap incorporating a positive closure mechanism with an audible click, to let you know when the cap is sealed.

6.3.2 Fuel Tank

Your boat is equipped with two low permeation crosslink polyethylene fuel tanks each with a net fuel capacity of 116.5 gallons. The usable capacity of each fuel tank is different from the tank capacity marked on the tank from the manufacturer. The difference is the accommodation for the unfillable area that has been incorporated into your tank. It is recommended that you follow all of the instructions regarding the filling of fuel tanks.

6.3.3 Fuel Vent

The fuel tank vent is integrated into the fuel fill deck fitting (See fig. 6.3.6) The vent serves as an over pressure / vacuum release with anti-surge and flame / spark arresting protection. The fuel vent system also plays an important role in controlling the "FULL" level of fuel with the use of FLVV (Fill Limit Vent Valve). Grade Valves have been added to the tank which allows proper ventilation of the tank when the boat is stored, or trailered, on a moderate incline, without fuel. Always inspect to insure that the fuel fill deck fitting is free of debris and in proper working condition.

6.3.4 Fuel Distribution System

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

What does the IFDV do?

The integrated fuel demand valve, used in conjunction with integrated fuel systems, is for below-deck use, eliminates pressurized fuel from reaching fuel distribution lines / the engine, and ensures that fuel is provided to the engine on demand rather than as a result of pressure in the tank. Additional features include:

- Compatible with Ethanol-blended fuels
- Eliminates the need for rigid fuel distribution lines in pressure relief systems (per ABYC H-24, 15.9)
- 2-year warranty

6.3.5 Filling Fuel Tanks

The fuel system is designed to automatically shut off the fuel nozzle when the tank is full via the “Inlet Control Valve”, (See Fig 6.3.6) similar to an automotive fuel system. The tank is filled when the fuel fill nozzle has shut itself off the second time. Attempting to fill the tank past this point may cause some of the components to not function properly, or malfunction.

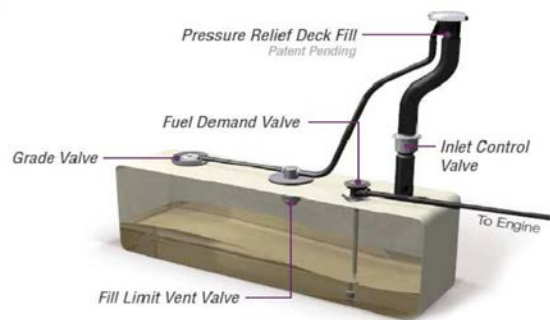
!!! WARNING

The use of a portable fuel tank to fill your fuel tanks can result in overfilling and circumvent the safe features designed into our fuel tank system.

!!! WARNING

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

6.3.6 Pressure Relief Fuel System Diagram



6.3.7 Troubleshooting Tips

Possible Failures

Loss of prime on the engine and / or fuel starvation:

- Engine stalls out
- Engine runs lean
- Engine does not draw fuel properly

Find possible leakage points and take corrective action:

- Fuel line leak from tank to engine—replace components as needed
- IFDV O-Ring—replace O-Ring
- Pick-up Tube O-Ring—replace O-Ring
- IFDV—replace IFDV

6.3.8 Integrated Fuel Demand Valve Components



6.4 Ethanol-blended Fuel

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

NOTICE

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

6.4.1 Additives

World Cat exclusively powers every new boat with Yamaha Outboards. Under its *Maintenance Matters* program, Yamaha recommends the following additives be used to maintain your new outboard at top performance: **Yamalube Fuel Stabilizer & Conditioner** to protect against the damaging effects of today's ethanol fuels and **Yamalube Ring Free** to prevent carbon buildup.

See your Yamaha owner's manual and your authorized Yamaha dealer for more detailed maintenance instructions.

6.5 Electrical System

The electrical system on your catamaran consists of three major components: the battery system, wiring and circuit protection, and accessories. It is important that you understand the principles of the electrical system so that you can protect the components and troubleshoot any problems you experience.

6.5.1 Battery System

Your World Cat is equipped with three batteries. Two of the batteries are dedicated as "cranking batteries" while the third battery, commonly referred to as the "house bank," controls the DC accessories. To help maintain your batteries, a management system is installed on your boat. This system enables you to engage or disconnect the batteries, distribute electrical charge, and parallel batteries in the event of a failure.

!!! DANGER

Disconnect the battery cables from the batteries prior to removing or working on the battery management panel. Failure to do so could result in electric shock. Reference the NMMA pamphlet in your Owner's Portfolio for more information.



6.5.2 Battery Distribution

This photo illustrates the battery management panel. The PORT START, STBD START, and HOUSE switches as well as the DC MAIN breaker are in the "OFF" position and the EMERG PARALLEL is "OFF". In the "ON" (turn clockwise) position, you are supplying power to the engines through the cranking leads and to the DC accessories through the 50 amp DC MAIN breaker.

NOTE: Only turn the EMERG PARALLEL switch on when needed.

Important: When you have finished your trip, turn the PORT START, STBD START and HOUSE switches off prior to leaving the boat. The DC MAIN can remain "ON" at all times.

6.5.3 Emergency Parallel

In the event of a battery failure, the “EMERG PARALLEL” switch allows you to mechanically link the port “cranking” battery to the starboard engine or vice versa. The switch should remain in the “OFF” position when not in use. To prevent voltage spikes or drops which can damage electrical components, you cannot draw power from the house battery using the “EMERG PARALLEL” switch.

!!! DANGER

All batteries contain an electrolyte, commonly sulfuric acid, which is a caustic and volatile chemical. Use extreme caution when charging or servicing.

6.5.4 Voltage Sensor Relay (VSR)

The twin voltage relay sensors are integrated into the battery switch cluster. They distribute the charging output from the engine alternator to the “cranking” and “house” batteries. After starting an engine, the alternator sends electricity back to the “cranking” battery to recharge it. Once the “cranking battery” is fully charged (13.6 volts), the VSR closes to allow the alternator output to charge the “house” battery. When the VSR is operating, the LED indicator located on the management panel will be lit. It will remain lit until the battery is fully charged, or the “cranking” battery voltage falls below 12.8 volts. It is common for the VSR to cycle “ON” and “OFF” during operation. However, constant cycling could indicate a problem in the system and should be checked by your dealer.

6.5.5 24 Hour Circuits

The fuse holders located at the batteries protect the 24 hour essential circuit wiring. Per NMMA and USCG guidelines, these fuses are constantly energized to provide power for bilge pumps and memory functions. This helps to protect your vessel even when you are not available. The battery switch does not need to be “ON” for these fuses to have power. Inspect the fuses regularly. If a fuse blows constantly, have your dealer investigate the problem as soon as possible to prevent damage to your boat.

6.6 Battery Selection

World Cat supplies the original batteries onboard your vessel. We use both Group 27 and Group 31 batteries. In the event of a failure, replacements must be of equal size and specifications (see below):

GROUP 27 (Cranking Battery)

CCA: 800

MCA: 1000

RESERVE CAPACITY: 182 Min @ 25A

GROUP 31 (House/Deep Cycle Battery)

CCA: 675

MCA: 845

RESERVE CAPACITY: 210 Min @ 25A

6.6.1 Battery Care

Batteries should be secured in a non-metallic tray and insulated boots should cover the terminals. Depending on the style of battery you choose, inspect the electrolyte and perform routine maintenance as suggested by the manufacturer. Remove corrosion from the terminals quickly to prevent failure. Use a stiff brush and a solution of water and baking soda to remove corrosion, then grease the terminals to prevent further build-up. Be careful to clean up thoroughly to avoid contaminating the electrolyte.

When servicing the batteries, follow the safety procedures shown below and work to avoid electrolyte spills which can harm you and your vessel.

!!! DANGER

All batteries contain an electrolyte, commonly sulfuric acid, which is a caustic and volatile chemical. Use extreme caution when charging or servicing.

6.6.2 Safety

- Use protective clothing and accessories such as aprons, gloves, and eye wear to protect yourself while servicing batteries.
- Avoid cigarettes, open flames, and sparks. Batteries can produce toxic and explosive gases; therefore, store or charge them in a well-ventilated space.
- Keep batteries out of the reach of children and pets.

6.6.3 Exposure

If you are exposed to the electrolyte solution, follow these procedures and seek immediate medical attention.

EXTERNAL - Flush with large amounts of water for contact with the skin. If severe irritation occurs or it contacts your eyes. Seek medical attention immediately.

INTERNAL - Consume large amounts of water or milk, coupled with milk of magnesia, a beaten egg, or vegetable oil. Seek medical attention immediately.

The guidelines above are basic and do not alleviate the owner of responsibility should an accident occur. Use good judgment and common sense to avoid an accident.

!!! CAUTION

When reconnecting your batteries, always connect the red cable to the positive terminal and the black cable to the negative terminal (in that order). Reversing them can damage your electrical system and create the potential for electric shock.

!!! CAUTION

Never disconnect a battery while underway. Doing so may result in damage to your boat's electrical system and the engine's alternator.

6.7 Wiring and Circuit Protection

Your World Cat is wired using marine grade tin coated copper wire instead of standard copper wire. Tin coated copper is manufactured to withstand the harsh saltwater environment better than standard copper, which is used for residential applications. Environmentally sealed Deutsch™ connectors are installed on all accessories located below the waterline to ensure watertight connections. The remaining devices are installed with high quality splices and terminals, which are heat shrunk to protect the integrity of the connection. Harnesses are routed through PVC rigging tubes to prevent chafing and covered with sheathing when necessary.

6.8 Control System

Your World Cat is equipped with a traditional switch operated DC control system. In the traditional setup, circuit protection is located above the switches on the instrument panel. A label is mounted on the control unit to advise you which breaker controls a given appliance. If a breaker trips simply push it in to reset. When possible, have your dealer replace defective electrical components. If that is impractical, be certain to use identical replacements to ensure the integrity of the system.

Accessories not integrated into the control unit can include lights with integrated switches, marine head controls, stereos, aftermarket electronics and 12V outlets. These devices draw current from the accessory fuse blocks. The fuse blocks are similar to those found in automobiles, and use blade style fuses to protect a circuit. You can obtain replacements for these fuses from your dealer or local auto parts store. Always replace a damaged fuse with one of equal rating.

!!! CAUTION

When working on your electrical system, disconnect the batteries to prevent shock, or damage to your electrical system. If possible, have an electrician perform repairs.

!!! CAUTION

Failing to use the correct replacement breaker could result in failure of the device or damage to the electrical system. Contact your dealer for repair information.

Ground blocks are another integral part of your electrical system. These are connected to the common battery ground and individual appliances to provide a path for current flow back to batteries.

For customers unfamiliar with electrical systems,
World Cat recommends the following book:

Boating Magazine's: Powerboater's Guide to Electrical Systems

Written by: Ed Sherman

Publisher: International Marine (Division of McGraw Hill Companies)

Copyright: 2007 International Marine

6.9 Dash Switch Panel

The dash switch panel controls the lights, pumps, and other accessories on your 295CC. It is located on the right side of the helm. The panel features lighted toggle switches which illuminate while the switches are active.



6.10 Accessories

Electrical accessories include all lights, pumps, and gauges assembled into your World Cat. Certain accessories are standard to each model, while others are optional equipment. Below is a list of accessories and their function.

6.10.1 Navigational Lights

Per USCG guidelines, all powered vessels must have navigational and anchor lights. Your World Cat is equipped with navigational lights at the bow and a anchor light on the hardtop. These lights must be used in accordance with USCG regulations when anchored or underway.

6.10.2 Cockpit Lights

Cockpit lights are located at floor level to provide light while operating in low light conditions.

6.10.3 Cabin / Console Lights

Lights located in the cabin or in consoles have an integrated power switch and are tied directly into the fuse block. Operate them with the switch located at the base of the light.

6.10.4 Spreader Lights

Attached to the hardtop or hardtop frame, spreader lights illuminate the cockpit in low light situations. They are operated using the switch on the dome light or instrument panel and are protected by a fuse block.

6.10.5 Overhead Lights

Located in the bottom of the hardtop, these lights feature both white and red lamps for nighttime operation. It is powered by the fuse block located in the radio box.

6.10.6 Bilge Pump / Float Switch

Your 295CC is equipped with two 1500 GPH bilge pumps. Each pump is connected to a float switch which automatically triggers the pump when water comes to rest in the bilge. The float switches are connected to the battery management panel and receive power from the breaker along the top of the panel. These breakers are constantly energized and ensure the safety of your boat even when the battery switches are in the "OFF" position. The pumps can be manually engaged using the switches located on the dash.



