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**INTRODUCTION**

## Introduction

Congratulations on your purchase of a Tigé, the world's most versatile inboard! We're confident you will enjoy Tigé's extraordinary blend of world-class water sports performance, incredible versatility and outstanding user convenience.

Before using your new Tigé, we encourage you to thoroughly review this owner's manual and familiarize yourself with your boat's operational and safety features.

We have made every effort to ensure the accuracy of this manual, providing the most current information available. Since we are continuously refining features and design, Tigé periodically makes changes to models, systems and specifications. These changes are included in an updated online version of this owner's manual available at [www.tige.com](http://www.tige.com).

If you have any questions concerning your new Tigé or this manual, please contact your Tigé dealer. Once again, thanks for choosing Tigé. Have a great time!

### **PLAY IT SAFE AND ENJOY!**

Safety is a top priority in the design and construction of every Tigé boat. Before use, we strongly encourage owners and operators to become familiar with Tigé safety features, safe operation, maintenance procedures and overall safe boating practices. In addition to ensuring your safety and that of your passengers, proper maintenance and operation of your Tigé greatly enhance your enjoyment on the water.

### **TIGÉ TIPS FOR A SAFE, FUN DAY ON THE WATER**

A day on the water may be relaxing for you, but cruising through chop, towing skiers and other normal boating activity puts significant stress on a boat. Although your Tigé is built tough to withstand the rigors of on-water activities, you should check and tighten pylons, towers, accessories and other attachments every time you go out to avoid injury and ensure safe reliable performance. It is also very

important to regularly check and maintain the various systems and equipment on your boat before you get underway.

To help you keep everything in good working order, refer to the Preflight Checklist in Section 5 each time you go boating. Make it a habit and you'll make the most out of your time on the water.

### **OWNER'S KIT**

The Owner's Kit contains the owner's manual and may include other information about accessories or components offered with your Tigé boat. This information is provided by the manufacturers of those products and should be read, kept and referred to whenever you are using the accessory or component, or before you put it into use. Refer to these manufacturers' manuals for additional operation and maintenance instructions not covered in this manual.

#### ***Owner's Manual***

The owner's manual contains information concerning the operation and care of your boat. The descriptions contained within the manual will introduce you to features of Tigé and provide you the general knowledge of how the boat works. Become familiar with the information in each section before you use your boat.

Even if everything has been planned and designed for the safety of the boat and its users, boating is still highly dependent on the weather conditions, water conditions, and the experience of you and your passengers. One can never ensure full safety. It is your responsibility as the owner or user to know the boat's equipment, capabilities and intended use. The specific information on the operation of the equipment and systems on your boat should be supplied by that manufacturer. Read, understand and keep all the information supplied, and familiarize yourself and all users with the boat before you put it into use.

## INTENDED USE

Your Tigé boat is intended for use as a pleasure and sport craft and a Craft Design Category of:

### *Inshore—Category C*

Craft designed to operate in winds up to Beaufort force 6 and the associated wave heights and significant wave heights up to 6'6.7" (2 m). Such conditions may be encountered in exposed inland waters, in estuaries, and in coastal waters in moderate weather conditions.

## OWNER RESPONSIBILITY FOR WARRANTY PROCEDURE

### *Before Operating*

Before operating your new Tigé boat, it is necessary that you read and understand this manual and the warranty, and that you take the time to read about other accessories or components offered with your Tigé boat.

### *Warranty Service Requirements*

All Tigé warranty service must be completed by an Tigé Dealer. If you are not able to return your boat to your dealership, contact them so they can assist you in coordinating the warranty service. Any claims against Tigé Boats without prior approval from Tigé Boats on repairs completed by an unauthorized dealership may be denied.

### *If You Sell Your Tigé Boat*

Warranties are transferable. If you choose to sell your Tigé boat to anyone other than a Tigé Dealer, contact Tigé Boats for the appropriate warranty transfer information: [www.tige.com](http://www.tige.com) or 325.676.7777. If the transfer procedures are not followed, future warranty service may be denied.

## CERTIFICATIONS

### *National Marine Manufacturers Association (NMMA)*

Tigé Boats is a member of the NMMA. This independent organization's members include boat, engine and marine equipment manufacturers that are focused on the improvement and safety of boating.

Your new Tigé boat is NMMA certified. An NMMA certification not only satisfies the U.S. Coast Guard (USCG) regulations but also the more rigorous equipment and system standards based on those established by the American Boat and Yacht Council, Inc. (ABYC). Your Tigé boat meets or exceeds NMMA safety-based certifications.

### *Engines*

Our engine manufacturer works closely with Tigé to ensure that its engines deliver maximum performance, reliability and customer satisfaction. Part of this commitment is a certification program that provides Tigé dealers and service technicians with ongoing training and information about our engines. Certified engine service personnel must attend periodic service schools held at the Tigé headquarters. The training includes review of all manufacturing and installation processes, proper servicing procedures as well as existing and developing engine technologies.

## FEATURES AND TECHNOLOGY

### *Convex V Hull/TAPS*

The unique, patented shape of the Tigé Convex V hull combined with TAPS technology are key Tigé's superior multi-sport versatility, incredible performance and unmatched ride. All other inboard hulls curve down with a "hook" toward the transom and must rely on heavy ballast or drag hardware to produce even entry-level wakeboarding wakes. The Convex V hull curves up in a rocker shape like a wakeboard or slalom ski. Tigé uses its breakthrough TAPS technology to control hull running attitude and wake characteristics. At wakeboarding speed with TAPS

in the up position, the bow rises and the Convex V hull settles naturally, creating tremendous water displacement and huge world-class wakes without ballast or drag hardware. A push of a button adjusts TAPS down, lowers the bow and creates instant planning and slalom type wakes.

Ride, handling and fuel efficiency are also dramatically enhanced, allowing Tigé to deliver outstanding overall performance unmatched by any other inboard.

#### ***ZeroOff GPS Cruise Control***

Standard on all Tigé models, ZeroOff GPS Cruise Control is the most advanced precision digital speed control in the marine industry. It is also the easiest to use. The ZeroOff GPS Cruise Control control panel incorporates Touchpad and Touch Screen Recognition for easy fingertip use without taking your eyes off the waterway. ZeroOff GPS Cruise Control readouts are displayed on the heads-up digital monitor located on the dash, as well as our Touch Screen. For added safety, the ZeroOff GPS Cruise Control control panel is conveniently located adjacent to the throttle for quick, easy access with your throttle hand. ZeroOff GPS Cruise Control operation is precise, multi-functional and simple. You can even preset a preferred speed and precisely hit that speed set after set. Perfect double-ups and consistent towing speeds are now at your fingertips.

#### ***Advanced CAN Bus Technology***

TEC (Tigé Electronic Control) components are in constant communication with the engine's computerized ECM using advanced MEFI-5 electronics. State-of-the-art CAN bus technology allows components to communicate hundreds of times a second over a simple, reliable, two-wire system. Keeping the juice flowing and the electronics humming is our Central Electronic Distribution Center (CEDC), which increases electrical system reliability and efficiency through circuit simplification and load management. CEDC also stabilizes electrical output throughout the boat, significantly reducing power spikes.

#### ***Product Improvement***

Because of Tigé's commitment to continuous product improvement, the illustrations used in this manual may not exactly match your boat and are intended only as representation for reference views. Some illustrations may also show optional accessories, which may or may not be available for your boat. Some optional accessories can only be installed at the time the boat is manufactured and cannot be installed by your dealer. Your dealer can help with any questions you may have on options, which can be added to your boat.

## SERIAL NUMBER LOCATIONS

Your Tigé boat, its engine, propulsion unit and other equipment onboard are identified with a serial number. These identification numbers associated with your boat are extremely important. Prepare a list of all serial number items and store it in a safe place other than onboard the boat. Refer to the equipment operator's manuals supplied in your owner's kit for location of serial numbers.

Record these numbers below.

### **Hull Identification Number (HIN)**

Located at the top, right (starboard) corner of the transom.

HIN: \_\_\_\_\_

Ignition Key, a key tag, is also provided with the keys; store tag or destroy.

Key Number: \_\_\_\_\_

Registration Number/State: \_\_\_\_\_

Date of Purchase: \_\_\_\_\_

Dealership Name and Address: \_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_

Salesperson: \_\_\_\_\_

### **Engine**

Engine Serial Number: \_\_\_\_\_

Engine Manufacturer: \_\_\_\_\_

Model: \_\_\_\_\_

Horsepower: \_\_\_\_\_

### **Transmission**

Transmission Serial Number: \_\_\_\_\_

Model: \_\_\_\_\_

### **Trailer**

Serial Number: \_\_\_\_\_

Manufacturer: \_\_\_\_\_

## OWNER/OPERATOR RESPONSIBILITIES

**At the time of delivery, the owner/operator is responsible for:**

- Understanding warranty terms and conditions of both the engine and boat.
- Obtaining insurance.
- Examining boat to ensure proper operation of all systems.

**Before operating the boat, the owner/operator is responsible for:**

- Obtaining state registration of the boat.
- Providing the proper USCG-required safety equipment.
- Following proper break-in procedure for the engine.
- Understanding safety information and proper operating procedures within this manual.

**While operating the boat, the owner/operator is responsible for:**

- Knowing that all safety equipment and personal flotation devices (PFDs) are in good condition and suitable for your boat and passenger load.
- Having at least one other passenger who is capable of handling the boat in an emergency.
- Following safe operating practices and the "Rules of the Road."
- Understanding proper maintenance and knowledge of the boat's operating systems.
- Providing safety training for the passengers.
- Avoiding use of alcohol and other drugs.
- Providing assistance to other boaters.

### **Insurance**

You must get insurance before operating your new boat. Insurance for loss by fire, theft or other causes, or liability protection against accidents is a must for responsible boaters. The boat owner is legally responsible for any damage or injury caused when he, or someone else operating the boat, is involved in an accident. Many states have laws detailing minimum insurance needs. Your insurance agent or dealer may be able to supply you with more information.

### **Registration/Documentation**

The USCG requires that all power boats operated on the navigable waters of the U.S. be registered in the state of main use; also, many states require registration in that state whenever boating on waters within their state boundary. Contact your state boating authorities (and neighboring states) for registration information on boats and trailers.

Your dealer can supply you with the appropriate forms.

### **QUALIFIED BOAT OPERATORS**

This manual is not intended to provide complete training on all aspects of boat operation. We strongly recommend that all operators of this boat seek additional training on boat handling and safety. Have all operators become familiar with the handling characteristics and proper steering and control system usage before attempting high-speed operation.

Some states require youths 16 years of age and younger to complete a boating safety course before operating any watercraft. Many others require operators under the age of 18 to be licensed in small boat operation.

### **EDUCATION OPPORTUNITIES**

Be boat smart from the start, take a boating safety course and get a free vessel safety check annually for your boat. For more information, contact:

- United States Coast Guard Auxiliary, [www.cgaux.org](http://www.cgaux.org);
- United States Power Squadrons, 888-FOR-USPS, [www.usps.org](http://www.usps.org).

Most boaters can enhance their enjoyment of boating experiences through increased knowledge of safe operation, navigation and regulation of pleasure boats. The following is a list of some other agencies and organizations that offer Water Safety,

First Aid and CPR courses or information. To find boating safety courses in your area, call your state's local boating agency or the USCG boating safety course line at 800-336-2628 (800-245-2628 in Virginia).

- American Red Cross
- State Boating Offices
- Canadian Power and Sail Squadrons
- Boat Owners Association of the United States
- National Safe Boating Council
- American Water Ski Association (AWSA)

### **FEDERAL, STATE AND LOCAL REGULATIONS**

The U.S. Coast Guard (USCG) is the authority of the waterways; they are there to help the boating public. State local authorities enforce boating regulations. You are subject to marine traffic laws and "Rules of the Road" for both federal and state waterways. You must stop if signaled to do so by enforcement officers, and permit to be boarded as asked.

### **REPORTING ACCIDENTS**

The USCG requires the owner or operator of a boat involved in an accident to report the incident to the proper marine law enforcement agency for the state in which the accident occurred.

Immediate notification to the nearest State boating authority is required if a person dies or disappears as a result of a recreational boating accident. If a person dies or sustains injuries requiring more than first aid, a formal report must be filed within 48 hours of the accident. A formal report must be filed within 10 days for accidents exceeding \$500 in property damage or complete loss of boat.

## RENDERING ASSISTANCE

If you see a distress signal or suspect a boat is in trouble, you must assume it is a real emergency and render assistance immediately. By law, the operator in charge of the craft is obligated to provide assistance to any individual in danger if such assistance can be provided safely. Failure to render assistance can result in a fine and/or imprisonment.

The 1971 Boating Safety Act grants protection to a “Good Samaritan” boater providing good faith assistance, and absolves a boater from any civil liability arising from such assistance.

## OUR ENVIRONMENT

As a boater, you already have an appreciation for nature’s beauty and the peace of the great outdoors. It is a boater’s responsibility to protect the natural environment by keeping waterways clean.

### *Foreign Species*

If you trailer your boat from lake to lake, you may unknowingly introduce a foreign aquatic species from one lake to the next. Thoroughly clean the boat and trailer below the water line, remove all weeds and algae, and drain the bilge and ballast tanks, if equipped, before launching the boat in a new body of water.

## WARNING

Leaking Fuel is a fire and explosion hazard. Inspect system regularly. Examine fuel System for Leaks or Corrosion at least annually.

The spilling of fuel or oil into our waterways contaminates the environment and is dangerous to wildlife. **DO NOT** discharge or dispose of fuel, oil or other chemicals into the water; it is prohibited and you can be fined.

**DO NOT** overfill the fuel tank, pump contaminated bilge water or discard soiled rags into the water.

### *Discharge/Disposal of Waste*

Waste means all forms of garbage, plastics, recyclables, food, wood, detergents, sewage and even fish parts in certain waters, essentially anything. Bring back everything you take out and dispose of in an environmentally friendly manner ashore.

### *Excessive Noise*

Noise means engine noise, radio noise or even voices. Many bodies of water have adopted noise limits. Music and loud conversation can carry a considerable distance on water, especially at night. Make sure to follow regulations and be courteous.

### *Wake/Wash*

Be alert for NO WAKE zones. Prior to entering a NO WAKE zone, come off plane to the slowest steerable speed. Use caution when operating around smaller crafts, in channels and marinas, and in congested areas.

### *Exhaust Emissions*

Increased exhaust (hydrocarbon) emissions pollute our water and air. Keep your engine tuned and boat hull clean for peak performance.

### *Paints*

If your boat is kept in water where marine growth is a problem, the use of anti-fouling paint may reduce the growth rate. Be aware of environmental regulations that may govern your paint choice. Contact your local boating authorities for information.

### *Cleaning Agents*

Household cleaners should be used sparingly and not discharged into waterways. **DO NOT** mix cleaners and be sure to use plenty of ventilation in enclosed areas. **DO NOT** use products which contain phosphates, chlorine, solvents, or non-biodegradable or petroleum-based products.

### MARPOL Treaty

The USCG enforces the International Convention for the Prevention of Pollution from ships, commonly referred to as the MARPOL Treaty (Marine Pollution). This treaty prohibits the overboard dumping of all ship-generated plastics, chemicals, garbage and oil.

### WARNING LABELS

The warning labels on your Tigé boat must remain legible. If a label is damaged or you suspect a label is missing, contact your Tigé Dealer for immediate replacement.

There are several labels placed throughout the boat to warn you about potential hazards.

All persons should wear a suitable life preserver/personal flotation device when on deck, especially children, disabled people and non-swimmers. Inform all passengers on the proper use of personal flotation devices and of the location of safety equipment, man overboard recovery equipment and the location and deployment of the ladder.

In some countries it is a legal requirement to wear a suitable life preserver/personal flotation device that complies with those countries' regulations at all times.

### RESTRICTED AREAS

Before boating, check with local, state and federal authorities to identify restricted areas. Because of the threat of terrorism, the U.S. Coast Guard has implemented and will continue to enforce strict limits on watercraft near U.S. Navy and Coast Guard ships and other potential targets.

### BOATING TERMINOLOGY

An easy way to remember PORT side from STARBOARD side is "PORT" and "LEFT" both have four letters.



**AMERICAN SEATING CHART**

RZX3



RZR/R20



RZX2



Z3/R23



RZ2/R22



Z1/R21



**EUROPEAN SEATING CHART**

RZX3



RZR/R20



RZX2



Z3/R23



RZ2/R22



Z1/R21



## TIGÉ FIVE LIMITED WARRANTY

### *Five Years Max Coverage 100% Transparency*

Tigé Boats is proud to offer the most transparent and comprehensive warranty that exists in the boating industry—The Tigé 5 Warranty. Quality and dependability are engineered and manufactured into your Tigé, and The Tigé 5 is designed to keep your time on the water as pleasurable and simple as possible. Tigé will pay for parts and labor to repair or replace any defective parts covered by this limited warranty for a period of five years or 555 hours, whichever comes first. The warranty begins when the customer takes delivery of the boat and the warranty registration card is received by Tigé. The Tigé 5 is standard for every 2018 Tigé model.

### *What's Covered*

	PARTS COVERED	LABOR COVERED
Hull LifePlus Core Construction	Lifetime	Replace
Ford Raptor/360R Close Cooled Engine	5 year	5 year
Powertrain, Transmission, V-Drive	5 year	5 year
Touch Screen & Electronics	5 year	5 year
Wakeboard Towers	5 year	5 year
Bow-to-Stern Components	5 year	5 year
WetSounds & Audio Systems	5 year	5 year
Floor Covering	5 year	5 year
Boatmate Trail with Roadside Assistance	5 year	5 year

### *Tigé LifePlus Lifetime Replacement Warranty*

The exclusive Tigé LifePlus Lifetime Replacement Warranty covers the integrated LifePlus Core construction of the boat, which includes hull, stringers and flooring. The LifePlus Core laminated construction is warranted for as long as the boat is owned by the original retail purchaser. This means that if a structural failure occurs, meaning delamination shown to Tigé's satisfaction, the purchaser will receive credit of the market value of your boat towards a new Tigé.

### *Limitations*

The following are excluded from coverage under this limited warranty:

- Damage due to misuse, negligence, accident, collision, impact, stains, scratches, scuffs & normal wear and tear.
- Owner's failure to perform reasonable and necessary maintenance as outlined in the Tigé owner's manual and powertrain manual.
- Damage due to any modification, alteration or repair to original product. Components, parts and accessories not supplied or installed by Tigé. Any attachment of non-Tigé accessories may void Tigé warranty.
- Tigé or associated dealership is not responsible for transporting your boat to an authorized Tigé repair facility. Lost time, inconvenience, the loss of use of your boat, cost of rental, gas, lodging, etc. are not covered.
- Boats used for commercial purposes, such as rental, instruction, etc.
- Any damage caused by salt water where boat was purchased without saltwater package
- Performance characteristics such as fuel consumption, speed, etc.
- Steering cables, batteries, pumps, impellers, filters, and normal mechanical/maintenance items
- Boats purchased with saltwater package warranted three (3) years or up to 300 Hours.
- Upholstery three (3) years.
- Canvas for two (2) years.
- Gel coat, powdercoats, finishes, and adhesives for one (1) year.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state and outside the United States.

***Transferability***

The Tigé 5 Warranty is fully transferrable to the second owner. Refer to the Tigé 5 Transferability document for details.

Contact your local Tigé dealer for warranty claims or contact:

**Tigé Boats, Inc.**

1801 Hwy 36

Abilene, TX 79602

Phone: 325.676.7777

[customerservice@tige.com](mailto:customerservice@tige.com)



**BOATING SAFETY**

## Boating Safety

### SAFETY WHILE BOATING

Boating-related accidents are generally caused by the operator's failure to follow basic safety rules or written precautions. Most accidents can be avoided if the operator is completely familiar with the boat, its operation and can recognize potentially hazardous situations.

In addition to everyday safety, failure to observe the safety recommendations may result in severe personal injury or death to you or to others. Use caution and common sense when operating your boat. Don't take unnecessary chances!

Drivers must be cognizant of their surroundings, other boats, their wake and other environmental factors including safe turning speeds, people and obstacles in the water, etc. Driver and boat owner assume all risks for themselves, their guests and anyone in proximity to their boat as well as ensuring that all passengers understand risks and responsibilities.

#### Develop Watersense



What is water sense? Water Sense is developed by familiarizing yourself with the boat, driving, water, equipment, and maintaining vigilance.

Familiarize yourself and follow The Watersport Responsibility Code.

#### WSIA Responsibility Code

Be aware that there are risks in boating and watersports that good judgment and personal awareness can help reduce. **TO INCREASE YOUR ENJOYMENT OF WATERSPORTS, FOLLOW THE TEN ELEMENTS OF THE CODE.**

#### IT IS YOUR RESPONSIBILITY TO:

- **ALWAYS** familiarize yourself with applicable laws, waterways and inherent risks
- **ALWAYS** have a capable observer in addition to driver and agree on hand signals
- **ALWAYS** wear a USCG type III, ISO or other agency approved (PFD) life jacket
- **ALWAYS** read user's manual and inspect equipment before use
- **ALWAYS** ski or ride under control, at proper speeds and within your limits
- **ALWAYS** turn ignition off when anyone is near watercraft power drive unit
- **ALWAYS** stay clear of engine exhaust to avoid Carbon Monoxide poisoning
- **NEVER** "Platform Drag" or touch swim platform while the engine is running
- **NEVER** ski or ride near swimmers, shallow water, other boats, or obstacles
- **NEVER** operate watercraft, ski or ride under the influence of alcohol or drugs

—Water Sports Industry Association

For more resources please visit [www.WSIA.net](http://www.WSIA.net)

## GENERAL PRECAUTIONS

Your Tigé boat has been constructed to meet all U.S. Coast Guard (USCG) and National Marine Manufacturers Association (NMMA) requirements applicable at the time of manufacture. However, it is still your responsibility as the boat owner to ensure the boat is always operated in a safe fashion.

USCG regulations require certain safety equipment be present on your boat during operation. Besides the USCG regulations, other local and/or international law enforcement agencies may have similar requirements. You should check with your local marine enforcement agency regarding any such requirements before using the waterways.

It is not intended for this manual to be a replacement for a course on boating safety. It is highly recommended that if you are unfamiliar with the use and operation of a boat, you seek advice and training from a qualified individual or organization. Check with your local boating agency or dealer for more information about boating safety classes in your area.

**Your safety, the safety of your passengers, and other boaters are among your responsibilities as operator or owner of this boat. Your boat must be in compliance with (USCG), state, and country safety equipment regulations.**

**You should know how to react correctly to adverse weather conditions, have good navigation skills, and follow the “Rules of the Road” as defined by the USCG and state/county/ local regulations.**

**Before each outing you should check all safety equipment, such as fire extinguishers, life jackets (PFDs), flares, distress flags, flashlights, and emergency cutoff switch. They should be operable, in good condition, readily visible, and easily accessed.**

**Know the weight capacity of your boat. DO NOT overload your boat. Passengers and equipment should be spread out evenly.**

**This section covers general boating safety information. Throughout this manual specific precautions and symbols identify safety related information.**

## BOAT SAFETY LABELS

Your Tigé boat is affixed with various safety labels at the time of manufacture. These labels appear at specific locations on the boat where safety is of particular concern. Safety labels must be legible. If you suspect a label is missing or one becomes damaged, contact your dealer for immediate replacement. **READ AND ADHERE TO ALL WARNING PLATES AND LABELS** from bow to stern, including those that are installed inside the engine compartment, lockers, and under seating.

## SAFETY STATEMENTS

Throughout this manual, specific precautions and symbols identify safety related information. Follow these precautions as indicated.



**The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**

**⚠ DANGER**

**DANGER** indicates a hazardous situation which, if not avoided, *will* result in death or serious injury.

## ⚠ WARNING

**WARNING** indicates a hazardous situation which, if not avoided, could result in a death or serious injury.

## ⚠ CAUTION

**CAUTION** indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

## NOTICE

**NOTICE** indicates a potentially hazardous situation which, if not avoided, may result in property damage.

The precautions listed in this manual and on the boat are not all-inclusive. If a procedure or method is not specifically recommended, you must satisfy yourself that it is safe for you and your passengers, and that the boat will not be damaged or made unsafe as a result of your decision. Remember—always use common sense when operating your boat!

In an emergency situation, you may have to resort to measures, which are not commonly practiced. Always assess the dangers of being in harm's way versus the protection of equipment. Keep a sound mind during an emergency and always think safety.

Failure to adhere to and comply with the safety statements labeled as dangers, warnings, and cautions that appear in this manual can lead to serious injury, or

death as well as property damage. Be sure to review the Boating Safety and Rules of the Road sections of this manual

**See appendix for warning labels.**

It is the responsibility of the boat owner and occupants of the boat to understand and comply with all warning labels and safety recommendations/requirements. Remember the driver of the boat and owner are responsible for the occupants of the boat and its safe operation.

### WARNINGS AND INSTRUCTIONS

**FAILURE TO ADHERE TO THESE WARNINGS MAY RESULT IN SEVERE INJURY OR DEATH TO YOU AND / OR OTHERS.**

- **DO NOT** swim near the boat when the engine is running. Being in NEUTRAL is not enough, the propeller may still be turning and carbon monoxide may be present.
- **NEVER** allow any type of spark or open flame on board. It may result in fire or explosion.
- Engine exhaust contains carbon monoxide.
- **DO NOT** operate the engine in a confined space.
- **DO NOT** go under the boat cover with the engine running or shortly after the engine has been running.
- **DO NOT** come into contact with boarding platform while the engine running.
- **DO NOT** "platform/teak" surf.
- **NEVER** operate the boat while under the influence of alcohol or other drugs.
- **NEVER** stand or allow passengers to stand in the boat, or sit on the transom, seat backs, engine cover or sides of the boat while the engine is running.
- **DO NOT** allow any passenger to have legs or other body parts over the side of the bow or the boarding platform while the engine is running. You or others may be thrown from the boat. All passengers must be in designated seats.
- **NEVER** leave children in the boat without adult supervision.

- **NEVER** dive from the boat without being absolutely sure of the depth of the water, otherwise severe injury or death may occur from striking the bottom or submerged objects.
- **NEVER** climb on, sit on, stand on, jump off of or dive off the pull tower.
- **NEVER** sit in a position that obstructs the operator's view.
- **DO NOT** remove or modify any components of the fuel system except for maintenance by qualified personnel. Tampering with fuel components may cause a hazardous condition.
- Battery electrolyte fluid is dangerous. It contains sulfuric acid, which is poisonous, corrosive and caustic. If electrolyte fluid is spilled or placed on any part of the human body, immediately flush the area with large amounts of clean water and immediately seek medical attention.
- **DO NOT** replace your boat's marine parts with automotive parts or parts that were not designed for your boat.

### **Boating Regulations**

The U.S. Coast Guard (USCG) is the governing authority of the United States waterways and is there to help the boating public. State boating regulations are enforced by local authorities. Owners and users outside of the United States must be cognizant of that country's laws and regulations. You are subject to marine traffic laws and "Rules of the Road" for both federal and state waterways; you must stop if signaled to do so by enforcement officers, and permit them to board if asked.

There are many USCG pamphlets available to you. These pamphlets go beyond the contents of this manual and explain "Rules of the Road," signal lights, buoys, safety, international and inland regulations. An excellent example is the Ultimate Watersports Handbook you should have received with your new boat, or which can be ordered by contacting WSIA, go to: [www.WSIA.net](http://www.WSIA.net). For more information, contact your local USCG Unit or visit [www.uscgboating.org](http://www.uscgboating.org).

### **Boater Responsibilities**

It is the owner's responsibility to ensure that the operator of the boat has been properly instructed in the lawful and safe operation of this vessel. Therefore, before op-

erating the boat, read this owner/operator manual thoroughly. Be sure you understand each item before operating it. Improper operation or trailering of the boat could lead to severe damage, injury, or death.

#### **At the time of delivery, the owner/operator is responsible for:**

- Understanding warranty terms and conditions of your boat, your engine, and your trailer.
- Obtaining insurance.
- Examining boat to ensure proper operation of all systems.

#### **Before operating the boat, the owner/operator is responsible for:**

- Registering the boat as required in the jurisdiction where the boat is being operated.
- Providing the proper (USCG) safety equipment, check local, state, country agency(ies) as to laws and regulations (USCG carriage requirements).
- Following proper break-in procedure for the engine.
- Carefully reading and understanding safety information and proper operating procedures within this manual.
- Familiarize yourself with the navigable waters where you intend to operate boat.

#### **Additional instructions the owner and operator are responsible for:**

- On-board equipment must always conform to the governing federal, state, and local regulations.
- Knowing that all safety equipment and life jackets (PFDs) are in good condition and suitable for your boat and passenger load.
- Prior to starting the engine, you must open the engine box and check the engine compartment and bilge for gasoline and oil vapors. You **MUST** also operate the blower for at least four minutes before starting the engine. Also, operate blower while idling at slow speed, and after stopping boat. Failure to do so may result in fire or explosion as well as serious injury or death to you and/or others. If you smell gasoline vapor or see liquid gasoline, **DO NOT** start the engine.
- Prior to operation ensure that all passengers are aware of where safety equipment is located and how to use it.

- Knowing that the load of persons, ballast, and equipment is within the limits stated on the USCG Maximum Capacities Plate.
- Verifying that the emergency cutoff switch lanyard is in proper operating condition and attached to driver's wrist or part of clothing when operating boat.
- Avoiding use of alcohol and other drugs.
- Slow down when crossing waves or wake in order to minimize the impact on passengers and the boat, but do not allow bow to submerge.
- When charging, batteries generate small amounts of dangerous hydrogen gas. This gas is highly explosive. Keep all sparks, flames and smoking well away from the area. Failure to follow instructions when charging a battery may cause an electrical charge or even an explosion of the battery, which could result in death or serious injury.
- Ensuring that all passengers are properly and securely seated in appropriate seating locations.
- Remember your boat will handle differently depending on loading and its distribution.
- Having at least one other passenger who is capable of operating the boat safely in an emergency.
- Following safe operating practices and the "Rules of the Road", and the Watersports.
- Responsibility Code.
- Operate slowly in congested areas such as marinas and mooring areas.
- Maintain a safe speed at all times to avoid collisions.
- **DO NOT** wrap ski lines or mooring lines around any body part which may become entangled in the line if you fall overboard and the boat is moving.
- Be sure to keep a watch for other boats, swimmers and obstructions in the water. Stay away from other boats and personal watercraft.
- It is recommended you have an experienced operator at the helm and present for safe towing—one to drive, one to observe (which is required in some states) and one to ski or ride.
- Look before you turn the boat. As a boater you are obligated to maintain a proper course and speed. Look before you turn.

