# NAUTIQUE

2013

V-Drive Owners Manual 200, 210, 226, 230 & G23





#### Dear Nautique Owner,

Welcome to the Nautique Family! For over 80 years, Nautique has been dedicated to providing our customers and their families with the finest inboard boats available. It's our passion to create the best performing boats in the industry. Boats that allow you to escape the routine of every day life. Our customers don't just own a Nautique, they live the Nautique life.

Your boat has been built with the best material and workmanship available, a legacy handed down from our founder. Our wealth of experience gives us the edge in innovation, quality and performance. We have the most dedicated and loyal employees in the industry. Hands down. Every day, our employees do more than just punch a clock; they take personal pride in every boat that comes down the line.

Review this Owner's Manual for your boat. We have assembled this manual to inform you about your Nautique and educate you further on boating. Please pay particular attention to the safety statements labeled as **DANGER**, **WARNING**, **CAUTION** and **NOTICE**. These statements alert you to possible safety hazards to avoid so you can have a safer boating experience. There are also many tips and tricks on care and maintenance sprinkled throughout the manual. Boating is very important to us and we would like you to enjoy many years of boating in your Nautique.

By purchasing a Nautique, you have taken the first step in trading your old lifestyle for a new one. Now that you own a Nautique, life as you know it will never be the same.

Enjoy the Nautique Life.

The Nautique Team

Keep your heart with all diligence, for out of it spring the issues of life.

Proverbs 4:23

#### Record Important Information

In addition to this manual, your Nautique boat is supplied with component manufacturer information such as instructions, warranties or other important information. Read these materials carefully since improper operation and maintenance can void the warranty and jeopardize personal safety.

Safeguard information about your Nautique boat by recording the Hull Identification Number (HIN) and the model of your boat and the model and serial numbers of your engine/transmission and trailer, if applicable.

Your HIN is located on the top right side of the transom, above the water line. The U.S. Coast Guard requires that your HIN be permanently affixed and remain on the top right side of the transom. The first two digits refer to the country of manufacture (U.S.). The next three digits represent the Nautique manufacturer, Correct Craft, Inc. (CTC) The next five digits are the boat's serial number. The next digit is a letter from "A" where "A" = January through "L" where "L" = December, designating the month the boat was made.

The last three digits represent the last digit of the year the boat was built and the final two digits of the boat model year. A boat built in July 2006 is actually a 2007 model boat. Example: A boat with "607" as the last digits indicates the boat was built in 2006, but it is a 2007 model boat.

Hull	
HIN	
Date Purchased	
Dealer/Phone	
Ignition Key Number	
Registration Number/State	
Engine Model Number	
Serial Number	
Trailer  Model Number  Serial Number	
Accessory Model Number	
Serial Number	

The identification numbers are important! Keep a copy of these numbers stored in a safe place off the boat. In case of theft, damage, etc., report these numbers to the local authorities, your insurance agent and your Nautique dealer.

#### **Boater's Checklist**

For improved safety and enjoyment, check each of these items:

#### **Check Before You Launch Your Boat:**

- Read both the engine and the boat operator manuals.
- Drain plug (Securely in place?)
- Propeller Condition (Prop nut tight and secured, no cracked or bent blades, prop turns freely?)
- Steering System (Working smoothly and properly, self locking nuts in place?)
- Battery (Fully charged, cable terminals clean and tight?)
- Capacity Plate (Are you overloaded?)
- Weather conditions (Safe to go out?)
- Fuel and Oil (Sufficient for trip, check bilge area for gas odor, no leaks?)
- Hoses and Connectors (No leaks or damage?)
- Electrical Equipment (Lights, horn, pumps, etc.?)
- Safety Equipment (Fire extinguisher, bailer, paddle, anchor and line, mooring lines, signaling device, tool kit, first aid kit, first aid manual?)
- Personal Flotation Devices for all occupants
- Float Plan submitted to Responsible Person (Verbal or written?)

#### **Check Before You Start Your Engine:**

- Fuel (Sufficient for trip, check bilge area for gas odor?)
- Control Lever in Neutral
- Capacity Plate (Are you overloaded?)
- Personal Flotation Devices for all occupants
- Seating (Everyone in proper place?)
- Engine Stop Switch and Lanyard (Operational and securely fastened?)
- No one in water near boat
- Keep firm and continuous grip on steering wheel
- Engine Cooling Water Valve open



#### 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.

## **Proposition 65**

#### **A WARNING**

A wide variety of components used on this vessel contain or emit chemicals known to the State of California to cause cancer and birth defects and other reproductive harm.

#### **EXAMPLES INCLUDE:**

Engine and generator exhaust.

Engine and generator fuel, and other liquids such as coolants and oil, especially used motor oil. Cooking fuels.

Cleaners, paints and substances used for vessel repair.

Waste materials that result from wear of vessel components.

Lead from battery terminals and from other sources such as ballast or fishing sinkers.

#### TO AVOID HARM:

Keep away from engine, generator and cooking fuel exhaust fumes.

Wash area thoroughly with soap and water after handling the substances above.

California Health & Safety Code 25249.5-.13

KC-0206-B

# Emission Control Warranty Information

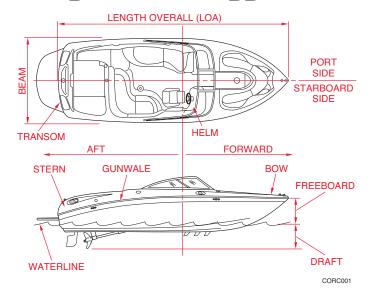


The engine in your Nautique boat meets the strict requirements set forth by the California Air Resources Board (CARB). The engine has a special environmental tag and the boat has this label affixed to it. The tag and the label are required by the California Air Resources Board

(CARB). The label has 1, 2, 3 or 4 stars. The label MUST be affixed to the boat, if the boat is operated in the state of California and/or bordering waters.



## **Boating Terminology**



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

# Product Improvement

Because of our policy of continuous product improvement, the illustrations used in this manual may not look the same as on your boat and are intended only as representative reference views. Some illustrations may also show optional accessories which may or may not be available for your boat. Many optional accessories can only be installed at the time the boat is manufactured and cannot be installed by your dealer. Your dealer will be happy to provide details on installing accessories.



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# Section I 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. Do not take unnecessary chances! Remember that at least three people are needed for safely towing watersport participants.

Failure to adhere to these warnings may result in severe injury or death to you and/or others.

- Look before you turn the boat. As a boater you are obligated to maintain a course and speed unless it is safe to alter course and speed. Look before you turn.
- Improper operation of the boat is extremely dangerous. Operators must read and understand all operating manuals supplied with the boat before operation.
- On-board equipment must always conform to the governing federal, state and local regulations.
- 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. Failure to do so may result in fire or explosion. If you smell gasoline vapor or see liquid gasoline, DO NOT start the engine.

- DO NOT operate the boat while under the influence of alcohol or other drugs.
- DO NOT 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. You or others may be thrown from the boat.
- DO NOT allow any type of spark or open flame on board. It may result in fire or explosion.
- DO NOT leave children in the boat without adult supervision.
- DO NOT sit in front of the operator to avoid obstructing the operator's view.
- DO NOT 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.
- 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.
- DO NOT replace your boat's marine parts with automotive parts.
- 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.
- 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.
- Keep track of ski lines and dock lines so they do not become entangled in the propeller.
- Be sure to securely attach the engine Emergency Stop switch lanyard to a part of your clothing, such as a belt loop, when operating the boat.
- Be sure to keep a watch for other boats, swimmers and obstructions in the water. Stay away from other boats and personal watercraft.
- Be sure to have an experienced operator at the helm and always have at least three people present for safe towing – one to drive, one to observe and one to ski or ride.



- Seek shelter from open water if there is threat of lightning.
- Operate slowly in congested areas such as marinas and mooring areas.
- The bow may be slippery. Do not go forward while the engine is running.
- When you leave the boat take the keys with you. This will keep untrained and unauthorized persons from operating the boat.
- 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 use boarding platform with the engine running.
  - DO NOT "teak surf."
  - Allow adequate ventilation with fresh air before entering.
  - Slow down when crossing waves or wake in order to minimize the impact on passengers and the boat.

### General Precautions

Your safety, the safety of your passengers and other boaters are among your responsibilities as operator of this boat. Your boat must be in compliance with USCG 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, PFDs, flares, distress flags, flashlights and emergency stop 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.

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





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

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

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

#### CAUTION

Indicates a hazardous situation, which, if not avoided, may result in minor or moderate injury.

#### NOTICE

Indicates a property damage message.

The precautions listed in this manual and on your Nautique boat are not all-inclusive. If a procedure, method, tool, or part is not specifically recommended, you must satisfy yourself that it is safe for you and others, and that the boat will not be damaged or made unsafe as a result of your decision. REMEMBER - USE COMMON SENSE WHEN OPERATING YOUR BOAT!



## Boat Safety Labels

Your Nautique 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 Nautique dealer for immediate replacement.



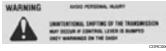
**Tow Pylon** 



**Water Strainer** 



Inside Engine Box and Fuel Fill



Throttle Control



**Transom Warning** 



Cross Member/ **Boarding Platform** 









Avoid personal injury or property damage caused by flying objects. Remove any items from board racks when trailering boat.

**WARNING** ♠

CORCOS

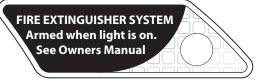
Flame Arrestor

#### **Board Racks**



CORCO

### Walk Through Windshield



CORC204

FIRE
EXTINGUISHER
SYSTEM

Armed when light is on.
See Owners Manual

CORC0261

210, 226 and 230

200





210, 226 and 230





CORC0331

200

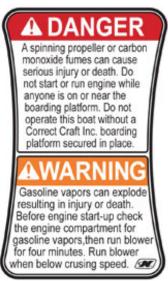




⚠DANGER
Failure to follow these guidelines can result in injury or death. Do not tow more than two persons at one time from this tow tower. The tow tower should only be used for recreational towables and not for parasailing, kite flying, or towing other boats, etc. Do not add any attachments that are not installed by Correct Craft, Inc. Do not climb on, sit on, stand on, jump off, or dive Inc. Do not climb on, sit on, stand on, jump off, or dive off the tow tower. Never allow passengers to sit behind the towrope attachment point. Never allow loose towrope ends to dangle. Always be certain that all bolts are in place and tight before and during use. When the tower is up watch for low obstacles such as tree limbs, bridges, or nower lines.

#### **Fuel Control Cell**

#### Flight Control Tower®



CORC0330

210, 226 and 230





210, 226 and 230 **Side Console** 



200

A WARNING Improper loading may cause operating instability and loss of control resulting in injury or death. Place persons and gear in a way that distributes weight evenly.

**BOW MAXIMUM CAPACITIES** 

3 PERSONS OR 350 LBS 350 LBS. PERSONS, GEAR

CORC0425

200

AWARNING Improper loading may cause operating instability and loss of control resulting in injury or death. Place persons and gear in a way that distributes weight evenly.

**BOW MAXIMUM CAPACITIES** 

3 PERSONS OR 450 LBS

450 LBS. PERSONS. GEAR

CORC0426

210

AWARNING Improper loading may cause operating instability and loss of control resulting in injury or death. Place persons and gear in a way that distributes weight evenly.

BOW MAXIMUM CAPACITIES

4 PERSONS OR 550 LBS

550 LBS. PERSONS, GEAR

CORC0427

226 and 230







G23 ONLY

A WARNING Improper loading may cause operating instability and loss of control resulting in injury or death. Place persons and gear in a way that distributes weight evenly.

PERSONS
OR 700 LBS
700 LBS. PERSONS, GEAR

CORC0431

G23 ONLY



AVOID SERIOUS INJURY OR DEATH FROM FIRE OR EXPLOSION RESULTING FROM LEAKING FUEL INSPECT FUEL SYSTEM REGULARLY. AVOID GASOLINE CONTAINING ALCOHOL AND NEVER USE GASOLINE THAT CONTAINS MORE THAN 10% ETHANOL OR METHANOL. SEE OWNERS MANUAL FOR ADDITIONAL INFORMATION.