The aft bilge pumps are located behind the aft rigging compartment and can be accessed through the inspection plates in the motorwell, forward of the engines. The wiring for these pumps is secured on the outboard side of the centerline stringer which is visible from the inspection port.

Inspect the operation of your bilge pumps and their connections at least annually. To do so, activate the pump by momentarily lifting the arm on the float switch, then check the operation using the switches at the helm. When testing, do not allow the pumps to run dry for more than two to three seconds. Extended dry operation can result in damage to your pump. Keeping your bilge areas clean can also help extend the life of your pump.

6.10.7 Seacocks

The Ball Valve (seacock) is installed on the water intake for the raw water system. The seacock must be in the open position for the system to work. When open, the handle will be parallel to the valve. In the closed position the handle is perpendicular to the valve (see picture below). World Cat recommends that the seacock remain in the closed position when not in use, or when the boat is left unattended to prevent the vessel from taking on water due to a plumbing failure.



OPEN



CLOSED

6.10.8 Raw Water Pump

This pump supplies pressure to the raw water system. It contains a pressure switch similar to a residential well pump. You can leave this appliance on at all times while underway. The raw water pump and strainer are located in the starboard bilge compartment. The strainer is connected to a high speed pickup through the seacock located on the inboard side of the port sponson. The seacock must be open for the system to work. World Cat recommends that the seacock remain in the closed position when not in use, or when the boat is left unattended to prevent the vessel from taking on water due to a plumbing failure.



6.10.9 Freshwater Pump

The freshwater pump and wiring are located on the starboard side midship gunwale compartment. The freshwater pump is connected to the 25 gallon freshwater tank located beneath the port seatbox. The tank is filled through a fitting located on the port side of the deck. Similar to residential well pumps, the freshwater pump pressurizes the system to 45 psi. then shuts down until the pressure drops below that level. Most owners leave the pump “ON” throughout the day, and use the system when necessary. On your 295CC, the freshwater pump feeds the pull out shower located on the aft transom wall, and the marine head.

6.10.10 Macerator Pump

Used to evacuate waste and debris from fish boxes or to remove waste from marine head holding tanks. The pump is located on the port midship gunwale compartment. This 12V DC pump is self-priming up to 3’ in lift. It has a 1.5” inlet barb and a 1” outlet barb for easy and direct installation. For your safety it is thermally protected and ignition protected.



6.10.11 Livewell and Livewell Pump

The livewell on your 295CC has a capacity of 42 gallons. It is equipped with a single purpose livewell pump and adjustable flow regulator. The pump is located in the port bilge compartment, can be activated by a toggle switch on the dash switch panel, and can be reached through the inspection port in the motorwell. The wiring is secured to the pump using a tie-strap and must be disconnected prior to removing the pump.



The livewell pump draws water through the high speed pickup mounted on the inboard side of the port sponson. A seacock is installed between the pickup and the pump to allow you to seal the system between use, or in the event of a plumbing failure. To operate the livewell, first verify that the seacock and flow regulator are open, then close the valve accessible on the port side of the leaning post. When you have completed these steps, engage the livewell pump using the switch at the dash. The livewell light is also controlled by the switch. Water will fill the tank until it is level with the overboard drain, which evacuates water through the hullside. To clear bait residue from the tank during operation, temporarily open the valve. When you have finished using the livewell, open the valve to allow the water to drain overboard.

NOTICE

While underway, leaving your livewell seacock open could result in inadvertently filling your livewell. To prevent this, close the seacock when the pump is not in operation.

NOTICE

Operating the engines in reverse can cause excessive ventilation near the livewell intake, causing the pump to airlock. To prevent this, turn the pumps “OFF” prior to any continuous or high speed reverse operation. If your pump does become air locked, turn the pump “OFF” for 15 to 30 seconds to correct the problem.

6.10.12 USB Outlets

Located strategically throughout the boat, these outlets provide power to aftermarket accessories such as cell phones, electric reels, and spotlights. Each outlet is independently wired to the fuse panel.

6.10.13 Anchor Windlass - Freefall

Used to deploy and retrieve the anchor. This accessory is controlled by a dedicated switch at the helm and can also be controlled at the bow with up and down foot switches. The fuse is located at the battery management panel.

6.10.14 Windshield Wiper

The pantograph-style, heavy-duty, waterproof windshield wipers with rinse are operated by a dedicated rocker switch at the helm and function identically to those found on passenger automobiles.

6.10.15 Horn

This functions identically to the horn found on a passenger automobile and is operated by the switch labeled "Horn" on the dash switch panel.

6.10.16 Shower

The 295CC features a shower head located portside aft. The shower is supplied water from the 25 gallon freshwater tank. For more information, view the diagram on page 56 and contact your dealer.

6.10.17 Yamaha™ 300 HP 4-strokes with Command Link Plus

The Yamaha™ F300 4.2L V6 Offshore outboards come preinstalled on your World Cat when purchased with this optional package. Yamaha recommends using regular unleaded (minimum pump octane 89) fuel and Yamalube® 4M engine oil. For additional information and specific operating instructions refer to your Yamaha™ owner's manual.

The Yamaha™ package includes the Command Link Plus. This twin engine combo screen displays data for both engines simultaneously. The customizable screen displays critical systems data, including: shift position, engine RPM, boat speed, engine trim level, available fuel in gallons, fuel level, fuel flow, fuel economy, and up to three vital engine functions of your preference.

6.10.18 Fusion® Marine Entertainment System MS-RA670

The FUSION® 670 Marine Entertainment System delivers excellent sound performance and media integration. Featuring 4 JL Audio speakers, remote control, an internal UNI-Dock for charging, environmental protection and playback of the latest compatible Apple iOS, MTP Windows / Android and USB media devices, including Bluetooth A2DP / AVRCP audio streaming capabilities, and support for advanced FUSION-Link™ NMEA 2000 / Ethernet / Wi-Fi / Bluetooth connectivity. For specific operating instructions refer to your FUSION® system owner's manual.

6.10.20 LED Underwater Light Package (Optional)

Your World Cat offers optional LED surface mounted light utilizing the latest high powered LED's. These lights are installed on the port and starboard transom and can be turned on using the corresponding switch on the master switch panel.

6.10.21 Accessory Switch (ACCY)

The additional accessory switch (labeled: ACCY) on the 295CC dash panel that can be used to operate aftermarket products. Be aware of the power requirements for any add-on products, so you do not exceed the capacity of the breaker supplying the switch. Failure to do so could damage the appliance and / or the electrical system.

6.10.24 Marine Head

The marine head is powered by the fuse panel, and has a separate control panel mounted near the head. Water is supplied to the system from the freshwater tank; therefore, to operate the toilet the freshwater system must be pressurized. A solenoid, installed near the head inlet, prevents water from filling the bowl prior to each use. The macerator pump, located on the port midship gunwale compartment, removes waste from the bowl and pumps it into the 15 gallon holding tank. The control panel activates the solenoid to allow for water intake and discharge.



!!! WARNING

If the solenoid fails or becomes locked in the open position, shut off the supply system quickly and evacuate the bowl.

Control Panel Operations

The top rocker switch will flush the toilet and fill it at the same time once the switch has been depressed to the right.

The bottom rocker switch performs two functions:

- If depressed to the left it will fill the toilet to a desired level for user comfort.
- If depressed to the right the toilet will be evacuated.

Initial Start Up

On each trip, prior to using the head, complete the following steps:

- Turn on the freshwater system.
- Fill 1/3 of the bowl with water using the lower switch on the control panel.
- Hold down the top switch for 5 seconds to evacuate the bowl and refill with water.



Normal Use

Use the steps below for normal operation:

- Hold the upper switch on the panel down for 5 seconds. This will purge the bowl and refill it with water.
- In the event of inclement weather or rough seas, use the lower switch to remove water from the bowl and prevent sloshing.

!!! CAUTION

Large quantities of waste or paper can clog the head and cause odor issues. To prevent this, flush often and if necessary perform an extra flush to purge the discharge line.

!!! CAUTION

Do not dispose of foreign objects in the head. Doing so may damage the macerator pump or outlet hoses. Clogging or puncturing these lines will lead to odor problems.

Deck Pump Out

Upon returning, use the following instruction to empty the holding tank:

- Remove the cap from the deck pump-out fitting located on deck, outboard of the helm position.
- Use the vacuum hose at the pump-out station to clean the tank, then remove the hose and replace the deck fitting.

Overboard Discharge

Use the following steps to discharge the contents of the holding tank overboard:

- Open the overboard discharge seacock which is located on the port midship Gunwale compartment. The seacock must be in the open position before attempting to discharge the waste from the waste tank. Use the key switch located on the head switch panel to evacuate the tank.
- Inspect the tank level and repeat if needed, otherwise close the discharge seacock.

!!! CAUTION

Discharging waste in inland waters and some coastal areas is illegal. Check with local and state authorities in your region to determine the proper method for waste disposal.

6.10.25 Plumbing System

The intake and discharge of water is integral to several of the features and accessories provided on your boat, including sanitation devices and water systems. World Cat installs the plumbing components for these systems using high quality marine hoses and stainless clamps. However, this does not eliminate the need for routine checks of plumbing components or connections. A failure resulting from a deteriorated hose or connection could cause your boat to take on water or become swamped. For additional information about the plumbing system refer to the plumbing system diagram and speak with your dealer.

6.10.26 ProMariner ProSport-20 3-Bank Battery Charger

ProSport Marine Battery Chargers provide automatic installation feedback with its exclusive “System Check OK” and individual “Battery Bank Trouble” LED indicators. After fully charging and conditioning batteries, ProSport’s Energy Saver Mode will monitor and Auto Maintain batteries only when needed to maintain a full state of charge, resulting in maximum reserve power performance and lower AC power consumption and operating costs. The unit is 100% waterproof / shockproof and includes 4 digitally-selectable charge profiles including a once-a-month storage reconditioning mode for extending battery life. For specific operating instructions refer to the ProMariner ProSport owner’s manual.



6.10.27 Outriggers (Optional)

Outriggers enhance the fishability of your catamaran and can be a great asset when hunting a trophy catch. World Cat offers Taco™ outriggers as an option. The units are mounted on the fiberglass hardtop and operated using the handles above and outboard of the walkthrough. Use the information provided in section 7.6 to maintain the aluminum on the outriggers and grease the telescoping joints frequently to prevent damage from salt spray.

Chapter 7: Maintenance and Service

7.1 Overview

This chapter provides basic information for maintaining the original appearance and dependable performance of your World Cat. Although your vessel is constructed of the finest materials available, the harsh saltwater environment and other factors, including geography and usage rate, will affect its finish and function over time. It is imperative that you understand how to care for your catamaran properly. Some simple steps will help maintain its aesthetics, value, and reliability.

7.2 Gelcoat Maintenance

Gelcoat is a thin layer of resin mixed with colored pigments, which provides the exterior finish on your boat. Gelcoat provides a smooth durable surface to protect the fiberglass construction of the hull, but is still flexible enough to absorb the pressure exerted upon it during operation. Mainly used for cosmetics, gelcoat is relatively simple to maintain. However, without routine cleaning, it will discolor due to the microscopic pores in the surface.

7.2.1 Cleaning

After each trip on the water, or after trailering long distances, you should clean the boat immediately. Washing the boat with mild detergents, such as dishwashing soaps, and fresh water will help eliminate build up or discoloration resulting from environmental pollutants. Use a sponge or other soft cleaning device on the smooth exterior surfaces of the hull and deck. A soft brush can be used when cleaning nonskid portions of the deck. Make sure to rinse the boat thoroughly after cleaning.

!!! CAUTION

Using strong or caustic cleaning agents, such as bleach, citrus based cleaners, or one containing ammonia, will damage the appearance and strength of your gelcoat.

7.2.2 Waxing

Similar to automotive finishes, gelcoat will begin to fade over an extended period of time. Constant exposure to environmental pollutants will result in a loss of shine. However, it is possible to restore the original luster and color using a polishing compound (mild abrasive) or a rubbing compound (harsh abrasive). Each will remove scratches, discoloration, and help restore weathered gelcoat surfaces. You should select which compound to use based on the severity of the problem

Use the following steps to restore the finish of your gelcoat.

(Note that these procedures assume a moderate level of expertise of the person performing the work. If there is any doubt about ability to successfully accomplish the procedure, for best results it may be best to turn the process over to a professional.)

- Clean the affected area completely using a mild detergent.
- Gently wet sand the affected area using a fine sandpaper (600 grit) to remove any stains. Use plenty of water and always sand in one direction using curved strokes. Sanding in alternating directions could result in damage to the finish.
- Apply polishing compound to a buffing pad and follow the manufacturers instructions. If you apply the compound mechanically, we recommend a lamb wool buffing pad and a electric buffer capable of 1750 to 1800 RPM.
- When you have completely buffed the area, wash away any remaining compound using clean water.
- After thoroughly cleaning the surface, wax the affected area. This will help restore the finish and provide a seal against future discoloration.