- Keep track of ski lines and dock lines so they do not become entangled in the propeller.
- Always watch for low obstacles such as tree limbs bridges or power lines in boats with tow towers.
- Seek shelter from open water if there is threat of lightning.
- The engine box/cover serves as a machinery guard. The engine must be **OFF** whenever the box is open. Clothing for body parts can get caught in moving parts, causing death or serious injury. Keep away from moving parts.
- When you leave the boat take the keys with you. This will keep untrained and unauthorized persons from operating the boat.
- Providing assistance to other boaters.

### **Registration**

Federal Law requires that all motorboats be registered and that all motorcraft not documented by the U.S. Coast Guard display registration numbers. In nearly all states, this means registration with the designated state agency. In a few jurisdictions, the Coast Guard retains registration authority. Your dealer will either supply registration forms or tell you where they may be obtained. The agency will supply you with a certificate which must be carried with you when the boat is in operation. International laws may vary as to registration required.

### **Insurance**

The boat owner may be legally responsible for damages or injuries he or she causes or the operator causes. Common sense dictates that you carry adequate personal liability and property damage insurance on your boat, just as you would on your automobile. You should also protect your investment from physical damage or theft. Many states have laws detailing minimum insurance needs. Your insurance agent or your dealer may be able to supply you with more information.

### **Education Opportunities**

If you have never owned a boat before, you can get an excellent introduction to boat handling from organizations such as the U.S. Coast Guard, American Red Cross or your local authority. Even if you are a veteran boater, these courses will help

sharpen your boating skills as well as bring you up to date on current rules and regulations. See your local boating agency or dealer for information on classes in your area.

This manual is not intended to provide complete training on all aspects of boat operation. We strongly recommend that all operators of this boat seek additional training on boat handling and safety. Have all operators become familiar with the handling characteristics, and proper steering and control system usage before attempting high speed operation.

Some states require youths 16 years of age and younger to complete a boating safety course before operating any watercraft. Many others require operators under the age of 18 to be licensed in small boat operation. Boat smart from the start, take a boating safety course and get a free vessel safety check annually for your boat. For more information, contact: United States Coast Guard Auxiliary, [www.cgaux.org](http://www.cgaux.org); United States Power Squadrons, 1-888-FOR-USPS, [www.usps.org](http://www.usps.org).

The following is a list of some other agencies and organizations that offer Water Safety, First Aid and CPR courses or information. To find boating safety courses in your area, call your state's local boating agency or the USCG boating safety course line at 1-800-336-2628 (1-800-245-2628 in Virginia).

- American Red Cross
- U.S. Coast Guard Auxiliary
- U.S. Power Squadrons
- State Boating Offices
- Canadian Power and Sail Squadrons
- Boat Owners Association of the United States
- National Safe Boating Council
- WSIA
- European or international organizations

### ***Operation by Minors***

If your boat will be operated by a minor, remember to have an adult present at all times. Many states have laws regarding minimum age and licensing requirements for minors. Contact state and local authorities for special requirements that may apply in your area. **NOTE: Some states require boat training courses/certification.**

### ***Passenger Safety***

Any time you take your boat out, make sure that there is at least one other passenger aboard who is familiar with the operation of your boat. Passengers should be well aware of emergency equipment and shown how to use it. Passengers should also keep hands and feet in the boat and be safely seated while the boat is in motion.

The operator of the boat is responsible for the safety of the passengers, all skiers/riders as well as his/her own safety. The operator should ensure that all passengers are properly and securely seated in appropriate seating locations before starting and remain there whenever the boat is in motion. Place persons and gear in a way that distributes weight evenly.

While the engine is running, and during the boat mooring, all occupants should be properly seated. **DO NOT** sit on the engine box, seat backs, aft seating, sunpad, boarding platform or gunnels. You could fall overboard and be hit by the propeller. **DO NOT** allow objects, arms or legs, or any other body parts to hang over the bow or gunnels. **DO NOT** stand while the boat is moving.

The operator **MUST** sit in the driver's seat while the boat is moving and all passengers should remain properly seated.

### Overloading

#### ⚠ WARNING

An overloaded boat through passengers, non factory installed ballast, and equipment can cause death or serious injury. It can cause loss of control, capsizing, or swamping.

**DO NOT overload your boat.** Your boat is equipped with a maximum capacity plate indicating the maximum acceptable load as determined by the manufacturer following certain Federal guidelines. Equally critical is how weight is distributed throughout the boat. The weight must be distributed evenly throughout the boat, besides the proper use of the ballast. If too much weight is placed in one area it can have serious impact on boat handling and control.

The capacity plate is used by boat manufacturers participating in the National Marine Manufacturers Association certification program. Your manufacturer has submitted your model for inspection and compliance with their guidelines. The capacity plate has the following information permanently printed on it. It is attached to the boat by the throttle for the operator to read before they drive the boat.

- The total weight of persons, gear and other items which the boat is capable of carrying under normal conditions. **This weight must include any added ballast above and beyond manufacturer's ballast system(s).**

#### Be Advised

- Any non-factory installed ballast must be properly secured to prevent injury. Non-factory ballast is not recommended.
- Death or serious injury can occur from overloading the boat. **DO NOT** overload your boat.

- Do not fill the bilge area with water from any source.
- The maximum number of persons allowed on the boat. This information on the capacity plate applies under normal conditions and special care must be used in any abnormal conditions. Check the capacity plate on your boat and abide by these limits.
- Remember **DO NOT** exceed capacity!

#### NOTICE

Your boat manufacturer installs wake enhancement ballast systems in some models. The full weight of this system has already been considered in the boat capacity calculation and therefore does not influence maximum capacity, unlike non-factory ballast tanks or weights, which must be included as part of the gear weight.

As wakeboarding has developed, we have witnessed the advent of ballast systems which add weight and increase the size of the wake. The simplest ballast system on the market is the water ballast type, such as the "FAT SAC." It is not uncommon to see operators use such systems and then put additional people in their boat. Please be advised that this practice can lead to overloading your boat. Each boat has a maximum capacity label displaying the maximum weight of people, gear and ballast that can be placed in the boat. Always be aware of the load in your boat and do not load the boat in excess of the listed capacity. The quest for the largest wake has caused some to excessively overload their boats.

Overloading a boat may cause it to become unstable and adversely affect the boat's handling.

### Visibility

#### WARNING

Obstructed visibility can cause death or serious injury. Maintain clear visibility at all times. Arrange passengers and equipment for maximum visibility or designate a passenger to assist when visibility is limited.

The operator of the boat is responsible by law to “maintain a proper lookout by sight and hearing.” The operator must ensure that he/she has appropriate visibility for safe operation. No passengers or equipment should block the operator’s view outward or of other boats, skier, rider, swimmer, or anyone in the water. Even momentary interference can result in the driver’s inability to respond to a situation that requires avoidance of another vessel or submerged or partially-submerged objects. Look carefully before turning, especially when you are turning around to pick up a fallen skier/rider. Someone else may not be following the “Rules of the Road.” Keep a visual check for boats behind your boat. This is an area where accidents can happen very quickly. The boat should not be driven at a rate of speed faster than will allow it to be brought to a full stop within the operator’s field of view.

### Boating Under the Influence

#### DANGER

Operating a boat under the influence of alcohol can cause serious injury or death.

Boating, alcohol, and the use of other drugs just do not mix. Boating under the influence of alcohol or drugs can be deadly. Boating, coupled with alcohol and other

drugs results in many marine accidents and deaths accounting for approximately one third of all recreational boating fatalities. These substances decrease your reaction time and impair your judgment. Combined with the sun, wind, waves, and noise of other watercraft, the effects of drugs are increased and will significantly increase your reaction time. As the owner/operator, you are responsible for the alcohol/drug use and onboard behavior of your passengers.

#### WARNING

Federal and state laws prohibit operating a boat under the influence of alcohol and other drugs. These regulations are actively enforced. Impaired operation may result in severe personal injury or death.

#### WARNING

If the operator’s blood alcohol content is above the legal limit, violators are subject to fines and you can go to jail. You may also lose your automobile driving privileges.

Additionally, civil lawsuits in cases of property damage or injury/death to others can result in significantly higher verdicts when alcohol or drugs are allowed.

### Reporting Accidents

Boat operators may be required by law to file a Boating Accident report with their state boating law enforcement agency or local authority, the USCG, or their countries’ agency when their boat is involved in certain boating accidents. A boating accident must be reported if there is a loss or probable loss of life or personal injury

requiring medical attention. In these situations a formal report must generally be filed within 48 hours of the accident, and for accidents when damage exceeding \$500 is incurred, or there is a complete loss of the boat as well. A formal report must generally be filed within 10 days. If any of these events occur, seek further assistance from local law enforcement personnel.

### Rendering Assistance

If you see a distress signal or suspect a boat is in trouble, you must assume it is a real emergency and render assistance immediately. By law, the operator in charge of the craft is obligated to provide assistance to any individual in danger if such assistance can be provided safely. Failure to render assistance can result in a fine and/or imprisonment.

The 1971 Boating Safety Act grants protection to a “Good Samaritan” boater providing good faith assistance, and absolves a boater from any civil liability arising from such assistance.

### Factory Provided Safety Equipment

The Federal Boat Safety Act of 1971 (FBSA/71) and the National Recreation Boating Safety Program have established minimum safety standards for boats and associated equipment, specified by the USCG. In addition, the ABYC and the NMMA work with boat builders to develop voluntary standards that exceed base requirements. The included safety equipment on your boat meets or exceeds the standards of the USCG, ABYC and the NMMA. Some required safety equipment such as life jackets (PFDs) are not included with your boat. Your dealer can help you choose the appropriate equipment.

## NOTICE

Many states' equipment requirements go beyond USCG requirements. Contact your state boating office for further information.

Equipment requirements for coastal and inland waters differ. Check with local authorities and/or the USCG for further information about coastal water requirements. The following equipment may or may not be required by federal/local regulations.

### Owner Provided Safety Equipment

U.S. Coast Guard regulations require certain accessory equipment on each boat. For a detailed description, obtain “Federal Requirements for Recreational Boats” published by the Coast Guard. 1) Personal Flotation Devices (PFDs): PFDs must be Coast Guard approved, in good and serviceable condition and the appropriate size for the user. It is recommended that you wear PFDs while your boat is underway. Boats more than 16 feet 9 (4.8 meters) in length must be equipped with one type I, II, III or V and one type IV. PFDs are intended to save lives; you and your passengers should wear them while in the boat. Learn how to use them and adjust as necessary to make comfortable to wear. The type II PFD is recommended for near shore or inland water use. Some PFDs are specially made for use while waterskiing or wakeboarding and are not U.S.C.G. approved. Please check local law with respect to their use.

### Life Saving Equipment

Federal law requires at least one Type I, II, III, or V Personal Flotation Device (PFD), of the proper size, for each person on board or being towed, and at least one Type IV throwable PFD in the boat. There are four types of PFDs to wear and one type used for throwing in emergency situations.



**TYPE I**  
LIFE PRESERVERS



**TYPE II**  
BUOYANT VESTS



**TYPE III**  
FLOTATION AIDS



**TYPE IV**  
THROWABLE  
DEVICES



**TYPE V**  
HYBRID PFD MUST  
BE WORN WHEN  
UNDERWAY

**Type I Life Preserver:** Most buoyant PFDs are effective on all waters, especially open, rough water.

**Type II Buoyant Vest:** Good for calm water

**Type III Flotation Aid:** Good for most inland water applications where quick rescue is likely. Comes in various styles and some are designed for water sport activities.

**Type IV Throwable Device:** Intended for heavy traffic inland waters where help is available. Designed to be thrown to a person in the water.

**Type V Hybrid PFD:** Inflatable design for special use activities and may be used instead of a Type I, II, or III PFD with non-towed participants if used in accordance with the approval conditions on the label and if worn when the boat is underway. Some Type V PFDs provide increased protection against hypothermia.

- A Type V PFD must be worn to be counted toward the minimum carriage requirements.
- Special lifejackets are available for skiing and other water sports. These non-Coast Guard approved lifejackets do not count as PFDs.

Lifejackets (PFDs) are intended to help save lives. The operator should set an example by wearing one. Wear a life jacket (PFD) whenever boating. It is especially important that children and non-swimmers wear a life jacket (PFD) at all times. Make certain all passengers know how to put on and properly adjust their life jackets (PFDs) and that they are readily accessible. Check local, state, country agency(ies) as to laws and regulations. Also, selecting the proper type life jacket (PFD) for your kind of outing helps ensure your time on the water can be safer. **REMEMBER—The best life jacket (PFD) is the one that is worn—that is, the one that can save your life.**

At the beginning of each season, check life jackets (PFDs) for damage and test for proper flotation. Refer to the lifejacket (PFD) manufacturer's information. To meet requirements, each lifesaving device must have a current, legible USCG approval stamp permanently affixed.

**Your dealer can help you select appropriate life jackets (PFDs) and throwable lifesaving devices for your area.**

### ***Navigation Lights***

Your boat is equipped with navigational lights. Recreational boats are required to display navigational lights between sunset and sunrise and other periods of reduced visibility (fog, rain, haze, etc.). Your navigation lights are provided to keep other boats informed of your presence and course. It is up to you to make sure they are operational and turned on when required.

### ***Tower Lights***

Coast Guard regulations do not permit the use of tower side panel lights while the vessel is underway. The lights may be in use when the vessel is not in motion.

### ***Horn or Whistle***

All boats over 16 feet (4.8 meters) in length must be equipped with an operable horn or whistle. The following are standard signals when using a whistle or a horn:

- One prolonged blast: warning.
- One short blast: Pass on my port side.
- Two short blasts: pass on my starboard side.
- Three short blasts: my engines are in reverse.
- Five or more blasts: danger!

### ***Fire Extinguisher***

A fire extinguisher is required if your boat has an inboard engine, or when fuel is stored in closed stowage compartments.

Approved fire extinguishers are classified by a letter symbol, either B-1 or B-II with the B designating that the material will extinguish flammable liquids such as gasoline, oil, etc. B-1 extinguishers are required for boats less than 26 feet in length. Check periodically to ensure that the extinguisher is in working condition and fully charged. Check local, state, country agency(ies) as to laws and regulations.

### Emergency Safety Lanyard

Your boat is equipped with an emergency cutoff switch (safety lanyard.) We strongly recommend that the lanyard be secured to the operator and the lock plate attached to the emergency cutoff switch prior to starting the engine and anytime the engine is operating. The cutoff lanyard is designed to turn off the engine whenever the operator moves far enough away from the helm to activate the switch.

#### **⚠ WARNING**

It is strongly recommended you use the Emergency Safety Lanyard system as failure to do so can cause death or serious injury. **DO NOT** operate the boat if the Emergency Safety Lanyard system does not function properly.

- Attach the safety lanyard to a secure place on your clothing, your arm or leg while operating.
- **DO NOT** attach the lanyard to clothing that could tear loose.
- **DO NOT** route the lanyard where it could become entangled, preventing it from functioning.
- Avoid accidentally pulling the lanyard during normal operation.
- Loss of engine power means loss of most steering control. Also, without engine power, the boat could slow rapidly. This could cause people and objects in the boat to be thrown forward.

There are practical limitations to what the Emergency Safety Lanyard can do. It can take several seconds for the engine and propeller to stop turning. The boat can continue to coast for several hundred feet depending on the velocity at the time the switch was activated, and the degree of any turn. While the boat is coasting, it can cause injury to anyone in its path as seriously as if the boat operated under power. Accidental loss of power can be hazardous particularly when docking or in heavy seas, strong current or high winds.

### Visual Distress Signals

All vessels used on coastal waters, the Great Lakes, territorial seas, and those waters connected directly to them up to a point where a body of water is greater than two miles wide, must be equipped with USCG approved visual distress signals. Your dealer or local authorities can help you select appropriate visual distress signals for your area.

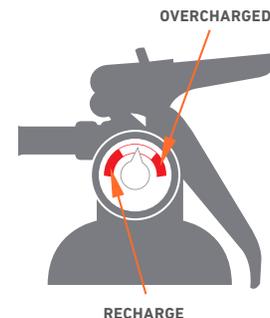
If you are required to carry distress signals, you must have three USCG approved pyrotechnic devices. Be sure they are in serviceable condition, not exceeding the expiration date and stored in a cool, dry location in a red or orange waterproof container.

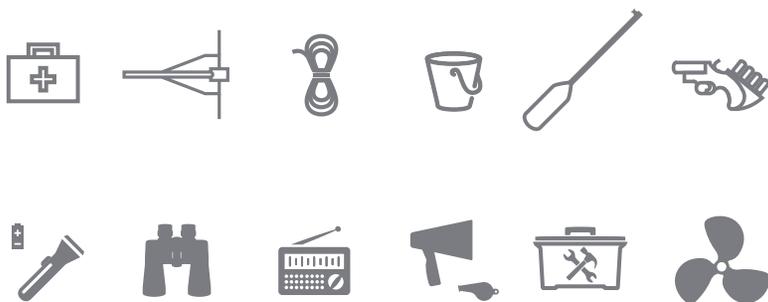
#### **⚠ WARNING**

Pyrotechnic signaling devices can cause fire and / or explosion, death, serious injury, and property damage if improperly handled. Follow the pyrotechnic manufacturer's directions.

### Recommended Safety Equipment

As a precaution, a good boater will avoid potential problems on an outing by having additional equipment on board. Normally, this equipment is dependent on the body of water and the length of the trip; your dealer can assist you.





**We recommend the following equipment:**

- First aid kit and manual
- Anchor with at least 75 feet (23 meters) of line
- Mooring lines and fenders
- Bailing device (bucket, hand pump)
- Combination paddle/boat hook
- Local charts and compass
- Day/night distress signals
- Waterproof flashlight and spare batteries
- Cellular phone
- Binoculars
- Portable AM/FM radio with weather band
- A non-electric horn or whistle
- Extra engine oil
- Tool kit
- Spare propeller and mounting hardware
- Spare fuses
- Spare keys
- Sunglasses and sun block lotion

## EMERGENCIES

### *Fire/Explosion*

Many boat fires involve flammable liquids such as gas or oil. Many inboard fires start in the bilge area which at times can be filled with gas vapors. Since gas vapors cannot be seen, boat fires tend to travel very fast. If you encounter a fire on board, turn off the engine immediately. If you have a fire extinguisher on board and access to the fire, it may be controllable. Direct the contents of the extinguisher at the base of the flames. Throw burning materials overboard if possible. Put on PFDs, if not already on, signal for help and prepare to abandon the boat if necessary.

## ⚠ WARNING

### **BURN HAZARD**

Gasoline floating on water which is ignited can cause death or serious injury. Gasoline will float on top of water and can burn. If the boat is abandoned, swim upwind, far enough to avoid fuel that can spread over the surface of the water.

### *Capsizing and Swamping*

A boat may capsize or swamp when least expected. Formulate a plan in advance on what to do if it should happen. Keep in mind the following guidelines:

- Try to turn the engine OFF to prevent damage.
- If others were on board, try to locate them, make sure they are conscious and that they can swim.
- Immersion in water speeds the loss of body heat and can lead to hypothermia. This is the abnormal lowering of internal body temperature.

If a leak is discovered, immediately determine the cause. A collision with an underwater object could cause the hull to develop a leak. A loose fitting hose clamp on a piece of equipment could cause a leak. Try to repair the leak if possible. If a leak is threatening the safety of you and your passengers, call or signal for assistance.

### **Staying Afloat**

- Remain calm. Do not thrash about or try to remove clothing or footwear. This leads to exhaustion and increases the loss of air that may keep you afloat.
- Keep your lifejacket (PFD) on.
- Keep your knees bent.
- Float on your back and paddle slowly to safety.

### **Collisions**

If a collision occurs, immediately account for all passengers. Assess the hull for damage and activate the bilge pumps to reduce any water intake. Try to operate the boat to keep the damaged area above water. If necessary, call or signal for assistance.

### **Grounding**

In the event you run aground, assess the situation before proceeding. Immediately stop any water from entering the boat. Inspect the rudder and rudder control system, the hull, propeller and strut for damage. Maneuver the boat to safe water only if the hull and all operating systems are in satisfactory operating condition. Otherwise, call or signal for assistance.

### **Water Rescue (Man Overboard)**

Immediately react to a person who has fallen overboard. Keep the victim constantly in your sight. Safely return to the victim as soon as possible. Throw the person a life preserver. Turn off the engine and help the person into the boat if someone is thrown or washed overboard. It may be possible to revive a drowning victim who has been under water for some time and shows no sign of life. Start CPR immediately and get the victim to a hospital as quickly as possible.

### **Reporting Accidents**

Boat operators are required by law to file a Boating Accident report with their state boating law enforcement agency or local authority when their boat is involved in certain boating accidents. A boating accident must be reported if there is a loss or probable loss of life, personal injury requiring medical attention,

damage exceeding \$500, or there is a complete loss of the boat. If any of these conditions arise, seek further assistance from local law enforcement personnel.

### **Medical Emergency**

Be prepared in the event of an emergency. Know how to use your first aid kit. Be aware of any special medical conditions of your passengers.

### **Operation Failure**

If you experience a propulsion, steering or control failure, immediately turn **OFF** the engine. Try to determine the failure and repair, if qualified to do so. Otherwise, call or signal for assistance.

## **HAZARDOUS CONDITIONS**

Every waterway poses hazards that should be avoided. The following information outlines some of the hazards which may be encountered.

### **Shallow Water Operation**

Shallow water brings on obvious hazards such as sand bars, stumps, rocks, etc. Know the area you will be operating the boat in. Hitting objects at high speeds can cause severe damage to people and the boat. If you know you will be navigating the boat in shallow water, post a lookout and proceed slowly.

Know the minimal depth your boat can safely travel.

### **Warning Markers**

Learn to recognize the different buoys and day markers; they are used as the signposts of the waterways identifying navigable routes and water hazards. It is a good idea to ask local authorities about hazard areas and if they are marked. Stay within boundaries and clear of hazards.

### Weeds

Weeds can generally be a threat to a boat's engine and other components on the boat. If weeds wrap around the propeller, they can create vibration in the engine. They also restrict water intake, causing the engine to overheat.

## NOTICE

Weeds can sometimes be removed by shifting to NEUTRAL, pausing for a moment, then shifting to REVERSE to unwind the weeds from the propeller.

### Dam Spillways

The area around dam spillways is very hazardous and conditions can change rapidly. Stay clear of the spillways and areas below dams.

### Restricted Areas

Before boating, check with Local, State, and Federal authorities to identify restricted areas. Because of the threat of terrorism, the U.S. Coast Guard has and will continue to implement strict limits on watercraft near U.S. Navy and Coast Guard ships and other potential targets.

### Weather/Seas

Learn and understand weather patterns and signs of change. Bad weather can cause an uncomfortable and unsafe situation. If a storm approaches, seek a safe harbor.

## ENVIRONMENT

As a boater, you already appreciate nature's beauty and the peace of the great outdoors. It is a boater's responsibility to protect the natural environment by keeping waterways clean. **DO NOT put anything in the water you would not want to eat or drink!**

## WARNING MARKERS

It is a good idea to ask local authorities if there are hazardous areas and how they are marked. Boaters must also recognize the flag designs, which indicate that skin divers are present and keep well clear of the area.

DIVERS FLAG



USED BY RECREATIONAL DIVERS—INDICATES DIVER'S POSITION

ALPHA FLAG



WORLDWIDE VESSELS ENGAGED IN DIVING OPERATIONS—DOES NOT INDICATE DIVER'S POSITION

DISTRESS FLAG



INDICATES FELLOW BOATER IS IN NEED OF ASSISTANCE

### Skin Diver Warning Flag

Watch for swimmers. Swimming areas may not be marked. Steer clear from the area and remain alert.

### Swim Area Warning Buoy

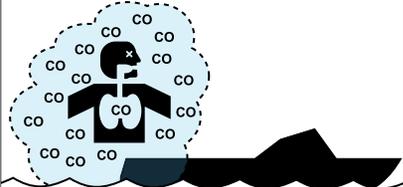
Navigation markers serve as a means of identifying navigable routes, and indicate water hazards. Boaters should become familiar with navigation markers and stay within marked boundaries and clear of hazards.



## CARBON MONOXIDE

Carbon Monoxide (CO) is a colorless and odorless gas produced by all engines and fuel burning appliances. Even with the best boat design and construction, plus the utmost care in inspection, operation and maintenance, hazardous levels of CO may still be present in accommodation spaces under certain conditions. To reduce CO accumulation, always ventilate the boat interior and avoid boating situations which cause increased exposure. The boat owner, as well as all boat occupants, must ensure that they understand the dangers of carbon monoxide and comply with all safety recommendations/requirements.

No one should be allowed to stand or sit in any area of the boat that is not a designated seat while the boat is running. It is the responsibility of the boat owner and occupants of the boat to understand and comply with all warning labels and safety recommendations/requirements.

	<div style="background-color: red; color: white; padding: 5px; text-align: center;"> <b>⚠ DANGER</b> </div> <p><b>Carbon monoxide (CO) can cause brain damage or death.</b></p> <ul style="list-style-type: none"> <li>• Engine and generator exhaust contains orderless and colorless carbon monoxide gas.</li> <li>• Carbon monoxide will be around the back of the boat when engine is running and after the engine is turned off.</li> <li>• Move to fresh air, if you feel nausea, headache, dizziness, or drowsiness.</li> </ul>
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## ENSURE ADEQUATE VENTILATION FOR CORRECT AIR MOVEMENT THROUGH BOAT!

Have a suspected CO victim deeply breathe fresh air and immediately seek medical attention.

### Foreign Species

If you trailer your boat from lake to lake, you may unknowingly introduce a foreign aquatic species from one lake to the next. Thoroughly clean the bottom of the boat, below the water line, remove all weeds and algae, and drain the bilge, ballast, and livewells before launching the boat in a new body of water. Check local, state, country agency (ies) as to laws and regulations.

### Fuel/Oil Spillage

## ⚠ WARNING

Fire or explosion hazard exists from fumes accumulating from rags being stored in bilge area. **DO NOT** store rags used to wipe up fuel or solvent spills in the boat. Dispose of rags properly ashore.

The spilling of fuel or oil into our waterways contaminates the environment and is dangerous to wildlife. **DO NOT EVER** discharge or dispose of fuel, oil or other chemicals into the water; it is prohibited and you can be fined. These are three common, accidental types of discharge:

- During initial fueling of a nearly empty tank
- Overfilling the fuel tanks
- Pumping contaminated bilge water

### Discharge/Disposal of Waste

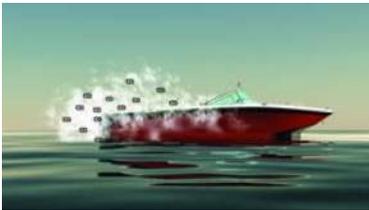
Waste means all forms of garbage, plastics, recyclables, food, wood, detergents, sewerage and even fish parts in certain waters—in short, nearly everything. We recommend you bring back everything you take out with you for proper disposal ashore.



Blockage of boat exhausts by obstruction.



Exhausts traveling along obstruction.



Operating at slow speed or while dead in the water.



Operating with high bow angle.



Exhausts from other vessels in confined areas.



Operating with canvas tops and side curtains in place without ventilation.

### **Excessive Noise**

Noise means engine noise, radio noise, or even yelling. Many bodies of water have adopted noise limits. Music and loud conversation can carry a considerable distance on water, especially at night. Be sure to follow regulations and be courteous.

### **Speed/Wake/Wash**

Be alert for NO WAKE zones. You are responsible for any damage or injury caused by your wake/wash. Prior to entering a NO WAKE zone, come off plane to the slowest steerable speed.

Some states and boating areas have imposed speed limits for operation of boats, including but not limited to no-wake zones. Check local, state, country agency(ies) as to laws and regulations. The U.S. Coast Guard and local boating authorities are excellent sources for this information, which include penalties for failure to observe the requirements. Use caution when operating around smaller crafts, in channels and marinas, and in congested areas.

### **Exhaust Emissions**

Increased exhaust (hydrocarbon) emissions pollute our water and air. Keep your engine tuned and boat hull clean for peak performance. Consult your Tigé dealer for information.

### **Paints**

If your boat is kept in water where marine growth is a problem, the use of anti-fouling paint may reduce the growth rate. Be aware of environmental regulations that may govern your paint choice. Contact your local boating authorities for information.

### **Cleaning Agents**

Household cleaners should be used sparingly and not discharged into waterways. Never mix cleaners and be sure to use plenty of ventilation in enclosed areas. **DO NOT** use products which contain phosphates, chlorine, solvents, non-bio-degradable or petroleum based products. Refer to CARE AND MAINTENANCE in this manual for more information.

### **MARPOL Treaty**

The USCG enforces the International Convention for the Prevention of Pollution from ships, commonly referred to as the MARPOL Treaty (Marine Pollution). This treaty prohibits the overboard dumping of all ship-generated plastics, chemicals, garbage and oil.

## **WATERSPORT SAFETY**

Skiers or riders are obligated to be aware of the same fundamental safety rules as operators. If you are new to water skiing, wakeboarding, wakesurfing, and other towed watersports, seek certified training before starting. You will find it especially helpful to join a local ski club, World Wakeboard Association, and/or the USA Water Ski, when possible.

Always remember that the majority of water skiing/wakeboarding and other towed watersports injuries are the result of impacts with other objects. Always look where you are going and be aware of what is going on around you.

### **Teak/Ski Platform/Drag Surfing**

READ, UNDERSTAND and be FAMILIAR with the information contained on any warning labels or any label on equipment and adhere to the boat operation practices described on them. The United States Coast Guard issued a SAFETY ALERT on August 28, 2001 that covers some of the issues of improper use of teak boarding platform. The SAFETY ALERT and portions of the accompanying information follow:

#### **SAFETY ALERT from August 28, 2001**

The United States Coast Guard advised boaters not to "Teak/Drag Surf." Recent boating fatalities revealed that carbon monoxide (CO) emitted from a vessel's ex-

haust resulted in CO poisoning and the death of at least six teak surfers. "Teak/Drag Surfing" places the individual in position directly exposed to the CO in the engine's exhaust. This may result in a loss of coherent responses and even death. In addition, "Teak/Drag Surfing" dangerously exposes the individual to a possible propeller injury, and since it is often done without a life jacket (PFD), it significantly increases the probability of drowning. Therefore, the Coast Guard stresses, "Teak/Drag Surfing" is a very dangerous activity and advises boaters not to participate in it.