#### **USE PREMIUM FUEL ONLY**

CORC0432

G23 ONLY



CORC0436

All Models With XS 550 hp Engines



## **Boating Regulations**

The U.S. Coast Guard (USCG) is the authority of the waterways; they are there to help the boating public. State boating regulations are enforced by local authorities. 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 if asked.

There are many pamphlets, prepared by the USCG, available to you. These pamphlets explain "Rules of the Road," signal lights, buoys, safety, international and inland regulations and much more than is presented in the manual. For more information, contact your local USCG Unit or visit 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 operating the boat, read this owner/operator manual. Be sure you understand each item before operating it. Improper operation or trailering of the boat could lead to severe damage and/or injury.

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:

- 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.
- Knowing that the capacity of the load are within the limits stated on the USCG Maximum Capacities Plate.
- Verifying that the emergency stop switch is in proper operating condition.
- Ensuring that all passengers are properly and securely seated in appropriate seating locations.
- 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.
- Having at least one other passenger who is capable of handling the boat in an emergency.
- Maintaining a proper lookout by sight and hearing.
- Avoiding use of alcohol and other drugs.
- Providing assistance to other boaters.

# Registration/Documentation

The USCG requires that all power boats operated on the navigable waters of the U.S. must 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 Nautique dealer can supply you with the appropriate forms.



#### 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 your Nautique dealer may be able to supply you with more information.

# **Education Opportunities**

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; United States Power Squadrons, 1-888-FOR-USPS, 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 courseline 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

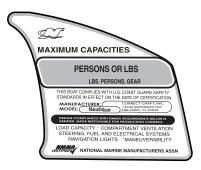
## Operating By Minors

Minors must be supervised by an adult whenever operating a boat. Many states have laws regarding the minimum age and licensing requirements of minors. Be sure to contact the state boating authorities for information.

## Overloading

An overloaded boat can cause death or serious injury. Do not purposely overload or add any additional water to the boat other than to the Nautique Launch Control System.

DO NOT overload your boat. Your boat is equipped with a required capacity plate indicating the maximum acceptable load as determined by the manufacturer following certain Federal guidelines. Place persons and gear in a way that distributes weight evenly. If in doubt, contact your Nautique dealer.



CORC2

210, 226 and 230



The capacity plate is used by boat manufacturers participating in the National Marine Manufacturers Association certification program. Nautique 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 other than the Nautique Launch Control System<sup>TM</sup>.
- Death or serious injury can occur from overloading the boat.
   DO NOT purposely overload your Nautique boat. Do not fill the bilge area with water to act as ballast.
- 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 other than normal conditions. Check the capacity plate on your boat and abide by these limits.

#### NOTICE

Correct Craft, Inc. installs permanent wake enhancement ballast tanks called the Nautique Launch Control System<sup>TM</sup> in some models. The full weight of this system has already been considered in the boat weight and therefore does not influence maximum capacity, unlike portable ballast tanks or weights, which must be included as part of the gear weight.

An overloaded Nautique will handle differently than a lightly loaded one. Drive and turn your Nautique with this in mind. 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 "phat sack." 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 Nautique boat has a required 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 "phattest" wake has caused some to excessively overload their boats. Overloading the boat will affect the operation and, possibly result in injury to persons inside and/or outside of the boat.

# Passenger Safety and Seating

Make sure that at least one passenger is familiar with the operation and safety aspects of the boat in case of an emergency. Show all passengers the location of emergency equipment and explain how to use it.

The operator of the boat is responsible for the safety of the passengers 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. 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, 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 remain properly seated.

# Visibility

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 an unobstructed view particularly to the front. No passengers or equipment should block the operator's view.

Look carefully before turning, especially when you are turning around to pick up a fallen skier. 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

Impaired operation can cause death or serious injury. Federal and state law prohibit operating a boat under the influence of alcohol and other drugs. These regulations are actively enforced.

Boating, alcohol and the use of other drugs just do not mix. Mixing boating, alcohol and other drugs result in many marine accidents and deaths. 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.

#### **NOTICE**

If the operator's blood alcohol content is above the legal limit, violators are subject to a civil penalty up to \$1,000.00 or criminal penalty up to \$5,000.00, one year imprisonment or both. Operating a boat under the influence can also result in a loss of automobile driving privileges.



## 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.

# Required Safety Equipment

The Federal Boat Safety Act of 1971 (FBSA/71) 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 Nautique boat meets or exceeds the standards of the USCG, ABYC and the NMMA. Some required safety equipment such as PFDs are not included with your Nautique boat. Your Nautique 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 or the USCG for further information about coastal water requirements.

The following equipment may or may not be required by federal/local regulations.

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

**Type II Buoyant Vest:** Good for calm water near shore on most inland waters where quick rescue is likely.

**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 V Hybrid PFD:** Inflatable design for special use activities and may be used instead of a Type I, II, or III PFD 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.



Type I Life Preservers



Type II Buoyant Vests



Type III Flotation Aids



Type V - Hybrid PFD Must Be Worn When Underway



#### NOTICE

- A Type V PFD must be worn to be counted toward the minimum carriage requirements.
- Special PFDs are available for skiing and other water sports.
   These PFDs are constructed with materials suitable for high impact falls.

PFDs are intended to help save lives. The operator should set an example by wearing one. Wear a PFD whenever boating. It is especially important that children and non-swimmers wear a PFD at all times. Make certain all passengers know how to put on and properly adjust their PFDs. Also, selecting the proper type PFD for your kind of outing helps ensure your time on the water can be the safest possible.

At the beginning of each season, check PFDs for damage and test for proper flotation. Refer to the PFD manufacturer's information.

All boats over 16 feet (4.8 meters) in length must carry one USCG approved Type IV throwable lifesaving device, such as a ring buoy or buoyant cushion. To meet requirements, each lifesaving device must have a current, legible USCG approval stamp permanently affixed.

**Type IV Throwable Device:** Intended for heavy traffic inland waters where help is available. Designed to be thrown to a person in the water and should never be worn.



Type IV Throwable Devices

Your Nautique dealer can help you select appropriate PFDs and throwable lifesaving devices for your area.



#### **Navigation Lights**

All power boats underway between sunset and sunrise must display proper navigation lights. All boats at anchor must display a proper anchor light. The anchor light must be visible 360 degrees.

#### **Horn or Whistle**

All boats over 16 feet (4.8 meters) in length must be equipped with an operable horn or whistle, audible from one mile. Your Nautique boat is equipped with a USCG approved horn.

#### Fire Extinguisher

At least one approved B-1 portable fire extinguisher is required. Make sure all passengers know the location and operating procedure for each fire extinguisher. Check fire extinguisher regularly for condition and state of charge.



Overcharge
 Recharge

Portable Fire Extinguisher

## **Visual Distress Signals**

All boats over 16 feet (4.8 meters) must have onboard day and night visual distress signals when operating on coastal waters, the Great Lakes, territorial seas or those waters directly connected to them, up to a point where the body of water is less than two miles wide. Carry several types of signaling devices to handle a variety of conditions. Your Nautique dealer 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 waterproof container. Have enough signals on board to last three days.

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

#### VISUAL DISTRESS SIGNALS



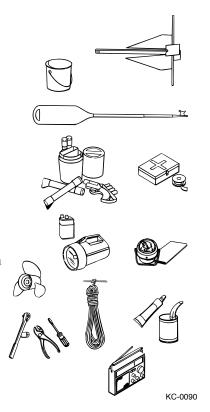
KC-0082



# 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 Nautique dealer can assist you:

- 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 oar/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
- Lubricant
- Tool kit
- Spare propeller and mounting hardware
- Spare fuses
- Spare keys
- Sunglasses and sun block lotion





# Emergency Stop Switch and Lanyard

Your Nautique boat is equipped with an emergency stop switch and lanyard. Nautique strongly recommends that the lanyard be secured to the operator and the lock plate attached to the emergency stop switch prior to starting the engine and anytime the engine is operating.

The lanyard is designed to turn off the engine whenever the operator moves far enough away from the helm to activate the switch. It is strongly recommended that the lanyard be used by the operator.

# **WARNING**

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.

- Attach the emergency stop switch 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 stop switch and 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.



Replacement lanyards should be of sufficient length to avoid inadvertent activation. Accidental loss of power can be hazardous particularly when docking or in heavy seas, strong current or high winds.

## **Emergencies**

Be prepared to deal with emergencies before they happen. Try to formulate a plan for each type in advance so that decisions can be made quickly and without hesitation. Precious moments lost can mean the difference between losing and saving a life.

#### Fire/Explosion

You must be prepared and act quickly when dealing with a fire. It is not recommended to battle a fire for an extended period of time. Turn engines off and abandon the boat if the fire cannot be extinguished quickly. Swim at least 25 yards (23 meters) upwind from the boat and use the visual distress signals to get assistance.

WARNING

Burn hazard from 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.

Onboard fires involving the fuel system usually result in either an explosion that completely destroys the boat, or the boat burning to the waterline and self-extinguishing. Deciding on abandoning the boat or staying to fight the fire is difficult and depends on many factors. Try to formulate a fire plan in advance to help make that decision quickly and without hesitation.

#### Be sure to:

- Use caution and do not smoke when refueling.
- Verify that fuel does not leak.
- Use only marine approved equipment on your boat.



# Boating Safety

#### **Capsizing and Swamping**

A boat may capsize or swamp when least expected. Like fires, try to 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.
- **Stay with the boat, it will float!** Climb up on the hull and try to get assistance.
- Do not try to swim to shore. It is usually farther than it looks.

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 or 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.

#### **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.



## Section I

#### **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 possible. Otherwise, call or signal for assistance.

#### **Hazardous Conditions**

Every waterway poses hazards that you should avoid, such as shallow water, tree stumps and sand bars. Ask local boaters for information and consult a marine chart when boating on unfamiliar waters. As the operator of the boat, you should try to avoid all hazards, known and unknown. The following information does not contain all possible water hazards.

#### **Shallow Water Operation**

Operating in shallow water presents a number of hazards. If a vibration is noticed after striking an object, it may indicate a damaged propeller shaft or propeller.

Sand bars in narrow inlets are constantly shifting, making it difficult to mark them with buoys. Tides in coastal areas affect water levels producing sand bars. Sometimes sand bars are indicated by waves as they form into breakers when passing over the sand bar. Refer to **Grounding**, in this section, if you run aground on a sand bar.

#### Weeds

Weeds are generally a threat to your boat's engine. Weeds on the propeller may cause a vibration. They may also restrict water intake causing the engine to overheat. If you run into weeds, stop the engine and clear the propeller and water intakes completely of weeds. Refer to your engine Operator's Manual for additional information.



# Boating Safety

#### 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 water level around a dam spillway is a hazardous area. It is subject to rapid changes caused by currents and turbulence. Keep clear of the spillway areas below dams.

#### Weather/Seas

Getting caught in severe weather is hazardous. It is recommended to check the weather, sea and wind conditions not only before, but also periodically while you are boating.

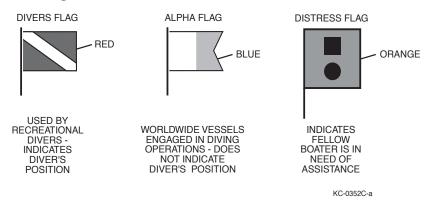
A change in wave height, wind direction and speed indicates deteriorating weather. Take common sense precautions if you are forced to operate your boat in stormy conditions:

- Wear PFDs.
- Reduce speed and head for a safe place that you can easily reach.
- If you lose power, keep the boat headed into the waves by using the anchor.

It is best to avoid operating your boat in foggy weather. When fog sets in take bearings and log courses and speeds. You are required to emit a five-second blast from your horn or whistle once every minute. Additionally, have passengers wear PFDs and observe for oncoming watercrafts.

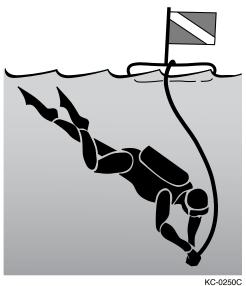


#### **Warning Markers**



#### **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.



Skin Diver Warning Flag

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





KC-0260C

#### **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 occupied spaces under certain conditions.

🛕 DANGER 🛕

Exposure to carbon monoxide (CO) can cause death or serious injury. Gasoline engines produce carbon monoxide (CO). CO is colorless, odorless and dangerous.