!!! CAUTION

Using strong or caustic cleaning agents, such as bleach, citrus based cleaners, or one containing ammonia, will damage the appearance and strength of your gelcoat.

!!! CAUTION

When using an electric buffer, maintain constant motion. Allowing the pad to rest on an isolated spot can cause heat buildup, which can damage the gelcoat.

!!! CAUTION

Routinely clean and wax your catamaran to help prevent the need for excessive use of rubbing and polishing compounds, which over time can deteriorate the gelcoat.

By following the instructions listed above you can guarantee that your catamaran will remain in near showroom condition and remain a source of pride for years to come.

7.2.3 Repair

Although gelcoat is a flexible material capable of handling environmental punishment and extended use, it is susceptible to scratches, blistering and cracking over time. Gelcoat distortion or cracking is unappealing, but rarely represents any structural failure. Have your dealer inspect any damage to your gelcoat to determine the nature of the failure. If it is only cosmetic, they can provide color matched kits, instructions, and any chemicals you need for application or cleanup. Structural damage should be repaired by your dealer or a qualified fiberglass repair shop.

!!! WARNING

Gelcoat and the chemicals used for its application and cleanup are extremely flammable and toxic. Follow all handling and mixing instructions, provide for proper ventilation, and keep water containers nearby to submerge catalyzed materials.

7.3 Bottom Paint

If you intend to leave your boat in wet storage, or routinely dock it for more than a few days, you should coat the hull beneath the water line with anti-fouling paint. This will help prevent marine growth, such as barnacles, which damage the gelcoat and affect performance. World Cat recommends using an epoxy barrier coat prior to painting a new vessel. This will help to prevent, but will not eliminate, gelcoat blistering on the hull, which is not covered by the warranty. Your dealer can provide information on bottom painting to protect against environmental toxins in your area. Anti-fouling paints are made to dissolve over time, so inspect and clean the hull bottom annually and recoat when necessary.

7.4 Upholstery

Basic Stains - Clean with a mild detergent and a soft to medium brush, or an all-purpose cleaner and rinse well with fresh water after cleaning.

Mildew - Use a 4 to 1 mixture of water and ammonia, brushing the stain vigorously to remove the bacteria responsible for the mildew. If the stain remains, briefly apply bleach to the area and rinse with fresh water.

Tough Stains or Mildew - Use a mixture of 1 tablespoon of ammonia, 1/4 cup of hydrogen peroxide, and 3/4 cup distilled water. Briefly, apply to the surface, allowing the peroxide to bubble. Rinse with fresh water.

!!! WARNING

Do not mix ammonia and household bleach. Doing so will result in the formation of deadly chlorine gas. If it is necessary to use bleach, clean up any traces of ammonia and ventilate the work space for a minimum of 15 minutes prior to applying bleach.

7.5 Trim / Plexiglass / Polyethylene

World Cat uses vinyl, plexiglass, and polyethylene material (Starboard™) throughout the interior of our catamarans.

Use the following instructions to care for these items:

- Use mild detergents to clean vinyl trim commonly used in cabins and helm. Routinely use a commercially available surface protector to seal the vinyl.
- Surface or glass cleaners can be used to clean plexiglass. It is commonly used for radio boxes and as a protective material for instrument panels.
- Starboard™ can be cleaned using surface cleaners such as 409™.

7.6 Stainless Steel / Aluminum

Stainless steel and aluminum are used throughout your vessel. World Cat uses only 316 marine grade stainless hardware and anodized aluminum to provide you with years of service; however, these metals can deteriorate and fail if improperly cared for. Upon returning, clean all hardware using a mild detergent and rinse thoroughly with fresh water. Avoid using abrasive cleaners or chlorine based products, as they will remove the metal's protective coating and lead to pitting or rust. Throughout the year, coat the metal using a non-abrasive metal protector to help displace moisture, remove contaminants, and shield the metal. World Cat recommends high quality sealants such as Boeshield T-9™ developed by Boeing™ Aviation. If you cannot find it locally call PMS Products Inc. at 800-962-1732.

7.7 Bilge Compartments

Routinely check the condition of the bilge compartments in your boat. This will help identify potential problems and eliminate odors associated with stagnant water and the buildup of residue. Clean the compartments using a freshwater rinse. This will also enable you to check the function of your drain system and the operation of the bilge pumps.

7.8 Cockpit Drains

All World Cats have four drains located in the cockpit, two on both the starboard and port sides. These drains are designed to quickly evacuate the cockpit should the boat become swamped. Flushing these drains routinely will ensure the safety of your crew and vessel, as well as eliminate the potential for odors associated with fish residue. These drains are evacuated through the scuppers located on the hull side. Each scupper has a rubber flap to prevent water from entering the boat. Check this material occasionally to keep the scuppers free of debris and in good working condition.

7.9 Winterization

Routine maintenance checks should be performed prior to each trip in accordance with Chapter 1, but a broader assessment should be done before winterizing your catamaran and prior to the first trip of the season. If your local climate does not require winter storage, complete the following steps at least annually to ensure the safe operation of your boat:

- Do not leave loose items or personal effects onboard during storage. Remove all trash and debris prior to cleaning the boat.
- Before storage, clean the boat thoroughly, including exterior surfaces, fish boxes, livewells, and thru hull fittings. If possible, leave lids open slightly to allow fresh air exchange.
- Remove the garboard drains and store the boat with the bow up to allow drainage.
- Inspect all electrical connections and the operation of pumps or other electrical devices.
- Perform repairs if necessary. Coat electrical panels with an anti-corrosive spray (available from your dealer).
- Inspect the batteries and charge fully to prevent damage during storage.
- Disconnect the cables and apply a coat of grease to the terminals to prohibit corrosion.
- Inspect all plumbing components and connections to prevent leaks.
- Replace any damaged hoses.
- Drain all lines and devices to prevent damage from freezing.
- Lubricate valves to maintain proper operation.
- Use the manufacturer's recommendations for portable and marine heads.
- Inspect fuel system components and replace fuel / water separators. You can keep the system fueled but do not overfill, and use a fuel additive to prevent condensation.
- Lubricate hinges and coat all metal surfaces with a metal protecting compound. Tighten down any hardware if necessary.
- Inspect caulking around hardware, windows, hatches, etc., to prevent water damage. Normal use will break down sealants and can lead to costly repairs if not maintained.
- Remove or cover all electrical devices to prevent damage from UV rays. The rays will cloud electrical displays and make them hard to read.
- Remove cushions and store indoors to prevent damage.
- Winterize the engines and controls per manufacturer's recommendations and inspect all connections, filters, and parts thoroughly. Replace parts as needed.

7.10 Maintenance Schedule

Maintenance	Each Use	Weekly	Monthly	Quarterly	Yearly	As Needed
Clean hull below the waterline				X		X
Bottom paint the hull					X	X
Check / replace sacrificial anodes			X			
Wash boat hardware and canvas	X		X			
Wax exterior gelcoat				X		X
Clean & protect hardware						X
Clean exterior upholstery	X					X
Clean cabin & interior upholstery						X
Flush engines with fresh water	X					
Spray metal components in bilges			X			
Clean bilge				X		X
Check bilge for leaks	X		X			
Inspect steering & controls	X					
Inspect fuel systems for leaks	X					
Replace fuel filters					X	X
Lubricate fuel fill o-rings			X			
Inspect fire extinguisher			X			
Test bilge pump auto switches	X		X			
Check battery electrolyte & service			X			
Check proper functioning of pumps	X					
Replace pumps					X	X
Replace gaskets						X
Inspect & operate thru-hull valves			X			

7.11 Maintenance Log

[illegible]

Chapter 8: Hurricane Preparedness Customer Checklist

Equipment To Be Kept On Board:

- ☐ Chafing gear
- ☐ Fenders
- ☐ Flashlight with spare batteries
- ☐ Two sufficient anchors with 300' or more oversized rode
- ☐ Battery-operated radio

Check Monthly:

- ☐ Exterior lights operable
- ☐ Auto bilge pump operating (check battery)
- ☐ Hatches are watertight
- ☐ Power and electric gear operating
- ☐ Engine battery charged
- ☐ Flashlight battery charged
- ☐ Radio batteries charged

To Do At A New Marina:

- ☐ Learn marina approaches and basin.
- ☐ Learn the size and type of your mooring.
- ☐ Ensure mooring and lines are sufficient for all likely wind direction and velocity.
- ☐ Ensure mooring has enough weight and scope and is properly set.
- ☐ Learn your moorage lease and rental agreement responsibilities.
- ☐ Learn responsibilities for your boat's safety when a hurricane is approaching.
- ☐ Develop a plan for securing your vessel outside the marina if you plan to evacuate.
- ☐ If evacuating, visit the site by boat and time the trip.
- ☐ Learn what possible delays you may encounter when evacuating (drawbridges, boat traffic ,etc.).
- ☐ Photograph your boat and surroundings.
- ☐ Keep a list of all equipment on board.
- ☐ Keep a list of all equipment that will be removed during storm preparations.
- ☐ Keep a complete set of records for your boat at home.
- ☐ Give the marina operator the name and number of your absentee skipper.
- ☐ Give the marina operator a description of your boat, registration number and location.

Docked Boat Preparations:

- ☐ Strip all removable items, including spare rigging.
- ☐ Clear self-bailing cockpit drains.
- ☐ Close all thru-hull fittings.
- ☐ Set chafing gear where lines will rub (chocks, cross lines, deck edge, dock edge etc.).
- ☐ Remove portable fuel and oil storage containers.
- ☐ Remove ship papers.
- ☐ Shut off fuel tanks.
- ☐ Leave anchor light on.
- ☐ Leave auto bilge pump on.
- ☐ Check openings to ensure boat is watertight.
- ☐ Set and check storm anchors.
- ☐ Consider attaching 3 sets of bow and stern spring lines.
- ☐ Consider attaching lines to cleats at a 45 degree angle.
- ☐ Consider tying your boat between two piers or along a pier and anchored off one side.

Moored Boat Preparations

Make Plans To Have Someone Pick You Up From Your Boat Before The Storm Arrives

- ☐ Strip all removable items, including spare rigging.
- ☐ Clear self-bailing cockpit drains.
- ☐ Close all through hull fittings.
- ☐ Remove portable fuel and oil storage containers.
- ☐ Remove ship papers.
- ☐ Shut off fuel tanks.
- ☐ Leave anchor light on.
- ☐ Leave auto bilge pump on.
- ☐ Check openings to ensure boat is watertight.
- ☐ Use storm pennants to increase scope.
- ☐ Attach chains directly to pennants instead of swivels.
- ☐ Add an emergency catenary weight at the vessel end of the chain.
- ☐ Use double or triple chafe protection.
- ☐ Use chafing gear over entire length of pennants.
- ☐ Use two pennants.
- ☐ If no permanent mooring is available, use two storm anchors at 45 degree angles.

Trailerable Boat Preparations

Store in a garage:

- ☐ Strip all removable items, including spare rigging.
- ☐ Clear self-bailing cockpit drains.
- ☐ Close all through-hull fittings.
- ☐ Remove portable fuel and oil storage containers.
- ☐ Remove ship papers.
- ☐ Shut off fuel tanks.
- ☐ Leave auto bilge pump on.
- ☐ Check openings to ensure boat is watertight.
- ☐ _____
- ☐ _____
- ☐ _____

If no garage is available:

- ☐ Secure trailer to a sturdy object.
- ☐ Let half the air out of the trailer tires.
- ☐ Put wood blocks between the frame and axle.
- ☐ Take out the drain plugs.
- ☐ Cover with tarp.
- ☐ Use tie-downs.
- ☐ _____
- ☐ _____
- ☐ _____

Anchored Boat Preparations

Make Plans To Have Someone Pick You Up From Your Boat Before The Storm Arrives

- ☐ Strip all removable items, including spare rigging.
- ☐ Clear self-bailing cockpit drains.
- ☐ Close all through-hull fittings.
- ☐ Remove portable fuel and oil storage containers.
- ☐ Remove ship papers.
- ☐ Shut off fuel tanks.
- ☐ Leave auto bilge pump on.
- ☐ Check openings to ensure boat is watertight.
- ☐ Use 3 or 4 substantial anchors and good tie rope.
- ☐ Tie your boat high on the mainland to a substantial tree or similar structure.
- ☐ Do not tie parallel to the bank.
- ☐ Keep a navigable passage at your stern to allow other boats passage.
- ☐ Use enough line to allow for storm surge.
- ☐ Leave enough room between your boat and others to allow for swing.
- ☐ Take valuables off.
- ☐ -----
- ☐ -----
- ☐ -----
- ☐ -----

2023 MODEL YEAR LIMITED WARRANTY

Congratulations on the purchase of your World Cat product. We want you to have years of pleasure and fun aboard your new World Cat boat. This document is your Limited Warranty. It describes the terms and conditions of the warranty agreement between us. It applies to all World Cat Products sold under the World Cat or brands manufactured beginning with the 2023 Model Year. Your Model Year is identified by the Hull Identification Number ("HIN"), which is unique to every boat and is located on the stern.