The Coast Guard pointed out that carbon monoxide is one of the most dangerous gases. It strikes before you know you are exposed and it impairs in a way that can and too often does lead to death. That is why it is so important to the Coast Guard that in every circumstance where it can be avoided, it is.

Every year tragic deaths occur from the negligence of unsafe boating and dangerous activities. Experts say, "many of these deaths may have been caused by an invisible hazard, carbon monoxide poisoning." Taking the risk of swimming under a boarding platform when the engine is running, skiing within 20 ft (6.1 meters), "teak surfing" or "dragging" behind a moving boat can be fatal.

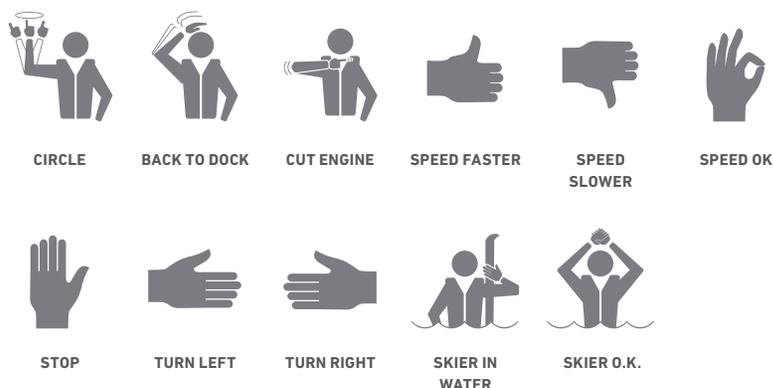
As a concerned Manufacturer we do not consider any dangerous activities which can result in a serious injury or death a watersport. Your manufacturer is concerned for all boaters' safety and **DOES NOT** promote unsafe boating risks, and **STRONGLY** recommends that boaters refrain from **ANY** unsafe or dangerous activities. Boaters/users assume all risks for such actions.

**DO NOT** use the boarding platform for any other purpose than boarding the boat or preparation of entering the water, and **DO NOT** be on or near the boarding platform when the engine is running.

The boat owner, as well as all boat occupants, must ensure that they understand the dangers of carbon monoxide and comply with all safety recommendations/requirements. No one should be allowed to stand or sit in any area of the boat that is not a designated seat while the boat is running.

## GENERAL WATERSPORT PRECAUTIONS FOR OPERATORS

- Make sure that everyone knows and uses approved skiing hand signals and common skiing courtesies.



- Propeller strikes may cause serious injury or death.
- The operator should know the ability level of the skier/rider.
- The operator should look ahead before starting.
- The engine **MUST** be shut down (OFF) before a skier/rider enters or exits the boat, boarding platform, or ladder.
- Observer in the boat should keep operator appraised of skier/rider status.
- Communicate skiing speed with the skier/rider before starting.
- Aft located seating of various names are not to be occupied while the engine is running.
- Be sure to have an experienced operator in the boat while skiing/riding.
- When people are putting on or taking off watersports equipment, always turn the engine off.
- **NEVER** allow tow rope loose ends to endanger passengers.
- **NEVER** allow passengers to sit in the path of the rope.

- The operator should always watch the skier/rider as the line is tightened to start (in case rope wraps around ski or skier/rider).
- The operator should look ahead before starting.
- Start from a safe place with good forward and peripheral visibility.
- The operator should check direction of the rudder before starting (in gear, slowly making sure the boat goes straight).
- The operator should be primarily aware of what is occurring in front of the boat, but be aware of skier/rider's progress.
- **DO NOT** "back up" to anyone in the water.
- **DO NOT** follow directly behind another boat or skier/rider without leaving an adequate safe distance.
- Look before you turn the boat to pick up a fallen skier/rider.
- Give immediate assistance to anyone who falls as they are vulnerable and may not be seen by other boaters.
- The operator should always keep the skier/rider in view when the skier/rider is entering or exiting the boat.
- The operator should never retrieve or pick up an article from the water while the engine is running. The engine **MUST** be shut OFF.
- Have ship to shore communication devices if operating at a significant distance off shore.
- When approaching a skier/rider, always turn the engine off before allowing the skier/rider to come onboard. This will help keep a propeller that is rotating under engine power from injuring the skier/rider.
- Be sure to approach a downed skier/rider on the operator's side, keeping the skier/rider in view.
- Display a skier/rider down flag where required whenever the skier/rider is in the water and not skiing.
- Be sure to follow the approved towing pattern on each lake or waterway.
- Never climb, sit or stand on a wakeboard tower. The wakeboard tower is intended for towing only as noted. Do not tow more than two (2) persons at one time off a wakeboard tower. The wakeboard tower approved for use on your boat should be used only for water skis, wakeboards or recreational towables, and not for parasailing, kite flying or towing other boats.

- Maintain a distance of at least 100 feet from all other objects, including other boats, piers, rafts, mooring and navigational buoys, pilings, abutments or any other obstacles.
- **NEVER** lift or trailer the boat with water in the bilge or in ballast tanks, lift or trailer per manufacturer's instructions.

### GENERAL WATERSPORT PRECAUTIONS FOR TOWED SKIER/RIDER

- Always inspect watersports equipment for wear, fraying, etc., before use. **DO NOT** use if they show signs of wear or fraying.
- Be sure to wear wet suits or protective shorts when engaging in high energy skiing/riding to prevent abrasions, hypothermia and injuries to orifices (rectal and vaginal) from impact with the water surface.
- Every skier/rider should always wear a USCG-approved Type III personal flotation device (lifejacket).
- **NEVER** attach ski/wakeboard rope to anything but approved pylons and wakeboard towers.
- Be sure to inspect the tow point before use and make sure it is seated correctly, if removable. If there is any evidence of corrosion or other damage, do not use until it has been inspected by your boat dealer.
- The skier/rider should indicate he/she is clear of the boat prior to starting the boat or putting the boat into gear and tightening the rope.
- Never put your arm, head or any other part of your body through the handle/bridle of the ski or wakeboarding line, nor wrap the line around any part of the body at any time.
- **DO NOT** ski near swimming areas, beaches or personal watercraft.
- **DO NOT** jump from a boat that is moving at any speed, nor enter or exit the water when the engine is running.
- **DO NOT** ski at night or directly in front of other boats.
- **DO NOT** ski with multiple skier/riders with different length ropes.
- **DO NOT** ski in limited visibility conditions.
- **DO NOT** approach the boat or the rear of the boat while the engine is running.

- When in the water around docks where electrical current is present exercise caution to avoid electrocution.

### WATERSPORTS SAFETY CODE

**Before you get in the water:** Skiing or riding instruction is recommended before use. Instruction will teach general safety guidelines and proper skiing or riding techniques, which may reduce your risk of injury. For more information on skiing or riding schools, contact your dealer, Association, or local ski club.

- Know the federal, state and local laws that apply to your area.
- If you are not familiar with a waterway, ask someone who is, to tell you about any hidden dangers or things to avoid.
- Whether you plan to be in a watercraft, or skiing/riding behind one it is important you are wearing a properly fitted life jacket (PFD) approved by your country's agency, USCG Type III, ISO, etc.
- Inspect all equipment prior to each use, check bindings, fins, tube, attachment, tow rope and flotation device. Do not use if damaged.

**Watercraft Safety:** A knowledgeable and responsible driver is the most important safety device on any watercraft.

- Never operate a watercraft, ski or ride under the influence of alcohol or drugs.
- Only use water ballast and people for additional weight.
- Never exceed the passenger or weight limitations of the watercraft.
- Never allow passengers to hang outside the watercraft or towed device or sit on the gunwales or anywhere outside of the normal seating area.
- Never allow water to overflow the bow or gunwales of the watercraft.
- Uneven weight distribution or additional weight may affect the handling of the watercraft.

**Carbon Monoxide:** The exhaust from the engine on a watercraft contains Carbon Monoxide (CO) which is a colorless, odorless and poisonous gas. Excessive exposure to CO can cause severe injury or death. Follow this advice to avoid injury.

- Never “Platform Drag” by holding onto the boarding platform or be dragged directly behind the watercraft. This is where CO will be.
- Do not sit on the watercraft transom or boarding platform while the engine is running.
- Make sure the engine is properly tuned and running well. An improperly tuned engine produces excessive exhaust and CO.
- If you smell engine exhaust do not stay in that position.
- Go to the United States Coast Guard’s website: [www.uscgboating.org](http://www.uscgboating.org) for more information on how to help protect yourself and others from the dangers of CO.

**Tow Ropes:** Tow ropes come in different lengths and strengths for different activities. Make sure any rope you are using is suited for skiing or riding and that it is in good condition.

- Never use a rope that is frayed, knotted, unraveling or discolored from use or being left in the sun. If a rope breaks while in use it can recoil at the skier/ rider being towed or into the watercraft where it might strike passengers. Replace tow ropes with any sign of damage.
- Never use a tow rope with elastic or bungee material to pull skiers or riders.
- Rope should be attached to the watercraft in an approved fashion with hardware designed for towing. Refer to your watercraft manual for instructions on proper tow rope attachment.
- Always keep people and tow ropes away from the propeller, even when idling.
- If a tow rope should become entangled in a propeller, shut off engine, remove the key and put it in your pocket before retrieving the rope. Tow ropes should be neatly stowed in the boat when not in use.

**Preparing to ski or ride:** It is recommended and in some states required that you have a person other than the driver as an observer to look out for the skier/ rider. Be sure the driver is aware of the experience and ability level of the skier/ rider.

- The driver, observer and skier/ rider need to agree on hand signals before skiing or riding. Signals should include **READY, STOP, SPEED UP, and SLOW DOWN.**
- Start the engine only after making sure that no one in the water is near

- the propeller.
- Turn the engine off when people are getting into or out of the watercraft, or in the water near the watercraft.
- Always make sure the tow rope is not wrapped around anyone’s hands, arms, legs, or other parts of the body.
- Start the watercraft and move slowly to remove slack until the tow rope is tight.
- When the skier/ rider signals READY and there is no traffic ahead, take off in a straight line. Adjust the speed according to the signals given by the skier/ rider.

**Skiing or Riding:** The watercraft and skier/ rider should always maintain a sufficient distance from obstacles so a skier/ rider falling or coasting and/ or watercraft will not encounter any obstacle.

- Do not use in shallow water or near shore, docks, pilings, swimmers, other watercraft, or any other obstacles.
- Use only on water.
- Never attempt land or dock starts. This will increase your risk of injury or death.
- Always wear a properly fitted life jacket (PFD) approved by your country’s agency, USCG Type III, ISO, etc.
- The faster you ski or ride, the greater your risk of injury.
- Never make sharp turns that may cause a slingshot effect on the skier/ rider’s speed.
- Skier/ Rider should be towed at an appropriate speed for their ability level.

**Fallen skier or rider:** Falling and injuries are common in skiing or riding.

- Circle a fallen skier/ rider slowly to return the tow rope handle or pick up the fallen skier/ rider.
- Put the watercraft in neutral when near a fallen skier/ rider.
- Always keep the fallen skier/ rider in view and on the driver’s side of the watercraft.

- Display a red or orange skier/rider down flag to alert other vessels that a skier/rider is down.

**The Warnings and practices in the Watersports Safety Code represent common risks encountered by users. The code does not cover all instances of risk or danger. Please use common sense and good judgment.**

**When participating in watersports, be safe and courteous and follow these guidelines:**

- Be considerate to fishermen and others you share the water with.
- **DO NOT** perform watersports in congested areas.
- Stay away from navigation markers.
- Stay away from other boats and watersports participants

### Basic Rules On The Road

#### WARNING

##### **COLLISION HAZARD**

Collisions between boats can cause death or serious injury. Follow the nautical "Rules of the Road."

**The nautical rules of the road must be followed to prevent collisions between vessels. Like traffic laws for automobiles, the operator is legally required to follow the rules.**

The following information outlines only the most basic of the nautical rules of the road. For more information, contact your local U.S. Coast Guard Auxiliary or local maritime authority.

The operator is legally required to follow the rules. The following information outlines only the most basic of the nautical "Rules of the Road." For more information, contact your local USCG Auxiliary.

#### ***Aids to Navigation***

Learn to recognize the different buoys and day markers; they are the signposts of the waterways. The United States Aids to Navigation System (USATONS) is the primary marking system used on inland water, coastal waters and rivers in the United States. This system is maintained by the U.S. Coast Guard (USCG).

There are two primary marking systems in use in the U.S.: the Uniform State Waterway Marking System (USWMS), used on inland waters and maintained by each state, and the Federal Waterway Marking System (FWMS), used on coastal waters and rivers and maintained by the USCG. In addition, the FWMS has two modified systems: the Western River Buoyage, and the Intercoastal Waterway Buoyage. Be sure to check with local authorities on the buoyage system in use.

The type of hazard/warning buoys and markers depends on the area of jurisdiction. Check with local boating authorities.

#### ***USWMS System***

In the USWMS Lateral System, well-defined channels are marked with red and black buoys. Lateral means the sides of the channel are marked and the boat should pass between them. The USWMS Cardinal System is used when there is no well-defined channel or where an obstruction may be approached from more than one direction. With the cardinal system:

- Pass north or east of BLACK-TOPPED WHITE buoy.
- Pass south or west of RED-TOPPED WHITE buoy.
- RED and WHITE VERTICALLY STRIPED buoy indicates boat should pass outside of the buoy (away from shore).

### FWMS System

The FWMS Lateral System is for use on navigable waters except Western Rivers and Intercoastal Waterways. The markings on these buoys are oriented from the perspective of being entered from seaward (the boater is going toward the port). This means that red buoys are passed on the starboard (right) side of the vessel when proceeding from open water into port, and green buoys to the port (left) side.

The right side (starboard) of the channel is marked with RED, even numbered buoys.

The left (port) side of the channel is marked with GREEN, odd numbered buoys.

The middle of the channel is marked with RED and WHITE vertically striped buoys; pass close to these buoys.

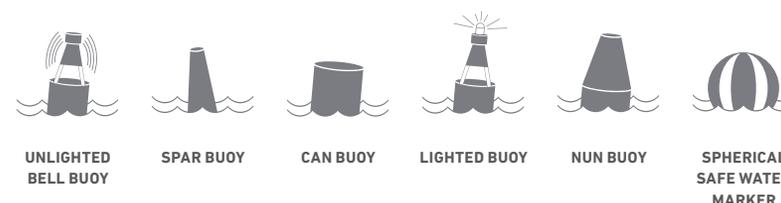
Obstructions, channel junctions, etc. are marked with RED and GREEN horizontally striped buoys. A RED band at the top means the preferred channel is to the left of the buoy; a GREEN top band means the preferred channel is to the right of the buoy.

Day markers are colored and numbered the same as buoys. RED, triangular day markers with even numbers mark the starboard side of the channel. GREEN, square day markers with odd numbers mark the port side of the channel.

Lights, bells and horns are used on buoys for night or poor visibility conditions. Buoys with unique light flashing characteristics are identified on nautical charts with the specific flashing pattern.

### Types of Buoys

There are several types and shapes of buoys. Buoys may be unlighted, lighted, with sound or may have both an audible and a visual signal. Lights, bells and horns are used on buoys for night or poor visibility conditions. Different shapes of buoys are shown below.



### FWMS Marking System

Buoys with unique light flashing characteristics are identified on nautical charts with the specific flashing pattern.

### Mooring Buoys

The only buoys you are permitted to moor are mooring buoys.



Mooring buoys are white with a blue horizontal stripe. Mooring to a navigation buoy, regulatory markers or lateral markers is illegal. Ko.1901

### Uniform State Regulatory Markers

Regulatory markers indicate dangerous or restricted controlled areas. These markers are used to indicate speed zones, areas set aside for particular use, general information and directions.

Regulatory markers are white with orange geometric shapes and also have orange bands near the top and at the water line of the buoy. You must obey regulatory markers.



## RIGHT OF WAY

### NOTICE

In general, boats with less maneuverability have right of way over more agile crafts. You must stay clear of the vessel with right of way and pass to his stern.

#### *Privileged Boats*

Privileged boats have right of way and can hold course and speed. Sailboats and boats paddled or rowed have the right of way over motor boats. Sailboats under power are considered motorboats. Small pleasure craft must yield to large commercial boats in narrow channels.

#### *Burdened Boats*

The burdened boat is the boat that must make whatever adjustment to course and speed necessary to keep out of the way of the privileged boat.

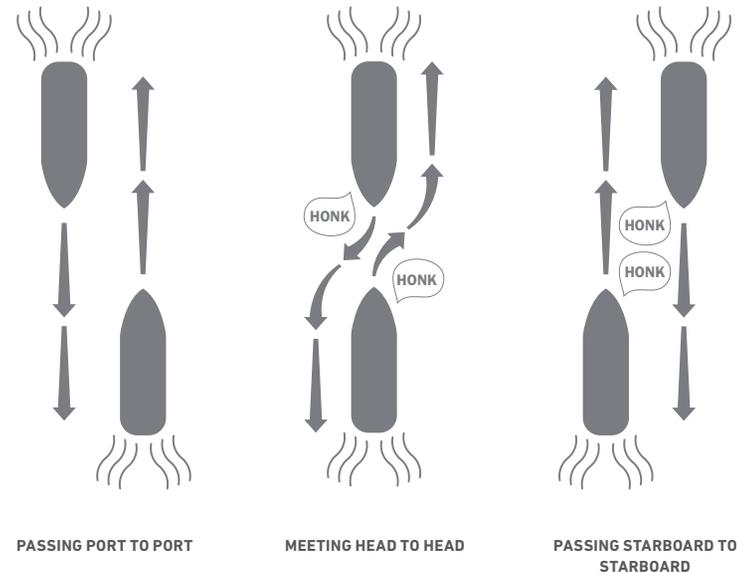
#### *Crossing*

In crossing situations, the boat to the right from the 12 o'clock to the 4 o'clock position has the right-of-way.

It must hold course and speed. The burdened boat keeps passes behind the privileged boat. Boats going up and down a river have the privilege over boats crossing the river.

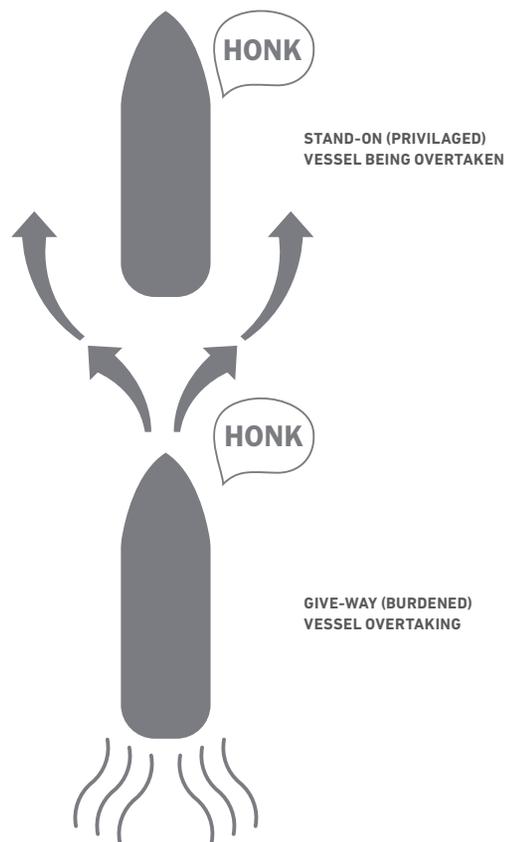
#### *Meeting Head-On*

Neither boat has the right of way in this situation. Both boats should decrease speed, turn to the right and pass port-to-port. However, if both boats are on the left side of the channel, each vessel should sound two short blasts and pass starboard-to-starboard.



**Overtaking**

The boat that is overtaking one ahead of it is the burdened boat and must make any adjustments necessary to keep out of the way of the privileged boat.



**The General Prudential Rule**

The General Prudential Rule regarding right of way, is that if a collision appears unavoidable, neither boat has right of way. As prescribed in the "Rules of the Road," both boats must act to avoid collision.

**Night Running**

Boats operating between sunset and sunrise (hours vary by state) must use navigational lights. Nighttime operation, especially during bad weather or fog can be dangerous. All "Rules of the Road" apply at night, but it is best to slow down and stay clear of all boats, regardless of who has right of way. Protect your night vision by avoiding bright lights and have a passenger, if possible, help keep watch for other boats, water hazards and aids to navigation.



**FEATURES**

# Features

## GENERAL LAYOUTS

The General Layout illustrations show two models to represent a V-drive and a direct drive. All of these components or accessories may not be included on your Tigé boat.



- 1
- 2
- 3
- 4-8
- 9-13



- 1
- 2
- 3
- 4-8
- 9-13

## DASH PANELS

The Dash Panel illustrations are used to help you identify the location of switches, controls, ports, gauges and V-drive indicator. Your boat may not be equipped with all of the features or options.

### TIGÉ LINE DASH

1. Steering Tilt Lever
2. 12-Volt Ports
3. Ignition Key Switch, iPod™/MP3 Port—Optional, Horn
4. Tigé Touch 2
5. Fuel Gauge
6. Tachometer
7. Speedometer
8. Oil Temperature/Pressure and Battery Gauge
9. Shifter/Throttle Control Handle
10. Safety Lockout Ring (Shift Lockout)
11. Neutral Throttle Button
12. TAPS Rocker Switch
13. Emergency Stop Switch

### TIGÉ CLEAR DASH

1. Steering Tilt Lever
2. 12-Volt Ports
3. Ignition Key Switch, iPod™/MP3 Port—Optional, Horn
4. Tigé CLEAR
5. Fuel Gauge
6. Tachometer
7. Speedometer
8. Oil Temperature/Pressure and Battery Gauge
9. Shifter/Throttle Control Handle
10. Safety Lockout Ring (Shift Lockout)
11. Neutral Throttle Button
12. TAPS Rocker Switch
13. Emergency Stop Switch

## SWITCHES, CONTROLS, PORTS, GAUGES AND INDICATORS

### Switches

The switches are fitted with LEDs, which will illuminate when power is being supplied to the corresponding switch and its function.

#### **BILGE (Bilge Pump)**

This switch operates the bilge pump to remove excess water from the bilge area of the boat manually. When the switch is pressed on, the bilge will turn on. When the bottom is pressed off, the bilge will turn off.

Your Tigé boat is equipped with an automatic bilge pump which detects excess water accumulation and will turn the bilge pump on automatically. The switch does not have to be on for the automatic system to work. This switch can also be used to test the bilge pump, by listening to hear that the pump is operating. It may not pump water unless water is present. Do not operate the bilge pump continuously when it is dry.

Inspect the bilge area frequently for evidence of excessive water. Continuous operation of the bilge pump can mean there is excess water in the bilge. Test the bilge pump at regular intervals. Debris can also prevent the pump from operating or make it operate continuously. Make sure no debris is blocking the bilge pump float. See your Tigé Dealer if you have any questions.

#### **BLOWER (Engine Compartment/Bilge Area Blower)**

This switch operates the engine compartment ventilation blower to remove explosive fumes from the area. When the blower switch is pressed on, the blower will turn on. When the blower switch is pressed off, then the blower will turn off. The blower must be operated for a minimum of four minutes before starting the engine. Also, the blower should be operated continuously when at idle or running at slow speeds.

### DANGER

**Gasoline vapors can explode resulting in serious injury or death.**

- Before starting engine, check the engine compartment for gasoline or gasoline vapors, then run blower for 4 minutes.
- Run blower below cruising speed.

#### **COURTESY (Courtesy Lights)**

This switch operates the courtesy lights. When the switch is pressed on, the lights will turn on. When the switch is pressed off, then the lights will turn off.

#### **DOCKING (Docking Lights)**

This switch operates the docking lights. The docking lights are to be used for docking only; **DO NOT** use them while cruising. When the switch is pressed on, the lights will turn on. When the switch is pressed off, the lights will turn off.

#### **NAV (Navigation Lights)**

This switch operates the navigation lights. When the switch is pressed on, the lights will turn on. When the switch is pressed off, then the lights will turn off.

### WARNING

#### **LOSS OF CONTROL AND UNSAFE BOAT HAZARD**

An emergency stop switch system that is not used or does not function properly can cause death or serious injury. **DO NOT** operate the boat if the emergency stop switch system does not function properly.

The emergency stop switch will stop the engine when the lanyard is pulled far enough to disconnect the clip from the switch. Attach the lanyard to the boat operator whenever the engine is running, but be aware of loss of engine power if the switch is activated.

If the operator is thrown from the seat, or moves too far from the dash, the lanyard will disconnect the clip from the switch, shutting off the engine.

To attach a lanyard, connect the clip to the emergency stop switch and the hook to a strong piece of clothing on the operator, such as a belt loop.

#### **IMPORTANT**

**The engine will not start unless the clip is attached to the emergency stop switch.**

The emergency stop switch can only be effective when it is in good working condition.

Observe the following:

- **DO NOT** remove or modify an emergency stop switch and/or its lanyard.
- Keep the lanyard free from obstructions that could interfere with its operation.

Check the emergency stop switch once a month for proper operation. With the engine running, pull lanyard to pull the clip from the switch. If the engine does not stop, see your Tigé Dealer for service immediately.

#### ***TOWER (Tower Lights)***

This switch operates the tower lights. When the switch is pressed on, the lights will turn on. When the switch is pressed off, then the lights will turn off.

#### ***Horn***

The "HORN" button is a momentary switch. The horn will operate when the button is pressed and stop when the button is released.

#### ***Ignition Key Switch***

This key switch starts and stops the engine. A built-in protection system prevents the engine from starting in any gear and only in NEUTRAL. Refer to Shifter/Throttle Control in this section and refer to the engine owner's manual for more information.

There is an accessory position on the ignition key switch. A terminal on the back of the switch is provided to control power to add-on accessories. Even though power to this terminal is protected by a 20-amp fuse, do not connect any accessory that draws more than 10 amps. Attaching an accessory to this terminal should only be done by a qualified technician.

### **NOTICE**

**DO NOT** connect an accessory drawing more than 10 amps to the key switch accessory terminal. A hazardous situation or damage to the electrical system can occur.

## CONTROLS

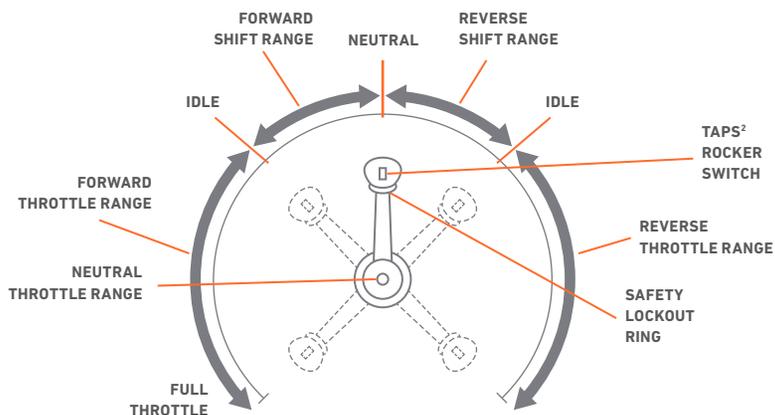
### **⚠ WARNING**

#### COLLISION HAZARD

An overspeeding engine, from loss of throttle control, can cause collision resulting in death or serious injury. Make sure all control systems are regularly inspected and properly maintained.

#### Shifter/Throttle Control

This single-lever control operates both the gearshift and throttle. The control can only be moved from the neutral position by lifting the safety ring under the throttle handle. Moving the control forward from the NEUTRAL position will advance the throttle FORWARD. Moving the control aft from the neutral position will advance the throttle REVERSE.



To “rev” the engine without engaging the transmission from NEUTRAL, push in the neutral throttle button and advance the throttle handle. To return to normal operation, return the throttle to the NEUTRAL position.

## IMPORTANT

The engine will only start in NEUTRAL. If engine does turn over and battery is charged, make sure the throttle handle is in NEUTRAL and try again.

### **⚠ CAUTION**

**DO NOT** shift too quickly from FORWARD to REVERSE. Stay in NEUTRAL or idle position until the boat has lost most of its headway before completing the shift to REVERSE, or engine/transmission damage can occur.

**Shifter/Throttle Control Handle:** Shifts from NEUTRAL to FORWARD or REVERSE and controls throttle position.

**Safety Lockout Ring (Shift Lockout):** Detent to prevent shifter from going into gear without driver action.

**Neutral Throttle Button:** Allows the throttle to be advanced without being engaged in gear.

**TAPS<sup>2</sup> Rocker Switch:** This controls the TAPS system. View the TAPS position by looking at the top and center of the Tigé Touch 2 screen. TAPS can also be controlled through the Tigé Touch 2 Screen.

### Smart Wheel Controls

The smart wheel allows you to control many functions on the touch screen without taking your hands off of the wheel.

On the smart wheel there are two buttons that save your favorite screen and action. In order to set these two favorites, touch the settings icon on the touch screen. In the settings menu you can set your favorite screen and favorite action from the list of options.

Refer to the steering wheel diagram for information regarding the function for each button.



### TAPS 3

This controls the Surf System. View the TAPS 3 position by looking at the SURF screen on the Tigé Touch 2 screen. TAPS 3 allows the rider to ride on either side of the wake by the flip of a switch. For more information refer to the Tigé Touch 2 Manual.

### SurfLink Remote

This remote allows the rider to transfer waves by pressing the center button. When pressed the TAPS 3 system will raise one plate and lower the other plate to allow the rider to transfer waves. The UP and DOWN arrows allow the rider to adjust the TAPS 3 plates in order to create a more steep or less steep wave.

### Tigé ZeroOff GPS Cruise Control Panel

This panel controls the Tigé ZeroOff GPS cruise control system.

### Steering Tilt Lever

The steering tilt lever allows you to adjust the angle of the steering wheel.

**DO NOT** adjust when the boat is underway.

### Stereo Remote—Optional

This remote control allows the stereo to be controlled at the cockpit. For details on operation, refer to the stereo owner's manual.

### Heater—Optional

This switch operates the fan to deliver heat to the cockpit and windshield. The vents have a diffuser which can be opened to allow more airflow toward the cockpit or closed to direct all the air to the windshield as a defogger. The diffuser also rotates to direct air to a desired direction.

## PORTS

### 12-Volt Ports—Throughout the boat

These receptacles can be used to power or charge cellular phones, MP3 players, video cameras or other electronics which can be powered or charged from a 12 V DC system.