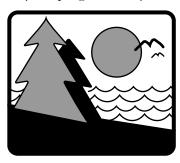
Direct and prolonged exposure to CO will cause brain damage or death. Signs of exposure to CO include nausea, dizziness and drowsiness. Avoid exposure to yourself and / or your passengers to carbon monoxide.

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



#### Our 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.



#### **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 before launching the boat in a new body of water.

#### Fuel/Oil Spillage

**A** WARNING

Fire or explosion hazard 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 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



# Boating Safety

If the fuel tank is near empty, start fueling the tank very slowly to prevent accidental discharge. Once several gallons have been added, the fueling rate can be increased to normal.

Avoid overfilling of the tank by monitoring the fuel level gauge while fueling. Turn on the ignition without starting the engine and monitor the gauge. Stop fueling as the gauge approaches the 'full' level and turn off the ignition when finished.

#### Discharge/Disposal of Waste

Waste means all forms of garbage, plastics, recyclables, food, wood, detergents, sewage 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.

#### **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. Be 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. Consult your Nautique 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.



## Section I

#### **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, non-biodegradable or petroleum based products. Citrus-based cleaners are excellent for marine cleaning purposes and are safe for you and the environment.

## **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, 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.

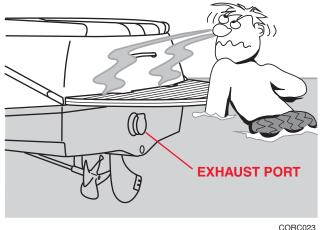
Always remember that the majority of water skiing injuries are the result of impacts with other objects. Always look where you are going and be aware of what is going on around you.

## **Teak/Drag Surfing**

READ, UNDERSTAND and be FAMILIAR with the information contained on warning labels 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 the boarding platform. The SAFETY ALERT and portions of the accompanying information follow:



# **Boating Safety**



CORCUZS

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, "teak surfing" or "dragging" behind a moving boat can be fatal. Nautique DOES NOT consider any dangerous activities which can result in a serious injury or death a watersport. Nautique is concerned for all boaters' safety and DOES NOT promote unsafe boating risks or jeopardizing any boaters' safety.

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



## Section I

#### 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 exhaust 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 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.

## **General Watersport Precautions**

- DO NOT ski in shallow water, close to shore or in water where you do not know the depth or what is beneath the surface.
- DO NOT put your arm, head or any other part of your body through the handle-bridle of the ski line nor wrap the line around any part of the body at any time.
- DO NOT ski at night or directly in front of other boats.
- DO NOT jump from a boat that is moving at any speed, nor enter or exit the water when the engine is running (RUN).
- DO NOT approach the boat if the engine is running.
- DO NOT ski near swimming areas, beaches or personal watercraft.
- DO NOT follow directly behind another boat or skier without leaving an adequate safe distance.
- DO NOT "back up" to anyone in the water.
- DO NOT ski with multiple skiers with different length ropes.
- DO NOT ski in limited visibility conditions.
- DO NOT approach the rear of the boat while the engine is running.



# Boating Safety

- DO NOT Kitefly.
- Make sure that everyone knows and uses approved skiing hand signals and common skiing courtesy.
- Be sure to turn off the engine before allowing anyone to approach the boat.
- The engine MUST be shut down (OFF) before a skier enters or exits the boat, boarding platform or ladder.
- Every skier MUST always wear a USCG-approved Type III
  personal flotation device. Special PFDs are available for high
  impact falls into the water.
- 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 items.
- Be sure to have an experienced operator and observer in the boat when skiing.
- Look before you turn the boat to pick up a fallen skier.
- Have ship to shore communication devices if operating at a significant distance off shore.
- The operator should never retrieve or pick up an article from the water while the engine is running. The engine MUST be shut OFF.
- The operator should always keep the skier in view when the skier is entering or exiting the boat.
- Communicate skiing speed with the skier before starting.
- The operator should know the ability level of the skier.
- The skier should indicate he/she is clear of the boat prior to starting the boat or putting the boat into gear and tightening the rope.
- The operator, observer and skier should agree to communication hand signals before starting.
- Observer in the boat should keep operator appraised of skier status.
- The operator should always watch the skier as the line is tightened to start (in case rope wraps around ski or skier).
- 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).



## Section I

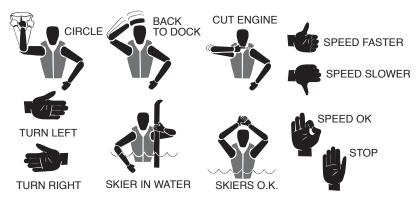
- The operator should be primarily aware of what is occurring in front of the boat, but be aware of skier's progress.
- Be sure to inspect the tow eye or pylon before use. If there is any evidence of corrosion or other damage, do not use until it has been inspected by your Nautique dealer.
- Be sure to wear wet suits or protective shorts when skiing to prevent abrasions, hypothermia and injuries to orifices (rectal and vaginal) from impact with a water surface.
- When people are getting on or off of watersports equipment, always turn the engine off. If boarding watersports equipment from the boat, always do so from the boarding platform.
- Always inspect watersports equipment for wear, fraying, etc., before use. DO NOT use if they show signs of wear or fraying.
- When approaching a skier, always turn the engine off before allowing the skier to come onboard. This will keep a propeller that is rotating under engine power from injuring the skier.
- Be sure to : eoperator's side, keep the skier always in view.
- Display a skier down flag whenever the skier is in the water and not skiing.
- Inspect towline for fraying, unnecessary knots or cuts.
   Replace when the rope shows signs of wear. DO NOT wait for the rope to break before replacing an old rope.
- Be sure to follow the approved towing pattern on each lake.



# Boating Safety

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.



KC-0271C-a

#### **Water Sport Hand Signals**

#### **Watersports Responsibility Code**

Be aware that there are elements of risk in boating, skiing and riding that common sense and personal awareness can help reduce. Know your ability level and stay within it.

To increase your enjoyment of the sport follow the "Watersports Responsibility Code."

It is your responsibility to:

- Familiarize yourself with all applicable laws, the risks inherent in the sport and the proper use of equipment.
- Know the waterways where you will be skiing or riding.
- DO NOT ski or ride in shallow water, near shore, docks, pilings, swimmers or other watercraft.
- Always have a person other than the boat driver as an observer and agree on hand signals before starting.
- Always wear a U.S. Coast Guard type III (PFD) vest.



# Section I

- Read your owner's manual and inspect your equipment prior to use.
- Ski or ride within your limits.
- Always ski or ride in control and at speeds appropriate for your ability.
- Always turn ignition off when anyone is near watercraft power drive unit.
- Avoid CO poisoning!
- DO NOT operate watercraft, ski or ride under the influence of alcohol or drugs.





# Section 2 Basic Rules of the Road

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

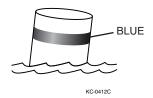
The operator is legally required to follow the rules. The following information outlines only the most basic of the nautical "Rules of the Road." For more information, contact your local USCG Auxiliary.

## Aids to Navigation

Learn to recognize the different buoys and day markers; they are the signposts of the waterways. 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.

The only buoys you are permitted to moor to are mooring buoys. Mooring to a navigation buoy or other navigational aid or regulatory marker is illegal.



Mooring Buoy – White with Blue Band May Show White Reflector or Light

#### **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:

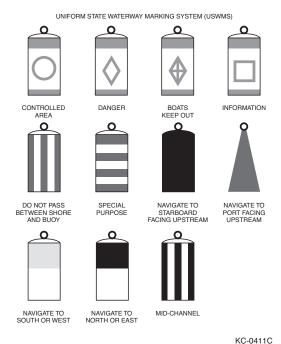
- Pass north or east of BLACK-TOPPED WHITE buoy.
- Pass south or west of RED-TOPPED WHITE buoy.
- RED and WHITE VERTICALLY STRIPED buoy indicates boat should pass outside of the buoy (away from shore).



#### Basic Rules of the Road

#### **Uniform State Regulatory Markers**

USWMS regulatory markers are white with international orange geometric shapes; you must obey regulatory markers.



110-0-1110

#### **Uniform State Waterway Marking System (USWMS)**

#### **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.



#### Section 2











KC-0420

**FWMS Marking System** 

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



KC-0430

#### **Spherical Safe Water Marker**

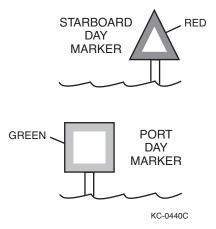
Obstructions, channel junctions, etc. are marked with RED and GREEN horizontally striped buoys.

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.



## Basic Rules of the Road



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.

# 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.

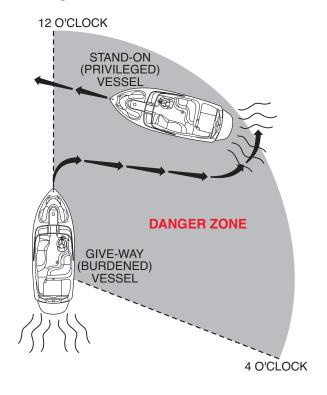
#### **Burdened Boats**

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 Situation**

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 clear and passes behind the privileged boat. Boats going up and down a river have the privilege over boats crossing the river.



CORC017

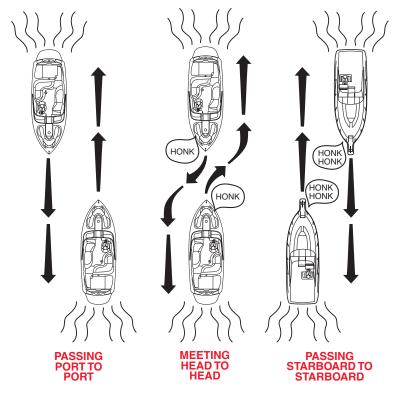
Crossing



## Basic Rules of the Road

#### **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.



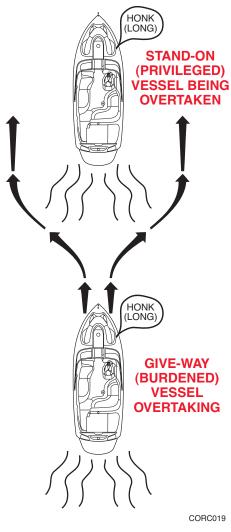
CORC018

Meeting Head-On



## **Overtaking**

The boat that is overtaking one ahead of it is the give-way boat and must make any adjustments necessary to keep out of the way of the stand-on boat. The stand-on boat should hold its course and speed.



Overtaking



## Basic Rules of the Road

#### 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.



# **NOTES**





# Section 3 G23, 200, 210, 226 and 230

# Specifications

## **G23**

Length Overall	23' (7.01 m)	
Length with Platform	25' 3" (7.70 m)	
Lifting Ring Spacing	21' 6.25" (6.56 m)	
Beam	102" (2.59 m)	
Draft	25" (0.64 m)	
Approximate Dry Weight*	5,400 lbs (2,449 kg)	
	65 Gallons (246.1 L)	
- ·	16 People (2,500 lbs/1,134 kg)	
Horsepower Range	343 to 550 (256 to 410 kw)	
Gear Reduction Ratio	1.48:1	
Maximum Factory Ballast Capa	city2,850 lbs (1,293 kg)	
* Weights are estimates and can vary from options and equipment		
added.	, 1	

#### 200

Length Overall	20' 0" (6.10 m)
Length with Platform	21' 10" (6.65 m)
Lifting Ring Spacing	18' 9" (5.72 m)
Beam	95" (2.41 m)
Draft	23.5" (0.60 m)
Approximate Dry Weight*	3,200 lbs (1,451 kg)
Fuel Capacity	28 Gallons (106.0 L)
Maximum Capacity	10 People (1,600 lbs/726 kg)
Horsepower Range	343 to 390 (256 to 291 kw)
Gear Reduction Ratio	
Maximum Factory Ballast Capaci	ty736 lbs (334 kg)

<sup>\*</sup> Weights are estimates and can vary from options and equipment added.