It is important to understand what a limited warranty does. It is an agreement between you and World Cat that your vessel will be free from substantial defects in material and workmanship for a specified length of time. However, if a defect does occur, you and World Cat agree that you will allow World Cat to repair it or, at our discretion, replace it as set forth herein. All products need repairs and maintenance from time to time, especially boats. Boats have a rough life in that they often go long periods between use, and when they are used, boats must perform in a difficult environment. Because of this, you should understand what your limited warranty does and does not cover and the terms and conditions that apply to it. Please note that there are disclaimers and limitations on page two of this Limited Warranty.

I. LIMITED WARRANTY

1. **Ten Year Limited Hull Warranty.** World Cat warrants that it will repair, or at its sole and exclusive discretion, replace any substantial defect in material or workmanship in the hull (defined as the one-piece fiberglass molded part that acts as the vessel's running surfaces) for the first ten (10) years following the date of purchase by the original retail owner. In the event that World Cat determines that your hull must be replaced, you agree to give us back the original hull and we will put a new hull on your boat. The replacement hull will be an upgraded model if the original model is no longer offered. Transfer of all accessories, including engines and electronics, will be at owner's expense.
2. **One Year Limited Material And Workmanship Warranty.** World Cat warrants that it will repair or, at its sole and exclusive discretion, replace any substantial defect in material or workmanship in any other parts or components of the boat that do not carry their own, separate written warranty, for a period of one (1) year following the date of purchase by the original retail owner. Under no circumstances will World Cat warrant the engine, trailer or electronics.

II. WARRANTY LIMITATIONS

This Limited Warranty does NOT cover the following:

1. Defects and/or damage arising out of engines transmissions, running gear and outdrives, metal plating or finishes, windshield breakage, and leakage due to seal and/or caulk shrinkage and/or normal wear and tear;
2. Defects and/or damage to gel coat or painted surfaces including, but not limited to, discoloration, fading, chalking, and/or osmotic blistering;
3. Defects and/or damages related to accessories, alterations, modifications or installations which were not part of the boat when shipped from the World Cat factory, and/or not authorized in writing by World Cat;
4. Damage and/or defects related to misuse, such as groundings and impacts with docks, pilings, navigation buoys, etc.; accidents; reckless, unsafe or improper use relative to existing sea conditions; lack of recommended maintenance, or improper trailering, blocking or lifting; and/or repairs by the owner or other persons without prior, written authorization from World Cat;
5. Use of the boat for competition, racing, or used for rental, business or commercial purposes without the prior written authorization of World Cat. Rental, racing, business or commercial use without prior, written authorization voids this warranty;
6. Defects and/or damage related to operation of the boat in violation of any Coast Guard regulations or other governmental laws, rules, or regulations;

2023 MODEL YEAR LIMITED WARRANTY

7. Mildew, water damage, dry rot, staining or water absorption on interior materials and/or surfaces including but not limited to upholstery, cushions, cabinets or floor coverings, as a result of sustained exposure to humid conditions.
8. Galvanization and/or electrolysis or and other damage caused or contributed to by stray electrical current.
9. Defects, injury, costs or damages arising out the use of engines with a rated horsepower exceeding the maximum rated horsepower for each model as defined by World Cat Boats or as reflected on the capacity label.

III. CUSTOMER OBLIGATIONS

1. You must sign and submit to World Cat the “LIMITED WARRANTY REGISTRATION FORM” within thirty (30) days of the date of delivery. Your dealer can do this for you, but it is up to you to request them to do so. THE REGISTRATION FORM IS NOT A WARRANTY AND MAY NOT BE USED TO MODIFY OR CONFLICT WITH ANY TERMS OF THIS LIMITED WARRANTY;
2. In the event you discover a defect, you must first notify the dealer from whom the boat was purchased within a reasonable period of time (not to exceed thirty (30) days) after you know or should know the defect exists;
3. World Cat will not be responsible for damage or to continue to repair or replace your boat or any part of it if your continued use prior to repair causes additional damage;
4. If you believe a claim has been denied in error or the dealer has performed the warranty repairs in an unsatisfactory manner, the owner must notify the World Cat Customer Service Department in writing within thirty (30) days of the repair attempt at the address listed below under “**Notice.**” World Cat will then review your claim and take appropriate follow-up action.
5. You should keep records of all maintenance services. This record of proper maintenance may be required to determine warranty coverage on certain repairs and should be transferred to each subsequent owner. Please refer to the Owner’s Manual that came with your boat for the proper maintenance procedures.
6. In the event a repair must be made at a factory authorized repair center or at the World Cat factory, transportation to and from the repair center shall be made at the Customer’s expense and not at the expense of World Cat or its authorized dealer.

IV. TRANSFERABILITY

You can transfer the unexpired term of this limited warranty once to a new owner, provided that the transfer occurs during the first (5) five years after the date of purchase. A copy of the bill of sale from the original owner is required, as well as completion of the transfer form. The new owner must register the transfer of limited warranty within 30 days of purchase, by sending a written request to the address listed in the Notice section below along with a registration fee of \$395. World Cat reserves the right to reject any warranty transfer request for a boat that has been damaged, neglected or otherwise previously excluded from warranty coverage.

V. DISPUTE & RESOLUTION

Mandatory Mediation before Suit

In the unlikely event we cannot agree on a resolution of any issue regarding your boat and/or the terms of this agreement, or in fact of any issue arising between you and World Cat and/or a World Cat dealer, you and World Cat agree to submit the dispute to mediation. Mediation is a settlement conference before a trained mediator that you and a World Cat representative with authority to resolve our differences are required to attend. We will pay the costs of mediation, but World Cat will not be responsible for travel expenses, other costs or attorney fees. You and World Cat will select a mutually agreeable mediator together. If we cannot agree, then any judge with potential jurisdiction over the case

2023 MODEL YEAR LIMITED WARRANTY

will select the mediator. The mediation will be at a mutually agreeable location but it will also be within 100 miles of the place of purchase unless otherwise agreed. You agree that no lawsuit or arbitration or administrative action of any kind for any type of damage or remedy may be requested or filed until this mediation is completed. The mediation shall be completed within six months of the first demand by you or World Cat to mediate unless otherwise agreed.

VI. DISCLAIMER OF IMPLIED WARRANTIES

This is a limited warranty. World Cat makes no warranty, other than as contained herein and no decals, promotional literature, brochures, website materials and/or pre-delivery service inspection records/forms or brochures shall be construed as any additional or separate warranty. To the extent allowed by law, all warranties of merchantability, workmanship, seaworthiness or fitness for a particular purpose are disclaimed and excluded.

VII. LIMITATION OF REMEDY AND EXCLUSION OF CERTAIN DAMAGES

All incidental and/or consequential damages are excluded from this limited warranty. You and World Cat agree that your sole and exclusive remedy under this limited warranty (and any implied or statutory warranty) is the repair or replacement of the vessel or defective component as set forth above. No other legal or equitable remedies shall be available to you in return for the benefits of this limited warranty.

VIII. PERFECT TENDER

A "perfect tender" means that we have a right to replace your boat if, in our discretion, the claimed defect requires replacement and we agree to do so immediately. For these purposes, "immediately" means within ninety (90) days from the date you first notify us that you believe that we have failed to honor this limited (or any other) warranty and/or otherwise failed to properly remedy a substantial defect. In the event you notify us in writing, per this agreement, of a failure on our part and we agree to replace your boat with a new boat as described in your original purchase agreement, then in the event you reject the offer of a new boat and file a lawsuit or other legal claim, you agree that in return, World Cat will be not responsible for your attorney fees and court costs. If you have financed the boat, you must either pay off the amount you owe before we deliver the new boat or we will assist you to substitute the new boat as collateral. We are not responsible for paying off your present boat.

IX. OTHER TERMS AND CONDITIONS

This limited warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state. Some states and/or federal laws do not allow limitations to implied warranties or as to remedies or certain damages, so the above disclaimers and/or limitations may not apply to you.

World Cat will discharge its obligations under this warranty as quickly as possible, but we cannot guarantee any specific completion date. This is due to the potential complexity of the repair or the availability of parts from sources over which World Cat has limited control. You agree that the time for repairs does not include time spent waiting for parts or the time your boat may end up stored at our factory or at a dealer for your convenience or due to scheduling. World Cat reserves the right to change or improve the design of its boats, without obligation to modify any boat previously manufactured. World Cat shall in no way be responsible for any repairs not PRE-AUTHORIZED by a World Cat Customer Service Manager or repairs performed by a repair shop not PRE-AUTHORIZED by a World Cat Customer Service Manager. "PRE-AUTHORIZED" means that we have prior approval in how the repairs are performed before they are performed.

2023 MODEL YEAR LIMITED WARRANTY

X. NO WAIVER OF THESE TERMS

The terms, conditions, limitations and disclaimers contained herein cannot be waived except by a management level employee of World Cat. Any waiver we give shall be in writing. Neither the dealer, nor any service, sales and/or warranty representative of World Cat are authorized to waive and/or modify these conditions, limitations and/or disclaimers.

XI. NOTICE

All communications and notices from you and/or a new owner requesting a transfer of this limited warranty should be sent to: World Cat Customer Service, 1090 West Saint James Street, Tarboro, NC 27886 or faxed to 919-882-8035. You can also email us at: **service@worldcat.com**, but you must request an acknowledgment that our Customer Service Department actually received it.

ACKNOWLEDGMENT OF LIMITED WARRANTY

By signing below, you agree that you have read this limited warranty in its entirety and understands its terms and conditions. You acknowledge that you have received a copy of this limited warranty at or before the time of the sale.

Purchaser's Name _____

Spouse's Name _____

Street Address _____

City, State, Zip _____

Email _____

Mobile Number _____

Where do you do your boating? _____

Purchaser's Signature _____

Dealer Signature _____

Date _____

Delivery Date _____

Model _____

HIN _____

Selling Dealer _____

Sales Representative _____

Original Owner

Second Owner

Would you like to receive exciting updates from
World Cat?

Text

Email

Chapter 10: Lewmar Deck Switch and Winch Operation



Deck Switch Advisory

Overview

Electric deck switches operate in a hostile environment and are subject to salt water, extremes of temperature, direct sunlight and UV effect. They are also susceptible to wear and tear following repeated use and can in some instances suffer accidental damage during boat operations. It is therefore recommended that regular visual and functional inspection of the switch, the circuitry and the equipment being controlled is carried out by a competent qualified person on a regular basis. If any defects are noted on the switch (see next section), replacement is mandatory so as to avoid the possibility of a malfunction. It is further recommended that an item of this nature is not intended to remain in service forever. The lifespan will depend upon the weather and UV conditions to which the switch is exposed as well as the amount of use. Therefore, a service lifespan of 3 to 5 years from date of purchase can be expected, after which time it should be replaced. Shorter lifespans could be experienced and the following inspection recommendations are therefore important in ensuring continuing safe operation.

Inspection

The deck switch and the system it controls should be fully tested in a 'No Load' condition prior to full functional operation as per its design purpose, before every trip, activity or task. Only after the skipper has satisfied themselves of the safe and functional operations should the equipment be used.

The deck switch should be inspected pre-departure or use paying particular attention to the following:

- Ensure there is no visible damage to the switch.
- Ensure there is no noticeable wear to the switch, its housing, its button, or fixings.
- Ensure the rubber membrane over the switch is not sticky or has any deposits or residue from cleaning fluids or other prohibited materials.
- Ensure the rubber membrane over the switch does not show any signs of cracks, splits, or signs of degradation. This includes a change in colour from shiny to a matte finish.
- The main switch housing should not have any visible chips or cracks.
- The switch should have a smooth positive feel with a distinct click that can be felt at the point of operation.
- There should be no signs of water ingress on any part of the switch assembly.
- Ensure that the fixings screws and seal to the deck bulkhead or coach roof are secure, and remain effective in both securing the switch and preventing water ingress.
- The switch should not feel spongy and should not make a squelch or bubbling noise due to water ingress when depressed and operated.