### iPod™/MP3 Port—Optional

This port provides a convenient means to connect your iPod or MP3 player to your boat's stereo system.

## GAUGES



**FUEL GAUGE:** Indicates the approximate amount of fuel in the tank. The ignition switch must be in the RUN position to activate the gauge.

**SPEEDOMETER:** Indicates forward speed of the boat in miles per hour (MPH).

**ENGINE HOUR METER:** Keeps a running total of engine hours while engine is running. The hour meter is located on the compass page of our Tigé Touch 2 screen.

Make sure the key is in the OFF position when the engine is not running. Accessory equipment (stereos, showers, etc.) should not be installed to operate when the key is in the ON position.

## IMPORTANT

**The hour meter will log time whenever the engine is running.**

**TACHOMETER:** Indicates engine speed in crankshaft revolutions per minute, or RPM.

**DIGITAL DEPTH FINDER/AIR/WATER TEMPERATURE DISPLAY:** Water depth, air, and water temperature are located on the second page of your Tigé Touch 2 screen.

### Setting the ZeroOff GPS Cruise Control Display:

1. Turn the ignition key to the ON position.
2. On the Tigé Touch 2 screen select SWITCHING on the home screen.
3. Next select SYSTEM SETTINGS.
4. Then select USER SETTINGS.
5. Select Gauge Units and use the up and down arrows on the screen to change between US STD and METRIC.
6. When finished, press the Tigé Logo button on the bottom left of the screen to bring you back to the home screen.

**TAPS GAUGE:** Indicates the position of the TAPS plate located on the top of the Tigé Touch 2 home screen.

## NOTICE

**DO NOT** connect an accessory drawing more than the breaker's amperage capacity. A hazardous situation or damage to the electrical system can occur.

## FUSES

Fuses protect the circuit by limiting the amount of current which can flow. If a fuse should "blow," it usually indicates a problem. See your Tigé Dealer.

Use only an identical replacement when replacing the fuse.

## COCKPIT AND EXTERIOR

### *Battery Disconnect Switch*

The battery disconnect switch allows you to isolate all power to the boat. This switch provides positive disconnection of the battery to protect against tampering, electrical fire hazards and battery rundown. Rotate the switch to the OFF position when the boat is not in use.

### *Swim Platform*

## ⚠ DANGER

Exposure to carbon monoxide or a spinning propeller will cause death or serious injury. **DO NOT** use the swim/boarding platform for any other purpose than boarding the craft or preparation for entering the water, and **DO NOT** use the swim/boarding platform when the engine is running.

The swim platform is a convenient feature to enjoy water sports and provide a means of safety to boating. The swim platform is required for exiting and entering your boat and protects you from underwater components of your boat. The

swim platform cannot be removed on boats with AVX Surf System. There are very serious safety concerns regarding the use of the platform and safety labels are used to convey safety around the platform. For more information, refer to Section 2, BOATING SAFETY.

### *Bow Features of Your Tigé*

The open bow section of your boat may have cushions which can be raised to access storage. Storage areas are for storage only and should not be occupied by passengers. These areas do not provide adequate ventilation and can accumulate CO.

Store the cushion in the trunk or under the observer's seat when it is not in use or before getting underway.

The Lexan® Walk-thru Windscreen can be installed by sliding it into position and closing the windshield. Keep the windscreen in its protective boot and stow when it is not in use. The windscreen will not float.

### *Walk-thru Windshield Opening/Latching*

The two latches on the inside starboard side of the walk-thru windshield must be latched when the boat is underway or trailered. Rotate both of the window locks to secure or unlock the window.

## ⚠ CAUTION

Glass door must be closed and secured with both locks when the boat is underway.

### Cockpit Seating

#### **⚠ WARNING**

##### **DROWNING OR LOSS OF CONTROL HAZARD**

Ejection or sudden loss of control can cause death or serious injury from improper use of seating. **DO NOT** stand while driving above the engine idle speeds and make sure cockpit seat is in the locked/secured position and all passengers are seated when the boat is underway.

### Tige Line Glove Box

To open the glove box, push the button and pull the lid upward. To close the glove box, close the lid and then push the button back inward.

### EIDB Dual-Battery System—If Equipped

The EIDB dual-battery system protects your starting battery from discharging when high amperage accessories, like a high-output stereo system, are being used. The system allows the amperage to be drawn from the accessory battery only, without drawing from the starter battery. When the engine is restarted, both batteries will be charged, but will direct the charge to the weaker battery first.

### Batteries

The standard battery is a heavy duty, marine grade 12 V battery. This battery primarily serves as the cranking battery and can operate standard equipment. A cranking battery is not designed to fully discharge like a deep cycle battery which can be fully discharged more often. It is not recommended to fully discharge the cranking battery. Do not have the battery switch on Combine while operating the boat. The battery switch should only be on Combine in case of an emergency.

The EIDB Dual-Battery System includes a cranking battery and a deep cycle battery. A Deep Cycle Battery is designed specifically for providing constant power to high-output stereo systems for extended periods of time.

### Engine Compartment Cover

The engine compartment cover is a machinery guard and must be in place and closed whenever the engine is running. **DO NOT** operate your boat without the cover in place or closed unless you are performing a check or maintenance.

#### **⚠ WARNING**

##### **MOVING PARTS HAZARD**

Contact with moving parts can entangle, cut and cause death or serious injury. Never get close enough to make contact with any running machinery moving parts, i.e. engine or propeller. Contact can result in loss of body parts, strangulation, burns and/or severe loss of blood resulting in serious injury or death.

### V-Drive Models

#### **RZX2/RZX3**

To open the engine cover, first open both rear storage compartments by lifting the latch. Next pull the reversible seat out away from the back of the boat. Grab the handles located at the bottom corners of the engine hatch and pull up. A gas shock will help raise the cover. To close the cover, grab the two handles and pull the engine cover down. Push the reversible seat back in the locked position. Close the storage compartments. Keep hands, fingers or any other obstructions clear when closing.

#### **Z3/Z1/R21**

To open the engine cover, first open both rear storage compartments by lifting the latch. Next remove the walkthrough cushion. Lift up the engine cover and place it to the side safely. To close the cover, place the engine cover back on top of the engine. Replace the walkthrough cushion and close the storage compartments. Keep hands, fingers or any other obstructions clear when closing.

### **RZ2/RZR/R22/R20**

To open the engine cover, lift the latch. A gas shock will help raise the cover. To close the cover, pull down on and allow the cover to close firmly. Keep hands, fingers or any other obstructions clear when closing.

### **Observer's Seat**

Lift up on the bottom of the observer's seat to access storage under the glove box. Leave the seat up periodically to help keep the storage area dry.

### **Flip Up Observer's Seat—If Equipped**

There are two positions for this seat. To bring the seat up to its first position grab the handle and pull the seat up until you hear the pin lock into place. To bring the seat to a more upright position pull the locking pin out and continue to pull the seat up until you hear the pin lock in again. Make sure the pin has locked before sitting on the seat. To lower the seat back down pull the pin out and push the seat back down. Depending on what position the seat was in you might have to pull the pin out two times before the seat is back in the lowered position.

### **Reversible Seat—If Equipped**

To set up the reversible seat first grab the bottom center of the seat that will become the back rest and pull towards the center of the boat to release it from its locked position. Now that it is unlocked you can grab the other part of the seat and pull it towards the center of the boat until it locks into place. In order to lock the back rest into place flip it up towards the back of the boat until it will no longer go forward. Now push down both top corners of the back rest and while pushing down slowly pull it towards the front of the boat. This will lock the back rest into place.

To put the reversible seat back in the original position start by pushing the back rest of the seat towards the back of the boat. Once it is pushed back pull up to release it from the locked position and lower back towards the front of the boat. Now that the back rest is unlocked push the seat back towards the back of the boat to its original position. In order to lock the reversible seat lift the back rest part off the floor push it towards the back of the boat to lock the seat back into place.

### **Heated Seats—Optional**

The heated seats are located in the driver seat and the observer seat. To turn on the driver heated seat, locate the button near the shifter. Once it is pressed a red LED light will come on. To turn off the driver heated seat press the button a second time and the red LED light will turn off. To turn on the observer heated seat locate the other button in the glove box. Once it pressed a red LED light will come on. To turn off the observer heated seat press the button a second time and the red LED light will turn off. Another way to turn off the heated seats is by pressing the button that turns the Tigé Touch 2 screen on/off. If the button is pressed to turn off the screen, then the heated seats will turn off. If the screen is turned back on, you will need to press the heated seat buttons to turn them back on.

**NOTE:** The heated seats have a timer before they turn off on their own. After one hour the heated seats will turn off but the red LED lights around the buttons will remain lit. In order to continue to use the heated seats you must press the button so that the red LED light is off. Then press it again to turn the heated seats back on.

### **Storage Hatch**

To open the storage hatch, lift the latch and turn counterclockwise. A gas shock will help raise the hatch. To close and latch, push down on and allow the hatch to close firmly. Keep hands, fingers or any other obstructions clear of the hatch when closing.

### **Retractable Pylon — RZX2**

This pylon is extended by lifting the latch and pulling the pylon upward. To lock the pylon turn it counter clockwise until it stops. To put the pylon away, turn it clockwise and then push it back down.

## WATER SPORTS TOW PYLON SAFETY

### WARNING

**IMPROPER USE OF TOWER MAY OVERSTRESS THE TOWER, IMBALANCE THE BOAT OR ALLOW THE TOW ROPE TO CONTACT PASSENGERS POTENTIALLY CAUSING PERSONAL INJURY OR DEATH**

#### DO NOT

- Tow more than one (1) person at a time
- Tow parasails, kites, inflatable towables or other watercraft
- Allow passengers to sit behind rope attachment point when tower is in use
- Fold or remove tower without assistance
- Use the tower if bolts are loose or missing
- Use tower if tower shows any signs of stress

#### DO

- Before each use check to be certain all bolts are tight and in place
- Before each use check to be certain tower has no signs of stress
- Watch for low bridges and hanging obstacles
- Watch for electrical lines that may come in contact with the tower
- Make certain your vision and line of sight are unobstructed
- Ensure proper use of tower to avoid over stressing tower or unbalancing boat
- Make certain tow rope does not contact any passengers.

### WARNING

**CHECK TIGHTNESS OF FIXTURES, DO NOT EXCEED ONE (1) PERSON OR 300 LBS, USE CORRECT TOW ROPE**

**FAILURE CAN CAUSE SERIOUS INJURY OR DEATH, READ OWNER'S MANUAL.**

allow the tow rope to come into contact with passengers.

- **DO NOT** use the tow pylon for towing parasails, kites or other watercraft.
- **DO NOT** tow more than one person at a time or exceed a load of 300 lbs (136 kg).
- **DO NOT** allow passengers to sit behind the tow pylon when it is in use.
- Check that the tow pylon is secure before every use.

The tow pylon is designed for towing a wakeboard or a ski device only.

Misuse of the tow-point can cause death or serious injury. The pylon was designed for water sports only. **DO NOT** use the parasailing, kite flying, towing other watercraft and/or using pylon extensions. **DO NOT** sit behind (aft) the pylon when tow pylon is in use.

The water sports tow pylon is manufactured from high-strength aluminum alloy, engineered for durability. The tow pylon is rated to tow one person and not to exceed the weight of 300 lbs (136 kg). If the load limit is exceeded or becomes loose when towing, the tow pylon could separate from the boat. If the pylon separates from the boat and because of its mass, it could become a missile hazard and strike someone, causing death or serious injury.

Make sure the tow pylon is secured to the boat before each use and the tower is tight. Tow pylons can loosen over time, and must be inspected and tightened before every use. If the tow pylon is loose when towing, it could separate from the boat.

Although pylon extensions and barefoot booms have become popular additions to many tournament inboards, most boat manufacturers object and oppose the use of any pylon extension, whether up or to the side of any of their products. The use of pylon extensions can alter the handling characteristics of the boat, possibly resulting in dangerous instability, which can lead to loss of control or a situation which can cause death or serious injury to the boat driver, passengers, skiers and anyone else who might be in the vicinity.

Improper use of the tow pylon can overstress the pylon, imbalance the boat or

### Alpha E2 Tower

Before lowering the tower, make sure the bimini is moved to the upright position. This is done by pulling the pin on each side of the bimini mounting bracket to the tower. Push the bimini up 90 degrees and lock it back in place. The bimini should now be pointing straight up to the sky. Now that the bimini is in the correct position you may now proceed to lower the tower.

To lower this tower you use a switch that is located in the rear portside storage compartment. When lowering press the switch down and continue to hold the switch until the tower has stopped moving. Once the tower has stopped lowering you may release the switch. To raise the tower up, press the switch up and continue to hold the switch down until the tower connects back with the base of the tower. Once it connects you will hear a clicking sound, that is the tower telling you it has been connected and you can stop pressing the switch. Once the tower is raised, return the bimini to the original position by pulling the locking pins on each side of the bimini mounting bracket and laying the bimini forward. Make sure the pins are locked once the bimini has reached this position.

This switch will only operate if the key next to the tower switch is put in and turned to the ON position. If the key is not in the tower switch will not work. Make sure the key to the tower switch is stored away and not left in when not lowering or raising the tower.

If the switch is not working first check to see if the circuit breaker has been engaged. This would be a black pin sticking out between the switch and the key, if it is out press it back in. If the switch is still not operating you will have to manually lower the tower. In order to do so you will need two 6mm allen wrenches and one other person. At the rear base of the tower there is a small piece of chrome, you must remove this in order to have access to the actuator. Use the allen wrench to remove the small screw that covers the access to the actuator. Once removed you and the other person must turn both actuators using the allen wrenches simultaneously until the tower is in the lowered position.

When lowering or raising the tower make sure no persons are in the boat. Keep all hands, fingers, and other objects away from the base of the tower when lowering and raising to avoid serious injury to oneself or the tower. Do not apply extra weight or hang from the tower when lowering or raising.

## WARNING

### DO

- Before each use check to be certain all bolts are tight and in place.
- Before each use check to be certain tower has no signs of stress.
- Watch for low bridges and hanging obstacles.
- Watch for electrical lines that may come in contact with the tower.
- Make certain your vision and line of sight are unobstructed.
- Ensure proper use of tower to avoid over-stressing tower or unbalancing boat.
- Make sure tow rope does not contact any passengers.

### DO NOT

- Tow more than one (1) person at a time.
- Tow parasails, kites, inflatable towables or other watercraft.
- Jump from, dive off, climb on, ride, hang onto or sit on tower at any time.
- Allow passengers to sit behind rope attachment point when tower is in use.
- Use tower if bolts are loose or missing.
- Use tower if tower show any signs of stress.

### **Alpha M2 Tower**

To attach the bimini to this tower, place the end of the middle, medium length support in the top corner bimini receiving hardware on each side of the tower. Lock the supports in place by rotating the lock pins on the receiving hardware 180 degrees. Next, attach the short supports to the rear receiving hardware on the tower and lock the supports. This is the storage position. When ready to use, flip the bimini over the tower from the back of the boat towards the front and attach the long supports to the front receiving hardware on the tower.

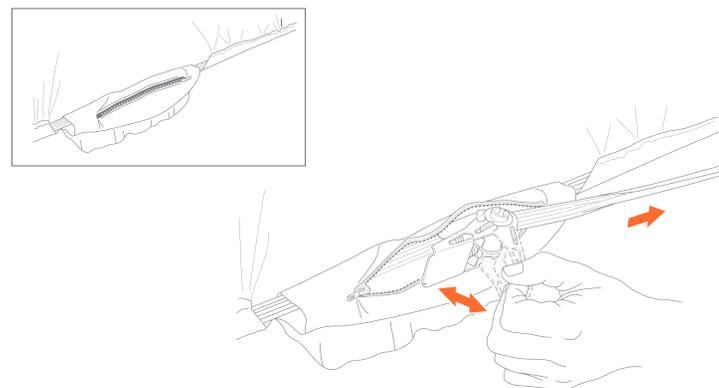
Before lowering the tower it is recommended that the bimini be removed. This tower should be lowered by two people, one to unlock the tower and one to support the tower. To unlock the tower push in the lock on the rear base of the tower. Rotate the lock counter clockwise and pull outward while rotating. Make sure the lock is fully disengaged once it has been rotated 180 degrees. Do the same thing to the other side of the tower. Once both sides are unlocked the tower will naturally collapse forward. The second person should support the tower at the center of the top and lower it slowly until it rests in place. To raise the tower, grab the center of the top of the tower and push it back into the upright position. One person should support the tower while the other secures the locks back into place. To secure the lock, rotate it clockwise 180 degrees then push it inward. Do the same thing to the other side to secure the tower.

### **Back Up Camera—If Equipped**

This camera allows the driver to see a rider in the water without having to turn around and look back at them. The camera video will be seen on the Tigé Touch 2 screen. To access the camera feed select VIDEO on the home screen. This will bring you to the camera feed. If there is no video, try selecting the other input located on the left side of the screen. To leave the video screen press the bottom left button to bring you back to the home screen.

### **Pull-out Cleats**

The pull-out cleats allow the cleats to be stowed into the boat's exterior when they are not in use. Pull the cleats out when they are to be used and return them when they are not in use. **DO NOT** use the cleats for towing or tying as an anchoring point.



### **Lockdown Boat Cover—If Equipped**

The lockdown boat cover is designed to protect your boat during trailering and short-term storage.

Start by installing the cover from the stern of the boat and unfold the cover as you move it fore. The cover has a label "REAR" to identify the stern end of the cover.

After the cover is installed, use the clamp strap to draw the cover snug around the boat, below the rub rail. Pull the excess strap aft, and winch the clamp to draw the cover. Lock the clamp. Position any excess strap into the protective boot and zip closed to protect the clamp from possibly making contact with your boat.

Boat Cover warranty is covered by OEM manufacturer.

**Cover Over Tower—If Equipped**

When putting the cover over the tower follow these steps:

- Before lowering the tower open the windshield center hatch
- Locate the locking pin on the bimini brackets and release them in order to push the bimini straight up in the air, then reengage the locking pins
- Lower the tower using red key and the switch located in the rear port side storage hatch
- Make sure board racks are rotated inside the boat
- Once tower is lowered all the way down use the bimini support port
- The bimini support pole should be placed in the walkthrough, use the velcro strap to secure the bimini to the pole
- Now that the tower is down and the bimini is supported the cover can now be put on
- Cover the boat by starting at the bow
- Use the other support pole in the center of the boat and attach the support strap to the top of the tower
- Use the ratchets on the cover located at the rear of the boat to tighten the cover





**TOUCH SCREENS**

## Tigé Clear

### PRODUCT INFORMATION

For the many things you do, we have Tigé CLEAR — the ultimate driving and riding companion. As the touch screen innovator, we held nothing back for the Tigé CLEAR. The sleek, intuitive interface is as easy to use as it is advanced, loaded with features never before seen in a boat. Enclosed in a watertight housing, Tigé CLEAR features a smart, next-gen, high-definition 10-inch anti-glare touchscreen and a 1000:1 contrast ratio. Every onboard system and frequently used function, from audio and depth to Speed Set controls, will be right at your fingertips.

Tigé CLEAR is available on the 2018 RZX3, RZX2, Z3, Z1, RZ2 and RZR.

**We continually strive to bring you the highest quality, full-featured products. As a result, you may find that your actual display screens may be slightly different than what is represented in this manual at the time of printing.**



## CARE AND MAINTENANCE

General maintenance is not required; however, a soft cloth can be used for cleaning the unit. Window cleaner or alcohol can also be used to clean the glass portion of the display. Do not use harsh or abrasive cleaners on the unit.

## BASIC NAVIGATION FUNCTIONS

All product features are easily accessed through the touch screen.

### First Page: Main/Home Screens

This screen contains the following controls:

- Ballast settings
- Rider Presets
- Zero Off GPS Speed Control® (Cruise)
- Audio
- Video
- Maps/GPS
- Configurable Settings
- TAPS Surf System
- Switches
- Lights
- Vessel Diagnostics
- Quick Sets
- Ballast setting screens
- Settings
- Volume

At any time, you may return to the Home screen. Simply press the Cruise button in the lower left corner.



### **ZeroOff GPS Cruise Control**

Zero Off allows precise, easy-to-use digital speed control that is useful for maintaining a constant cruising speed. Touch the Zero Off GPS Speed Control button, or th button in the lower left corner to turn on/off.

Closed-loop speed feedback is based on signals received from the worldwide GPS satellite system. For this reason, there is no need for maintenance-intensive and unreliable pitot tubes or paddle wheels to provide a speed measurement. As long as the GPS antenna can see the sky, Zero Off is good to go with speeds controlled to within 0.1 mph at all times... no calibration or set-up procedures required. Using GPS also allows Zero Off to take advantage of position information provided by the satellite signals. Zero Off can use this GPS data and the accelerometer to identify a boat's location on the surface of the earth with sufficient accuracy to map and memorize courses for sports such as slalom and jump competitions.

### **Quick Sets**

The Tigé CLEAR is shipped from the factory with four preset settings for Surf, Wake, Ski and Cruise. Touch the Quick Sets button to choose between the preset settings. Once a Quick Set is chosen, the Set Speed will be changed to match.



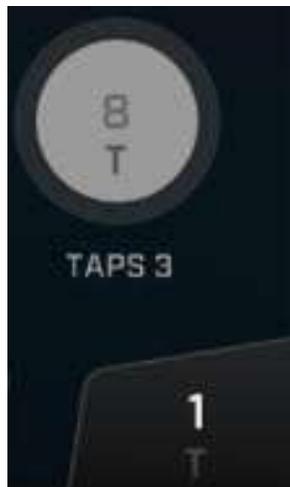
**Auto TAPS**

The optimum TAPS setting will vary depending on passenger load, line length, water conditions, etc.

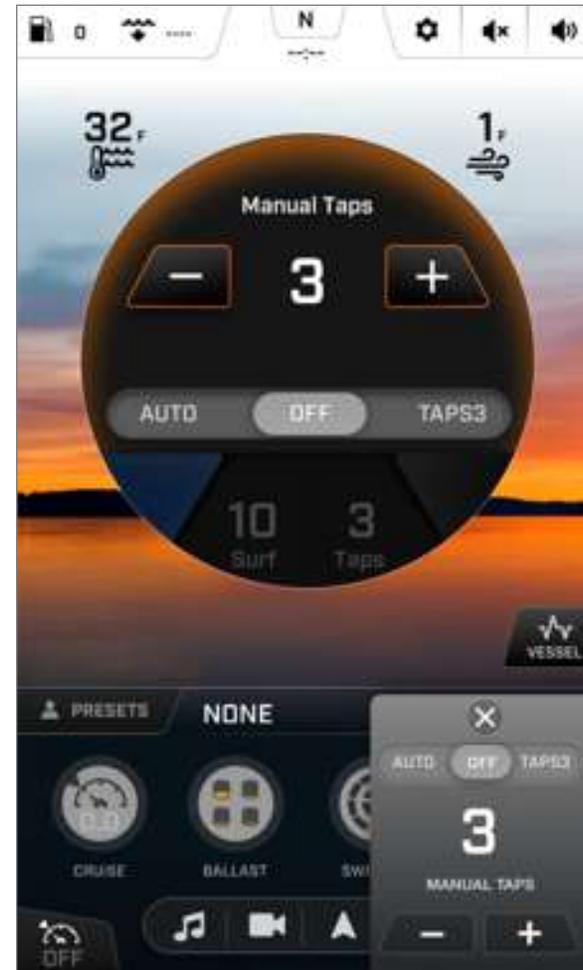
The Auto TAPS feature can be engaged by touching the lower right-hand corner or the TAPS 3 button (both shown at left).

When the cruise control is enabled, Taps will begin in position 1 in order to assist the boat in planing. Once the boat gets on plane, the Auto Taps will engage to the setting selected.

A manual adjustment of TAPS can be accomplished via a switch located on the side of the throttle arm, easily accessible with your thumb or via the controls (shown below). This screen shows both TAPS 3 controls displayed at the same time.



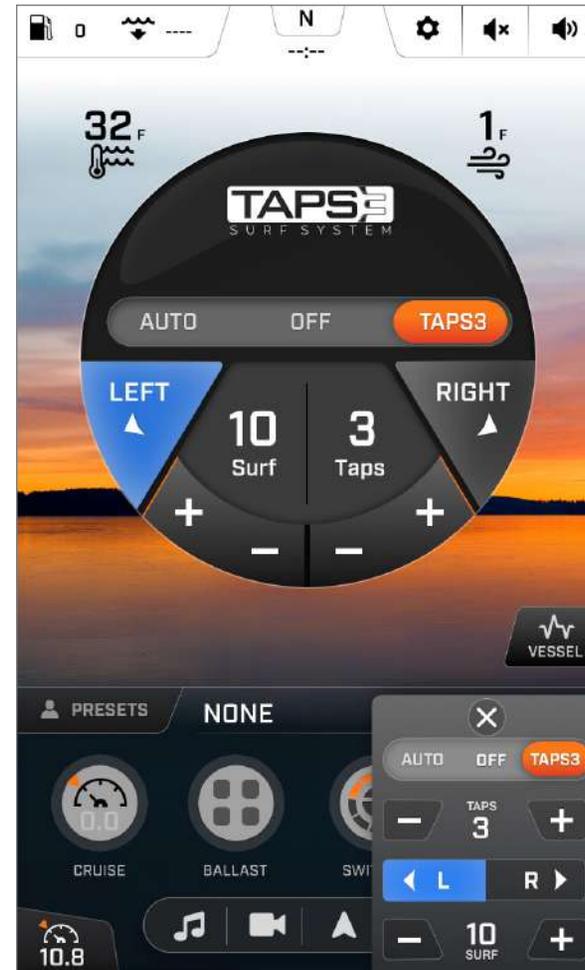
Both the large (shown in the middle of the screen) and small (shown below) TAPS 3 controls can be adjusted by touching the – and + buttons, and by choosing Auto or TAPS 3.



**Auto TAPS (continued)**

By choosing TAPS 3, the display will look like the screen on the right.

Choose Left or Right to designate the side being surfed, then adjust the surf and Taps settings with the + and - buttons.



**Vessel Information**



When the Vessel button is touched, the above screen will expand to display engine temperature and oil pressure. Touch the Battery portion of the display and the volts information will display as follows:



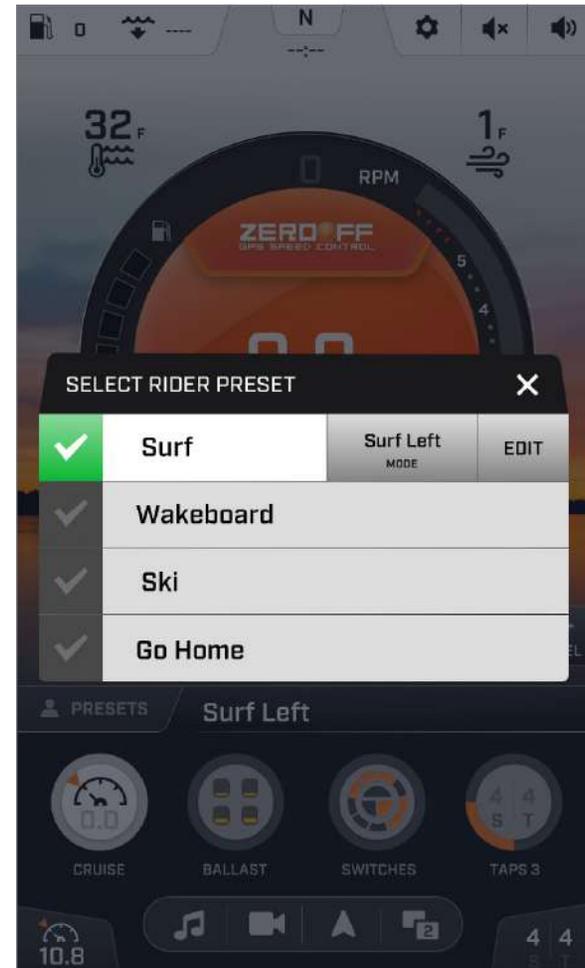
Touch the Engine Hours portion of the display and the accumulated engine hours will display as follows:



Touch Vessel to hide this information.

**Rider Presets**

There are four preset rider profiles (shown right) that come standard with the Tigé Clear: Surf, Wakeboard, Ski and Go Home.

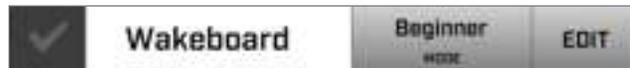
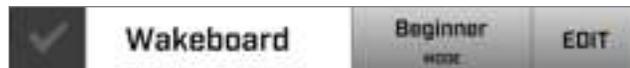


**Rider Presets (continued)**

Surf provides the ability to choose Surf Left or Surf Right:



Both Wakeboard and Ski provide the ability to choose Beginner, Intermediate or Pro:



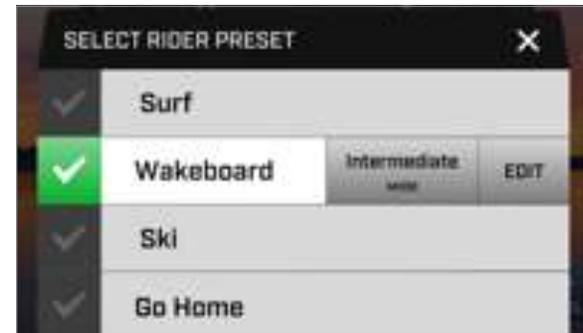
Go Home simply provides the ability to edit its settings.



Choose the desired skill level, and then if the settings need adjusting, touch Edit. Each Edit screen will appear similar to the the screen seen in the top right.



Adjust each setting with the – and + keys and touch Done when the changes are complete. Touch Reset to bring the settings back to 0. To select and activate a profile, touch the check mark beside the name and it will appear as seen in the bottom right.