# Section 3

#### **NOTICE**

The dash configurations used in this section may show more features than what is included in your Nautique.

#### 210

Length Overall	21' 0" (6.40 m)
Length with Platform	
Lifting Ring Spacing	
Beam	
Draft	28" (0.71 m)
Approximate Dry Weight*	3,800 lbs (1,725 kg)
Fuel Capacity	
Maximum Capacity	
Horsepower Range	343 to 390 (256 to 291 kw)
Gear Reduction Ratio	1.48:1
Maximum Factory Ballast Capacit	y906 lbs (411 kg)

\* Weights are estimates and can vary from options and equipment added.

#### 226

Length Overall	22' 7" (6.88 m)
Length with Platform	24' 10" (7.57 m)
Beam	98" (2.49 m)
Draft	31" (0.79 m)
Approximate Dry Weight*	4,100 lbs (1860 kg)
Fuel Capacity	52 Gallons (196.8 L)
Maximum Capacity	15 People (2,150 lbs/975 kg)
Horsepower Range	343 to 409 (256 to 305 kw)
Gear Reduction Ratio	1.48:1
Maximum Factory Ballast Capaci	ty1,020 lbs (463 kg)

<sup>\*</sup> Weights are estimates and can vary from options and equipment added.



# G23, 200, 210, 226 and 230

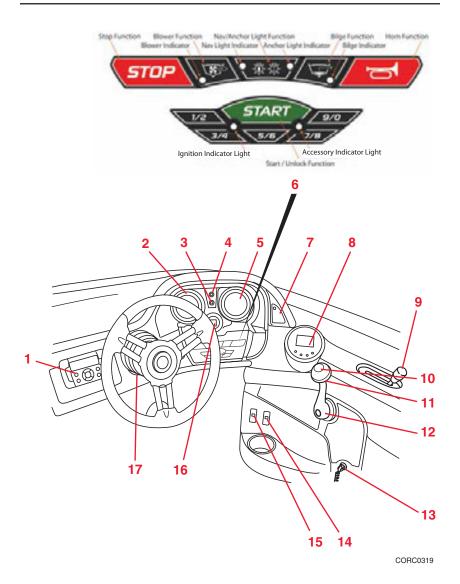
#### 230

Length Overall	23' 1.5" (7.05 m)
Length with Platform	
Lifting Ring Spacing	22' 0.25" (6.71 m)
Beam	100.5" (2.55 m)
Draft	29" (0.74 m)
Approximate Dry Weight*	4,300 lbs (1,952 kg)
Fuel Capacity	47 Gallons (177.9 L)
Maximum Capacity16	
Horsepower Range	343 to 390 (256 to 291 kw)
Gear Reduction Ratio	1.48:1
Maximum Factory Ballast Capacity	791 lbs (359 kg)

<sup>\*</sup> Weights are estimates and can vary from options and equipment added.



# Section 3





# 200 Nautique Dash Pod and Console

- 1. Stereo
- 2. RPM 3 in 1 Gauge w/Oil & Temp
- 3. Service Soon Light
- 4. Check Engine Light
- 5. Speedometer 3 in 1 Gauge w/Fuel & Volt
- 6. Keypad
- 7. Fire Extinguisher System optional
- 8. Zero Off Speed Control optional
- 9. SportShift<sup>TM</sup> Hydro-Gate<sup>TM</sup> Control Handle
- 10. Shifter/Throttle Control Handle
- 11. Shift Safety Lock-out Umbrella
- 12. Neutral Warm-up Button
- 13. Emergency Stop Switch
- 14. Ballast Pump Switch
- 15. Heater Switch
- 16. Depth Finder Gauge w/Air & Water Temp
- 17. Steering Wheel Tilt Lever

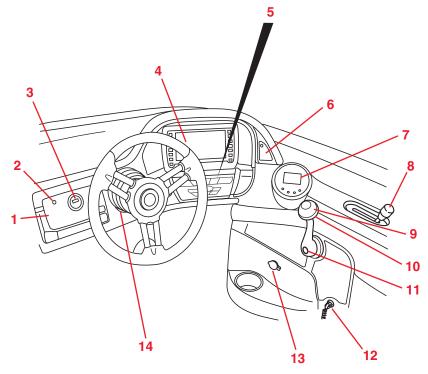
#### **NOTICE**

A full description of the gauges and switches and their functions is discussed in **Section 4**.



# Section 3





CORC0320



# 200 Team Dash Pod and Console

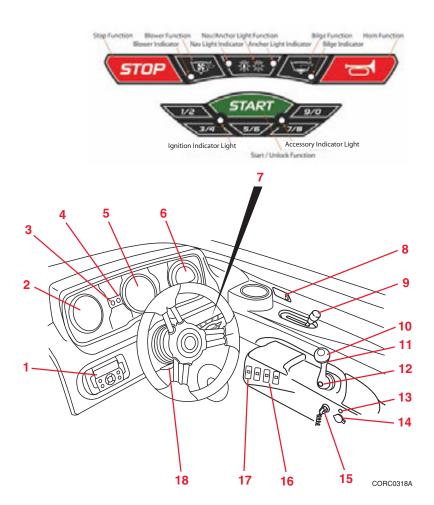
- 1. Pocket Panel
- 2. RCA Video Input
- 3. USB and Auxiliary Input\*
- 4. Nautique LINC System
- 5. Keypad
- 6. Fire Extinguisher System optional
- 7. Zero Off Speed Control
- 8. SportShift<sup>TM</sup> Hydro-Gate<sup>TM</sup> Control Handle
- 9. Shifter/Throttle Control Handle
- 10. Shift Safety Lock-out Umbrella
- 11. Neutral Warm-up Button
- 12. Emergency Stop Switch
- 13. 12V Port
- 14. Steering Wheel Tilt Lever
- \* This USB port communicates directly to the LINC and allows you to install LINC updates. It is not intended for use with MP3 players or other audio/video devices.

#### NOTICE

A full description of the gauges and switches and their functions is discussed in **Section 4**.



# Section 3





## 210, 226, 230 Nautique Dash Pod and Console

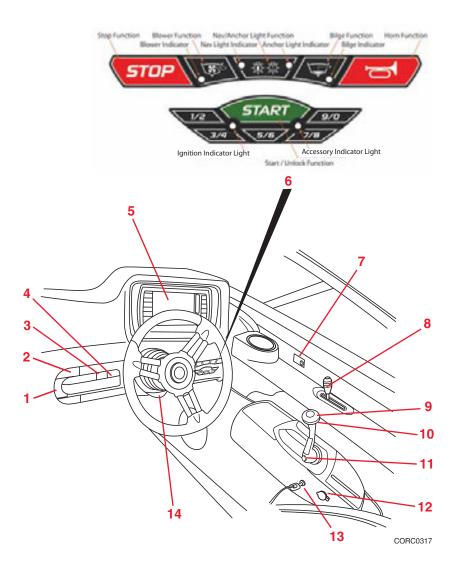
- 1. Stereo
- 2. RPM 3 in 1 Gauge w/Oil and Temp
- 3. Service Soon Light
- 4. Check Engine Light
- 5. Speedometer 3 in 1 Gauge w/Fuel and Volt
- 6. Nautique Digital Cruise
- 7. Keypad
- 8. Fire Extinguisher System optional
- 9. SportShift<sup>TM</sup> Hydro-Gate<sup>TM</sup> Control Handle
- 10. Shifter/Throttle Control Handle
- 11. Shift Safety Lock-out Umbrella
- 12. Neutral Warm-up Button
- 13. Auxiliary Input
- 14. 12V Port
- 15. Emergency Stop Switch
- 16. Ballast Pump Switch
- 17. Heater Switch
- 18. Steering Wheel Tilt Lever

#### NOTICE

A full description of the gauges and switches and their functions is discussed in **Section 4**.



# Section 3





# 210, 226, 230 Team Dash Pod and Console

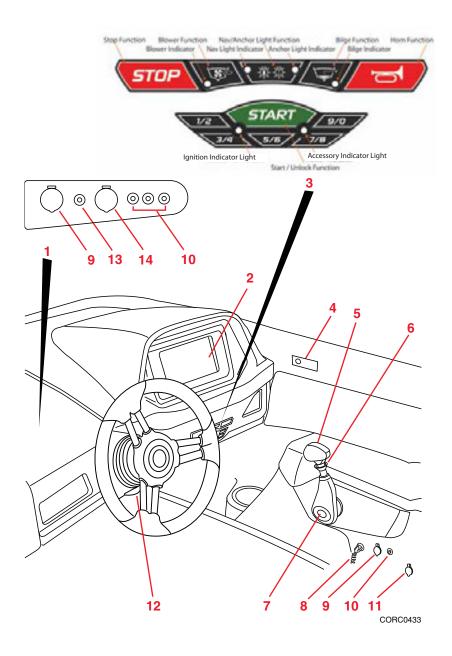
- 1. Pocket Panel
- 2. Warning and Danger Decal
- 3. RCA Video Input
- 4. USB and Auxiliary Input\*
- 5. Nautique LINC System
- 6. Keypad
- 7. Fire Extinguisher System optional
- 8. SportShift<sup>TM</sup> Hydro-Gate<sup>TM</sup> Control Handle
- 9. Shifter/Throttle Control Handle
- 10. Shift Safety Lock-out Umbrella
- 11. Neutral Warm-up Button
- 12. 12V Port
- 13. Emergency Stop Switch
- 14. Steering Wheel Tilt Lever
- \* This USB port communicates directly to the LINC and allows you to install LINC updates. It is not intended for use with MP3 players or other audio/video devices.

#### NOTICE

A full description of the gauges and switches and their functions is discussed in **Section 4**.



# Section 3





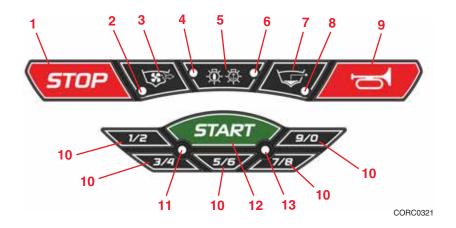
# G23 Team Dash Pod and Console

- 1. Driver's Side Glove Box
- 2. Nautique LINC System
- 3. Keypad
- 4. Fire Extinguisher System optional
- 5. Shift/Throttle Control Handle
- 6. Shift Safety Lock-out Umbrella
- 7. Neutral Warm-up Button
- 8. Emergency Stop Switch
- 9. 12-V Port
- 10. Auxiliary Input
- 11. Battery Maintenance Plug
- 12. Steering Wheel Tilt Lever
- 13. Tower Cam DVR
- 14. USB/LINC\*



<sup>\*</sup> This USB port communicates directly to the LINC and allows you to install LINC updates. It is not intended for use with MP3 players or other audio/video devices.