NOTE: If any of above points are detected during inspection, the deck switches should not be used and should be replaced.

On an annual basis the deck switch should be removed by a qualified electrical technician to carry out the following:

- All the checks detailed in 2.0 – 2.9 of this product service update.
- Inspect the underside of the deck switch for signs of corrosion, damage, or water ingress.
- Inspect the wiring for signs of loose connections or corrosion.
- In open circuit mode "OFF" condition, the resistance should be checked for a recording on the test meter beyond measurement to confirm no electrical connection.
- In closed circuit mode "ON" condition, the resistance should be less than 3 ohms.
- If the switch shows any signs of excessive wear, degradation in its action, water ingress, or loss in its electrical resistance properties, it should be changed immediately.

Specific Considerations for Winch Operation Manual B2303 Issue 7

Winch Operation

Please ensure that you thoroughly understand the operation and safety requirements of the winch before commencing the installation. Only persons who are completely familiar with the controls and those who have been fully made aware of the correct use of the winch should be allowed to use it. If there is any doubt of how to install or operate this unit please seek advice from a suitably qualified engineer.

- Winches used incorrectly could cause harm to equipment or crew.
- Winches should be used with care and treated with respect.
- Sailing, like many other sports can be hazardous. Even the correct selection, maintenance and use of proper equipment cannot eliminate the potential for danger, serious injury or death.
- Lewmar winches are designed and supplied for line control in marine applications and are to be used in conjunction with appropriate clutches, cleats and other manual controls and stoppers.
- It is the unavoidable responsibility of the owner or master or other responsible party to assess the risk of any operation on the vessel.
- Under no circumstances should any self tailing winch be used in self tailing mode for any lifting operation; rather suitable and adequate manual tailing should be arranged with proper means of manually cleating or stopping the hoist.
- Every winch should be installed with adequate means of manually cleating or stopping the loaded ropes. Specific Considerations for Windlass Operation Manual 65001201 Issue 2.

Windlass Operation

Classification Societies and Lewmar require that a vessel at anchor must have its rode held by a chain stopper or equivalent strong point at all times!

At all times it is the responsibility of the boat user to ensure that the anchor and rode are properly stowed for the prevailing sea conditions. This is particularly important with high-speed powerboats, because an anchor accidentally deploying while under way can cause considerable damage. An anchor windlass is mounted in the most exposed position on a vessel and is thus subject to severe atmospheric attack resulting in a possibility of corrosion in excess of that experienced with most other items of deck equipment. As the windlass may only be used infrequently, the risk of corrosion is further increased. It is essential that the windlass is regularly examined, operated and given any necessary maintenance.

Please ensure that you thoroughly understand the operation and safety requirements of the windlass before commencing the installation. Only persons who are completely familiar with the controls and those who have been fully made aware of the correct use of the windlass should be allowed to use it. If there is any doubt of how to install or operate this unit please seek advice from a suitably qualified engineer.

- Windlasses used incorrectly could cause harm to equipment or crew.
- Windlasses should be used with care and treated with respect.
- Sailing, like many other sports can be hazardous. Even the correct selection, maintenance and use of proper equipment cannot eliminate the potential for danger, serious injury, or death.
- Lewmar windlasses are designed and supplied for anchor control in marine applications and are not to be used in conjunction with any other use.
- It is the unavoidable responsibility of the owner or master or other responsible party to assess the risk of any operation on the vessel.

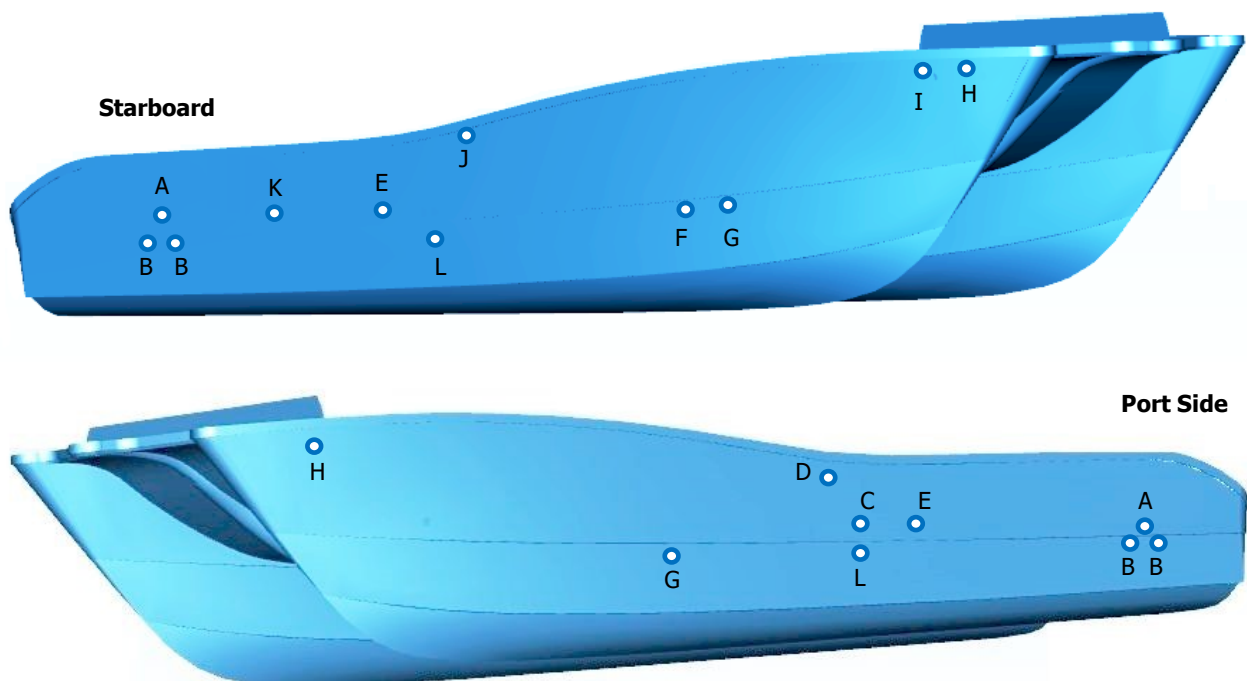
Additional Information

Lewmar recommends the use of appropriate Personal Protective Equipment and hands free communication equipment by any person going aloft, and only then where the person going aloft is properly trained in the use of that equipment and where there remain sufficient trained and experienced personnel on deck to ensure constant observation and the continued safe conduct both of the vessel and the hoisting operation.

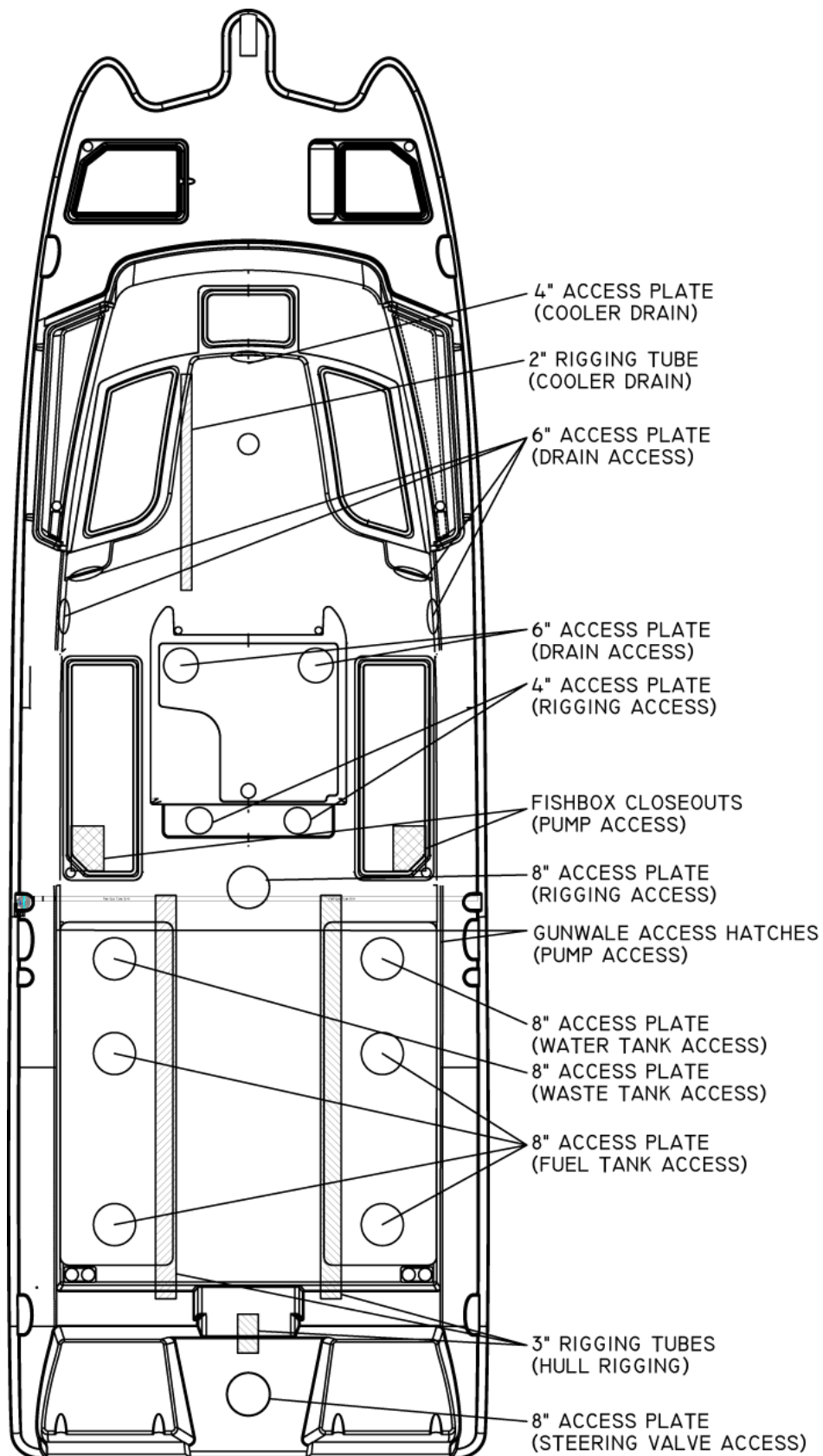
Chapter 11: 295CC Diagrams

11.1 Thru-Hull

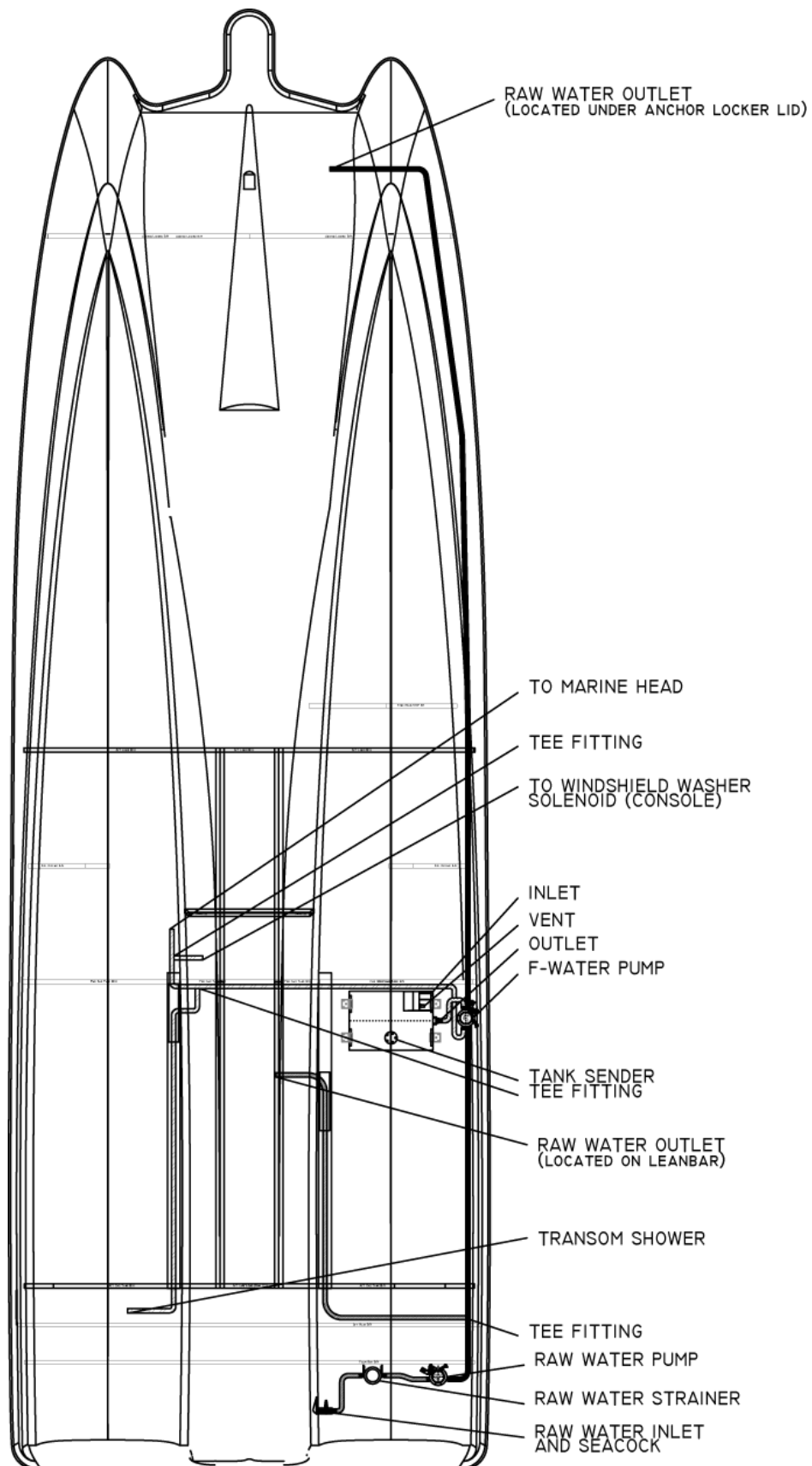
A	Aft Bilge Pump
B	Cockpit Floor Drain
C	Overboard Discharge
D	Holding Tank Vent
E	Fish Box Drain
F	Deck Floor Drain
G	Bow Storage Box Drain
H	Anchor Locker Rain Lip Drain
I	Raw Water / Wash-down Storage Drain
J	Freshwater Tank Vent
K	Livewell
L	Console Drain