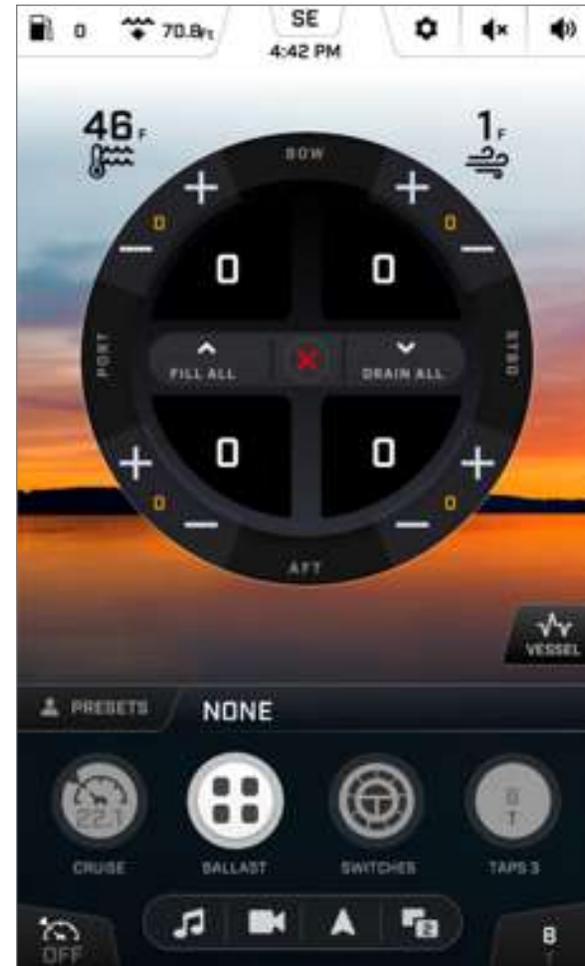
Touch X to close this screen, and the activated profile will display on the home screen.



**Ballast**

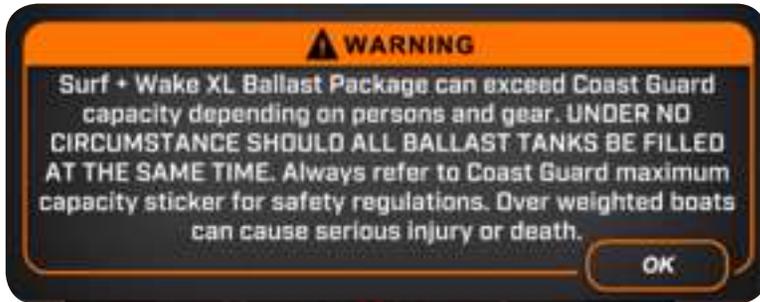
Touch the Ballast icon (second from the left on the bottom) and the screen shown to the left will appear.

The four Ballast tanks can be filled or emptied individually by using the + and - keys, or by choosing Fill All or Drain All.



**Ballast (continued)**

When filling the Ballast tanks, the following warning will appear. Touch OK to continue.



FILLING ALL



DRAINING ALL

**Switches**

The Switches icon will cause this screen to appear which displays the controls for both the lights and switches on the craft. Touch each component to turn on or off. The Courtesy light can be adjusted with the – and + buttons for intensity.

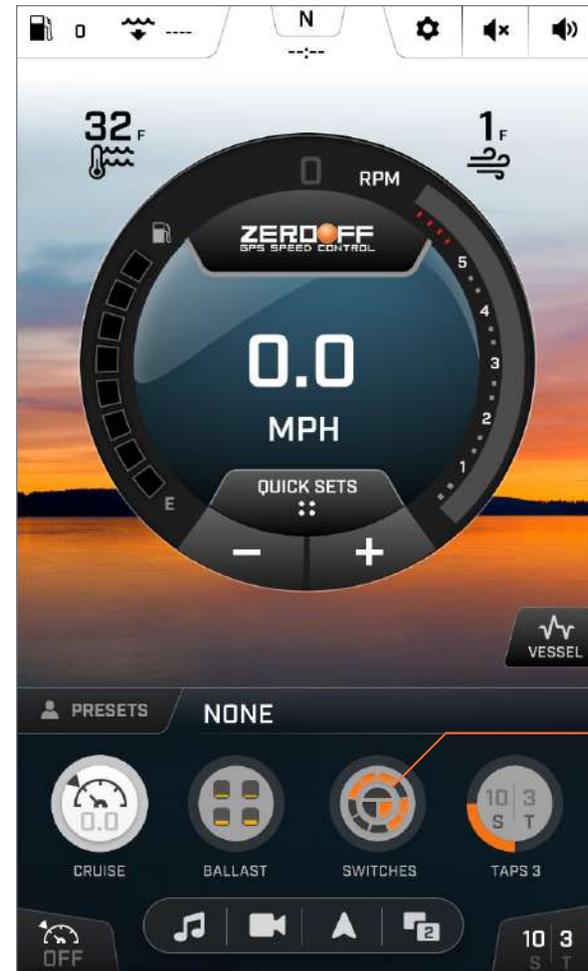


SWITCHES OFF



SWITCHES ON

The icon at the bottom of the home page will mimic what is turned on or off:



SWITCHES/LIGHTS  
VISUAL INDICATION OF  
ON/OFF

## AUDIO

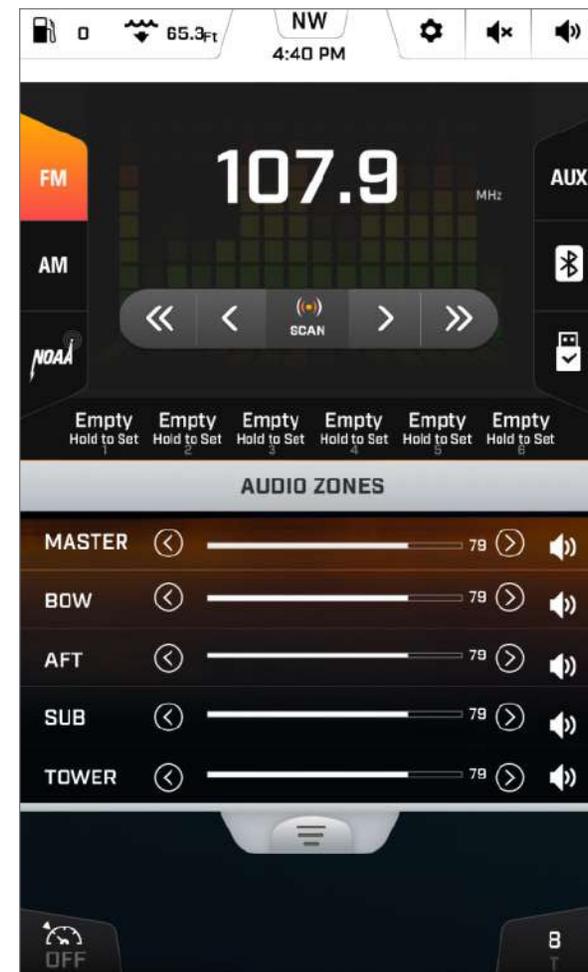
The audio system included with the Tigé Clear provides access to the FM, AM and Weather bands.

The Weather band has seven channels to access weather information.

The FM and AM bands each provide six slots to save a favorite channel.

Access channels by touching Scan or utilizing the left and right arrow keys.

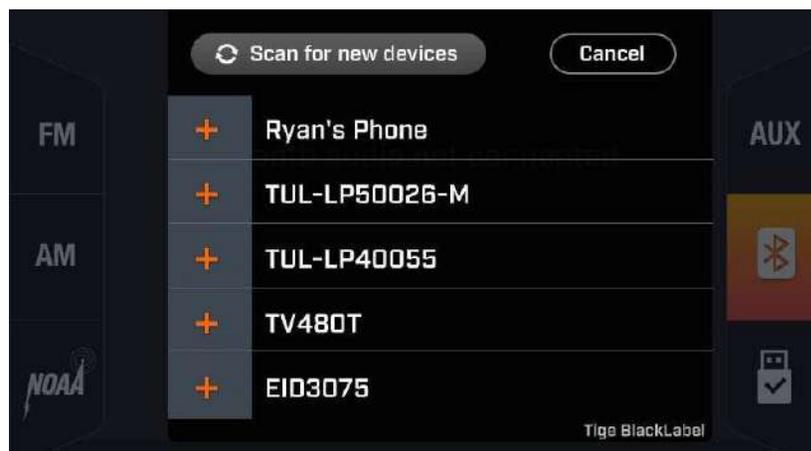
An Auxiliary plug-in is provided to access media on non-Bluetooth compatible devices or when a longer battery life is desired.



### Bluetooth Compatibility

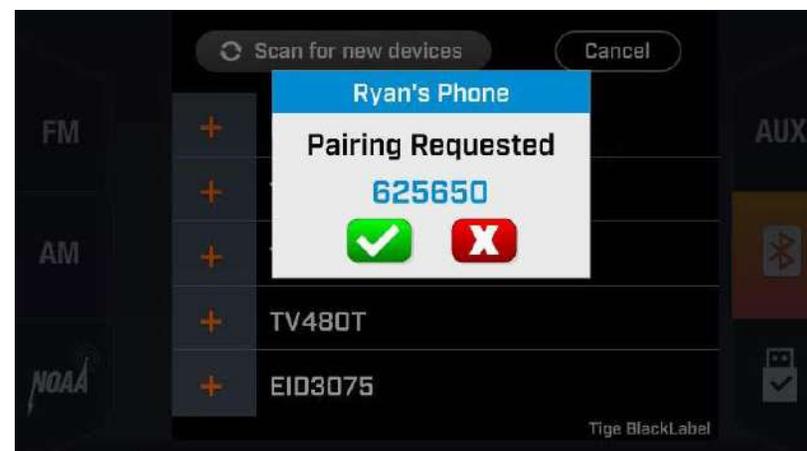
The audio system is Bluetooth compatible. To connect Bluetooth, follow these steps:

1. Touch the  on the upper middle right side of the display.
2. Select the Bluetooth  on the bottom left. A Bluetooth is Activating Please Wait message will appear followed by this screen:



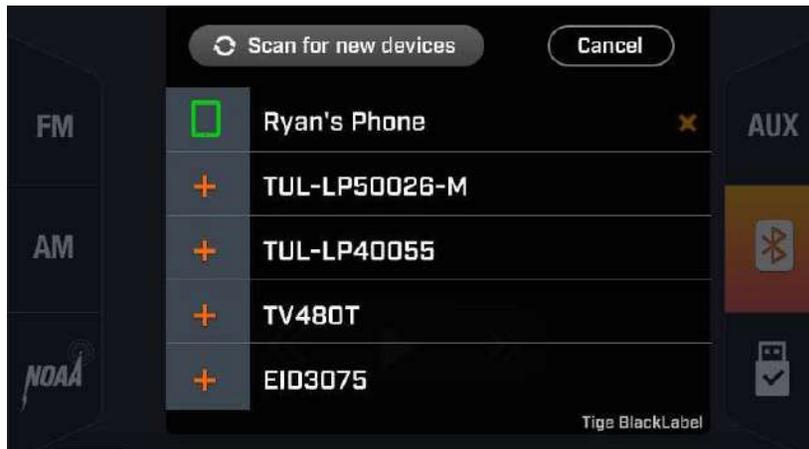
3. Touch Scan for new devices.
4. Ensure Bluetooth is enabled and set to scan on your device.
5. Select your personal device from the list of available devices shown in the list.

6. A Pairing Requested screen will appear on both the Tigé Clear and your personal device. Touch the green check mark to approve or the red X to cancel, and acknowledge the pairing request on your personal device.

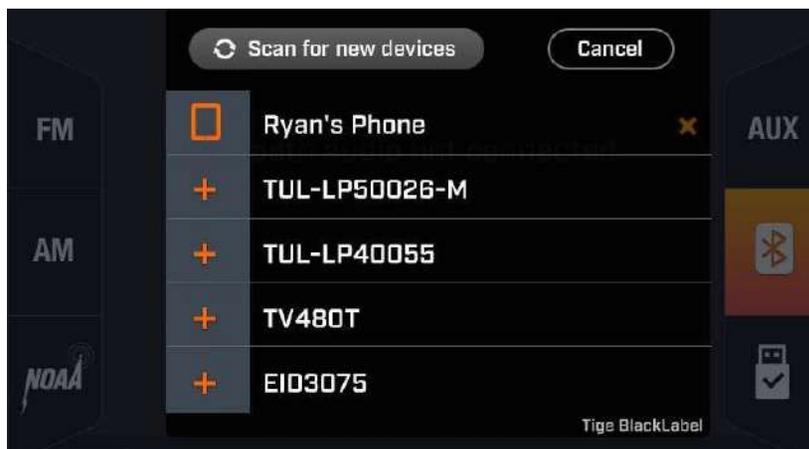


**Bluetooth Compatibility (continued)**

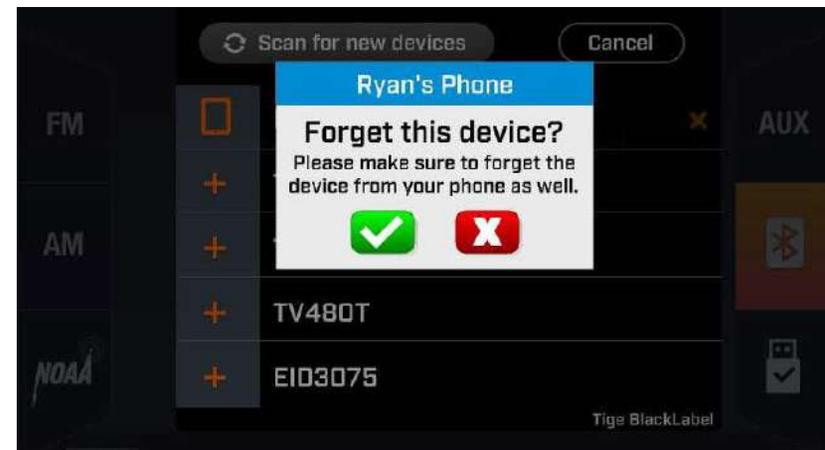
7. Once paired, you will be able to listen to playback music from your device. The green square beside the device name shown below denotes that the pairing was successful.



If your personal device becomes paired but not connected, the square beside the device name will become orange:



To remove the device name from the list, touch the X beside the name, and the following screen will appear:



Touch the red X to forget your personal device on the Tigé Clear. Ensure the Tigé Clear is forgotten on your personal device as well.

Tigé also provides a way for an iPod or other device to be attached via USB. Plug in the device to the USB port and touch

The following controls assist in navigating the iPod's contents:



**Volume**

The volume controls appear in two places. At the top of the screen are these symbols:

Touch this symbol and adjust the volume by the up and down arrows.



Touch this symbol to mute and unmute the stereo's volume.



At the bottom of the audio portion of the screen is this tab:



Touch the tab and it will expand to show the following Audio Zones:



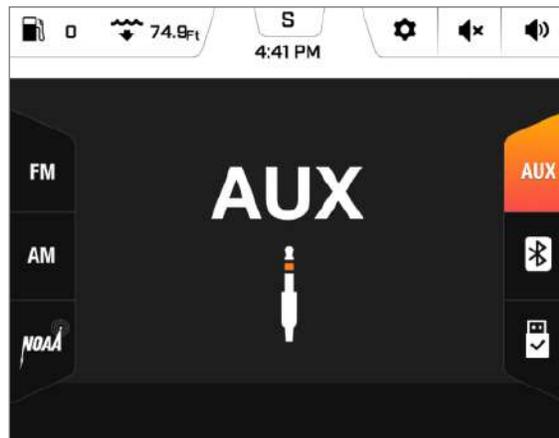
For each zone, adjust the volume via the < and > arrows. Touch the volume symbol on the right to mute that zone (the Sub zone shown above is muted). Touch the tab again to hide this screen.

### Auxiliary

An Auxiliary plug-in is provided to access media on non-Bluetooth compatible devices or when a longer battery life is desired.

Touch **AUX** and the following screen will appear:

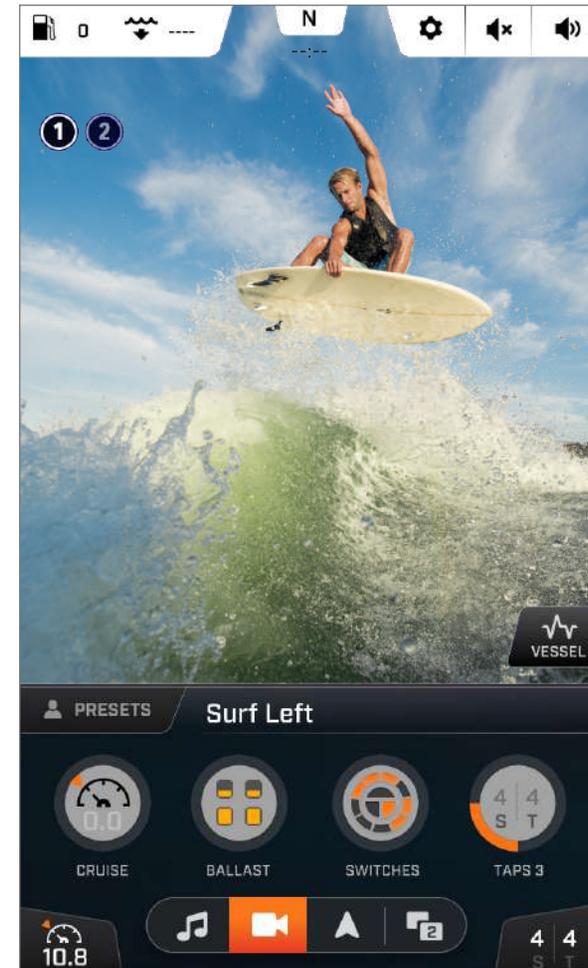
The device's controls will appear on the screen for help in navigating the contents.



### VIDEO

The Tigé Clear provides a method for the driver to keep all eyes on the waterway ahead and on the action behind the boat. Touch the Video button and the video feed from the rear of the boat will appear.

Note: If the boat model is configured with two cameras, there will be a selection at the top of the screen to choose between Camera 1 and Camera 2



## MAPS

This screen provides a method by which maps can be zoomed in or out by the + and – buttons.

Touch the  button to alternate between North Up and Course Up. It also centers or resets the bullseye.

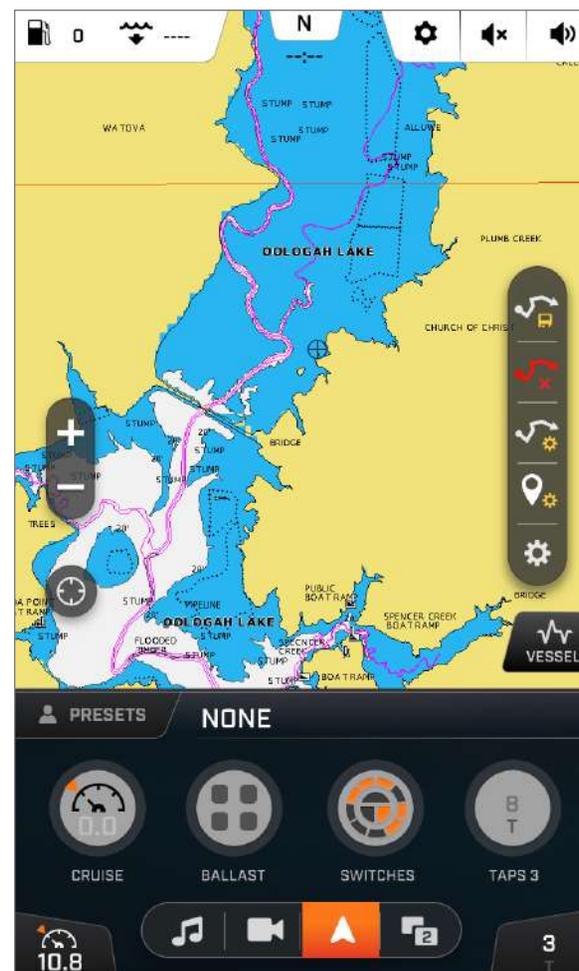
 displays a keyboard to name and save the current track being traveled.

 displays an option to clear the current track.

 displays all saved tracks in the Track Manager. Select a track and use the list options to show/hide, edit or delete each track.

 displays the options to touch and turn on (green circle) or off (red circle) the following selections:

- Grid
- Text
- Waypoints
- Tracks
- Navigational Aids



### DUAL SELECTION SCREEN

 This icon will cause the screen to split in half to display configurable selections:

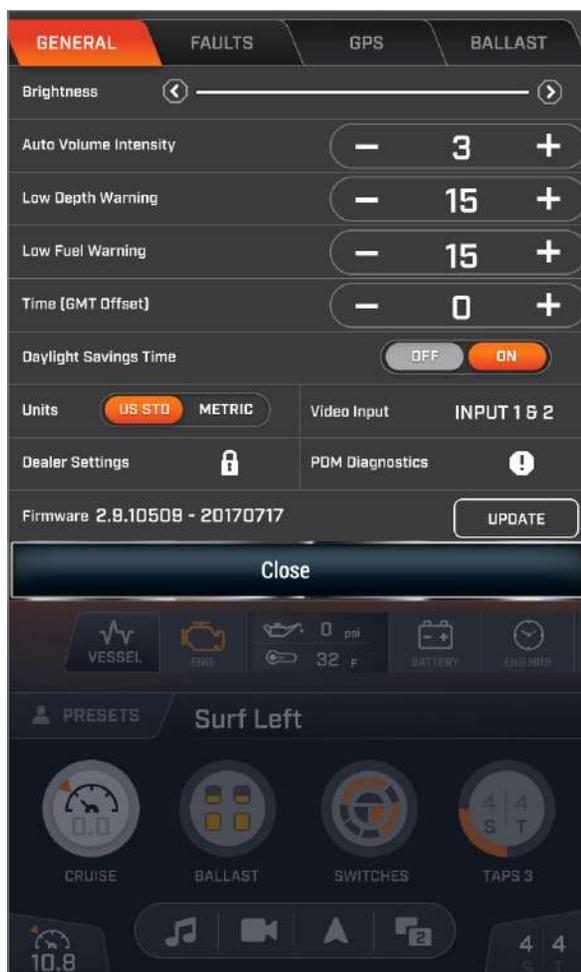


Touch the ellipsis (...) at the top to see the alternate choices available. Touch your desired choice for each side



## GENERAL SETTINGS

⚙️ Touch the General Settings button at the top of the screen and this will appear.



The General tab contains settings for the following controls:

Component	Description
Brightness	Touch the left and right arrows to adjust the screen brightness.
Auto Volume Intensity	Touch the + or – buttons to adjust the intensity of the automatic volume that will compensate for situations that would normally overcome the regular volume (i.e., wind noise).
Low Depth Warning	Touch the + or – buttons to set the minimum water depth at which a warning will display.
Low Fuel Warning	Touch the + or – buttons to set the minimum fuel level at which a warning will display.
Time (GMT Offset)	Touch the + or – buttons to set the GMT Offset hours.
Daylight Saving Time	Slide the switch to On or Off.
Units	Slide the switch to US Std or Metric.
Video Input	Touch the screen to cycle through Input 1, Input 2 or Input 1 and 2.
Dealer Settings	Restricted area for Dealers only.
PDM Diagnostics	See the next section.
Firmware	Displays the current firmware version, and is used to update the display's firmware via a USB drive.

**PDM Diagnostics**

This area provides a way of troubleshooting the various lights and switches on the boat. If a selection has a green light, that system is working properly; a yellow light signifies an overcurrent; a red light signifies a short circuit exists and needs to be properly checked out.



**FAULTS**

When this screen is opened, the display will query the engine's ECU and provide feedback on any diagnostic codes that have been activated and stored in the ECU for service needs.



The following is a list of field definitions on Engine Diagnostics:

Field/Button	Description
SPN	<b>Suspect Parameter Number - fault code</b> If not translated into text by the display, see the engine manufacturer's literature for the definition of the SPN number.
FMI	<b>Failure Mode Indicator - fault code</b> The FMI is defined by SAE J1939. If not translated into text, see the SAE standard or the engine manufacturer's literature.
Description Field	Most common SPNs and FMIs have text for the description stored in the display. If there is no text, then this SPN and FMI must be defined by referring to the engine manufacturer or the SAE J1939 standard.
Request	Selecting the Request button queries the Engine Control Unit (ECU) for feedback on diagnostic codes that have been activated and stored in the ECU for service needs.
Acknowledge (if present)	Acknowledging a fault will place it in the Stored Faults location to be cleared at a later time.

## GPS

This screen shows the discoverable satellites available for GPS tracking.



## BALLAST FILL AND DRAIN TIMES

This screen controls the length of time it takes to fill and drain the ballasts.

Touch the + or - buttons to adjust the time for each of the four ballasts in the boat.



## TROUBLESHOOTING

### General Troubleshooting Guide

#### Display appears not to work or doesn't come On.

1. Display could be in sleep mode. Touch a key on the keypad to activate the display.
2. Check for loose connections at battery and display unit.
3. Check for reversed polarity on the power connections.
4. Verify battery has a minimum voltage of 6 volts.

#### Display resets or goes OFF when starting engine.

1. Check display supply wires are connected properly to battery.
2. Verify battery is charged properly.
3. Check battery for efficient starter current.

#### Display has no backlight.

1. Contact your Tigé service center.

#### Display has no keypad backlight.

1. Contact your Tigé service center.

## Tigé Touch2

### PRODUCT INFORMATION

For the many things you do, we have Tigé Touch2—the ultimate driving and riding companion. As the touch screen innovator, we held nothing back for the second generation of Tigé Touch. The sleek, intuitive interface is as easy to use as it is advanced, loaded with features never before seen in a boat. Enclosed in a watertight housing, Tigé Touch2 features a smart, next-gen, high-definition wide screen with 7" anti-glare touchscreen and a 1000:1 contrast ratio. Every onboard system and frequently used function, from audio and depth to SpeedSet controls, will be right at your fingertips.

Tigé Touch2 is standard on the 2018 R23, R22, R21, and R20.

**We continually strive to bring you the highest quality, full-featured products. As a result, you may find that your actual display screens may be slightly different than what is represented in this manual at the time of printing.**



## CARE AND MAINTENANCE

General maintenance is not required; however, a soft cloth can be used for cleaning the unit. Window cleaner or alcohol can also be used to clean the glass portion of the display. Do not use harsh or abrasive cleaners on the unit.

### Basic Navigation Functions

All product features are easily accessed through the touch screen.

### Quick Access Keys

A new screen can be accessed quickly by pressing one of the following Quick Access Keys:

1. Increase Speed
2. Active Profile/ZeroOff On/Off Screen
3. Decrease Speed
4. Home Screen
5. Volume UP
6. Mute/Unmute
7. Volume DOWN
8. Favorites



### Touch Point Commands

#### Main/Home Screens

This screen contains the controls for switching to the previous and next screens (can be swiped or touched), along with portals into the:

- Audio
- Favorites
- Maps
- Video
- Lights
- ZeroOff GPS Cruise Control
- Ballast Setting Screens
- Surf Settings (enabled by Dealer)
- Heater, Bilge, Blower and System Settings



Four customizable buttons default to Air Temp, Water Temp, Engine Temp and Oil Pressure. To customize these buttons, press and hold the **position to be changed**, then select from the **pop-up screen**.

At any time, you may return to the Home screen. Simply press the **Tigé logo Home Screen** quick access key button on the lower left corner.

The ZeroOff GPS Speed Control and Auto TAPS may be turned On/Off from the Main/Home screen.



### **ZeroOff GPS Cruise Control**

ZeroOff allows precise, easy-to-use digital speed control that is useful for maintaining a constant cruising speed.

Closed-loop speed feedback is based on signals received from the worldwide GPS satellite system. For this reason, there is no need for maintenance-intensive and unreliable pitot tubes or paddle wheels to provide a speed measurement. As long as the GPS antenna can see the sky, the ZeroOff is good to go with speeds controlled to within 0.1 mph at all times... no calibration or set-up procedures required. Using GPS also allows ZeroOff to take advantage of position information provided by the satellite signals. ZeroOff can use this GPS data and the Accelerometer to identify a boat's location on the surface of the earth with sufficient accuracy to map and memorize courses for sports such as slalom and jump competitions.

### **Auto TAPS**

The optimum TAPS setting will vary depending on passenger load, line length, water conditions, etc.

The Auto TAPS feature can be engaged by using the Throttle switch or the Profiles. When set, the box around the TAPS position is orange. When the cruise control is enabled, TAPS will begin in position 1 in order to assist the boat in planing. Once the boat gets on plane, the Auto TAPS will engage to the setting selected.

A manual adjustment of TAPS can be accomplished via a switch located on the side of the throttle arm, easily accessible with your thumb.

### Built-In Compass

Touch the **left arrow** on the screen to view the directional compass. This screen provides you with access to ZeroOff, TAPS settings, four customizable buttons, oil pressure, coolant, engine rpm, battery amperage and quick touch command buttons.



### Water Depth & Temperature

Touch the **right arrow** on the screen to view the water depth plus the air/water temperature, access to ZeroOff, TAPS setting, four customizable buttons and the quick touch point command buttons.



### Ice Audio Screen

The ICE Audio system is Bluetooth compatible. To connect Bluetooth, follow these steps:

1. Touch the **menu** button on the left side of the screen. The screen to the right will appear
2. Select **Bluetooth**, then **Pair**.
3. On your phone make sure Bluetooth is enabled and set to scan.
4. Select the **Tigé Touch** unit from the list of available devices.
5. Enter password (0000) if requested.
6. Upon pairing, you should be able to listen to playback music from your device.

This screen provides you with ZeroOff, TAPS setting and two customizable buttons at the top and provides all the controls of the stereo at your fingertips. Each of the touch points are described below:

**Scan:** Searches through the available radio frequencies until a strong signal is detected. The radio will stop on that frequency.

**FM/AM/WB:** Changes between FM, AM and Weather bands.

**Freq:** Allows the tuning of the radio by frequency.

**Preset:** Allows the tuning of the radio by preset stations.

**Scan/Tune:** Allows the fine tuning of the frequency, the selection of the last song/next song or rewind/fast forward of the existing recorded song.

**Empty/Hold to Set:** Allows the saving of a favorite station. Hold down the button while the desired station is tuned in, and it will be stored in that spot.

**Favorites List:** Alternates between list A and list B; provides up to 12 slots for saved stations.



**Ice Audio Screen, continued**

**Volume:** Adjusts the volume with the **up** and **down** arrows.

**Main Menu:** Displays the main menu. Choices are FM Radio, AM Radio, iPod/USB, Bluetooth, Weather Band and Auxiliary.

**Master Volume:** Displays the Master Volume Control. Choices are Master, Bow, Aft, Sub and Tower.



### Tigé You—Rider Profiles

Not available when Surf is ON.

Preset from the factory, we have provided Surf Left, Surf Right, Ski and Wakeboard settings. These are set to optimum settings in a typical scenario. You may need to adjust these settings based on your style of wake, the weight used in the boat and lake conditions. You may store up to 20 rider profiles in the Tigé Touch.



### Add New Profile

To add a new profile, click on **Edit**, then the **pencil icon** and type in the Profile name. Select a **field** and adjust the ballast settings by using the + and – buttons. Click **Save**.