## Section 3



## Keypad

- 1. Stop Function
- 2. Blower Indicator
- 3. Blower Function
- 4. Navigation Light Indicator
- 5. Navigation Light/Anchor Light/Underwater Light/Courtesy Light Function
- 6. Anchor Light Indicator
- 7. Bilge Function
- 8. Bilge Indicator
- 9. Horn Function
- 10. Code Buttons
- 11. Ignition Indicator
- 12. Start/Unlock Function
- 13. Accessory Indicator



## G23, 200, 210, 226 and 230

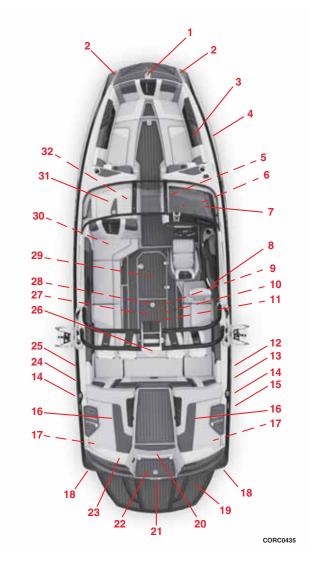
## Keys



1. Hatch Latch Key



## **G23** Deck Layout





## G23, 200, 210, 226 and 230

#### **G23**

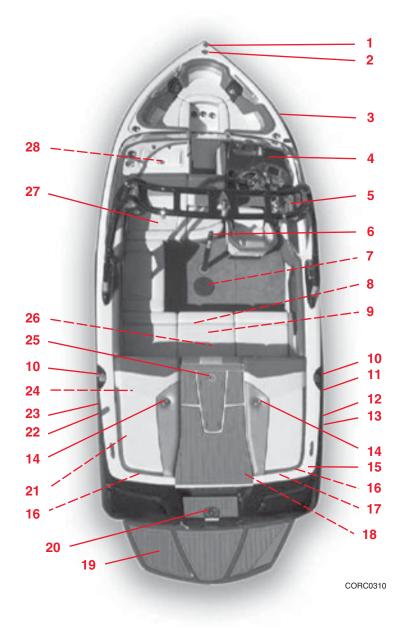
#### Description

- Bow Lifting Ring
- 2. Bow Navigation/Docking Light
- 3. 12V Port
- 4. Belly Ballast Tank Vent
- 5. Battery Selector Switch/Power Management Access (PMA)/12V Port
- 6. Driver's Glove Box/12V/Tower Cam DVR (Opt)/USM-LINC/Aux Input
- 7. Dash Pod and Console
- 8. Battery Maintenance Plug
- 9. T-Handle Drain Plug
- 10. Engine Cooling Water Intake Shutoff Valve
- 11. Engine Cooling Water Intake Strainer
- 12. Starboard Ballast Tank Vent
- 13. Forward Bilge Pump Outlet
- 14. Fuel Tank Fill
- 15. Fuel Tank Vent
- 16. Trunk Storage Access
- 17. CE Bilge Pump Filters (International Only)
- 18. Stern Lifting Ring
- 19. Boarding Platform
- 20. CE Fire Suppressor
- 21. Transom Watersports Tow Point
- 22. Aft Cooler
- 23. Rudder Port Remote Lube Fitting
- 24. Rear Bilge Pump Outlet
- 25. Port Ballast Tank Vent
- 26. Flight Control Tower Watersports Tow Point
- 27. T-Handle Drain/Seacock Access (shut-off valves, ballast intake/drain)
- 28. Batteries\*
- 29. Removable Cooler
- 30. Observer's Seat/Storage Access
- 31. Glove Box/Stereo/Auxiliary Input/12V Port
- 32. Waste Basket



<sup>\*</sup> The primary battery is on the port side and the optional secondary battery is on the starboard side. The battery selector switch is located in the PMA box under the helm.

## 200 Deck Layout





## G23, 200, 210, 226 and 230

#### 200

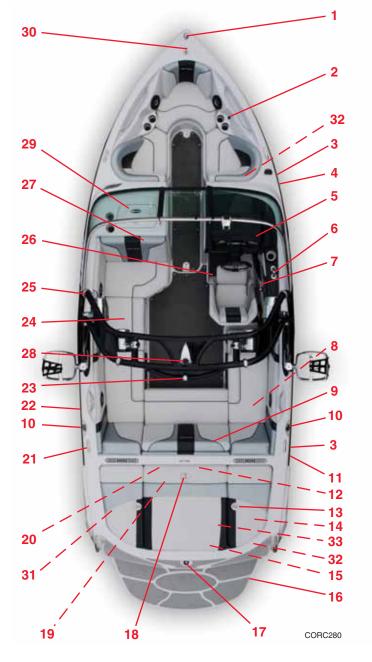
#### Description

- 1. Bow Navigation Light
- 2. Bow Lifting Ring
- 3. Belly Ballast Tank Vent
- 4. Dash Pod and Console
- 5. SportShift<sup>TM</sup> Hydro-Gate<sup>TM</sup> Control Handle
- 6. Removable Pylon
- 7. T-Handle Drain Plug
- 8. Engine Cooling Water Intake Shutoff Valve
- 9. Engine Cooling Water Intake Strainer
- 10. Fuel Tank Fill
- 11. Fuel Tank Vent
- 12. Forward Bilge Pump Outlet
- 13. Starboard Ballast Tank Vent
- 14. Trunk Storage Access
- 15. Anchor Light Receptacle (not included with Flight Control Tower<sup>TM</sup> option)
- 16. CE Bilge Pump Filter
- 17. CE Fire Suppressor
- 18. Rudder Port Remote Lube Fitting
- 19. Boarding Platform
- 20. Watersports Tow Point
- 21. Battery Circuit Panel and Switch
- 22. Port Ballast Tank Vent
- 23. Rear Bilge Pump Outlet
- 24. Battery
- 25. Engine Cover Latch
- 26. Port, Belly and Starboard Ballast Water Intake/Drain Valves
- 27. Observer's Seat/Storage Access
- 28. Glove Box/Stereo/Auxiliary Input/12V Port

The 200 is available with one battery, which is located in the port aft storage area. The battery selector switch is located under the helm.



## 210 Deck Layout





## G23, 200, 210, 226 and 230

#### 210

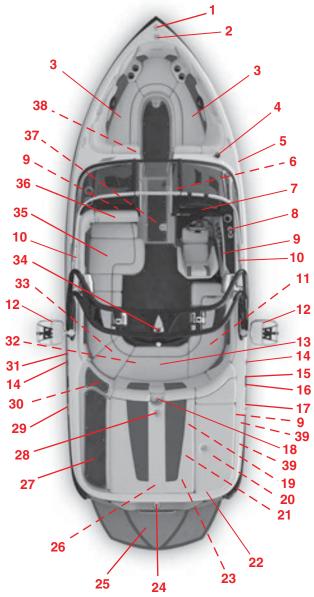
#### Description

- 1. Bow Navigation Light
- 2. 12V Port
- 3. Bilge Pump Outlet
- 4. Belly Tank Vent
- 5. Dash Pod & Console
- 6. SportShift<sup>TM</sup> Hydro-Gate<sup>TM</sup> Control Handle
- 7. Automatic Bilge Panel
- 8. Storage
- 9. Anchor Light Receptacle
- 10. Fuel Tank Fill
- 11. Starboard Ballast Tank Vent
- 12. Engine Cooling Water Intake Strainer
- 13. Storage Hatch Latch
- 14. Storage Trunk
- 15. Rudder Port Remote Lube Fitting
- 16. Boarding Platform
- 17. Stern Lifting Ring or Lift Ring Pop-Up Pylon Combo
- 18. Engine Cover Latch
- 19. Engine Cooling Water Intake Shut-off Valve
- 20. Starboard/Port Ballast Tank Water Intake/Drain Valves/Belly Tank Water Intake/Drain Valve
- 21. Port Ballast Tank Vent
- 22. Fuel Tank Vent
- 23. Flight Control Tower Watersports Tow Point
- 24. Aft Facing Flip Up Seat
- 25. Flight Control Tower
- 26. Operator's Pedestal Seat Adjustment
- 27. Observer's Seat/Storage Access
- 28. Flight Control Tower Anchor Light
- 29. Glove Box/Stereo/Auxiliary Input/12V Port
- 30. Bow Lifting Ring
- 31. Battery Selector Switch
- 32. CE Bilge Filters
- 33. CE Fire Suppressor

The 210 primary battery is under the aft port seat and the secondary battery is under the aft starboard seat. The battery selector switch is located in the PMA box under the helm.



## 226 Deck Layout



CORC0312



## G23, 200, 210, 226 and 230

#### 226

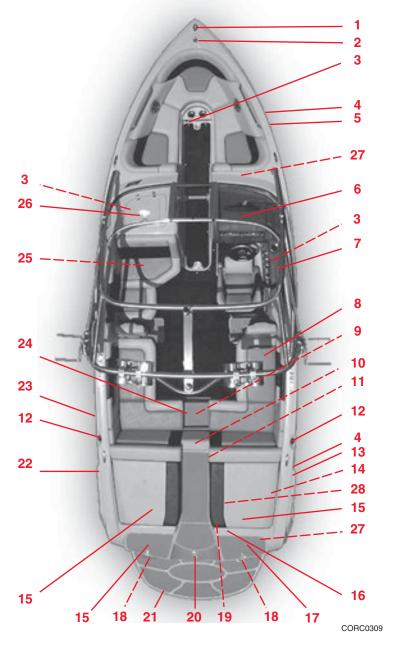
#### Description

- 1. Bow Navigation Light
- 2. Bow Lifting Ring
- 3. Storage
- 4. Cruise Control GPS Module
- 5. Belly Tank Vent
- 6. Battery Selector Switch/PMA Panel/Breaker Panels
- 7. Dash Pod and Console
- 8. SportShift<sup>TM</sup> Hydro-Gate<sup>TM</sup> Control Handle
- 9. 12-Volt Port (3)
- 10. Engine Compartment Air Intake
- 11. Removable Cooler
- 12. Tower Board Racks
- 13. Table Mount
- 14. Fuel Tank Fill
- 15. Forward Bilge Pump Outlet
- 16. Aft Bilge Pump Outlet
- 17. Starboard Ballast Tank Vent
- 18. Watersports Tow Point
- 19. Engine Cooling Water Intake Strainer
- 20. Storage Trunk/Bilge Water Filters (European market)
- 21. CE Fire Suppressor
- 22. Anchor Light Receptacle (not included with Flight Control Tower<sup>TM</sup> option)
- 23. Rudder Port Remote Lube Fitting
- 24. Stern Lifting Ring
- 25. Boarding Platform
- 26. Aft Bilge Pump
- 27. Storage Trunk
- 28. Engine Cover Latch
- 29. Port Ballast Tank Vent
- 30. Engine Flushing Adapter
- 31. Fuel Tank Vent
- 32. Built-in Cooler/T-Handle Drain/Seacock Access (shut-off valves, ballast intake/drain)
- 33. Cockpit Entrance Tread
- 34. Tower Watersports Tow Point
- 35. Flip Seat
- 36. Port Side Dash with Glove Box, Stereo
- 37. Forward Bilge Pump/Storage/Anchor Light Storage
- 38. Waste Basket
- 39. CE Bilge Filters

The primary battery is located in the port/aft storage compartment. The optional secondary battery is located in the starboard/aft storage compartment. The battery selector switch is located in the PMA box under the helm.



## 230 Deck Layout





## G23, 200, 210, 226 and 230

#### 230

#### Description

- 1. Bow Navigation Light
- 2. Bow Lifting Ring
- 3. 12V Port
- 4. Bilge Pump Outlet
- 5. Belly Ballast Tank Vent
- 6. Dash Pod and Console
- 7. SportShift<sup>TM</sup> Hydro-Gate<sup>TM</sup> Control Handle
- 8. Removable Cooler
- 9. Engine Cooling Water Intake Shutoff Valve
- 10. Engine Cooling Water Intake Strainer
- 11. Battery
- 12. Fuel Tank Fill
- 13. Starboard Ballast Tank Vent
- 14. Battery Selector Switch
- 15. Trunk Storage Access
- Anchor Light Receptacle (not included with Flight Control Tower® option)
- 17. Aft Built-In Cooler
- 18. Transom Lifting Eyes
- 19. Rudder Port Remote Lube Fitting
- 20. Pop-Up Water Sports Tow Point
- 21. Boarding Platform
- 22. Port Ballast Tank Vent
- 23. Fuel Tank Vent
- 24. Starboard and Port Ballast Tank Water Intake/Drain Valves/ Belly Tank Water Intake/Drain Valve
- 25. Observer's Seat/Storage Access
- 26. Glove Box/Stereo/Auxiliary Input/12V Port
- 27. CE Bilge Filters
- 28. CE Fire Suppressor

The 230 primary battery is under the aft port seat and the secondary battery is under the aft starboard seat. The battery selector switch is located in the PMA box under the helm.



## Standard and Optional Equipment

Nautique boats are equipped with only the finest standard and optional equipment available. Your boat's equipment will vary, based on how your boat was built. Many options can only be installed during the manufacturing of the boat and cannot be retro-fitted to boats in the field.

Not all of the standard or optional equipment's use, safety and maintenance information can be covered in this manual. You will find most of the standard and optional equipment in this manual in the section pertaining to its use and function in **Section 4**. Make sure you read and understand this manual and all the other manufacturers' literature provided in your Skipper's Kit to maximize the benefits and uses this equipment has to offer.