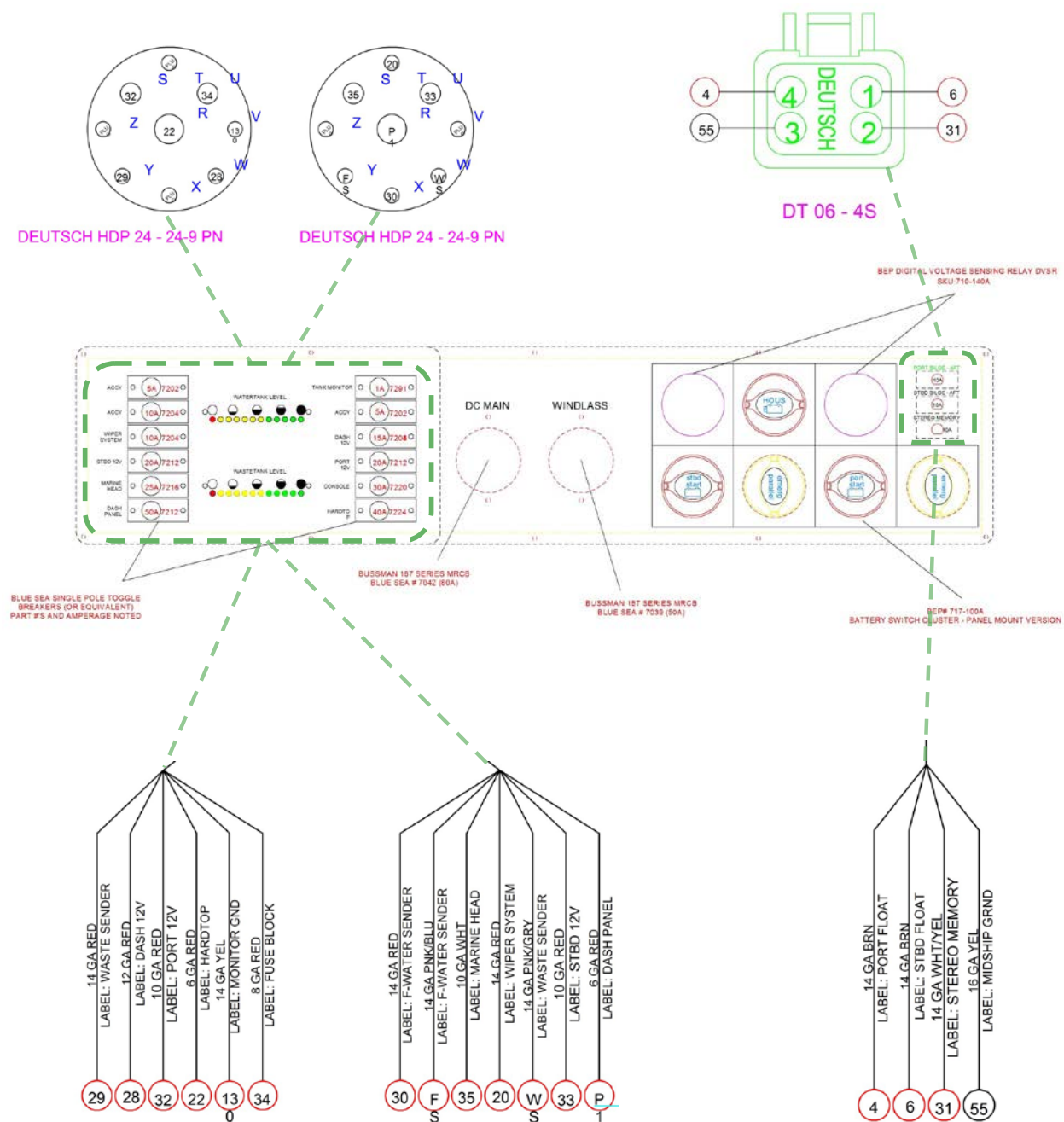
11.2 Access Plate and Rigging Tube Diagram



11.3 Plumbing Systems Diagram



11.4 Battery Management Panel



11.5 Switch Panel Fuses

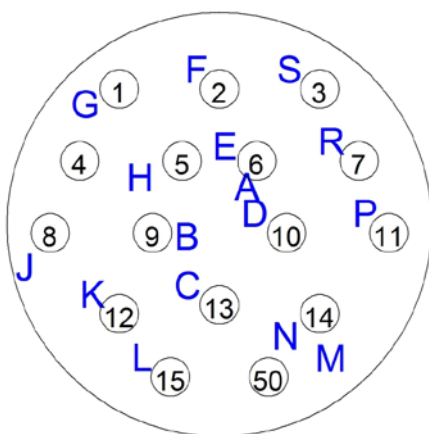
- P1 10 GA RED
LABEL: SWITCHES (1-6)
- P2 10 GA RED
LABEL: SWITCHES (7-12)

DEUTSCH DTP04 - 2P

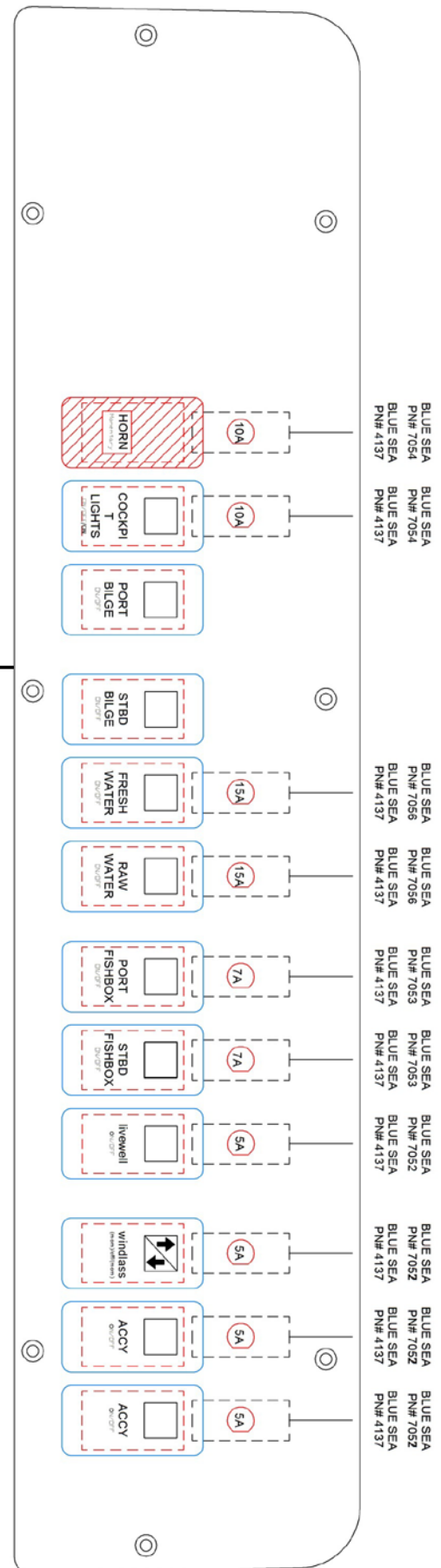


- 1 14 GA ORG
LABEL: HORN
- 2 12 GA BLU/WHT
LABEL: C-PIT LTS (WHT)
- 3 12 GA BLU/RED
LABEL: C-PIT LTS (RED)
- 4 14 GA BRN
LABEL: PORT FLOAT
- 5 14 GA BRN/WHT
LABEL: PORT BILGE
- 6 14 GA BRN
LABEL: STBD FLOAT
- 7 14 GA BRN/RED
LABEL: STBD BILGE
- 8 12 GA BRN
LABEL: FRESHWATER

- 9 12 GA BRN
LABEL: RAW WATER
- 10 12 GA BRN
LABEL: PORT FISHBOX
- 11 12 GA BRN
LABEL: STBD FISHBOX
- 12 12 GA BRN
LABEL: LIVEWELL SYSTEM
- 13 14 GA ORG/BRN
LABEL: WINDLASS UP
- 14 14 GA ORG/BLU
LABEL: WINDLASS DOWN
- 15 12 GA BLU
LABEL: U-WATER LTS
- 50 12 GA YEL
LABEL: PANEL GROUND