### Maps/Chart Plotting

**Waypoint Manager:** Saves, displays, edits and deletes saved waypoints.

**Waypoint Name:** Displays a keyboard to type the waypoint name.

**Clear Track:** Clears the currently recording track and restarts the track recording from the current position of the boat.

**Save Track:** Saves the currently recording track.

**North Up:** Shows the top of the map as North.

**Course Up:** Shows the current course on the map regardless of direction.

**Map Navigational Tools:** Allows the panning of the map via the chosen icon.



**Video**

The Video channels allow boat drivers to watch riders without diverting their eyes from the safe operation of the boat. Switch between two video channels by touching **Video Input 1** or **Video Input 2**. To return to the Main/Home screen, touch the **Home** button.



### Lights

This screen allows the control of the following lights:

- Navigation
- Anchor
- Speaker LEDs
- Tower/Docking Lights
- Courtesy, with dimmer
- Mood
- Underwater
- Day/Night screen setting with dimmer



### ZeroOff GPS Cruise Control

#### To set ZeroOff speed while underway:

Accelerate to the desired speed and press **SET**, then push the throttle handle fully open to give ZeroOff full throttle authority. The boat will maintain the set speed.

#### To set ZeroOff for Tigé You rider profile preference:

At idle, preset the desired speed using the **UP/DOWN** arrows. The preset speed appears in the Set Speed area of the readout. Press **SET**, and the ZeroOff will turn on. Push the throttle handle fully open to give ZeroOff full throttle authority. The boat will accelerate to the preset speed.

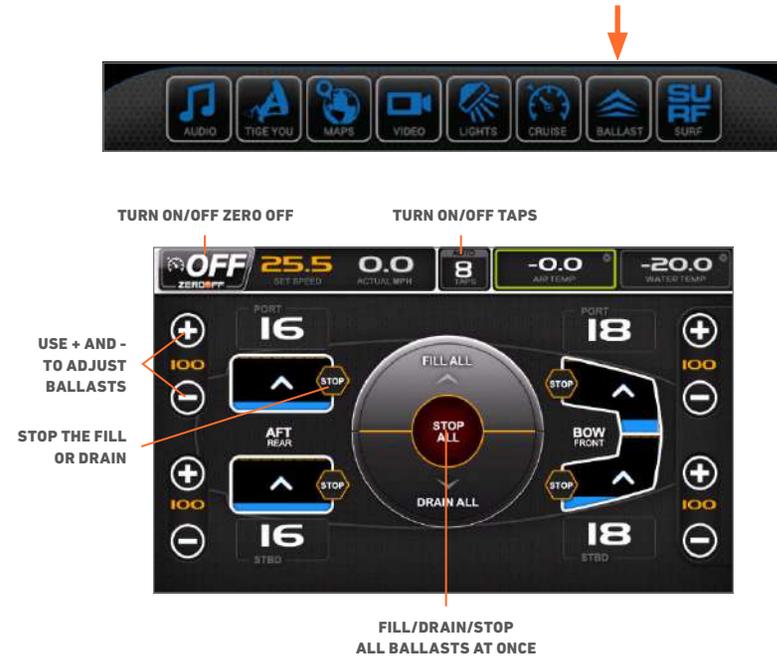
#### To cancel speed set:

- Press **OFF**
- Pull throttle arm back



**Ballast**

The ballast screen shows ballast amount in percentage and allows you to adjust ballast individually, fill all, stop all and empty all tanks. Adjustments are made in 1% increments.



**Surf System**

The Surf system provides a wake on the left or right side of the boat for surfing purposes. The maximum setting is 15, and the TAPS setting can be saved to better control the wake.



### System Settings for Owner

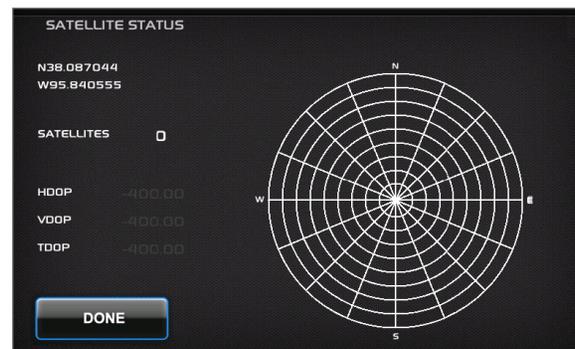
To arrive at the System Settings screen, follow these steps:

1. From the Home screen, tap the **Switching** button.
2. The following will appear. Tap the **System Settings** button.
3. The System Settings screen will appear.



### GPS Status

This screen will provide the status of all detectable satellites. When finished, tap the **Done** button.



### GPS Chart/Time

This screen allows you to change various parameters for the GPS Charts and Time display. When finished, tap the **Done** button.



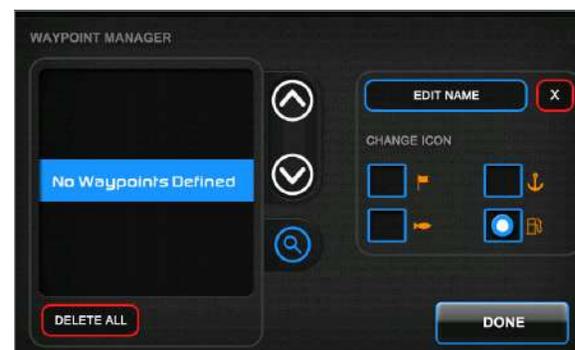
### GPS Depth/Position

This screen allows you to change various parameters for the GPS Depth/Position display. When finished, tap the **Done** button.



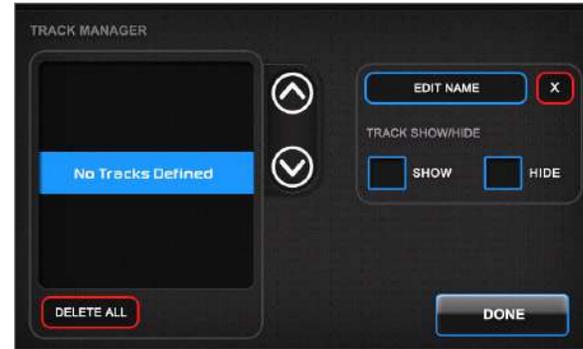
### Waypoint Manager

This screen allows the editing and deleting of Waypoint names and icons. When finished, tap the **Done** button.



**Track Manager**

This screen allows the editing and deleting of Track names and displays. When finished, tap the **Done** button.



**User Settings**

This screen allows the editing of various User Setting parameters. Utilize the **arrows** for adjusting, and when finished tap the **Done** button.



### Engine Diagnostics

This screen displays the active and stored faults along with the corrective actions taken. Utilize the **left** and **right arrows** to view additional errors. Press **Done** when finished.



### Ballast Settings

This screen allows the adjustment of the Ballast Fill and Drain times. When finished, click **Done**.

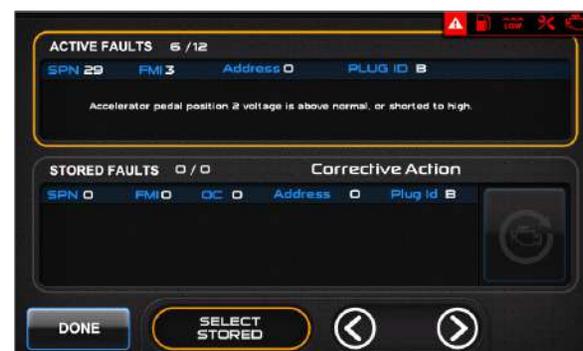


### Fault and Warning Screens

This screen shows a slide-in warning that indicates to the user (from left to right):

- Warning notification symbol
- Low Fuel warning as set by the user in user settings
- Low Depth Warning as set by the user in the user settings
- Service Required
- Engine Fault. The Engine Fault area is touchable and takes the user to the Engine Faults page, shown below right.

This screen shows the Active and Stored faults on the engine and displays the description of the fault (if available) in the text area.





**OPERATION**

## Operation

There are many things to consider when planning a safe and enjoyable boating trip. This section describes the basics on fueling, starting, shifting/running, steering, docking and stopping your boat. This section also includes a safety preflight checklist, boarding guidelines, boat loading information and other important topics on handling your boat. Knowing and understanding all of these fundamentals will give you confidence in using your boat.

Read and understand the contents of this section before casting off. Remember, if you have a problem during your outing, you cannot get out and fix it, or walk to safety or for help. You are responsible for the safety of all passengers, the boat and any damage your boat or its wake may cause. Always keep passengers from blocking your view so that you do not run into other boats, swimmers, water skiers, personal water vehicles or aids to navigation.

### PREFLIGHT CHECKLIST

The following checks are essential to safe boating and must be performed before starting the engine. Get in the habit of performing these checks in the same order each time so that it becomes routine.

**DO NOT** launch the boat if any problem is found during the safety check. A problem could lead to an accident during the outing causing severe injury or death. Have any problem attended to immediately; see your dealer.

#### *Before towing*

- Check trailer tire pressure and tire weheels.
- Ensure trailer is securely connected to tow vehicle. Check safety wires and pin. Check bow hook to ensure boat is hooked on trailer.

#### *Before launch*

- Check and tighten all hardware including pylons, towers, speakers and other accessories.

#### **Energize Electrical System. Energize system by:**

- Turning on the Battery Disconnect Switch located near the battery (for RZX2/ RZX3 the switch is located in the storage area under the observer seat. For all other models it is located in the rear portside storage area).
- Check fuel level. If possible, fill tank at a land-based fueling station. Marina gas sometimes contains water and is usually more expensive. Highest octane gas available is recommended.
- Make sure the Saltwater Flush Kit shut-off valve (if equipped), and/or seacock on water pickup (seacock applies to all models sold in Canada), is open (handle in-line [OPEN] with hose, not perpendicular [CLOSED]).
- Check engine oil level.
- Check transmission fluid level.
- Check battery charge.
- Check and operate the blower.
- Check that bilge drain plug is installed properly.
- Check the propeller, strut and rudder for damage.
- Check the weather report, wind and water conditions.
- Lift engine compartment cover for to check for evidence of gasoline fumes.
- Check that the required safety equipment is on board.
- Check that the fire extinguisher is fully charged.
- Check that all required maintenance has been performed.
- Check bilge pump operation and make sure bilge is free of debris.
- Check steering and rudder movement.
- Make sure adequate number of PFDs and all other Coast Guard-required items are onboard and accessible.

#### **Launch**

- Operate the blower for at least four minutes before starting engine.
- Check bilge for leaks.
- Stow gear and clothing.

**Pre-Operation**

- Check that no fuel, oil or water is leaking or has leaked into the bilge compartment.
- Check all hoses and connections for leakage and damage.
- Check the engine cooling water intake pick-up for blockage.
- Check that battery terminals are clean and tight.
- Check electrical circuits (lights, pumps, horn, etc.) for proper operation.
- Check that shifter/throttle control handle is in NEUTRAL.
- Check that the steering system operates properly.

**During Operation**

- Monitor gauges frequently for signs of abnormal behavior.
- Check that controls operate smoothly.
- Check for excessive vibration.

**After Operation**

- Fill fuel tank to prevent moisture from condensation.
- Check for fuel, oil and water leakage.
- Check the propeller for damage.

**FUELING**

**⚠ WARNING**

**FIRE/EXPLOSION HAZARD**

Gasoline vapors are highly explosive when exposed to open flame or spark resulting in death or serious injury. Run blower for at least four minutes before turning on any electrical devices or starting the engine.

- Stop all engines, motors and fans before refueling.
- Do not smoke or allow open flames or sparks nearby, within 50 ft (15 m) of the fueling area.
- Maintain contact between the fuel nozzle and the fuel tank to prevent electrostatic spark. **DO NOT** use a plastic funnel.

Try not to spill gasoline. If gasoline is spilled, wipe up all traces of it with dry rags and immediately dispose of the rags properly onshore.

**When fueling**

1. Close all doors, hatches, windows and other compartments.
2. Extinguish cigarettes, pipes and all other flame-producing items.
3. Make sure all power is off, and **DO NOT** operate any electrical switches.
4. Open fuel fill cap and insert hose nozzle.
5. Add fuel in accordance with the engine owner's manual. **DO NOT** fill to capacity to allow for fuel expansion.
6. Tighten the fuel filler cap completely after refueling.
7. Check oil level.

**NOTICE**

Each time you fill up, inspect fuel lines for leaks and hose deterioration. After fueling, make sure fuel and oil caps are tightened securely and wipe up any spillage.

**⚠ CAUTION**

To prevent engine damage, refer to the engine's owner's manual for manufacturer's recommended fuel.

## SHIFTING/RUNNING

When shifting your boat, follow these guidelines:

Pause in neutral before shifting from **FORWARD to REVERSE**, or **REVERSE to FORWARD**.

- Avoid shifting into reverse while the boat is traveling forward at speed.
- Keep the shifter control clean and clear of obstructions.

**To shift into forward:** Push shifter/throttle control handle forward to go forward.

**To shift into reverse:** Push shifter/throttle control handle back for reverse.

## STEERING

Practice steering your boat. Make sure the steering system is working correctly and is properly maintained. Have the steering system checked regularly.

### **WARNING**

#### **LOSS OF CONTROL AND UNSAFE BOAT HAZARD**

Hazard from improper maintenance of steering system is hazardous and can cause death or serious injury from sudden loss of control. Make sure all steering hardware, cables and fluid levels are regularly inspected and maintained.

Boats have a tendency to wander at slow speeds and steering the boat back and forth will result in over-steer. Keep the steering wheel in the center position and make slight adjustments.

## STOPPING

1. Slowly bring the shifter/throttle control handle to the idle position. If the boat has been driven for a long period of time at high speed, allow the engine a two- to three-minute cooldown period at idle.
2. Turn the ignition key to the **OFF** position.
3. If any problems were encountered during the outing, have the boat inspected by your dealer and request any necessary repairs before the next outing.

**DO NOT use the emergency stop switch to shut off the engine.**

## DOCKING

Practice docking before attempting it for the first time. Use a float, like a plastic milk jug with a line and small weight, as your docking target. Remember, your boat is steered with a rudder and maneuvering at slower speeds takes practice.

### **WARNING**

#### **CRUSH HAZARD**

Using your hand, arm, or other part of your body to attempt to keep the boat from hitting the dock can result in serious injury. **DO NOT** use any body part to keep the boat from hitting the dock.

### ***Dock and Mooring Lines***

Use enough fenders to protect the craft from damage and good quality double-braided nylon line. Only use the cleats, bow eye and stern eyes to secure the craft. **DO NOT** use the handrails or windshield. The foredeck handrails should only be used for tying a "jackline" in an emergency situation.

**Follow these guidelines when docking:**

- Approach docks slowly with the starboard side of the boat if possible.
- Come to a stop a short distance from the dock, then proceed slowly.
- Have fenders, mooring lines and crew ready.
- Observe how the wind and current are moving your boat. Approach the dock with the boat pointed into the wind, if possible. If the wind or current is pushing you away from the dock, use a sharper angle of approach. If you must approach the dock downwind or down current, use a slow speed and shallow angle. Be ready to reverse to stop and maintain position.
- If there is no wind or current, approach the dock at a 10- to 20-degree angle.
- If possible, throw a line to a person on the dock and have that person secure a bow line.
- With the bow secure, swing the stern in with the engine, or pull it in with a boat hook.

If the boat is to be moored for a long period of time, use chafing protectors on lines to protect the gelcoat finish. Leave slack in the lines to allow for some wave movement or tidal action if applicable.

**Follow these guidelines when departing:**

- Very slowly shift into forward at idle speed.
- When the stern moves away from the dock, turn the engine away from the dock.
- Cast off bow line and back away.

If the wind or current is pushing away from the dock, cast off all lines and allow to drift until you are clear.

**STARTING**

- Run the blower for at least four minutes before starting the engine. If you smell gasoline fumes, do not start the engine. Continue to run the blower until fumes have dissipated.

	<div style="background-color: red; color: white; padding: 5px; text-align: center;"> <b>⚠ DANGER</b> </div> <p><b>GASOLINE VAPORS CAN EXPLODE RESULTING IN SERIOUS INJURY OR DEATH</b></p> <ul style="list-style-type: none"> <li>• Before starting engine, check the engine compartment for gasoline or gasoline vapors, then run blower for 4 minutes.</li> <li>• Run blower at idle or below cruising speed and after stopping to clear vapors from engine compartment.</li> </ul>
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- Make sure the Saltwater Flush Kit shut-off valve (if equipped) and seacock on water pickup are open (handle in-line **[OPEN]** with hose, not perpendicular **[CLOSED]**).
- Make sure the emergency stop switch is attached to the switch and the lanyard is attached to the operator.
- Make sure the shifter/throttle control handle is in **NEUTRAL**.
- Turn the key clockwise to the **START** position. After the motor starts, release the key.
- Push shifter/throttle control handle forward to go forward, pull back for reverse.

Always pause in **NEUTRAL** before going into **REVERSE** to avoid taking water in over the transom.

## TAPS OPERATION



For instant planing and clean, faint slalom wakes.



Adjust wake size or trim for optimum cruising, fuel efficiency, top speed or performance.



Convex V hull settles naturally at boarding and surfing speeds.



Working in conjunction with the patented Convex V hull, TAPS allows variable-hull trim capability that dramatically enhances wake characteristics, ride and overall boat performance. With the push of a button, TAPS instantly modifies the hull's running angle for optimum watersport wake enhancement, a smoother ride in rough water, better fuel economy and increased safety and comfort.

TAPS adjustments are made using the rocker switch located on the throttle handle. Always keep your left hand on the steering wheel and your right hand on the throttle.

The location of the TAPS switch allows operation with the right thumb, maintaining safe, hands-on control of the throttle.

TAPS switch adjustments can be made while stopped or while underway at any speed. The position of TAPS plate is indicated on the TAPS gauge located top center of the Tigé Touch 2 home screen.

Settings range from 1, a flat, bow-low running angle to 8, a bow-high running angle. To move the bow to a higher running attitude, push the top of the TAPS rocker switch (the TAPS will raise). The TAPS gauge will begin moving toward a higher number. To lower the bow, push the bottom of the TAPS rocker switch. The bow angle will lower and the TAPS gauge will move to a lower number.

Although the effects of the various TAPS settings depend on Tigé model, passenger load, water conditions, speed and other factors, the following guidelines are provided as a starting point as you learn to use TAPS to optimize your performance needs. Practice and experience using TAPS can also optimize your performance needs.

## TAPS 3 OPERATION

The TAPS 3 Surf System with the Surf Link remote changes how you wakesurf. TAPS 3 allows riders to switch sides, style or size instantly. TAPS 3 conquers the demands of convenience and quality, all while intuitively connecting riders to their surf wave like never before. In tandem with the Convex V Hull, TAPS 3's list-enhancement capabilities will result in the quickest, cleanest, most powerful transfer and a surf wave that's second to none.

TAPS 3 is setup to where it makes surfing either side of the wave easier. To use TAPS 3 select SURF on the home screen of the Tigé Touch 2 screen. This will bring you to the Surf screen. Make sure TAPS 3 is on by pressing SURF ON located in the bottom left of the screen. To surf on the left side (usually for people who ride left foot forward) select LEFT. To adjust the size and shape of the wave use the up and down arrows. To surf on the right side (usually for people who ride right foot forward) select RIGHT. To adjust the size and shape of the wave, use the up and down arrows. Adjusting the TAPS<sup>2</sup> located at the bottom of the screen will also effect the size and shape of the wave.

The amount of ballast and the amount of people can affect the way the wave forms. With most boats, a general setting for TAPS 3 to provide the best wave are between 4 and 6. TAPS 3 works alongside TAPS<sup>2</sup> which should also be set between 4 and 6. The ideal speed varies between 10 and 11.8 MPH. Remember these are guidelines and the plates and speed should be adjusted depending on how much weight is in the boat.

The Surf Link remote allows the rider to transfer waves by pressing the center button. When pressed the TAPS 3 system will raise one plate and lower the other plate to allow the rider to transfer waves. The UP and DOWN arrows allow the rider to adjust the TAPS 3 plates in order to create a more steep or less steep wave.

### **Ride, Safety and Boat Performance**

The variable-hull TAPS<sup>2</sup> system also dramatically enhances boat performance, comfort and safety. To eliminate bow rise on take-off, set TAPS<sup>2</sup> at 1. As soon as the boat reaches planing speed, adjust TAPS<sup>2</sup> to 3 or higher, depending on water conditions. If the water is choppy, less than 6 in. (152.4 mm) waves, the optimum ride setting will be from 2 to 5, depending on Tigé model and passenger load. If the water is rougher, 6 to 12 in. (152.4 to 304.8 mm) waves, the optimum ride setting will be from 5 to 8, depending on Tigé model and passenger load.

Raising the bow in rougher water will provide a safer, drier ride while maximizing the hull's "entry vee" to reduce the effects of the chop. This higher running attitude will also provide bow passengers with a smoother, drier ride.

To maximize top speed in your Tigé, set TAPS<sup>2</sup> between 5 and 8. When the boat reaches top speed, bring the TAPS<sup>2</sup> setting down slightly to achieve the optimum running attitude. Top speed should be achieved at a TAPS<sup>2</sup> setting of 5 to 6.

### **ZEROOFF GPS CRUISE CONTROL OPERATIONS**

(For boats without Tigé Touch 2 or an RZX model: See Touch Screen Procedures)

ZeroOff GPS Cruise Control allows precise, easy-to-use digital speed control that is useful in towing wakeboarders and skiers or maintaining a constant cruising speed. The ZeroOff GPS Cruise Control panel incorporates Touchpad Recognition for easy fingertip use without taking your eyes off the waterway. Raised, domed buttons are scaled to the human hand and positioned to allow for two-finger touch operation while you safely pay attention to your rider or skier and other boat traffic.

Before using Tigé ZeroOff GPS Cruise Control take time to familiarize yourself with the system and its operations.

The system will only operate when the dash CRUISE CONTROL switch is toggled ON. If this switch is toggled **OFF** during ZeroOff GPS Cruise Control operation, the system will disengage as soon as the throttle is brought back below the set point.

ZeroOff GPS Cruise Control resets each time the **CRUISE CONTROL** switch is manually toggled off and the throttle arm is brought below the set position.

ZeroOff GPS Cruise Control is solely governed by the throttle. If you desire to stop your boat at any time, pull back on the throttle arm.

### **To Set ZeroOff GPS Cruise Control**

Toggle dash CRUISE CONTROL switch to ON position.

### **There are two ways to set ZeroOff GPS Cruise Control:**

- At idle, preset the desired speed using the UP/DOWN buttons on the ZeroOff GPS Cruise Control control panel. The preset speed appears in the center dash digital readout. Push the throttle handle fully open to give Tigé ZeroOff GPS Cruise Control full throttle authority. The boat will accelerate to the preset speed.
- While underway, accelerate to the desired speed and press the ZeroOff GPS Cruise Control button on the center of the ZeroOff GPS Cruise Control control panel, then push the throttle handle fully open to give ZeroOff GPS Cruise Control full throttle authority. The boat will maintain the set speed.

Pulling the throttle arm back will instantly disengage ZeroOff GPS Cruise Control, allowing the boat to slow or come to a stop. ZeroOff GPS Cruise Control will allow slowing and stopping, it will not allow the boat to go over the set speed. For example, if you are towing a skier at a set speed and the skier falls, simply pull back on the throttle arm. The boat will slow and you can resume normal throttle operation to turn around to pick up the skier. As long as the **CRUISE CONTROL** switch remains **ON**, ZeroOff GPS Cruise Control will remember the set speed. To begin towing the skier again, push the throttle arm completely open and ZeroOff GPS Cruise Control will accelerate the boat to the previously set speed.

### ***To Increase Speed While Using ZeroOff GPS Cruise Control***

**There are two ways to go to a higher speed:**

- Hold down the **FASTER** button and release it when you reach desired speed.

OR

- Press the **FASTER** button in increments (about a half a second each time).

Each time the **FASTER** button is pressed, your speed increases by about a 0.1 MPH. This is useful for small speed changes desired by the person being towed.

For example, if you desire to go 1 MPH faster, press the **FASTER** button ten times (about a half second each time) and Tigé ZeroOff GPS Cruise Control will take you to your desired speed.

### ***To Reduce Speed While Using Tigé ZeroOff GPS Cruise Control***

**There are three ways to reduce your speed:**

- Hold down the slower button and release it when you reach the slower speed.

OR

- Press the **SLOWER** button in increments. Each time the **SLOWER** button is pressed, your speed decreases by about 0.1 MPH, the same increment as the **FASTER** button.

OR

- Pull the throttle arm back to your desired speed.

**To erase the ZeroOff GPS Cruise Control memory and regain throttle authority, turn OFF the CRUISE CONTROL switch on the dash.**

For example, if you are cruising using ZeroOff GPS Cruise Control and want to regain throttle authority for quick acceleration, simply toggle the Cruise Control switch **OFF** (this resets the memory), back off the throttle and then move it forward to achieve your desired speed. This can be done quickly or slowly.

## **TROUBLESHOOTING**

### ***No throttle power when you start your boat engine:***

Move throttle to neutral and verify that the dash Cruise Control switch is toggled **OFF**.

### ***Boat does not seem to maintain speed on turns or in rough waters:***

Verify that you have given your boat plenty of throttle authority (move the throttle forward).

### ***Engine power cuts out and then in:***

This usually occurs when the throttle is positioned at, or near, the set speed. Move the throttle to the full forward position after the speed is set, giving ZeroOff GPS Cruise Control adequate throttle authority.

## **SAFETY EQUIPMENT**

Federal and local laws require certain safety equipment to be onboard at all times. In addition, responsible boaters carry other equipment in case of emergency. Check with local boating authorities for any additional requirements over and above federal requirements.

Refer to Section 2, SAFETY, Required Safety Equipment.

## BOARDING

When boarding the boat, always step in. Do not jump. Avoid stepping on fiberglass or other potentially slippery surfaces. Board one person at a time.

**DO NOT** board the boat while carrying gear. Set gear on the dock, board the boat and then pick up the gear.

When boarding once in the water, swim towards the back of the boat to the swim platform. Grab ahold of the grab handle located above the swim platform and pull your body up onto the swim platform. Step up from the swim platform onto the boat. Avoid stepping on the fiberglass or other potentially slippery surfaces.

## BOAT LOADING

The performance of your boat is dependent on load weight and distribution.

Passengers should board one at a time and should distribute themselves to maintain trim. Remember to distribute weight from right to left, and also from front to back.

All passengers should be carefully seated and not be riding on the deck, gunwale or rear sun deck while underway. Passengers riding in the bow should exercise extreme caution. Do not overload the open bow area. Never seat more than three people in the open bow area (See seating chart on page 10). Refer to the Capacity Label and Seating Chart for number of people allowed in the bow area. Children under 11 years of age should not use the open bow area unless accompanied by an adult. During rough water operation, passengers in the bow should move to the aft passenger seats.

- **DO NOT** allow your passengers to ride with their feet dangling over the side; floating debris can cause serious injury.
- Avoid excess weight in the bow or stern.
- Securely stow all extra gear in stowage areas to prevent load shifting.

Do not stow gear on top of safety equipment; safety equipment must be quickly accessible.

In adverse weather, reduce the load in the boat. People/load capacity ratings are based upon normal boating conditions.

## RUNNING

We urge you and all others operating the boat to seek certified instruction from local boating authorities.

This section is designed to present the most basic operational principles. It is not intended to cover all conditions encountered during operation.

The principles presented in this manual are limited to the facts related directly to the operation of the boat, while the responsibility for the proper application of these principles belongs to you.

## MANEUVERING TECHNIQUES

Steering response depends on three factors: engine position, motion and throttle.

High-speed maneuvering is relatively easy and takes little practice to learn. Slow-speed maneuvering is more difficult and requires time and practice to master.

When making tight maneuvers, it is important to understand the effects of turning. Since both thrust and steering are at the stern of the boat, the stern will push away from the direction of the turn. The bow follows a smaller turning circle than the stern.

The effects of unequal propeller thrust, wind and current must also be kept in mind. While wind and current may not always be present, an experienced boater will use them to their advantage. A counterclockwise rotation propeller tends to

cause the boat, steering in the straight ahead position, to drift to port slightly when going forward, and to starboard when going backward. At high speed, this effect is usually unnoticed, but at slow speed, especially during backing, it can be powerful. More experienced boaters approach the dock with the starboard side of the boat toward the dock, if possible.

Stopping (checking headway) is a technique that must be developed. Since a boat has no brakes, reverse thrust is used to slow and stop the boat. The momentum of the boat will vary according to the load as well as the speed.

Make it a practice to slow to idle (no-wake) speed before shifting into reverse.

It is best to learn maneuvering skills in open water away from traffic. Practice is the only way to develop your boating skills.

## **SALT WATER**

If boat is used in salt water or brackish water, allow the cooling system to drain thoroughly after removing the boat from the water. Hose down the entire hull with fresh water and wipe dry.

Today's engines are built for operation in either fresh or salt water. Fresh water internal flushing is not normally required; however, it is highly recommended after use in salt, polluted, or brackish water. Your Tigé Dealer or engine manufacturer will assist you in securing the appropriate engine flushing device.

## **WINTERIZATION**

At the end of the season and before the temperatures drop below freezing, drain the engine completely when the boat is removed from the water. Your Tigé Dealer can provide the service.

## **TOWING PROCEDURE**

If water is rough, it may not be easy to extend the tow line from one boat to another. In these cases, use a light throwing line with a weight on one end and with the heavier towing line secured to it.

Never attempt to tow a much larger or grounded vessel. Because of the tremendous stress caused by towing, use a tow line that is rated at least four times the gross weight of the boat being towed. Tow ropes must always be in good condition, free of any cuts or abrasions.

Attach tow line to the bow lifting eye on the disabled boat. Attach the opposite end of the bridle only to the stern lifting eyes of the tow boat. Wrap the bridle with chafing gear where it rubs against the boat or any corners. Leave at least two boat lengths between the boats for adequate movement.

When towing, use only the bow and stern eyes; never use cleats, handrails, etc. Do not allow anyone to be in line with the tow rope. If the rope should break or pull free, a dangerous recoil could occur.

Adjust the tow line to match wave action. Keep the boats on the crest or in the trough of the waves at the same time. In protected, calm waters, shorten the line for better handling. Always tow at moderate speed, allowing for adverse wind and wave conditions. Have the operator of the towed boat steer with you if possible.