If you have any questions regarding the use of any equipment on your Nautique boat, contact your Nautique dealer.





# Section 4 Controls and Indicators

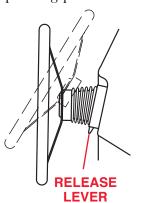
Knowing the systems, controls and indicators on your boat is essential for safe and proper operation.

**A WARNING** 

Improperly maintained controls are hazardous and may cause sudden loss of control. Make sure all steering and shift / throttle hardware, cables and fluid levels are regularly inspected and maintained. Improper maintenance may result in a loss of control, possibly causing serious injury or death.

## Steering

The steering system in your Nautique boat provides excellent maneuvering performance for pleasure boating or during watersports. Boat steering is not self-centering. Always keep a secure grip on the steering wheel to maintain full boat control. The steering wheel is equipped with a tilt lever to adjust the wheel angle to a comfortable operating position when the boat is not moving.



CORC133

## Section 4

The helm transfers rotary motion of the steering wheel to linear motion in the cable which pushes or pulls the rudder. Nautique rudders are equipped with an adjustable trim tab under license from Z-Marine (U.S. patent 5,746,147) to compensate for the torque generated by the propeller.

Maintenance for the steering system is minimal because there are few serviceable parts. The rack and pinion for the system is lubricated and sealed during manufacturing. It is the responsibility of the owner/operator to inspect the steering system frequently.

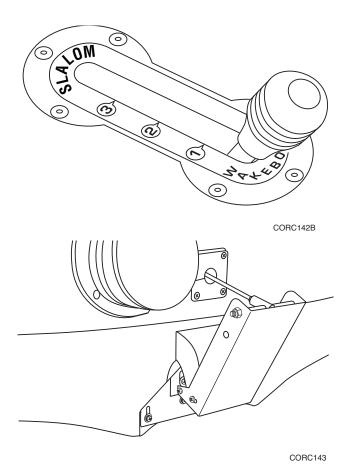
If you experience difficulty in steering, refer to Section 8 - Care and Maintenance

Hazard from improper maintenance of the controls can cause death or serious injury from sudden loss of control. DO NOT operate your boat if you suspect the steering system or control malfunctioning.

## Hydro-Gate™ Control and SportShift™- 200, 210, 226, 230

The Hydro-Gate is engaged by moving the SportShift Hydro-Gate control handle located at the helm's starboard side fore and disengaged by moving the lever aft. When the control handle is pushed forward, the Hydro-Gate is engaged, creating maximum lift for a wake with a well-defined crest and shallower ramp. When the control handle is pushed aft, the Hydro-Gate is disengaged (raised), allowing your boat to sit deeper in the water, creating the maximum wake with a steep ramp. The control handle can be placed in any position to create your ultimate wake. When used in conjunction with the Launch Control System, the SportShift and the Hydro-Gate can be used to create a wide variety of wakes to meet your style and need. The SportShift and Hydro-Gate can be used at any speed or at rest.







## Nautique Configurable Running Surface (NCRS) -G23 Only

The Nautique Configurable Running Surface (NCRS) system is an active vessel control system that uses the Nautique Hydro-Plate to change the attitude or running angle of the boat based on user setting, ballast levels, and dynamic conditions. By controlling the boat's attitude, the NCRS system aids in planing, helps keep the boat on plane in tight turns, and reduces bow rise for improved visibility. NCRS also functions as a wake shaping device. By varying the NCRS Set Point from 0 to 5, the user can transform the wake from a rounded mellow ramp to a pro level lip in seconds.

The NCRS system has two different modes: Auto Deploy Mode and NCRS Set Point Mode. In Auto Deploy Mode, the Hydro-Plate moves to NCRS Auto Deploy Position Target Percentages based on NCRS Intensity setting, ballast levels, and dynamic conditions. The target values are only active if NCRS Auto Deploy is set to ON. In NCRS Set Point Mode, the Hydro-Plate moves to a predetermined position based on the NCRS Set Point. When Auto Deploy is on, the NCRS system transitions from Auto Deploy Mode to NCRS Set Point Mode automatically based on GPS Speed. When Auto Deploy is off, the NCRS system remains in NCRS Set Point Mode.

The user has three Settings he or she can use to interact with the NCRS system, along with Speed Control On/Off which also affects the NCRS control. For most effective NCRS response, toggle Speed Control to ON. The user should ask these three questions to decide how to set the NCRS:

Do I want the Hydro-Plate to help in planing and staying on plane in tight turns?

NCRS Auto Deploy – On/Off - this allows the user turn on the Auto Deploy feature which will move the Hydro-Plate to position targets based on NCRS Intensity setting, ballast levels, and dynamic conditions or set the auto deploy feature to OFF and have the Hydro-Plate remain at the NCRS Set Point Target.



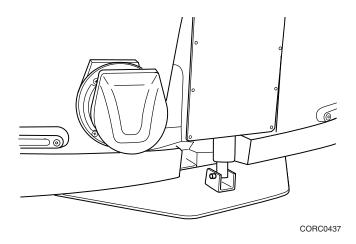
How aggressive do I want the automatic response of the Hydro-Plate to be when Auto Deploy is on?

NCRS Intensity – Low/High – The NCRS Intensity setting coupled with Current Ballast Level determines how aggressively the Hydro-Plate will deploy when in the Auto Deploy Mode of operation only; it does not affect the final NCRS Set Point.

How large/steep do I want the wake once my desired speed is reached?

NCRS Set Point – This allows the user to enter a value of 0 to 5 which controls the Wake Size/Shape by controlling the final Hydro-Plate position once the boat has reached its desired Set Speed.

- a. 0 Smallest and Most Rounded Shaped Wake
- b. 5 Largest and Most Vert Shaped Wake



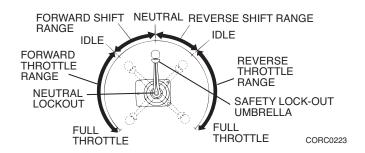


## Shifter/Throttle

Hazard from replacing your shift/ throttle control without a start-in-gear protection system can cause death or serious injury, DO NOT replace the control with a control that does not have this feature.

Your Nautique boat is equipped with a Shifter/Throttle Control Handle which features a start-in-gear protection to prevent the boat from moving when started.

A single-lever control with neutral warm-up button and safety lockout umbrella operates as both a gear shifter and a throttle control. When the throttle lever is vertical, it is locked in the NEUTRAL position for safety. Be sure the control is in NEUTRAL before attempting to start the engine. Lifting the safety lock-out umbrella and moving the throttle lever forward will engage FORWARD gear in the transmission and increase the engine RPM. Moving the throttle lever backward will engage REVERSE gear in the transmission and also increase the engine RPM.



#### 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 may occur.

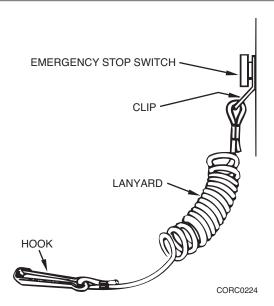


## **Emergency Stop Switch**

The emergency stop switch will stop the engine when the lanyard is pulled far enough to disengage it from the switch. Attach the lanyard to the boat operator whenever the engine is running but be aware there will be a loss of engine power if the switch is activated. If the operator is thrown from the seat, or moves too far from the helm, the lanyard will become disconnected from the switch, shutting off the engine. Refer to **Section 1** for more information.

#### **CAUTION**

DO NOT allow your boat to be operated without the proper use of the emergency stop switch and lanyard.



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.

#### **NOTICE**

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



Hazard from improper use of the emergency stop switch can cause death or serious injury. The emergency stop switch is designed to stop the engine if the operator is accidentally thrown from the helm. Attach the lanyard to the operator before starting the engine.

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.
- The lanyard must be free from obstructions that could interfere with its operation.

Once a month: Check the emergency stop switch for proper operation. With the engine running, pull lanyard. If the engine does not stop, see your Nautique dealer for service of the switch.

# Nautique Dash Pod -200, 210, 226, 230

### Gauges

RPM 3 in 1 Gauge w/Oil & Temp

- Tachometer Registers engine speed in revolutions per minute (RPM). Use the tachometer to keep the engine within the proper operating range. Consult the engine manual for the proper RPM operating range of your engine.
- Oil Pressure Measures the pressure of the engine's lubricating oil. Refer to the engine manual for normal operating pressure. Many serious engine problems are reflected on oil pressure gauge readings. If the pressure is lower than the manufacturer's specification, immediately turn off the engine. Contact your Nautique dealer to correct the problem before operating the engine.



• **Temp** - Indicates the engine coolant temperature. Refer to the engine manual for normal operating temperature. After starting the engine, check your temperature gauge for abnormally high readings. If the reading is outside the manufacturer's operating range, immediately turn off the engine. An abnormally high temperature indicates a cooling system problem. Consult your Nautique dealer when experiencing a high engine temperature reading.

#### Speedometer 3 in 1 Gauge w/ Fuel & Volt

- Speedometer Your Nautique is equipped with a precision speedometer by Faria. This gauge registers forward speed in miles per hour (optional kilometers per hour). The speedometer is equipped with an adjustment knob to calibrate speedometer accuracy. You can also use this gauge to monitor fuel consumption and propeller performance.
- **Fuel** Indicates the approximate fuel level in the fuel tank. The accuracy of the fuel guage may vary as the attitude of the boat changes; the reading is only an approximation. As a general guideline, always use the "one-third" rule. Use one third of the fuel to reach your destination, one third to return and one third as reserve fuel.
- Volts Indicates the condition of the engine's cranking battery in volts DC. With the ignition switch on and the engine not running, a reading above 12.5 volts indicates a fully charged battery. With the engine running at idle, the gauge should read between 12.5 and 13 volts. With the engine running at cruising speeds and above, it should show 13 to 14.5 volts. Have your Nautique dealer check the charging system if the voltmeter reads outside these normal ranges.

**Hour Meter** - The hour meter LCD display registers accumulated engine operating time. Time will not be logged unless the ignition switch is on and the engine is running. Use the hour meter to keep accurate logs for scheduled maintenance.



## Section 4

Engine Warning Light - Indicates high engine temperature. If light illuminates, stop engine and investigate for cause.

Service Soon Light - For quality control check. When ignition is turned on without cranking the engine, the red "check engine" light will turn on for a few seconds and then turn off. The amber "service soon" light will turn on and stay on until either the engine is started or the ignition is switched off. When the engine is running, both lights will be off. The amber "service soon" light will come on if there is a problem with the catalyst system. The red "check engine" light will come on for all other engine-related problems.

### **Speedometer Calibration**

The speedometer calibration control knob is located on the under side of the deck beneath the dash pod above the driver's right knee. Drive the boat at a known speed using a GPS or measured course and adjust the knob until the speedometer is reading correctly. Turning the knob one direction will raise the needle reading while turning it in the other direction will lower the reading.

#### Control Switches

Each electrical circuit on your boat is equipped with a control switch. The switches have an indicator light for easy ON/OFF identification. All switches are fuse protected.



## Engine Compartment/Bilge Area Blower

The "BLOWER" switch activates the engine compartment ventilation blower to remove explosive fumes from the area. The blower is turned on by pressing and releasing the "BLOWER" switch. Press again to turn off. The blower must be operated for a minimum of four minutes each time before starting the engines or generator. In addition, the blower should be operated continuously when at idle or running at slow speeds.



**WARNING Explosion and fire hazard from gasoline** vapors can cause death or serious injury from failure to check for fumes in the engine compartment or operating the blower. Before engine start-up, check engine compartment for gasoline vapors, then operate blower for at least four minutes. Operate blower whenever below planing speed.

The intakes which supply fresh air into the bilge area are located aft, at the windshield frame base. The intakes must remain clear to allow air to enter the bilge area. DO NOT drape towels or any items which may not allow air to be drawn in while the bilge blowers are operating.



The "NAV/ANCHOR" switch controls the navigation lights. The law requires the bow light and the 360 degree light (located near the stern) be turned on while running the boat after sunset or before dawn. NAV position will turn on the red and green navigation bow lights, 360 degree white stern light and gauge illumination.