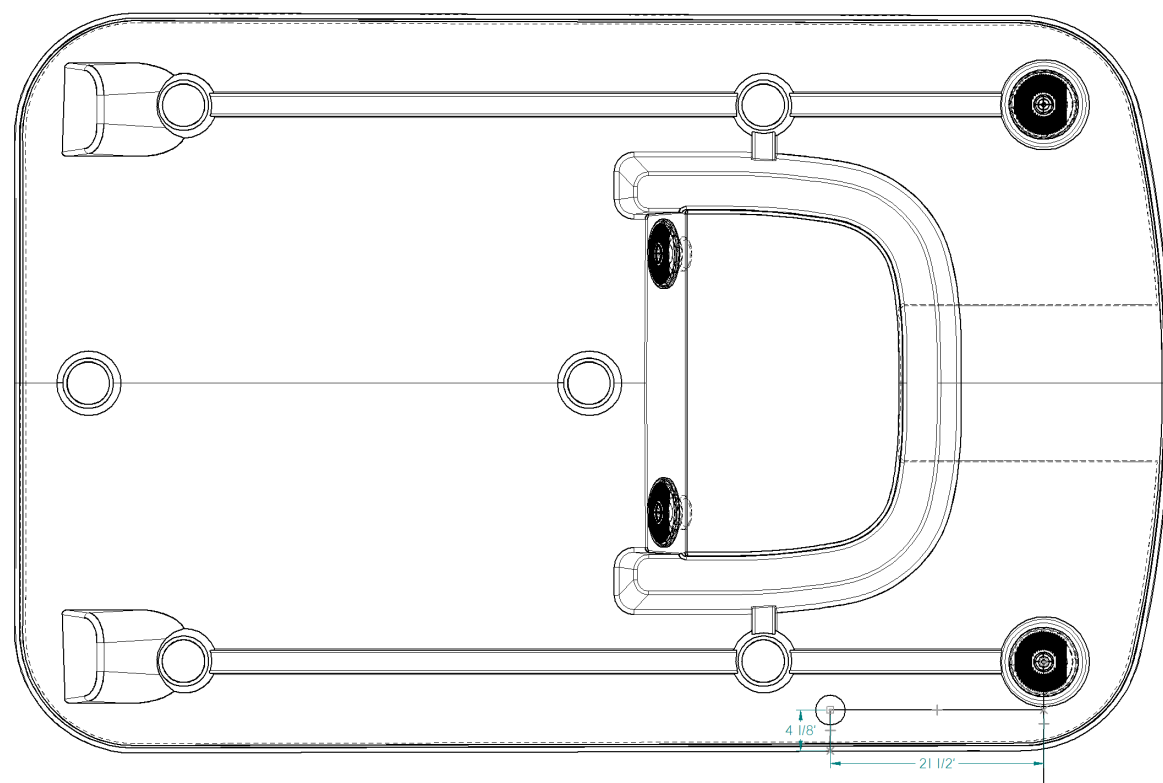
PLUG DETAIL A
DEUTSCH HDP24 24-16 PN



11.6 Wire Code

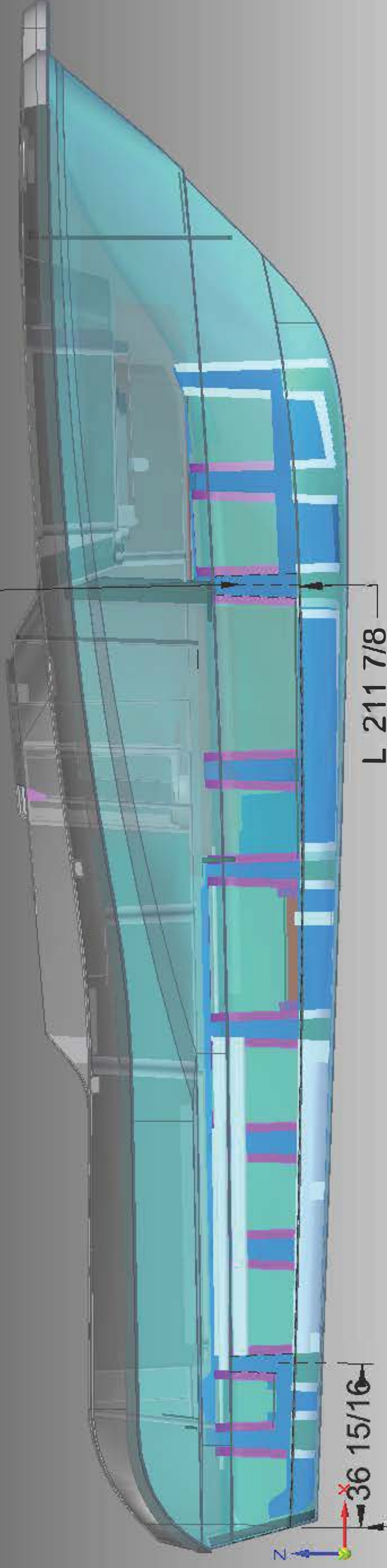
FUNCTION	COLOR	GAUGE	BREAKER / FUSE AMPS	BREAKER / FUSE LOCATION
Horn	Red	#10	10A Fuse	Switch Panel Fuse Block
Cockpit Lights	Red	#10	10A Fuse	Switch Panel Fuse Block
Freshwater Pump	Red	#10	15A Fuse	Switch Panel Fuse Block
Raw Water Pump	Red	#10	15A Fuse	Switch Panel Fuse Block
Port Fishbox	Red	#10	10A Fuse	Switch Panel Fuse Block
Starboard Fishbox	Red	#10	10A Fuse	Switch Panel Fuse Block
Livewell Pump	Red	#10	5A Fuse	Switch Panel Fuse Block
Windlass	Red	#10	5A Fuse	Switch Panel Fuse Block
ACCY 1	Red	#10	10A Fuse	Switch Panel Fuse Block
ACCY 2	Red	#10	5A Fuse	Switch Panel Fuse Block
Nav Lights	Red	#10	7A Breaker	Hardtop Fuse Block
Overhead Lights	Red	#10	3A Breaker	Hardtop Fuse Block
Stereo	Purple / Red	#14	1A Breaker	Hardtop Fuse Block
Spreader Lights	Red	#10	15A Breaker	Hardtop Fuse Block
ACCY	Red	#14	3A Breaker	Hardtop Fuse Block
Tank Monitor	Red	#14	1A Breaker	Battery Management Panel
ACCY	Open	N / A	5A Breaker	Battery Management Panel
Dash 12V	Red	#12	15A Breaker	Battery Management Panel
Port 12V	Red	#10	20A Breaker	Battery Management Panel
Console	Red	#8	30A Breaker	Battery Management Panel
Hardtop	Red	#6	40A Breaker	Battery Management Panel
ACCY	Open	N / A	5A Breaker	Battery Management Panel
ACCY	Open	N / A	10A Breaker	Battery Management Panel
Wiper System	Red	#14	10A Breaker	Battery Management Panel
Starboard 12V	Red	#10	20A Breaker	Battery Management Panel
Marine Head	White	#10	25A Breaker	Battery Management Panel
Dash Panel	Red	#6	50A Breaker	Battery Management Panel
Port Bilge	Brown	#14	10A Breaker	Battery Management Panel
Starboard Bilge	Brown	#14	10A Breaker	Battery Management Panel
Stereo Memory	White / Yellow	#14	10A Breaker	Battery Management Panel
Windlass	Red	#4	50A Breaker	Battery Management Panel

295CC Outrigger Location Diagram



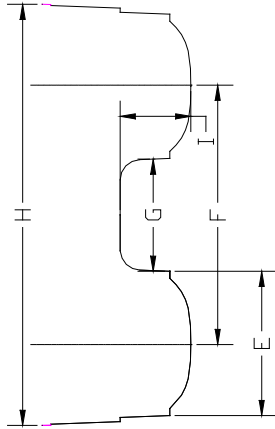
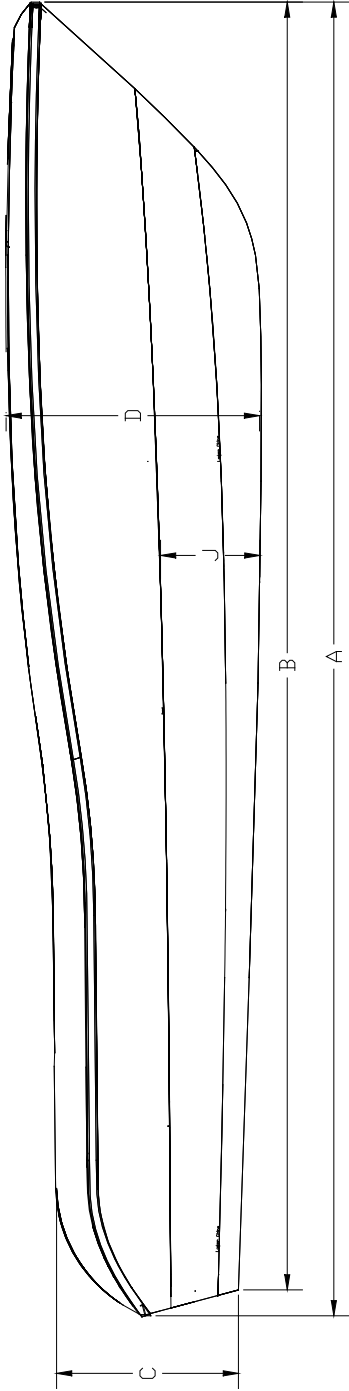
● 296DC 295CC

Center of Bulkhead



Dimensions start at the intersection of the transom and chine line

TRAILER DIMENSIONS (2022)



	235CC	230DC	230SD	255DC	280DCX	280CCX	295CC	296DC	325CC	325DC	400DC
A	22' 7"	22' 7"	22' 7"	24'-9 1/2"	27' - 5"	27' - 5"	29' 5/8"	29' 5/8"	32'-0 1/2"	32'-0 1/2"	37'-1"
B				24'-2 1/4"	26' - 10 5/8"	26' - 10 5/8"	28' 5"	28' 5"	31'-4 7/8"	31'-4 7/8"	36'-6"
C	40"	40"	40"	4'-1 1/2"	4' - 3 1/2"	4' - 3 1/2"	4' 3"	4' 3"	4'-6 5/8"	4'-6 5/8"	4'-2 3/8"
D	51"	51"	51"	5'-5 5/8"	5'-10"	5'-10"	5' 11"	5' 11"	6'-3 5/8"	6'-3 5/8"	6'-3 5/8"
E	34 3/4"	34 3/4"	34 3/4"	34 7/8"	3' - 1 1/2"	3' - 1 1/2"	39 1/4"	39 1/4"	43 1/8"	43 1/8"	48 5/8"
F	59 5/8"	59 5/8"	59 5/8"	59 5/8"	64"	64"	67 1/2"	67 1/2"	76 1/4"	76 1/4"	85 7/8"
G	24 3/4"	24 3/4"	24 3/4"	24 3/4"	26"	26"	26 5/8"	26 5/8"	33 1/8"	33 1/8"	34 7/8"
H	8' 6"	8' 6"	8' 6"	99 1/8"	109" - 3/8"	109" - 3/8"	115"	115"	125 1/4"	125 1/4"	147 7/8"
I	17"	17"	17"	21 1/2"	20"	20"	21 1/4"	21 1/4"	21"	21"	20"
J	23"	23"	23"	29 3/8"	30"	30"	28 1/2"	28 1/2"	28 3/4"	28 3/4"	21 3/4"
1	110"	110"	107"	125"	115"	121"	123"	119"	122"	120"	126 3/8"
2	99"	91"	90"	113"	95"	100"	101"	99"	105 1/4"	104 5/8"	101 7/8"
COG w/ Eng	83.41"	92.18"	93.82"	101.27"	106.72"	105	120.35"	123.33"	130.17"	134.88"	157"

INCLUDES PULPIT. SUBTRACT 11 1/2" TO DETERMINE LENGTH TO PORT AND STBD STEM

DIMENSION TAKEN AT THE TRANSOM

DIMENSION TAKEN APPROXIMATELY 15' FROM THE TRANSOM

DIMENSION FROM KEEL TO HARDTOP TOP

DIMENSION FROM WATERLINE TO HARDTOP TOP



295CC System Location

System	Location of Pump	Steps For Use
Freshwater System	Starboard side midship Gunwale	<ol style="list-style-type: none"> 1. Before leaving the dock, fill the water tank with the freshwater fitting on the starboard side near the helm. 2. Turn on the freshwater switch at the dash. 3. Twist the shower nozzle in the stern of the boat to control the flow of water. *The Head runs off freshwater, the pump needs to be running for the head to work
Macerator Pump	Port Midship Gunwale	<ol style="list-style-type: none"> 1. Verify the seacock valve is open, located in the port midship gunwale. 2. With the seacock valve open and the boat being 3 miles offshore you may legally dump your waste. 3. Turn the key in the head area to overboard discharge.
Deck Pump out	Waste Fitting located on Port Side	<ol style="list-style-type: none"> 1. You will need to use a pump out system that can be found at most marinas/ Gas docks. 2. Open the waste fitting on the Port side and attach the hose from the Pump out system and the system will do the rest until the tank is cleared.
Bilge Pumps	<p>Starboard/ Port Aft Bilge compartment</p> <p>Fwd Bilge pumps are located under the access plates in the head area.</p>	<ol style="list-style-type: none"> 1. With the batteries on the "Bilge pump" switch at the dash will power the pumps. 2. With the batteries off there is a float switch located next to the bilge pumps in the Port and Starboard Fwd and Aft bilge areas that will power the pumps while away from the boat.
Raw water System	Starboard bilge Compartment	<ol style="list-style-type: none"> 1. Verify the seacock is open, located in the Starboard aft bilge area. 2. Attach hose to the Raw water fitting located on the Starboard side of tackle station. 3. Press switch on the dash labeled Raw water. 4. Control the flow of water, by the hose nozzle.
Livewell Pump	Port Bilge Compartment	<ol style="list-style-type: none"> 1. Verify the seacock is open in the port bilge compartment. 2. Use the Y-Valve located under the tackle station, to plug the drain in the livewell, and open the overflow drain 3. Press the livewell switch located on the dash. <p>Turn the regulator, to fill and flow the desired speed.</p> <ol style="list-style-type: none"> 4. when done fishing, turn the Y-Valve to allow the livewell to drain.

Chapter 1: Hatches and Lids

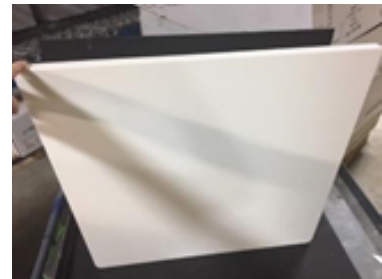
Brand: Teak Isle
 Model: 82720-306583
 WC Part #: 20157277
 Application: STBD Hatch Artic White (11 3/16x14 3/4)



Brand: Fin-Addict Marine
 Model: N/A
 WC Part #: 20151090
 Application: 290CC/320CC Lean Post Lid (Clear)



Brand: Fin-Addict Marine
 Model: N/A
 WC Part #: 20157295
 Application: 290, 320 Transom Door (ST Starboard) (Arctic white)



Brand: Winterville Machine Works
 Model: N/A
 WC Part #: 20700311
 Application: Folding Footrest (24.25" Outside Edge of Feet) (255DC/290DC)



Chapter 2: Tanks

Brand: SeaStar Solutions (Tanks)
 Model: WT001023
 WC Part #: 20220041000
 Application: Water Tank 20 Gal (325CC/295CC)

Brand: SeaStar Solutions (Tanks)
 Model: WTool1020
 WC Part #: 20220037000
 Application: Waste Tank 15 Gal (325DC, 325CC, 295CC)



Chapter 3: Thru hulls, Fittings and Plumbing

Brand: Premier Products Ltd.