If you need a tow, or wish to tow another boat, use great care. The boat structure can be damaged by excessive pulling strain. You should always offer help to a boat in trouble; however, towing a capsized, grounded, or hull-damaged boat is dangerous. Give assistance to the occupants, and then call the proper authorities.

## **ANCHORING**

### ***Dropping Anchor***

There are many types of anchors available on the market. The choice of one anchor over another depends on many factors. An anchor will usually hold best in a mixture of mud and clay or in hard sand. A lightweight Danforth anchor is recommended for general boating. For more information on anchors, see your dealer.

## ⚠ WARNING

### SINKING OR DROWNING HAZARD

Anchoring at the stern can pull a boat under water and keep it there.

**DO NOT** anchor at the stern.

- Make sure the line is tied to the anchor and tie the other end of the line to the bow lifting eye. Having approximately 2 feet of heavy chain between the line and anchor will help the anchor place.
- Head the boat into the wind or current over the spot where you want to lower the anchor.
- Stop the boat before lowering the anchor.
- When the anchor hits bottom, slowly back up the boat, keeping tension on the line. Let out an anchor line that is four to six times the depth of the water. For example, if you are in 10 ft (3 m) of water, let out 40 to 60 ft (12 to 18 m) of line.
- Secure anchor line to the bow-lifting eye. Pull on line to make sure anchor is holding.
- Occasionally check your position against the shoreline. If the anchor is dragging and you are drifting, reset the anchor.

### *Weighing (Pulling In) Anchor*

Start engine and move forward until anchor line is straight up and down.

Pull hard to lift anchor from the bottom material. If the anchor is stuck, allow the up and down motion of the bow from wave action to loosen the anchor from the bottom. If the anchor remains stuck, slowly maneuver the boat around the anchor until the anchor pulls loose. Be sure to keep the line tight during this procedure.

## PERFORMANCE BOATING

Some boat models, especially those with high horsepower engines, are capable of truly exhilarating performance. Do not be tempted to push your boat to its limits until you are completely familiar with the boat's operating characteristics. The operator should have at least 10 hours of experience with the boat before any extended full throttle operation.

Here are some guidelines for performance operation. Read and practice them, and soon you will be operating your boat to its full capability.

### *Before Running*

- Keep the bottom clean and free of scum, barnacles and other growth. Growth on the hull can slow the boat down considerably.
- Prepare the boat. Be sure all gear is properly stowed and compartments are latched.
- Keep weight in the boat low and evenly distributed. Remove unnecessary weight and keep it onshore. Weight distribution affects performance.
- The propeller should be of the proper pitch to turn the recommended RPM rating for the engine and of the proper type for your average load and individual requirements. Your Tigé boat is already equipped with the proper propeller to achieve maximum performance with an average load for your boat. If you have questions, see your Tigé Dealer.

### *When Underway*

If the boat begins to operate in an unsafe way, pull back on the throttle. Monitor the gauges when operating at full throttle.

As the boat begins to get on plane, acceleration will increase since less boat will be in the water.

## **⚠ WARNING**

### **LOSS OF CONTROL AND UNSAFE BOAT HAZARD**

Failure to maintain control can cause death or serious injury. Keep one hand on the wheel and the other on the shifter/throttle control handle.

High-speed operation on smooth water is very stable, but quick reactions and adjustments are needed to maintain control. Know your limits and stay within them. Always keep one hand on the steering wheel and the other on the throttle; constant adjustments are necessary for rapidly changing conditions. Small inputs of throttle and steering are exaggerated at high speeds. Depending on the speed, keep watch well ahead so that you may have enough time to react.

## **PROPELLERS**

The propeller converts the engine's power into the thrust needed to propel the boat. Care and selection of your propeller is very important to proper boat operation. Propellers are identified by two numbers, such as 13 x 19. In the number sequence, the first number is the diameter of the propeller and the second is the pitch.

Pitch is the angle of the blades expressed in the theoretical distance a propeller travels in each revolution. In the above example, the pitch is 19, or each revolution of the propeller pushes the boat 19 in. (483 mm) through the water. A 19 pitch is considered "higher" pitched and a 15 pitch propeller is considered "lower" pitched.

Your Tigé boat is already equipped with the proper propeller to achieve maximum performance with an average load, for your boat. If you have questions, see your Tigé Dealer.

### **Keep these guidelines in mind when selecting a propeller:**

- Engine RPM must be within the recommended operating range. Refer to the engine owner's manual.
- Higher propeller pitch reduces: RPM, acceleration and engine noise, and usually improves fuel economy and top speed.
- Lower propeller pitch increases: RPM, acceleration and engine noise, and reduces fuel economy and top speed.

Refer to Section 6, CARE AND MAINTENANCE, Propeller, for information on removal and installation.



**BOAT SYSTEMS**

## Boat Systems

Knowing the systems on your Tigé boat is as important as knowing the switches, controls and indicators on your boat. System knowledge is essential for safe and proper operation and integrity.

When replacement parts are required, **DO NOT substitute marine-grade parts with anything other than parts with equivalent characteristics, including type, strength and material.**

Marine-grade parts are specifically designed for the conditions and environment which marine products are exposed to. Using substandard parts could result in injury and product failure.

### WARNING

#### **FIRE OR EXPLOSION HAZARD**

Gasoline and other fuels are extremely flammable and highly explosive under certain conditions.

- **DO NOT** smoke or allow open flame or sparks nearby when refueling.
- **DO NOT** block fuel vents.
- **DO NOT** store fuel in any containers or compartments which are not designated for fuel storage and **DO NOT** use these storage areas for any other purpose.

### WARNING

#### **LOSS OF CONTROL AND UNSAFE BOAT HAZARD**

Improper maintenance of boat systems is hazardous and can cause death or serious injury from sudden loss of control. Make sure all systems are regularly inspected and maintained.

### WARNING

#### **FLOODING OR DROWNING HAZARD**

A water system component failure is a flooding or drowning hazard which can cause death or serious injury. Maintain all water system components and keep seacocks closed during periods of inactivity.

### **STEERING**

Your Tigé boat has a mechanical steering system. When the steering wheel is turned, the dash unit transfers rotary motion of the wheel to linear motion in the cable which pushes or pulls the rudder arm.

Boat steering is not self-centering. Always keep a secure grip on the steering wheel to maintain control. Improperly maintained controls are dangerous.

Check steering operation and visually inspect for loose or missing hardware before operating the craft. If you suspect the steering system is damaged, see your dealer. **DO NOT** operate the craft if you suspect the steering system is malfunctioning.

### **ENGINE**

Your Tigé boat is powered by a single inboard engine. The specific operation, specifications, maintenance and troubleshooting information is contained in the engine owner's manual included in your Owner's Kit. Familiarize yourself with the information contained in the engine owner's manual. Following the manufacturer's recommendations and guidelines will provide you with continued boating pleasure and engine integrity.

## TRANSMISSION

The transmission has one forward and one reverse speed, and is shifted by the shifter/throttle control handle.

### V-Drives

The power generated by the engine is transmitted as a combination of the straight inboard and the V-drive transmission (a series of gears), which drives the shaft coupling and the propeller shaft assembly. The propeller shaft is supported and aligned with the engine by a thru-hull shaft log and an outside strut.

### Propellers

The propeller installed on your Tigé boat was selected because of its diameter and pitch to provide the optimum speed and performance under average conditions of load. The propeller selection must be based on the ability of the engine to turn the propeller and achieve the manufacturer's recommended RPM at full throttle.

## STRUT AND BEARING

The propeller shaft is supported on the outside of the hull by a strut. The strut is equipped with a water-lubricated plastic bearing to allow the propeller shaft to rotate in the strut.

### NOTICE

The strut bearing is lubricated by water. DO NOT shift the transmission and run the propeller out of water even if the water is supplied to the engine's cooling system. Damage to the shaft and bearing can occur.

## ELECTRICAL SYSTEM

Your Tigé boat is equipped with a direct current (DC) system which is battery-powered and supplies electricity to lights, pumps, blowers, engine ignition and accessories. The alternator from the engine produces alternating current (AC) and con-

verts it to DC, which provides power while the engine is running and also charges the battery or batteries, if your boat is equipped with more than one battery.

The electrical system is controlled by the battery disconnect switch, with location varying based on model. The electrical system is protected by circuit breakers on the breaker box. The breaker box is located under the dash. Make sure the battery disconnect switch and the MAIN switch on breaker box are both ON and make sure no breakers are tripped. Run fingers over breaker face and reset any tripped circuit breakers.

### ⚠ WARNING

#### FIRE OR EXPLOSION HAZARD

An AC/DC can create sparks. In the presence of explosive gases, fire or explosion can occur. Check for explosive gases or run the blower.

**DO NOT work on an energized system. Disconnect the negative cable from the battery before performing any service.**

## FUEL SYSTEM

The fuel system consists of a built-in fuel tank, a fuel tank vent, a port and/or starboard fuel fill on V-drive models.

The fuel tank is located mid-ship, fore of the engine. To inspect the hose connections, raise the floor panels. Your Tigé Dealer or a qualified service technician should perform all fuel system service.

## BALLAST TANK SYSTEM (OPTIONAL)

Our systems throw the right size wake or wave for every rider—on both sides of the boat. But the size of the wake isn't all that matters. With TAPS, anyone can achieve outrageous levels of wake-shaping and can go from a wakeboard wake to a slalom wake in just five seconds.

Because every Tigé model is built on the patented Convex V hull, you get the biggest wake imaginable with greater fuel efficiency and less drag than with any other inboard. Ballast settings are controlled by the Tigé Touch2 or the ActiveTouch Command Center (R-Series models).

**Under any circumstance, do not fill all ballast tanks to 100% at one time. Do not exceed coast guard capacity at any time.**

For prime wakesurfing performance (first consider passenger weight and distribution) then most likely you will add rear ballast and no front ballast. For surfing more weight needs to be distributed aft.

For prime wakeboarding performance (first consider passenger weight and distribution) then add ballast to even out total weight distribution.

**IN ALL CASES NEVER EXCEED COAST GUARD CAPACITY**

## BILGE SYSTEMS

### NOTICE

The Federal Water Pollution Control Act prohibits the discharge of oil or oily waste into the water. Violators can be fined \$5,000.

### IMPORTANT

**Bilge pumps and bilge pumping systems are not designed for damage control. Check the function of all bilge pumps at regular intervals. Debris can also prevent pumps from functioning or also make it operate continuously. Make sure no debris is blocking the bilge pump float. Continuous operation of the bilge can mean a leak or a drain plug is installed incorrectly, make sure all drain plugs are installed. See your Tigé Dealer if you have any questions.**

**DO NOT allow water to accumulate in the bilge area of your boat.** When the boat is in use, check the bilge area often. Your Tigé boat is equipped with an automatic bilge pump which detects excess water accumulation and will turn the bilge pump on automatically. Bilge water normally accumulates from weather, wet water sports gear, getting into your boat from the water and draining coolers.

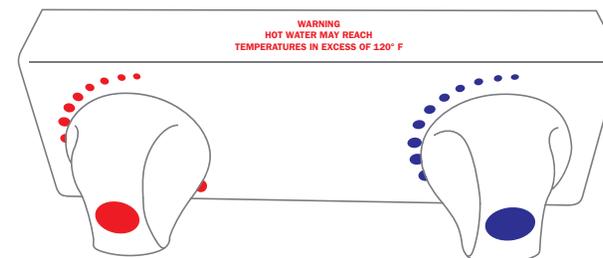
The engine and other parts of the drive system could be damaged and there is a risk of personal injury as increasing water level will affect the handling and maneuverability of the boat.

### CAUTION

The risk of personal injury from excess water in the bilge area will adversely affect the handling and maneuverability of the boat. Also, damage to the engine and other parts of the drive system can occur from the additional water. **DO NOT** allow the bilge pump to operate after all the water has been cleared from the bilge area. Damage to the pump will occur.

## SHOWER SYSTEM

The shower system consists of a pump for water pressure, a “manifold” for water, and a five-setting nozzle with an ON/OFF valve.



**DO NOT run the engine when using the shower at the boarding platform.**

## WARNING

### **CARBON MONOXIDE POISONING OR ROTATING PARTS HAZARD**

Poisonous CO gases are present at the rear of the craft when the engine is running. Exposure to CO gases can cause death or serious injury. A rotating propeller can cut or entangle causing death or serious injury. **DO NOT** use the swim/boarding platform when the engine is running.

Use the swim/boarding platform only for boarding the craft or entering the water.

## WARNING

### **BURN HAZARD**

Hot water from the shower may reach temperatures in excess of 120°F (49°C). Use both the cold and hot water control knobs when testing water temperature.

The shower manifold has a control knob. Turn the knob counterclockwise to increase pressure and control the temperature.

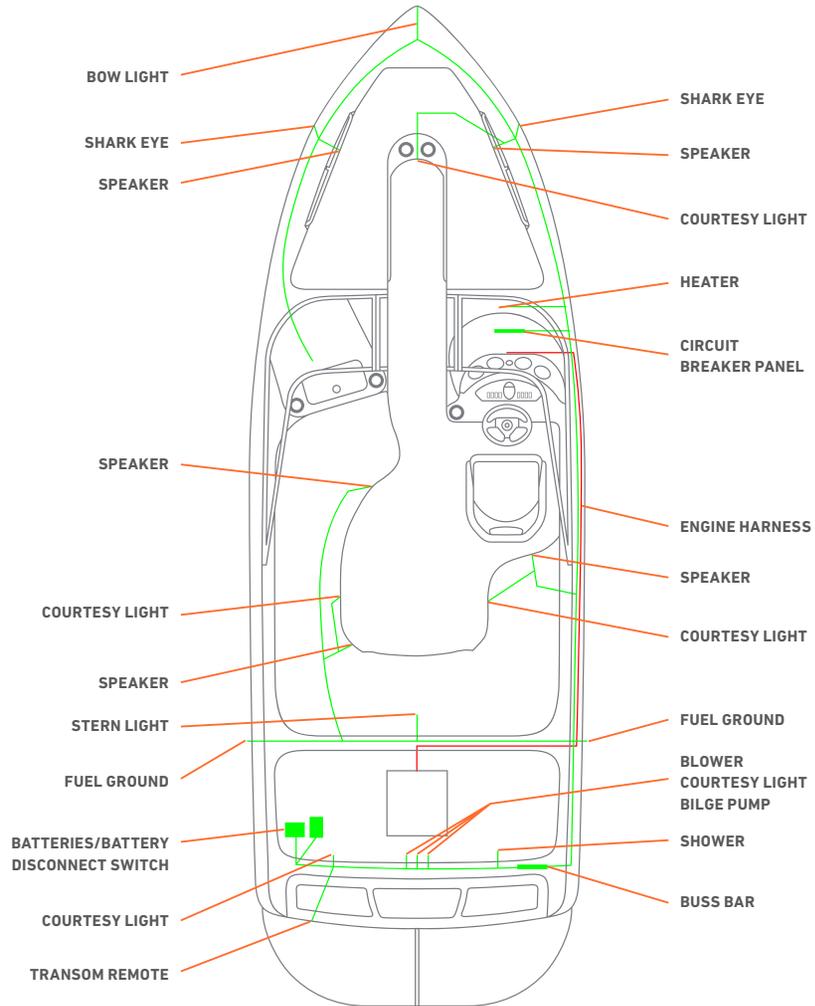
Use the nozzle to turn the water stream on and select the desired setting, **SHOWER/FULL/STREAM/FLAT/MIST**.

After using the shower, turn off the water control knobs. Relieve the pressure from the shower hose by opening the **ON/OFF** valve at the nozzle and then closing it.

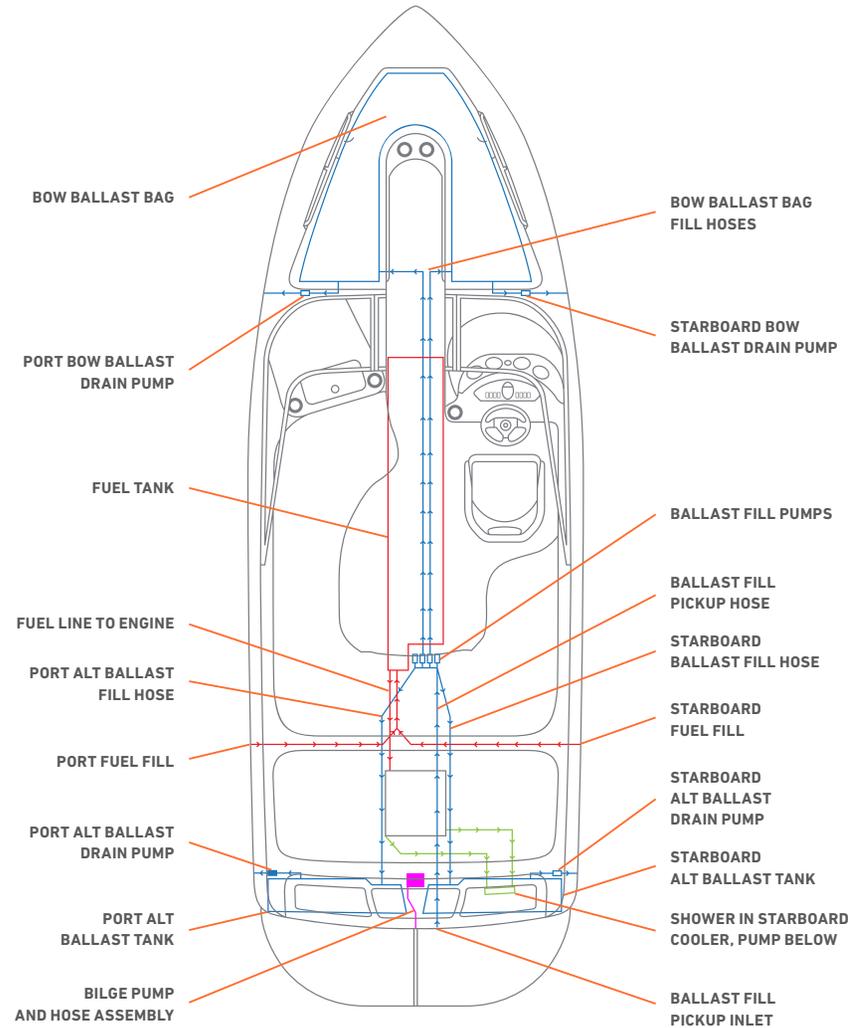
During off-season storage or below freezing temperatures, the shower system must be winterized. Your Tigé Dealer can assist you with winterization of the shower system.

### **SCHEMATIC AND SYSTEM ILLUSTRATIONS**

The Schematic and System illustrations show models with the maximum components and accessories, which may not be included on your Tigé boat.



Typical V-Drive Electrical Schematic



Typical V-Drive Fuel and Water System



CARE AND MAINTENANCE

## Care and Maintenance

This section describes how to take care of and maintain your Tigé boat. Periodic inspection and maintenance of items listed in this section are absolutely necessary.

Winterization of major components and some engine maintenance procedures are best performed by your Tigé Dealer. Some maintenance procedures also require special tools which only a dealer may have. Refer to the engine owner's manual for maintenance information for the engine.

Some maintenance items that can be done by you or your dealer are listed in this section. We suggest that you become familiar with these even if you have your dealer service your boat.

### GENERAL MAINTENANCE

1. Read engine owner's manual carefully and completely.
2. Check and make sure all drain plugs are installed correctly everytime you use your boat.
3. Check the fuel system for leaks every time you use your boat.
4. **DO NOT** start your engine if you smell gasoline or an odor is present. Gasoline fumes are highly explosive. Before starting your engine, always operate the blower for at least four minutes or open the engine cover and inspect the engine compartment for gasoline fumes. Run your blower when operating at slow speeds. If fuel vapors are present, **DO NOT** start the engine. Check all hoses and fittings to determine the source of the vapor. Make the necessary repairs or take the boat to a qualified service technician to eliminate the fuel vapor.

### ⚠ WARNING

#### **GASOLINE VAPORS CAN EXPLODE**

Before starting engine, run blower 4 minutes and check engine comp. Bilge for gasoline vapors. Run blower below cruising speed.

5. When servicing the ignition switch or any wiring, disconnect the battery cables from the battery.
6. Check for water circulation when the engine is running.

Exhaust should contain steady flow of water. In closed cooling systems, make sure the coolant in the cooling system is at the proper level.

### INTERIOR

The interior fabric of your Tigé boat is designed to take the tough punishment of the elements and usage of an active boater. Keep sharp objects away from the interior to prevent cuts or damage to your interior.

The interior of your Tigé boat can be cleaned easily, over and over, without showing signs of wear. Certain ingredients in products can contribute to staining of your interior, such as sunscreens. Some of these ingredients are:

- Aminobenzoic acids—e.g. PABA
- Hydroxy benzophenones—e.g. Oxybenzone
- P-methoxycinnamic acid
- Octylmethoxycinnamate

This list is not inclusive, but does represent a large selection of sunscreens which are known to stain vinyls. Almost any sunscreen with a high percentage (two percent or more) of active ingredients can stain.

**The interior manufacturer or Tigé Boats warranties do not cover staining from sunscreens.**

Special care should be taken to prevent dark-colored rubber products from coming in contact with your interior upholstery.

Regular vacuuming and general cleaning of carpets is recommended. Washing with warm soap and water is recommended for cleaning hard to remove spots and dirt. Under no circumstances should any solvents normally associated with the dry cleaning of apparel be used on the interior carpet of your Tigé.

## NOTICE

It is extremely important to clean the stained area as quickly as possible, making sure the recommended cleaning steps are followed in order.

### Care and Cleaning of Interior

Remove ordinary dirt and light smudges with a mild soap and warm water solution. Pay special attention to crevices. Dry it with a soft, lint-free cloth or towel. Always allow upholstery to dry completely. Cover the boat when not in use, allowing for adequate venting. Never use a pressure washer as it may damage the surface of the upholstery. For more difficult stains, use a stronger detergent. Follow the detergent manufacturer's instructions closely.

#### Step-by-step cleaning instructions:

- A** – Medium-soft brush, warm soapy water. Rinse/dry.
- B** – Vinyl Finish Vinyl Cleaner®. Rinse/dry.
- C** – One teaspoon of ammonia, ¼ cup of hydrogen peroxide and ¾ cup of water. Rinse/dry.
- D** – Wipe or scrape off excess. (Chill gum with ice.)
- E** – Hemisphere Ink Remover. Rinse/dry.

All cleaning methods must be followed with a thorough rinse with clean warm water.

TYPE OF STAIN	STEP 1	STEP 2	STEP 3
General Care	A	B	-
<b>FOODS</b>			
Chewing Gum	D	A	-
Chocolate, Coffee, Tea	B	-	-
Grape Juice	A	C	-
Ketchup	A	B	-
Olive Oil	A	-	-
Yellow Mustard	A	B	C
<b>MISCELLANEOUS</b>			
Ballpoint Ink	E	B	A
Bird Droppings	A	B	-
Blood	A	C	-
Dirt Buildup	A	B	-
Grease	D	B	-
Hair Oil Tonic	A	-	-
Household Soil	A	B	-
Latex Paint	A	B	-
Lipstick	A	B	-
Mildew Or Wet Leaves	C	B	A
Motor Oil	B	-	-
Oil Base Paint	D	B	-
Oily Spot	A	B	-
Permanent Marker	E	B	C
Spray Paint	B	-	-
Suntan Lotion	A	B	-
Tar / Asphalt	D	B	-
Urine	A	C	-

### Cleaner Recommendations

DOs	DON'Ts
Vinyl Finish Vinyl Cleaner®	Fantastik™
Dish Soap	Formula 409®
Dawn®	Murphy's® Oil Soap
Ivory®	Simple Green®
303 Aerospace Protectant	Armor All®
	Sun-of-a-Gun®
	Bleach/Baking Soda®
	Turtle® Wax/Tar Remover

### **Non-Skid Flooring Cleaning Instructions**

**A. To clean dirt, footprints, etc.,** use an all purpose cleaner, such as Formula 409, and warm water along with a medium bristled deck brush. Put the cleaner in warm water. Take a medium bristled brush and dunk into the soapy water. Work around on non-skid flooring until dirt or other substance comes up. Rinse with water. Repeat if necessary.

**B. To remove suntan lotion,** use the all purpose cleaner alone with a medium bristled deck brush. Put small amounts of the all purpose cleaner on oil. Dip medium bristled boat brush in warm water and work around until oil is out. Rinse with water. Repeat if necessary

**C. To remove fish blood,** use 1 cup bleach to 1 gallon of warm water and soft bristled boat brush. Mix bleach and water. Take soft bristled brush and dunk in water/bleach mixture. In a circular motion clean non-skid flooring until fish blood is up. Rinse with water. Repeat if necessary. If not effective, see item D.

**D. To remove rust stains,** use a cap full of MaryKate On & Off Hull & Bottom Cleaner for fiberglass. Apply on the rust stain and allow to soak for 3-5 minutes. If necessary, use latex/nitrile gloves to massage the cleaner into the brush or embossed texture of the non-skid flooring. Rinse with water. Repeat if necessary, the rust stain will eventually be removed.

With MaryKate Hull Cleaner, be careful to avoid getting this solvent on the sides of the flooring pad, it could damage the lamination or PSA.

#### **DO NOT USE:**

- Mineral Spirits
- MaryKate Hull Cleaner (as a general cleaner, okay for Item D application ONLY)
- Acetone (if it must be used, avoid the adhesives as best as possible)
- Bleach (if used, dilute with 1 cup bleach to 1 gallon of water)

## **⚠ WARNING**

**LEAKING FUEL IS A FIRE AND EXPLOSION HAZARD. INSPECT SYSTEM REGULARLY. EXAMINE FUEL SYSTEM FOR LEAKS OR CORROSION AT LEAST ANNUALLY.**

### **Dark Stowage Areas**

When a boat is stored completely covered or in a dark building, the vinyl will darken or become “dingy” looking. If this happens, simply place the boat in direct sunlight for a few hours and the vinyl will brighten up.

### **Bilge Pump and Bilge Area**

Check your bilge pump often to make sure it is functioning properly. The BILGE switch can be used to test the bilge pump, by listening to hear that the pump is operating. It may not pump water unless water is present. The bilge pump is located in the bilge area. Keep it from getting clogged by removing any debris you find in the bilge area. Debris can also block the pump float from functioning or make it operate continuously. Make sure no debris is blocking the bilge pump float.

Wash the bilge with a good biodegradable household detergent or a bilge cleaner available at your Tigé Dealer or a marine supply store. Rinse with water while your bilge pump is running. If your pump seems too slow, remove the top of the pump from the base and check the impeller to make sure there is no debris inside. See your dealer if there is still a problem or you suspect a problem with the pump.

#### **IMPORTANT**

**DO NOT discharge oil or cleaners into the water. Refer to Section 1, OUR ENVIRONMENT, Fuel/Oil Spillage. Bilge pumps and bilge pumping systems are not designed for damage control. Check the function of all bilge pumps at regular intervals. Continuous operation of the bilge can mean a leak or a drain plug installed incorrectly. Make sure all drain plugs are installed. See your Tigé Dealer if you have any questions.**

## EXTERIOR

Use quality boat care product when protecting the exterior of your Tigé boat. The exterior of your boat is as important as protecting the engine. A little effort today will keep your boat looking good in the future and show the pride every time you use your boat.

### WARNING

#### FIRE/EXPLOSION/ASPHYXIATION HAZARD

Cleaning agents and paint ingredients can be flammable and/or explosive, or dangerous to inhale. Make sure ventilation is adequate, wear proper personal protection and dispose of tags properly ashore.

Vapors from flammable solvents can cause fire, explosion or asphyxiation resulting in death or serious injury. Keep open flame or spark away from work area. **DO NOT** paint unless in a well-ventilated area.

### WARNING

#### SLIPPERY SURFACE HAZARD

Cleaning craft surfaces can generate slippery conditions which can result in death or serious injury. Use caution when cleaning with detergents and rinse thoroughly.

### *Gel Coat Maintenance*

Regular maintenance will keep your exterior surfaces in good condition. Exposure to the sun, sand, sap or staining properties from trees and minerals in the water affect your boat's finish.

To help maintain the shine of your boat, wash the hull with a mild biodegradable, non-abrasive detergent after each use to help to remove any debris and waterborne materials. Use a soft sponge or towel and dry with a chamois cloth to prevent water spots. Give your boat a fresh water wash after saltwater use. Cover if possible to keep your boat looking its best. Never place a non-breathable cover on a boat that is still wet. Store in a dry, covered area.

Remove any unintentional fuel or oil spills from the gel-coated surfaces as quickly as possible.

Wax the hull sides and deck at least twice a year with a high-performance marine wax. Waxes and polishes can be obtained from your Tigé Dealer or a marine supply store. Always follow the directions of the manufacturer of these products before you use them.

In certain areas, sudden changes in temperature can affect gelcoat. When planning on moving your boat from outdoors to a heated location, allow the change of temperature to be gradual. Heat the location after the boat is brought inside to allow the boat to change temperature slowly as the location is heated. Also, if you are planning on moving your boat from a warmer area to a colder one, wait for the outside temperature to be closer to the warmer area's temperature or allow the warmer area and the boat to cool down before moving your boat.

If your boat's gelcoat develops a chalky look over a period of time due to exposure to sun, there are gelcoat buffing and polishing compounds available from your Tigé Dealer or a marine supply store. **DO NOT** use common household scouring pads or powders.

Remove any small scratches or scuffs using a fine rubbing compound. For any major repairs, consult your Tigé dealer.

The hull bottom is also an important area to keep clean since buildup of water scum and algae will reduce the boat's efficiency. If you leave your boat in the water, com-

pounds to remove algae buildup on your hull are available. Use care when choosing these products since some can be caustic. Pay special attention to the cautions on the labels of these coatings. Ask your Tigé Dealer for advice on which products work best in your area.

#### Deck and Hull

The finish on your Tigé boat is known as gelcoat. Our gelcoat and lamination processes are among the finest available. Even though we take all the precautions during manufacturing, the finish on your boat is susceptible to the elements and many types of water conditions.

#### Cleaning Deck and Hull

A multipurpose boat soap\* should be used to clean exterior fiberglass/gelcoat surfaces on your Tigé boat after each use. This product, depending upon the ratio mixed, is designed to clean anything from dirty hulls and decks to greasy engines. Always rinse and wipe off the finish with a damp towel or chamois.

A fiberglass restorer/wax\* should be used to remove heavy oxidation, rust and exhaust stains. This product will not only restore the look but will also leave a wax protection on the cleaned surface.