**A** WARNING Blocking navigation lights can cause death or serious injury. DO NOT block the navigation lights.



## Section 4



## **Anchor Light**

The "NAV/ANCHOR" switch turns on the 360 degree light. Insert this light pole into the receptacle located near the stern and push the anchor switch on the pod to turn this light on. This light is required by law to be on after sunset and before dawn when the boat is not moving.



#### **Bilge Pump**

The "BILGE" switch turns on the bilge pump to remove excess water from the bottom of the boat. When you turn the switch on, the pumps will operate and run for several moments to "sense" if there is water in the bilge. If there is water in the bilge, the pumps remain on until the water is pumped out. If there is no water in the bilge, the pumps will turn off. If you want immediate pump action, turn the switch off and then back on again. The pumps will turn on periodically to determine if there is water in the bilge. If so, they will remain on until the water is pumped out.

The bilge switch must be turned on for this feature to operate. This will not drain significant power from the battery unless the bilge pumps are required to run frequently because of a leak or excessive rainwater. This pumping system should not be relied on over an extended period of time. Frequently inspect your boat for evidence of excessive water in the bilge area. Consult your Nautique dealer if you have any questions.

#### **NOTICE**

Trash in bilge area can damage the bilge pumps.



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



#### **Engine Warning Light**

This light indicates low engine oil pressure. The light should come on when the ignition switch is in the ON position and the engine is not running. If it stays on or comes on while you are operating the boat, the light is indicating a problem. Turn the engine OFF. Refer to the engine manual for additional information.

#### **Heater Switch-Optional**

The optional heater can be turned on through the Nautique LINC display (Team boats only) or a switch mounted on the driver's throttle panel (Nautique boats).

#### 12-Volt Port

This receptacle can be used to power and charge cellular phones, MP3 players, video cameras or other electronics. These receptacles are powered through a 10-amp breaker.

## Smart Pod – Team

## Gauges

Gauge information is displayed in the Nautique LINC System. Refer to **Section 4 - Nautique LINC System** to access the gauge display.

• Volts - Indicates the condition of the engine's cranking battery in volts DC. With the ignition switch on and the engine not running, a reading above 12.5 volts indicates a fully charged battery. With the engine running at idle, the gauge should read between 12.5 and 13 volts. With the engine running at cruising speeds and above, it should show 13 to 14.5 volts. Have your Nautique dealer check the charging system if the voltmeter reads outside these normal ranges.



## Section 4

- **Temp** Indicates the engine coolant temperature. Refer to the engine manual for normal operating temperature. After starting the engine, check your temperature gauge for abnormally high readings. If the reading is outside the manufacturer's operating range, immediately turn off the engine. An abnormally high temperature indicates a cooling system problem. Consult your Nautique dealer when experiencing a high engine temperature reading.
- **Fuel** Indicates the approximate fuel level in the fuel tank. The accuracy of the fuel guage may vary as the attitude of the boat changes; the reading is only an approximation. As a general guideline, always use the "one-third" rule. Use one third of the fuel to reach your destination, one third to return and one third as reserve fuel.
- Oil Pressure Measures the pressure of the engine's lubricating oil. Refer to the engine manual for normal operating pressure. Many serious engine problems are reflected on oil pressure gauge readings. If the pressure is lower than the manufacturer's specification, immediately turn off the engine. Contact your Nautique dealer to correct the problem before operating the engine.
- Tachometer/Hour Meter Registers engine speed in revolutions per minute (RPM). Use the tachometer to keep the engine within the proper operating range. Consult the engine manual for the proper RPM operating range of your engine. The hour meter LCD display registers accumulated engine operating time. Time will not be logged unless the ignition switch is on and the engine is running. Use the hour meter to keep accurate logs for scheduled maintenance.
- **Speedometer** Your Nautique is equipped with a precision speedometer by Faria. This gauge registers forward speed in miles per hour (optional kilometers per hour). The speedometer is equipped with an adjustment knob to calibrate speedometer accuracy. You can also use this gauge to monitor fuel consumption and propeller performance.



- **Engine Warning Light** Indicates high engine temperature. If light illuminates, stop engine and investigate for cause.
- V-Drive Warning Light Indicates low oil pressure in V-Drive. If light illuminates when the engine is in gear and above 1200 rpm, stop engine and check V-Drive oil level.

#### **Control Switches**

Each electrical circuit on your boat is equipped with a control switch. The switches have an indicator light for easy ON/OFF identification. All switches are protected by circuit breakers.

If a short is detected, the associated LED will flash on the buttonpad. To reset the circuit, turn off the offending load, stop the engine, then hold the STOP button for a couple of seconds until the flashing stops. For PDM-driven loads, or loads like the HORN that do not have a dedicated LED, the backlights flash instead.



These buttons fill and drain the ballast tank designated to the switch. Ballast tanks are an option on most Nautique boats. A full description of how these buttons function is discussed in **Section 4**, **Ballast Function**.



## Engine Compartment/Bilge Area Blower

The blower switch activates the engine compartment ventilation blower to remove explosive fumes from the area. The blower is turned on or off by pressing and releasing the button. The blower must be operated for a minimum of four minutes each time before starting the engines or generator. In addition, the blower should be operated continuously when at idle or running at slow speeds.



## **WARNING**

Explosion and fire hazard from gasoline vapors can cause death or serious injury from failure to check for fumes in the engine compartment or operating the blower. Before engine start-up, check engine compartment for gasoline vapors, then operate blower for at least four minutes. Operate blower whenever below planing speed.





## Navigation/Anchor Light

A quick press and release of this button turns on the navigation lights, and the indicator light for this button will illuminate. A press and slight hold will only turn on the anchor light and cause the indicator light to flash. A press and release of the key turns off both of the lights.

WARNING Blocking navigation lights can cause death or serious injury. DO NOT block the navigation lights.





The bilge switch turns on the bilge pump to remove excess water from the bottom of the boat. The pump turns on or off by pressing and releasing the button. There is a bilge pump near the rudder and one in the front. When you turn the switch on, the pump(s) will operate and run for several moments to "sense" if there is water in the bilge. If there is water in the bilge, the pump(s) remains on until the water is pumped out. If there is no water in the bilge, the pump(s) will turn off. If you want immediate pump action, turn the switch off and then back on again. The pump(s) will turn on periodically to determine if there is water in the bilge. If so, they will remain on until the water is pumped out.

The bilge switch must be turned on for this feature to operate. This will not drain significant power from the battery unless the bilge pump(s) is required to run frequently because of a leak or excessive rainwater. This pumping system should not be relied on over an extended period of time. Frequently inspect your boat for evidence of excessive water in the bilge area. Consult your Nautique dealer if you have any questions.

#### **NOTICE**

Trash in bilge area can damage the bilge pumps.



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

#### 12-Volt Port

This receptacle can be used to power and charge cellular phones, MP3 players, video cameras or other electronics. These receptacles are powered through a 10 amp breaker.



## Dash Pod – All Nautique Packages and All Team Packages

## **Keypad**



#### **Keyless Ignition**

The ignition switch system is keyless and has three modes of operation.

#### **CAUTION**

The keypad and switch control box will be damaged beyond repair if the boat's battery cables, the main switch control box power leads or battery charger leads are reversed. DO NOT reverse these connections.

#### Locked Mode

When the boat's battery is first connected, the unit is in locked mode. In this mode, only the horn, bilge pump, bilge blower and code keys operate.



#### **Unlocked Mode**

Unlocked mode is entered after the user successfully enters the user code, presses and releases the start key. When the code keys are pressed, the system indicator light will turn ON while the key is pressed. This indicates the key has actually been pressed. When the system is unlocked, power is supplied to the boat and the system indicator light will turn ON. At this point all keypad keys will operate and actuating these keys will control the corresponding boat functions. To put the unit back in Locked Mode, the user must successfully enter the user code, then press the STOP key. This will turn off the system indicator light and shut off power to all of the accessories except the horn, bilge pump, bilge blower and code keys.

#### Run Mode

Enter the Unlocked Mode.

Pressing and releasing the START key quickly will put the unit in Run Mode. Power is supplied to the engine ignition, but the engine will not crank and the ignition indicator light is turned ON. If the start key is not pressed again within 15 minutes, the unit will exit Run Mode by shutting off power to the ignition and re-enter the Unlocked Mode. If the user presses the START key, power is supplied to the ignition and starter until the engine starts or for a maximum of 5 seconds if the engine does not start. All accessory keys will operate in this mode. Pressing the STOP key will shut off the engine and the unit is then put back in the Unlocked Mode.

After the engine starts, release the START key.

### **CAUTION**

DO NOT hold the START key for more than 30 seconds. The starter motor can be damaged.

#### Automatic Return to Locked Mode

If no keypad activity takes place for 10 hours after unlocking, the system will automatically return to the Locked Mode to help prevent battery drain.



## Section 4

#### **Automatic Back-lighting**

Pressing any keypad key will automatically turn the keypad backlighting on for 10 seconds. This feature is useful for finding the keypad at night.

#### **Multiple Keyless Ignition Codes**

The keyless ignition system has provisions for three different ignition codes. Any of the three codes may be used to unlock or lock the system.

The "Master Embedded Code" is programmed into the system at Correct Craft, Inc. It is not changeable and remains with the boat for its life. This code can be used to unlock the system, to lock the system and to erase the two user codes.

The "Primary User Code" is programmed into the system by the owner with the Nautique dealer's help at the time of boat delivery. This code is used to unlock the system, to lock the system and to add or change the "Secondary User Code."

The "Secondary User Code" is programmed into the system by the owner when necessary. This code is only used to unlock or lock the system. The "Secondary User Code" is ideal to limit access to the boat.

#### NOTICE

To help prevent battery drain, make sure you STOP the engine and LOCK the ignition system (two steps) when you are finished using the boat.

#### **NOTICE**

The Power Indicator Light is on the left side of the START button on the keypad and the Accessories Indicator Light is on the right side.



#### **Programming the Primary User Code**

#### NOTICE

Until a Primary User Code is set, the keyless ignition does not require the entry of a code to unlock the system or start the engine. This system operates as follows:

- 1. Press START to unlock the system.
- 2. Press it a second time to start the engine.
- 3. Press STOP to turn off the engine.
- 4. Press it a second time to lock the system. The system indicator light should be OFF.

To program the Primary User Code, make sure the system indicator light is off, then press and release the 1/2 key and the 7/8 key at the same time to put the system in the Code Programming Mode. The system indicator light will flash.

Enter a code from two to eight characters and press START. For verification, re-enter the code and press START again. The system indicator light should stop flashing and stay ON. If the light does not stop flashing, press STOP and begin again.

To lock the system, re-enter either the Primary User Code or the Master Embedded Code and press STOP.



## **Changing the Primary User Code**

#### **NOTICE**

The current primary code must be used to change to another primary code.

Make sure the system indicator light is OFF.

- 1. Enter the Primary User Code, then press and release the 1/2 key and the 7/8 key at the same time to put the system in the code programming mode. The system indicator light will flash.
- 2. Enter a code from two to eight characters and press START. For verification, re-enter the code and press START again. The system indicator light should stop flashing and stay ON. If the light does not stop flashing, press STOP and begin again.

To lock the system, re-enter either the new Primary User Code or the Master Embedded Code and press STOP.

#### NOTICE

Changing the Primary User Code will erase the Secondary User Code.

## Programming or Changing the Secondary User Code

#### NOTICE

The Secondary User Code will only lock or unlock the system and can not be used for any reprogramming

Make sure the system indicator light is OFF.

- Enter the Primary User Code, press and release the 1/2 key and the 5/6 key at the same time to put the system in Code Programming Mode. The system indicator light will flash.
   Enter a code from two to eight characters and press START. For
- 2. Enter a code from two to eight characters and press START. For verification, re-enter the code and press START again. The system indicator light should stop flashing and stay ON. If the light does not stop flashing, press STOP and begin again.



To lock the system, re-enter any of the three codes and press STOP.

### **Erasing the User Codes**

Make sure the system indicator light is OFF.