Model: 56655

WC Part #: 20163452

Application: Thru-Hull, Resin 90° w/SS Cover, 1-1/8"



Brand: Premier Products Ltd.

Model: 56654

WC Part #: 20163451

Application: Thru-Hull, Resin 90° w/SS Cover, 1"



Brand: Premier Products Ltd.

Model: 56675

WC Part #: 20163455

Application: Thru-Hull, Resin 90 w/SS Cover, 1-1/8" - 1-1/4"



Brand: Premier Products Ltd.

Model: 56656

WC Part #: 20163453

Application: Thru-Hull, Resin 90° w/SS Cover, 1-1/2"



Brand: Premier Products Ltd.

Model: 56676

WC Part #: 20163456

Application: Thru-Hull, Resin w/SS Cover, 1-1/2"



Brand: Premier Products Ltd.

Model: 56677

WC Part #: 20163457

Application: Thru-Transom Scupper, Resin, w/ SS Cover, 1-1/2" (4-3/8")

Brand: Ambassador Marine

Model: P56-0201-SS

WC Part #: 20163570

Application: Screw-In S/S Water Outlet



Brand: Shurflo

Model: 255-215

WC Part #: 20161462

Application: Swivel Nut Water Strainer for Washdown Pumps



Brand: Xylem
 Model: 30642- 1000-50
 WC Part #: 20160142
 Application: Plastic Elbow (3/4") 90 DEG



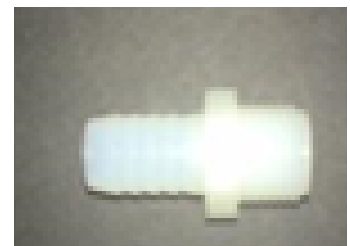
Brand: Marine East
 Model: 8923
 WC Part #: 20160572
 Application: Hose Barb Adapter (1" MPT x 1 1/8" HB)



Brand: Bosworth Company
 Model: BM95
 WC Part #: 20160555
 Application: Y-Valve 1 1/2"



Brand: Acr Industries
 Model: A1258
 WC Part #: 20160554
 Application: Male Adapter 1/2" MPT x 5/8" HB



Brand: Attwood Corporation
 Model: DS0212B
 WC Part #: 20163568
 Application: Whale Twist Deck Shower Angled Base (Cold Only)



Brand: T-H Marine Supplies Inc.
 Model: TH-1202-B
 WC Part #: 20160218
 Application: Thru Hull Plastic 1 1/8"



Brand: T-H Marine Supplies Inc.
 Model: TH-1592F-B
 WC Part #: 20160392
 Application: Livewell Overflow Drain (Threaded Internal 1 1/2" 90)



Brand: Acr Industries
 Model: 3 EL100 G
 WC Part #: 20161461
 Application: 1" MPT X 1" HB 90 PVC Elbow



Brand: Marine Town Inc
 Model: 9007219
 WC Part #: 20160550
 Application: 1-1/2" Angled Deck Fill - Water



Brand: Marine Town Inc
 Model: 9007220
 WC Part #: 20160551
 Application: 1-1/2" Angled Deck Pumpout - Waste





Brand: Paxton Company
Model: IS-750
WC Part #: 20820440
Application: Headhunter Inlet Strainer (3/4")



Brand: Premier Products Ltd.
Model: 56653
WC Part #: 20163450
Application: Thru-Hull, Resin 90° w/SS Cover, 3/4"



Brand: Paxton Company
Model: IS-750
WC Part #: 20820440001
Application: Headhunter Inlet Strainer (3/4")



Brand: Xylem
Model: 37045-4022
WC Part #: 26500614
Application: Jabsco Quiet-Flush Toilet Elongated Bowl, 78 Degree
(Discharge)



Chapter 4: Pumps, Float Switches, Plumbing

Brand: Shurflo
Model: 4248-153-J09
WC Part #: 20740303000
Application: Shurflo Pro Blaster Water Pump w/ Deutsch Plug



Brand: ShurFlo
Model: 1700-020-031
WC Part #: 20740246
Application: ShurFlo Livewell Pump w/ Deutsch (1100 GPH)



Brand: Xylem
Model: 02DM
WC Part #: 20740298
Application: Rule-Non-Auto Bilge pump w/detuch (1500 GPH)



Brand: Shurflo
 Model: 3200-003
 WC Part #: 20740248
 Application: Macerator Pump w/ Deutsch Plug



Brand: Attwood Corporation
 Model: BP4553B
 WC Part #: 20740280
 Application: Whale Diaphragm Pump - POSB Gulper Group 12v



Chapter 5: Electrical

Brand: Schmitt & Ongaro Marine Products
 Model: 10009CS

WC Part #: 20170929

Application: Single Trumpet Horn



Brand: Blue Seas System
 Model: 7184
 WC Part #: 20192294
 Application: Surface Series Circuit Breaker -Mount (60A)



Brand: Pacer Marine
 Model: N/A
 WC Part #: 20192296
 Application: 295CC Switch Panel Fuse Block Assy



Brand: Lewmar
 Model: 69600732
 WC Part #: 20170874
 Application: Lewmar Windlass Up/Down Foot Switches (Black)



Brand: Professional Mariner
Model: 51201B
WC Part #: 20150382
Application: PSPT AC Plug Holder w/ Clamp



Brand: Imtra Corp.
Model: RC533011
WC Part #: 20173415
Application: Coastal Plus Wiper Motor 1 1/2" Shaft



Brand: Imtra Corp.
Model: EX81298-63 WC
Part #: 20170912001
Application: Knob for Wiper Controls Intermittent Switch



Brand: Professional Mariner
Model: 51071
WC Part #: 20173455
Application: ProSport 5' Battery Bank Cable Extender



Brand: Marinco
Model: 12VBR.OEM
WC Part #: 20190123
Application: 12VDC Outlet for Downriggers



Brand: Blue Sea Systems
Model: 1045B
WC Part #: 20173580
Application: USB Charging Receptacle (4.8A Fast Charge)



Brand: Attwood Corporation
Model: 5550-24S1
WC Part #: 20200389000
Application: Attwood LED Mast Light (24") - S/S Base



Brand: Innovative Lighting Inc.
Model: 012-5592-1
WC Part #: 20200272
Application: LED Cockpit Light



Brand: Innovative Lighting Inc.
Model: 012-4592-1
WC Part #: 20200273
Application: LED Livewell Light - Red



Brand: Attwood Corporation
Model: 6349SSDC1
WC Part #: 20200291000
Application: 2.75" LED Light (Red/Wht) w/ Deutsch



Brand: T-H Marine Supplies Inc.
Model: LED-51914
WC Part #: 20200385000
Application: LED Spreader Light - 5 LED, 1150 Lumen



Brand: Attwood Corporation
Model: NV1012SS-DC1
WC Part #: 20200403
Application: LED Bow Lights (PR) (ASM-DKMT LT, SS PR)



Brand: Innovative Lighting Inc.
Model: 061-5000

WC Part #: 20200287

Application: LED Storage Light



Brand: Innovative Lighting Inc.
Model: 060-9900-1

WC Part #: 20200294

Application: Storage Light Base (use w/ 20200287)



Chapter 6: Hardware

Brand: Gem Products Inc.

Model: 1227

WC Part #: 20160703

Application: Hinge 2" x 3" Anchor Lid Style



Brand: Ocean Accessories LLC

Model: M5-60-205-8

WC Part #: 20163542

Application: Push to Close Latch, Slide (Non-Magnet)



Brand: Premier Products Ltd.

Model: 56010

WC Part #: 20160242

Application: 8" Herreshoff Cleat



Brand: C.E. Smith Company Inc.

Model: 53678C

WC Part #: 20163962000

Application: Smith Screwless Rod Holder (30 Degrees)



Brand: Whitecap Industries
Model: 6082 (188532)
WC Part #:20160241
Application: 5in Straight Chock for pulpit



Brand: LaVanture
Model: LGP6S-170-700-30
WC Part #:20163702
Application: Gas Shock 17" Ext. Length, 30lb, 316SS w/
Composite Ends



Brand: Gem Products Inc.
Model: 2263
WC Part #:20160275
Application: GEM S/S Lift Handle Latch Lock 3"



Brand: Gem Products Inc.
Model: 68504
WC Part #:20163550
Application: 8" Cutting Edge sleek pull up cleat



Brand: Associated Spring - Raymond
Model: BRX-1020
WC Part #:20163485
Application: ASI S/S Flat Bracket for Gas Shocks
w/10MM



Brand: Marine Town Inc
Model: 0207673N
WC Part #: 20163671
Application: Stainless Steel Cubic Magnet Holder 25 x 10 Proud



Brand: Marine Town Inc
Model: 0207673N
WC Part #: 20164003000
Application: Stainless Steel Cubic Magnet 25 x 10 Proud - North



Brand: RDI
Model: 1020WD
WC Part #: 20156871
Application: S/S 2-Step Cup Holder w/ Drain (92mm)



Brand: C.E. Smith Company Inc.
Model: 53678C
WC Part #: 20163962000
Application: Smith Screwless 70 Rod Holder (30 Deg Cast)

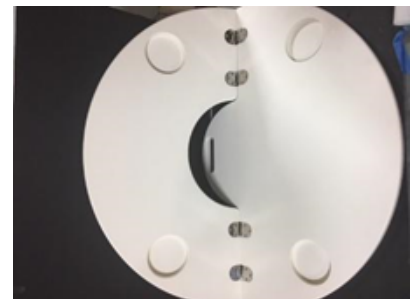


Chapter 7: Table Parts and Other Accessories

Brand: Fin-Addict Marine
Model: N/A
WC Part #: 20157287
Application: 295CC Aft Rod Rack-Port



Brand: Teak Isle
Model: 82720- 302339
WC Part #: 20156903
Application: Bow Table (Arctic White)



Brand: Itc Inc.
 Model: TR4000C
 WC Part #:20157569
 Application:Cabin Cockpit Floor Base, 5" (for Table)



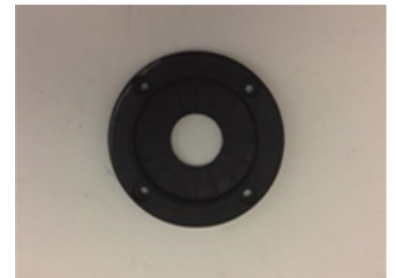
Brand: T-H Marine Supplies Inc.
 Model: CB-4-DP
 WC Part #:20163444
 Application:4.5" Cable Boot - Black



Brand: Marine East
 Model: 4675
 WC Part #:20151038
 Application:Pedestal Storage Clips



Brand: T-H Marine Supplies Inc.
 Model: UG-1
 WC Part #:20150259
 Application:Rod Holder Grommet (3 3/8")



Brand: Itc Inc.
 Model: TS4000B
 WC Part #:20150360
 Application:Cabin Cockpit Table Base

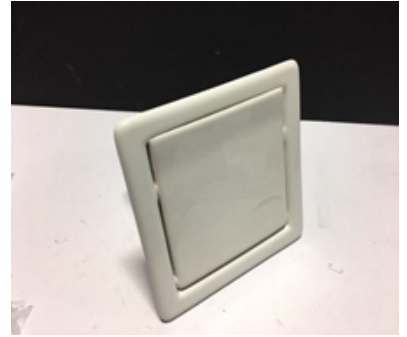


Brand: Ritchie Navigation
 Model: HF-743-OEM
 WC Part #:20170943000
 Application:Ritchie Compass (Large Profile)





Brand: Sailing Specialties Inc.
Model: 30800013
WC Part #: 20157298
Application: Toilet Paper Holder, Arctic White



Brand: Attwood
Model: 99IFDV00-1
WC Part #: 20220083
Application: Attwood FDV Fuel Demand Value (No-Antisiphon)



Brand: Attwood
Model: 99ICV000-1
WC Part #: 20163465
Application: Attwood Inlet Control Valve (EPA Diurnal)



Brand: Attwood Corporation
Model: 99DFPVSZ1
WC Part #: 20163488
Application: Pressure Relief Gas Fill (Straight Zamak Chrome)



Notes

[illegible]

295 CC