#### Deck and Hull Care

Paste wax<sup>1</sup> will help protect against UV light damage. A coat should be applied at the beginning, middle and end of the boating season.

To extend the life of your gelcoat finish, use a Tigé marine mooring cover to cover the top deck of the boat for maximum protection. If your boat is to be stored where the sun is constantly on the side or transom of the boat, you should consider protecting those surfaces.

Tonneau covers will supply adequate short-term protection to the interior, but will not protect the gelcoat finish.

\*3M and your Tigé Dealer carry a complete line of fiberglass care products.

#### Stainless Steel and Chrome

Stainless steel is highly resistant to marine environments, but is still capable of rusting. Signs of rust and corrosion when left untreated can result in permanent damage. You can keep your stainless steel looking new by cleaning monthly with a good quality stainless steel cleaner or polish. Clean and polish in the direction of the grain or finish.

Clean and wax metal prior to extended storage. In saltwater or other harsh environments, clean and wax more often. High-quality stainless steel cleaners and conditioners are commercially available. Rinse with fresh water and wipe dry with towel or chamois after each use.

#### Cleaning Stainless Steel

If rust or corrosion does appear use a good metal cleaner/polish immediately to protect from permanent damage. **DO NOT use steel wool or other coarse abrasives, or clean with citrus cleaners, acids or bleach. DO NOT use cleaners that are not for use on stainless steel, such as glass, tile or counter cleaners.** These types of cleaners can damage the surface permanently. Apply metal or automotive wax, such as GEMPLUX® Cleaning Wax, after cleaning for additional protection and to maintain the finish. Always test any product in an inconspicuous area before applying to the complete surface.

If you have to replace hardware or fasteners, make sure the replacement components are made of the correct materials. See your Tigé Dealer if you have any questions.

**DO NOT store soiled rags onboard. Store or dispose of rags properly ashore.**

### NOTICE

Use caution in cleaning around stitching, wood or other decorative trim. since solvents could seriously damage these materials.

## PROPELLER

### ⚠ WARNING

#### CUT HAZARD

A propeller can be sharp and can cause death or serious injury. Wear a pair of protective gloves when handling any propeller. Prevent accidental starting of the engine by:

- Removing key from the ignition.
- Removing emergency stop switch clip from the switch.

**DO NOT reuse the nylon locknut or the cotter pin, or use a damaged propeller. A damaged propeller can damage your engine and boat.**

#### To remove:

1. Remove the cotter pin from the propeller shaft and discard.
2. Wedge a piece of 1" x 4" wood between the propeller blade and the port side of the strut and rudder.
3. Remove the nylon locknut and discard.

Use a propeller puller to remove the propeller and then remove the key from the keyway. Make sure the keyway in the propeller and on the shaft are free of any damage.

See your Tigé dealer for service to ensure the prop has been removed properly and that the shaft seal has not been damaged.

#### To install:

Look at the keyway on the shaft and in the propeller and make sure the key slides freely in the propeller keyway and shaft keyway. If the key has burrs, remove them by filing the flat sides or replace the key. **DO NOT** file the key beyond its normal shape or size.

1. Rotate the shaft until the keyway is up.
2. Place the key in the shaft keyway. Rotate the propeller so the keyway in the propeller is aligned with the keyway on the shaft. The propeller will only slip on in one direction. Once everything is aligned, push the propeller solidly onto the shaft and make sure the propeller is seated.
3. Wedge a piece of 1" x 4" wood between the propeller blade and the starboard side of the strut and rudder.
4. Install a new nylon locknut and torque the nut to maximum of 30 ft-lbs (40.7 N·m).
5. Install a new cotter pin and bend the retaining ends of the cotter pin in opposite directions.

## RUDDER

If you experience trouble turning your steering wheel then it could be caused by the rudder having issues turning. If your rudder port is equipped with a zerk fitting you are required to use Lubriplate Synxtreme FG-2 grease or an equivalent food grease. The use of any petroleum based product will pollute the environment and lead to failure of the part. **DO NOT USE PETROLEUM BASED GREASE.**

## SALTWATER BOATING

### NOTICE

If you use your boat in salt water or other unusual water conditions, freshwater flushing is recommended for your engine and the cooling system.

Tigé offers an optional freshwater flush kit. The Tigé freshwater flush kit has a relief valve to prevent excess water pressure to your engine. Excess water pressure can damage the engine. This is the only system Tigé recommends. Running the boat in fresh water is another good way to flush the engine, but it must be done immediately.

## BATTERY MAINTENANCE

### WARNING

#### FIRE/EXPLOSION HAZARD

Explosion or fire from hydrogen gases produced by lead acid batteries will cause death or serious injury.

- Wear personal protective equipment when working on or around batteries.
- **DO NOT** charge or use a battery booster to start your engine. Charge the battery outside the craft.
- **DO NOT** smoke or bring a flame near a battery.
- **DO NOT** have your head directly above a battery when making or breaking electrical connections.
- If ignited by a spark or flame gas may explode violently, causing spraying of battery acid or fragmentation of the battery.
- **DO NOT** use a metal object to spark between battery posts to check if the battery is charged.

Use care when connecting or disconnecting a battery charger. Make sure the charger is turned OFF and unplugged from power source when you clip ON/OFF the connecting clamps.

Make sure the connection is solid with the charging clamps.

Poor connections are common causes of electrical arcs, engine problems and errant signals to the engine's ECM.

**DO NOT make or break electrical circuits at the battery terminals; a spark will occur when a circuit is live and opened or made. Turn off all components.**

Use a voltmeter or hydrometer to check the battery charge condition.

Remove the battery cables from the battery when the boat is placed in storage, on display or in transit, to eliminate the possibility of the engine accidentally starting without a supply of cooling water.

The battery and cables are identified:

**+** = red positive

**-** = black negative

To clean your battery, remove and wash down the battery case with a diluted ammonia or baking soda/water solution to neutralize the acid, then flush with fresh water. Keep the fill/vent caps tight so the neutralizing solution does not get into the battery cells.

The electrolyte level should be checked every 30 days. Use distilled water only if any water is required. Maintain the level between the top of the plates and the bottom of the fill/vent cap. **DO NOT overfill.** Batteries contain sulfuric acid which can cause severe burns.

### TRANSMISSION OIL LEVEL INSPECTION

Refer to engine manual or your authorized Tigé dealer.

Check the oil with the boat level and the engine off.

Remove the oil level dipstick. The oil level should be between the "FULL LEVEL" and the "LOW LEVEL" indicator marks on the dipstick.

Verify the oil level with the gauge fully inserted into the transmission housing. **DO NOT overfill.** Use fresh recommended fluid only. To add or fill, use the dipstick opening. Refer to the transmission owner's manual for type of fluid, changing fluid intervals and more detailed information.

## STEERING

All steering systems require periodic maintenance to be trouble-free and safe. Check steering operation and visually inspect for loose or missing hardware before operating the craft. If you suspect the steering system is damaged, see your dealer.

### WARNING

#### LOSS OF CONTROL AND UNSAFE BOAT HAZARD

Improper maintenance of steering system is hazardous and can cause death or serious injury from sudden loss of control. Make sure all steering hardware, cables and fluid levels are regularly inspected and maintained.

## UNSCHEDULED MAINTENANCE

A problem with any electrical or mechanical equipment can occur anytime. Be aware of a malfunction if one occurs, or if you suspect a problem. Have the problem serviced immediately by your Tigé Dealer.

### *Engine/Propulsion/Cooling System*

If a problem occurs with your engine, propulsion unit or the cooling system between the scheduled maintenance cycle, immediately notify your Tigé Dealer to have the problem resolved. **DO NOT allow a problem to go unattended.**

### *Electrical System*

Have your Tigé Dealer repair all electrical problems. Electrical problems must be treated seriously and repaired immediately. Whenever checking for electrical problems, use extreme caution. Fuel and fumes are extremely flammable and explosive.

### WARNING

#### FIRE OR EXPLOSION HAZARD

An AC/DC can create sparks. In the presence of explosive gases, fire or explosion can occur. Check for explosive gases or run the blower.

**DO NOT work on an energized system. Turn the battery disconnect switch OFF.**

### *Fuel System*

**DO NOT operate your boat if you know you have a fuel system problem.** When you discover or suspect a fuel system problem, immediately notify your Tigé Dealer for repair.

### WARNING

#### FIRE OR EXPLOSION HAZARD

Fuels are extremely flammable and highly explosive under certain conditions. **DO NOT** smoke or allow open flame or sparks nearby when inspecting the fuel system.

### *Shower System*

The shower system must be filled with the proper storage antifreeze or drained completely for winter storage. If antifreeze is added to the engine cooling system, the shower must be included. After the system is drained or filled with antifreeze, the two water control knobs and the nozzle must be left open.

## SLINGING/LIFTING THE BOAT

To prevent structural damage to your Tigé boat, the proper procedure must be used when lifting your boat. Only use appropriate style lifting slings or lift rings with a spreader bar. Protect the rub rail to prevent any part of the lift device from making contact with the boat.

If the boat is to be removed from the water without a trailer, follow these guidelines:

- Never attach lifting cables to cleats, ski tow eyes or handrails. Attach cables only to the bow and stern eyes.
- Cover lifting cables with rubber hose or other protectors to prevent damage to the finish.
- Attach guide lines to the bow and stern to control movement.
- Use spreader bars and keep lifting pressure vertical to prevent gunwale damage.
- Keep the bow slightly higher than the stern to prevent engine damage.

### *Using Lifting Slings*

This method should only be used by a qualified person with knowledge on how to use lifting slings, or your Tigé Dealer. Slings must be the flat, widebelting type. **DO NOT use cable-type slings.**

The spreader bars used with the slings must be wide enough to avoid pressure to the gunwales.

Contact your Tigé Dealer to identify the proper location for slings. Slings may need to be adjusted fore or aft for your particular boat.

### *Storage Cradle*

If you are planning on storing your Tigé boat on a cradle, only use a storage cradle. You may also use the trailer designed for your boat to store your boat when it is not in the water. A storage cradle or your boat's trailer will provide proper support and prevent stress on the hull.

Position the storage cradle as close to the sling locations as possible. Use caution not to damage any underwater components.

The storage cradle must completely touch the hull for proper support. Be sure there are no gaps between the cradle and the hull. Store your boat with the bow slightly elevated to the same attitude as if the boat were floating. If the boat is stored with the bow down, moisture cannot move to the engine bilge area and out of the boat. Remove the transom drain plug.

Make sure all compartments in the bilge area completely drain. Mold and mildew can form as a result of moisture.

After the boat has been properly positioned on a storage cradle, thoroughly wash the interior, hull, deck and interior compartments. Allow a couple of days of air drying before covering the boat, store all cushions in the open position and open all storage areas to help prevent mold/mildew.

Cover the boat with the storage cover. If a temporary poly cover such as shrink wrap is used, your Tigé Dealer will install vents to provide ventilation to help prevent mold or mildew.

## STORAGE/WINTERIZATION

Preparing for winter lay-up is important. In frigid zones, be particularly attentive to items that can be damaged by freezing. Damage to your boat from improper storage is not covered by the warranty.

Without proper preparation, storage for long periods of time can cause internal parts of the engine and drive system to rust because of lack of lubrication. Or, if the boat is stored in below freezing temperatures, water inside the bilge or cooling system can freeze, causing damage. The following procedures should help prevent damage to your boat.

Perform all annual maintenance at this time.

The following items require special attention for winterization. Your Tigé boat may not include all the features described. Have your Tigé Dealer perform winterization procedures for the following:

- Engine cooling and exhaust systems
- Fuel system
- Batteries
- Drain Ballast System
- Drain shower

### Storage Preparation

**While the boat is still in the water:**

1. Fill fuel tank and add the proper amount of fuel stabilizer and conditioner according to the engine manufacturer's recommendations.
2. Operate boat for at least 15 minutes to be sure the treated fuel has reached the engine.

## NOTICE

If the boat is to be stored for more than five months, stored in a high-moisture (humidity) environment, in temperature extremes or outdoors, "fog" the engine with a rust preventive fogging oil according to the manufacturer's recommendations. See your Tigé Dealer.

**When the boat is removed from the water:**

## NOTICE

Remove the bilge drain plug immediately after taking the boat out of the water. After washing, raise the bow of the boat high to allow as much water as possible to drain while performing other storage preparations.

- Flush the engine cooling system with clean fresh water. **DO NOT** exceed 1500 RPM when flushing.
- Drain the ballast tank system

### IMPORTANT

**It is extremely important to drain ballast system during freezing temperatures and during long periods of non-use. Protect our natural resources by using environmentally friendly products and always discard in an environmentally friendly manner.**

1. Drain the system completely after your boat is out of the water and keep the intake/drain valves open.
2. Use a 50/50 mixture of an environmentally friendly antifreeze and fresh water.
3. Pour an even amount, approximately 1 gallon (3.8 liters) of the antifreeze mixture into each tank's vent.
4. Make sure you catch any spilled mixture by placing a container under the intake/drain of the tank you are winterizing.
5. Operate the pump in the drain mode for two seconds; then shut off. Repeat procedure for other tank(s).
6. Close the water intake/drain valves in the ballast tank(s). When returning your boat back to service, make sure to drain the remainder of the mixture before getting onto the water.

7. Thoroughly wash the interior, interior compartments, deck and hull as soon as your boat is removed from the water. Cleaning the hull at this time is easier because the marine growth is still wet. Allow a couple of days of air drying before covering the boat. Store all cushions in the open position and open all storage areas to help prevent mold/mildew.
8. Apply a coat of wax to the entire surface of the boat and rust inhibitor on all metal parts.
9. Clean all traces of dirt, oil, grime and grease from the engine and bilge. Touch up areas of engine where paint has been removed.
10. Prepare the engine for storage according to the instructions contained in the engine owner's manual.
11. Store the bilge drain plug and any other drain plugs removed in a plastic bag and tape it to the throttle control lever or near the dash so it is easy to find after being stored.
12. Remove the battery from the boat. Clean, fully charge and store the battery in an area not subject to freezing temperatures or directly on cement. **DO NOT** store batteries close to heat, spark or flame-producing devices.
13. Repack trailer wheel bearings with water-resistant wheel bearing grease. If the trailer is equipped with bearing protectors, apply grease into hubs with a grease gun.
14. Park trailer and boat in a protected area on cement if possible. If your boat and trailer are left outside, install a boat cover. Cover the boat with the storage cover. If a temporary poly cover such as shrink wrap is used, your Tigé Dealer will install vents to provide ventilation to help prevent mold or mildew.
15. Loosen tie-downs and winch line, but make sure the boat is resting properly on hull supports.
16. Jack up trailer and place blocks under trailer frame to relieve weight on trailer tires and springs.

## NOTICE

**DO NOT** use your tonneau cover or bimini top for long-term storage. These are not designed for long-term storage and do not provide good protection. Adequate ventilation is not possible and mold/mildew will form. For more information on appropriate long-term storage, see your Tigé Dealer.

### *What to do after Boat Storage*

Have your Tigé Dealer prepare your boat for the next boating season. It is very important for the fuel system and exhaust system to be thoroughly inspected and repaired, if necessary, before operating the boat.

There are many steps required to ensure your boat is in proper operating condition. Avoid the risk of fire or explosion. Inspect the fuel system. Failure to inspect the fuel system and allow fuel leaks to go undetected will contribute to a fire or explosion hazard.

If your swim platform was removed for storage, reinstall it. The removable feature is for boat storage only. The boat must not be operated without the swim platform.

## ⚠ WARNING

### **FIRE OR EXPLOSION HAZARD**

Fuels are extremely flammable and highly explosive under certain conditions. **DO NOT** smoke or allow open flame or sparks nearby when inspecting the fuel system.

**Make sure these steps are followed before using your boat:**

- Check and inspect the fuel and exhaust systems, the engine cooling and lubrication systems.
- If the swim platform was removed for storage, reinstall it.
- Charge and reinstall battery into boat.
- Check engine and bilge for signs of nesting animals; clean as necessary.
- Check entire engine for cracks and leaks caused by freeze damage.
- Check hose condition and all hose clamps for tightness.
- Install bilge drain plug or any other drain plugs removed. Make sure all plugs are installed correctly.
- Perform daily maintenance. If not performed during lay-up, perform annual maintenance.
- Check and lubricate steering system.
- Remove blocks from under trailer frame.
- Tighten tie-downs and trailer winch line.
- Check tire pressure and lug nuts on trailer.
- Take the boat to the water and start it. It may take a minute of cranking to allow the fuel system to prime. Allow a one-minute cooldown period for every 15 seconds of cranking. When the engine starts, keep a close watch over the gauge readings, and check for leakage and abnormal noises. Keep speeds low for the first 15 minutes until the engine has reached normal operating temperature.



## TROUBLESHOOTING AND SERVICE REQUIREMENTS

## Troubleshooting and Service Requirements

The following chart will assist you in finding and correcting minor problems with your Tigé boat. Refer to your engine owner's manual for more detailed information concerning a problem starting, shifting or operating the engine. Some problems may require the skills of a trained technician and special service tools. Contact your Tigé Dealer for assistance.

ENGINE SYMPTOM	POSSIBLE CAUSE
Engine will not crank	Ignition safety switch not in place. Install ignition safety switch. Battery disconnect switch located in engine compartment is off. Turn switch <b>ON</b> . MAIN switch on breaker box located under dash is off. Turn switch <b>ON</b> . Circuit breaker is tripped. Run fingers over breaker face and reset any tripped circuit breakers. Bad starter connections. Check connections and tighten. If starter solenoid clicks when attempting to start engine, check battery connections. If condition persists, contact your Tigé Dealer. Engine circuit breaker open. Make sure breaker is in operating position. Faulty ignition switch or engine problem. See your Tigé Dealer. Shift position not in <b>NEUTRAL</b> . Make sure shifter is <b>NEUTRAL</b> . Starting procedure not followed.
Low starter speed. Engine cranks but will not start.	Weak or bad battery. See your Tigé Dealer. Fuel level low or empty. Add fuel. Contaminated fuel. See your Tigé Dealer.
Engine runs erratically	Contaminated fuel. See your Tigé Dealer.
Engine vibrates	Propeller damaged. Check for bent, broken or damaged propeller, misaligned propeller shaft, or weeds on propeller.

ENGINE SYMPTOM (con't)	POSSIBLE CAUSE
Engine runs but boat makes little or no progress	Fouled or damaged propeller. Check for weeds on propeller, bent or broken propeller, or contaminated fuel. See your Tigé Dealer.
Performance loss	Throttle not fully open. Make sure throttle opens fully at engines. Improper fuel. Fill tank with correct fuel.
Engine overheating	Turn off engine immediately. Contact your Tigé Dealer. Boat overloaded. Reduce load or distribute boat load evenly. Improper propeller selection. See your Tigé Dealer. Excessive bilge water. Check for excessive water. Drain bilge. Boat hull buildup or blocked water pick-up. Clean if marine growth is present. Saltwater Flush Kit shut-off valve (if equipped), or water pickup seacock (seacock applies to all models sold in Canada, is <b>CLOSED</b> . Open shut-off valve or seacock (handle in-line [ <b>OPEN</b> ] with hose, not perpendicular [ <b>CLOSED</b> ]))
ELECTRICAL SYMPTOM	POSSIBLE CAUSE
Electrical problem	Battery disconnect switch located in engine compartment is off. Turn switch <b>ON</b> . MAIN switch on breaker box located under dash is off. Turn switch <b>ON</b> . Circuit breaker is tripped. Run fingers over breaker face and reset any tripped circuit breakers. Loose wiring connection. Check connections. Defective switch or gauge. See your Tigé Dealer. Dim or no lights, circuit breaker tripped or in <b>OFF</b> position. Check breaker. Battery discharged. Charge battery.
STEERING SYMPTOM	POSSIBLE CAUSE
Steering problems	Corroded steering cable or worn rudder. See your Tigé Dealer.
THROTTLE/SHIFTING SYMPTOM	POSSIBLE CAUSE
Throttle/shifting problems.	Low transmission fluid level. Check level. Corroded cables, defective throttle return spring or sticking transmission shift lever. See your Tigé Dealer.

### 20-HOUR SERVICE REQUIREMENTS

This service must be performed to keep warranty active. Please see your dealer.

TIGÉ MAINTENANCE SCHEDULE	DAILY	WEEKLY	REGULAR	ANNUAL	EVERY 2 YEARS	20-HRS.
Smell bilge area for fuel vapors	✓	✓	✓	✓		✓
Check and tighten all steering system bolts and connections						✓
Check rudder, tiller arm bolt and safety setscrew						✓
Lubricate rudder stuffing box and steering support tube						✓
Lubricate cables						✓
Replace cables	If stiffness continues after lubricating					
Check bilge pump operation	✓	✓	✓			✓
Check blower operation	✓	✓	✓			✓
Inspect shaft seal			✓			✓
Check shaft alignment/ensure it is within .003						✓
Check and tighten motor mounts						✓
Tighten pylon and tower mounting bolts	✓	✓	✓			✓
Tighten all hardware and fasteners						✓
Change engine oil and filter						✓
Change transmission fluid						✓
Change engine coolant					✓	
Check engine oil	✓					
Check transmission		✓				
Check water pickups for debris or marine growth		✓				
If equipped with a strainer, check and clean		✓				
If operated in salt water, flush engine/cooling system and boat	✓			✓		

**IF PROPELLER STRIKES AN OBJECT, INSPECT DRIVE TRAIN IMMEDIATELY!**

### 75-HOUR SERVICE REQUIREMENTS

This service must be performed to keep warranty active. Please see your dealer.

TIGÉ MAINTENANCE SCHEDULE	DAILY	WEEKLY	REGULAR	ANNUAL	EVERY 2 YEARS	75-HRS.
Smell bilge area for fuel vapors	✓	✓	✓			✓
Check and tighten all steering system bolts and connections						✓
Check rudder, tiller arm bolt and safety setscrew						✓
Lubricate rudder stuffing box and steering support tube						✓
Lubricate cables						
Replace cables	If stiffness continues after lubricating					
Check bilge pump operation	✓	✓	✓			✓
Check blower operation	✓	✓	✓			✓
Inspect shaft seal			✓			✓
Check shaft alignment/ensure it is within .003						✓
Check and tighten motor mounts						✓
Tighten pylon and tower mounting bolts	✓	✓	✓			✓
Tighten all hardware and fasteners						✓
Change engine oil and filter (every 75 hrs. or annually)						✓
Change transmission fluid every 300 hrs				✓		
Change engine coolant					✓	
Check engine oil	✓					
Check transmission		✓				
Check water pickups for debris or marine growth		✓				✓
If equipped with a strainer, check and clean		✓				✓
If operated in salt water, flush engine/cooling system and boat	✓					

**IF PROPELLER STRIKES AN OBJECT, INSPECT DRIVE TRAIN IMMEDIATELY!**

### 150-HOUR SERVICE REQUIREMENTS

This service must be performed to keep warranty active. Please see your dealer.

TIGÉ MAINTENANCE SCHEDULE	DAILY	WEEKLY	REGULAR	ANNUAL	EVERY 2 YEARS	150-HRS.
Smell bilge area for fuel vapors	✓	✓	✓			✓
Check and tighten all steering system bolts and connections						✓
Check rudder, tiller arm bolt and safety setscrew						✓
Lubricate rudder stuffing box and steering support tube						✓
Lubricate cables						✓
Replace cables	If stiffness continues after lubricating					
Check bilge pump operation	✓	✓	✓			✓
Check blower operation	✓	✓	✓			✓
Inspect shaft seal			✓			✓
Check shaft alignment/ensure it is within .003						✓
Check and tighten motor mounts						✓
Tighten pylon and tower mounting bolts	✓	✓	✓			✓
Tighten all hardware and fasteners						✓
Change engine oil and filter (every 75 hrs. or annually)						✓
Change transmission fluid every 300 hrs				✓		
Change engine coolant					✓	
Check engine oil	✓					
Check transmission		✓				
Check water pickups for debris or marine growth		✓				
If equipped with a strainer, check and clean		✓				
If operated in salt water, flush engine/cooling system and boat	✓					

**IF PROPELLER STRIKES AN OBJECT, INSPECT DRIVE TRAIN IMMEDIATELY!**

### 225-HOUR SERVICE REQUIREMENTS

This service must be performed to keep warranty active. Please see your dealer.

TIGÉ MAINTENANCE SCHEDULE	DAILY	WEEKLY	REGULAR	ANNUAL	EVERY 2 YEARS	225-HRS.
Smell bilge area for fuel vapors	✓	✓	✓			✓
Check and tighten all steering system bolts and connections						✓
Check rudder, tiller arm bolt and safety setscrew						✓
Lubricate rudder stuffing box and steering support tube						✓
Lubricate cables						✓
Replace cables	If stiffness continues after lubricating					
Check bilge pump operation	✓	✓	✓			✓
Check blower operation	✓	✓	✓			✓
Inspect shaft seal			✓			✓
Check shaft alignment/ensure it is within .003						✓
Check and tighten motor mounts						✓
Tighten pylon and tower mounting bolts	✓	✓	✓			✓
Tighten all hardware and fasteners						✓
Change engine oil and filter (every 75 hrs. or annually)						✓
Change transmission fluid every 300 hrs.				✓		
Change engine coolant					✓	
Check engine oil	✓					
Check transmission		✓				
Check water pickups for debris or marine growth		✓				
If equipped with a strainer, check and clean		✓				
If operated in salt water, flush engine/cooling system and boat	✓					

**IF PROPELLER STRIKES AN OBJECT, INSPECT DRIVE TRAIN IMMEDIATELY!**

### 300-HOUR SERVICE REQUIREMENTS

This service must be performed to keep warranty active. Please see your dealer.

TIGÉ MAINTENANCE SCHEDULE	DAILY	WEEKLY	REGULAR	ANNUAL	EVERY 2 YEARS	300-HRS.
Smell bilge area for fuel vapors	✓	✓	✓			✓
Check and tighten all steering system bolts and connections						✓
Check rudder, tiller arm bolt and safety setscrew						✓
Lubricate rudder stuffing box and steering support tube						✓
Lubricate cables						✓
Replace cables	If stiffness continues after lubricating					
Check bilge pump operation	✓	✓	✓			✓
Check blower operation	✓	✓	✓			✓
Inspect shaft seal			✓			✓
Check shaft alignment/ensure it is within .003						✓
Check and tighten motor mounts						✓
Tighten pylon and tower mounting bolts	✓	✓	✓			✓
Tighten all hardware and fasteners						✓
Change engine oil and filter (every 75 hrs. or annually)						✓
Change transmission fluid every 300 hrs.				✓		✓
Change engine coolant					✓	
Check engine oil	✓					
Check transmission		✓				
Check water pickups for debris or marine growth		✓				
If equipped with a strainer, check and clean		✓				
If operated in salt water, flush engine/cooling system and boat		✓				

**IF PROPELLER STRIKES AN OBJECT, INSPECT DRIVE TRAIN IMMEDIATELY!**

### 500-HOUR SERVICE REQUIREMENTS

This service must be performed to keep warranty active. Please see your dealer.

TIGÉ MAINTENANCE SCHEDULE	DAILY	WEEKLY	REGULAR	ANNUAL	EVERY 2 YEARS	500-HRS.
Smell bilge area for fuel vapors	✓	✓	✓			✓
Check and tighten all steering system bolts and connections						✓
Check rudder, tiller arm bolt and safety setscrew						✓
Lubricate rudder stuffing box and steering support tube						✓
Lubricate cables						✓
Replace cables	If stiffness continues after lubricating					
Check bilge pump operation	✓	✓	✓			✓
Check blower operation	✓	✓	✓			✓
Inspect shaft seal			✓			✓
Check shaft alignment/ensure it is within .003						✓
Check and tighten motor mounts						✓
Tighten pylon and tower mounting bolts	✓	✓	✓			✓
Tighten all hardware and fasteners						✓
Change engine oil and filter (every 75 hrs. or annually)				✓		✓
Change transmission fluid every 300 hrs.				✓		✓
Change engine coolant					✓	
Check engine oil	✓					
Check transmission		✓				
Check water pickups for debris or marine growth		✓				
If equipped with a strainer, check and clean		✓				
If operated in salt water, flush engine/cooling system and boat		✓				

**IF PROPELLER STRIKES AN OBJECT, INSPECT DRIVE TRAIN IMMEDIATELY!**

**ORIGINAL OWNER INFORMATION**

Owner Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Zip: \_\_\_\_\_

E-mail: \_\_\_\_\_

Boat Number: \_\_\_\_\_

Date of Purchase: \_\_\_\_\_

Dealer: \_\_\_\_\_

**SECOND OWNER INFORMATION**

Owner Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Zip: \_\_\_\_\_

E-mail: \_\_\_\_\_

Boat Number: \_\_\_\_\_

Date of Purchase: \_\_\_\_\_

Dealer: \_\_\_\_\_

**Ask about the transferable warranties.**



**FLOAT PLAN**

Copy this page and fill out the copy before you boat. Leave the filled out copy with a reliable person who can be depended upon to notify the USCG or other rescue organization, should you not return as scheduled. Do not file this plan with the USCG.

Name: \_\_\_\_\_

Telephone: \_\_\_\_\_

Description of Boat: \_\_\_\_\_

Type: \_\_\_\_\_

Color/Trim: \_\_\_\_\_

Engine Type: \_\_\_\_\_ No. of Engines: \_\_\_\_\_

Horsepower: \_\_\_\_\_ Fuel Capacity: \_\_\_\_\_

Destination Est.: \_\_\_\_\_ Time of Arrival: \_\_\_\_\_

Expected to Return By: \_\_\_\_\_

If Not Returned By: \_\_\_\_\_ Call the Coast Guard, or: \_\_\_\_\_

Auto Type: \_\_\_\_\_ License Plate No.: \_\_\_\_\_

Parked: \_\_\_\_\_

Coast Guard Telephone Number: \_\_\_\_\_

Local Authority Telephone Number: \_\_\_\_\_

**Survival Equipment**

PFDs: \_\_\_\_\_ Flares: \_\_\_\_\_ Mirror: \_\_\_\_\_

Flashlight: \_\_\_\_\_ Paddles: \_\_\_\_\_ EPIRB: \_\_\_\_\_

Water: \_\_\_\_\_ Food: \_\_\_\_\_ Anchor: \_\_\_\_\_

Radio (Yes/No): \_\_\_\_\_ Type: \_\_\_\_\_ Freq.: \_\_\_\_\_

**Persons Aboard**

NAME	AGE	ADDRESS	TELEPHONE

Other Information: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_