Enter the Master Embedded Code, press and release the 1/2 key and the 7/8 key at the same time to erase the system user codes.

The keyless ignition will now act as if there are no codes in memory. Pressing the START key will unlock the system and pressing the STOP key will lock it without entering a code. Follow the steps in "Programming the Primary User Code" in this section.

# Nautique Digital Cruise – 200, 210, 226, 230

### Home Screen



When the ignition is turned to the ON position, the Nautique Digital Cruise gauge will flash the Nautique corporate logo until the internal software is booted up, then the display screen will show the following:

- Set Speed displays the last speed that was selected as the desired controlled speed
- ON/OFF defines if the speed control function is activated or not
- Depth displays current water depth from the keel
- Water/Air Temp automatically toggles between water and air temp
- Actual Speed displays the actual speed the boat is traveling



### **Ballast Screen**



If your boat is equipped with a ballast system, you can press and release the **SELECT** button to toggle to another screen that will display the water levels in each ballast tank.

### **Actual Speed Calibration**

The actual speed can be calibrated through the Menu Options choice entitled "Calibrate Paddle Wheel."

### **Setting Speed Control**

Press and release the **ON/OFF/MENU** button to activate the speed control function. Push the throttle control handle down towards full throttle until you hear a beep. The Nautique Digital Cruise will now allow the boat to accelerate to the set speed. To disengage the Nautique Cruise, press and release the **ON/OFF/MENU** button. Nautique Digital Cruise will still control the speed until the throttle is reduced below the set speed.

Set speed can be adjusted with the Nautique Digital Cruise on or off by pressing the  $UP/DOWN \triangle \nabla$  arrow buttons until the desired speed is displayed on the screen. This allows the user to make fine adjustments during a run or have the next desired speed set and ready for the next user.



### **Depth**

The Depth function includes an audible and visual alarm that can be set to sound when a minimal water depth is present. If audible alarm sounds, pressing the **SELECT** button will silence the alarm. The alarm resets itself when the boat enters water that is deeper than the shallow setting. Adjustments can be made to the depth setting through the Menu Option screen.

### **Menu Options**

Push and hold the **ON/OFF/MENU** button, and use the **UP/DOWN** △∇ arrows to select Scrn. Use the **UP/DOWN** △∇ arrows to select Diagnostics. Push and release the **ON/OFF/MENU** button 2 times to display system errors. Pressing the **SELECT** button will clear all current readings. Push and hold the **ON/OFF/MENU** button to exit back to Scrn or Set.

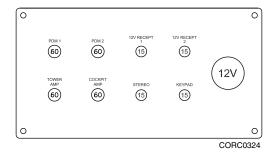
Use the **UP/DOWN**  $\triangle \nabla$  arrows to select Set. Pressing the **SELECT** button will bring up a menu that includes:

- Calibrate Paddle Wheel
- Set Depth / Alarm Level
- Back Light / Contrast Adjust
- Buzzer Volume Adjust
- Units: English, Metric
- Time Zone Adjust (remains disabled unless using GPS upgrades)
- Reserved (this is available space for manufacture upgrades)
- Can Term: On / Off (should always stay on)
- Key Entry (5 tries left) (allows for dealer upgrades)
- Ballast Display: On / Off

Use the  $UP/DOWN \triangle \nabla$  arrows to scroll through the menu. Press the **SELECT** button to choose an item and follow the instructions on the display screen to adjust the settings. Push and hold the ON/OFF/MENU button to exit back to Home Screen.



# Power Management Access (PMA) Panel (210, 226, 230, G23 only)



Your Nautique is equipped with a PMA panel to manage other components of the electrical system. It includes breakers, switches and a 12-volt port.

### Nautique LINC 2.0



### **Product Information**

The Nautique LINC 2.0 display is designed for instrumentation and control on electronically controlled engines communicating via SAE J1939 and NMEA 2000. The display is a multifunctional tool that provides GPS tracking, multimedia display, speed control, and enables equipment operators to view many different engine parameters and service codes.

NOTE: The following screen might be displayed when the unit is turned on. It provides an opportunity to begin filling or emptying the ballasts depending upon the user setting present on the device when it was shut down. Activate the **Ballast Settings** by selecting the **YES** soft key or select **NO** to continue without activating the **Ballast Settings**.





### **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 Features**

All product features are easily accessed through Quick Access Keys, Menus, and Soft Key commands.



### **Quick Access Keys**

The keys located to the left of the display provide one-button access to Home, Map, Media, Switching, Ballasts, User Profiles and Preferences.

# MENU Key 🏮

Pressing this key displays the Preferences screen and allows access to System Settings.

NOTE: The Preferences screen is unavailable while the ballasts are filling. If **YES** was selected to activate the ballast settings on the first screen, the ballast pumps must be turned off before accessing the Preferences screen.

### Soft Key Commands

Soft key commands provide additional features and navigation shortcuts. Depending upon the current screen being displayed, they may appear as an icon or text.

NOTE: The sliding effect of the soft key commands can be toggled on/off. Go to the **Preferences** screen and select **Button Slide On/Off**.

### Soft Keys

The soft keys correspond to the Soft Key Commands and activate features accordingly when pressed.



### **Quick Access Key Features**

This section describes the features accessed through the Quick Access Keys located to the left of the display.

### **Home Display**

The Home Display screen for viewing engine statistics can be accessed by pressing the Quick Access Key



Pressing or any other key launches the Soft Key Commands to overlay the right side of the display.



NOTE: The sliding effect of the soft key commands can be toggled on/off. Go to the **Preferences** screen and select **Button Slide Off**.



### Home Display - Soft Key Commands

Soft Key	Description		
(I))	<b>VOLUME UP</b> – press this soft key to increase the volume of the stereo.		
Û	<b>VOLUME DOWN</b> – press this soft key to decrease the volume of the stereo.		
Speed cunival	<b>SPEED CONTROL</b> – selecting SPEED CONTROL from the Home Display screen engages the cruise control.		
△ speed	SPEED UP – increase the target speed.		
speed	SPEED DOWN – decrease the target speed.		
change view	<b>CHANGE VIEW</b> – changes the view in the middle panel of the display while staying on the home page. Press this soft key to toggle between available views. (See complete description on following page.)		
Users	<b>USERS</b> – allows the selection of a user profile to display via the soft keys.		



### **Soft Key**

### **Description**



The **Change View** soft key toggles through the different views available on the home screen. They are:

- Engine Statistics
- Engine Hours and Air and Water Temperatures
- Map view
- Ballast view
- Video view





### **Map Display**

The Map Display screen can be accessed by pressing the key. The Map feature displays map data, latitude and longitude coordinates, depth and speed.



Soft Key	Description		
Δ	<b>UP</b> – facilitates navigating the map by moving the cross-hairs accordingly.		
$\nabla$	<b>DOWN</b> – facilitates navigating the map by moving the cross-hairs accordingly.		
Image: Control of the	<b>LEFT</b> – facilitates navigating the map by moving the cross-hairs accordingly.		
$\triangleright$	<b>RIGHT</b> – facilitates navigating the map by moving the cross-hairs accordingly.		
zoom +	<b>ZOOM IN</b> – this soft key zooms in for more detailed view of the area map.		
zoom -	<b>ZOOM OUT</b> – this soft key zooms out for a larger view of the area map.		





Soft Key	Description	
center	<b>CENTER</b> – returns the crosshairs to the center of the cursor.	
paints	WAYPOINTS – displays a list of waypoints.	
creare weypoint	<b>CREATE WAYPOINT</b> – displays a keyboard. Enter a name for the waypoint. The waypoint will be set where the cursor has been placed. You can edit the waypoint in Map Utilities.	
	Q W E R T Y L I Q P A A S D F G H J K L Z X C V B N M Inschapen	
	<b>LEFT – RIGHT – UP – DOWN ARROWS</b> – navigate the keyboard.	
	<b>SELECT</b> – places the selected letter in the space at the top of the keyboard or performs the function selected.	
	<b>SAVE</b> – saves the waypoint and the name.	
	<b>CANCEL</b> – removes the keyboard without saving waypoint or the name.	

Soft Key	Description			
clear Track	CLEAR TRACK – clears the currently displayed track.			
save // ock	SAVE TRACK – displays a keyboard. Enter a track name. The Track can be edited in Map Utilities.			
	LEET PICHT UP DOWN APPOWS povigate the			
	<b>LEFT – RIGHT – UP – DOWN ARROWS</b> – navigate the keyboard.			
	<b>SELECT</b> – places the selected letter in the space at the top of the keyboard or performs the function selected.			
	<b>SAVE</b> – saves the track and the name.			
	<b>CANCEL</b> – removes the keyboard without saving the track or the name.			
button slide DN	<b>BUTTON SLIDE ON/OFF</b> – allows or prevents the soft keys from sliding off the screen. The default is <b>Button Slide On</b> .			
zoom pan	<b>ZOOM PAN</b> – returns to the top level map and displays the <b>ZOOM IN/ZOOM OUT</b> and directional soft keys.			



### **Media Display**

The Media Display can be accessed by pressing the Quick Access Key

This feature provides universal control to the Clarion stereo mimicking all the controls of a standard remote control. Team edition Nautiques support the following multi-media:

- CD Player
- Audio in
- USB Input
- AM-FM Tuner
- Satellite

To access any one of these functions, press the **SOURCE** soft key once. Each press will scroll to the next source. If you press and hold the Source soft key it will power on or off the stereo.



### Media Display - Soft Key Commands

Soft Key	Description
(I))	<b>VOLUME UP</b> – increases the volume.
Ŷ	VOLUME DOWN – decreases the volume.



Soft Key	Description	
	<b>PREV TRACK</b> – plays the previous track of the current CD playing and other functions depending upon the input source.	
$\triangleright \triangleright$	<b>NEXT TRACK</b> – plays the next track of the current CD playing and other functions depending upon the input source.	
Mute/ pause	MUTE/PAUSE – toggles between Play and Pause modes when a CD is playing.	
source O hold	<b>SOURCE</b> – toggles between the available sources. In addition, press and hold turns stereo on/off.	
video	Video – switches unit to video mode.	

### **User Profiles**

The User Profile screen can be accessed by pressing the Quick Access Key. This feature displays rider/skier profiles containing speed and ballast settings. The unit comes preloaded with default user profiles and the ability to create additional users.





### User Profile Screen - Soft Key Commands

### **Soft Key Description**



### BACK TO DOCK -

NOTE: The following screen might be displayed when the unit is turned on. It provides an opportunity to begin filling or emptying the ballasts depending upon the user setting present on the device when it was shut down. Activate the **Ballast Settings** by selecting the **YES** soft key or select **NO** to continue without activating the **Ballast Settings**.





**EDIT USER** – provides utilities for adding new users, editing existing users.



**Soft Key Commands for Edit Profile Include:** 

**EDIT NAME** – allows the user profile name to be changed. **NEXT SETTING** – navigates to the next field.

**UP – DOWN** – toggles through the settings within the field. **CANCEL** – cancels any setting changes that have been made on the screen.

**SAVE** – saves the changes that have been made on the screen. **EDIT ICONS** – brings up soft key command to change user icon type and color.





### **Soft Key | Description**





Press the **LEFT**, **RIGHT**, **UP** or **DOWN** arrow soft keys to navigate the keyboard. Select **BACK** at the top of the keyboard to remove unwanted letters. Select **MORE CHARACTERS** to toggle capital/lowercase letters and numbers. Select **SPACE** to add a space between characters. Press the **SAVE** soft key when finished entering the name.



Press the **NEXT SETTING** soft key to navigate the settings.



Press the **UP** or **DOWN** arrow key to find the appropriate setting option. Press the **CANCEL** soft key to return to original settings. Press the **SAVE** soft key to save the modifications.



Use the **EDIT ICON** soft key to select icon and color.



### **New User Profile**

### **Soft Key | Description**





Press the **LEFT**, **RIGHT**, **UP** or **DOWN** arrow soft keys to navigate the keyboard. Select **BACK** at the top of the keyboard to remove unwanted letters. Select **MORE CHARACTERS** to toggle capital/lowercase letters and numbers. Select **SPACE** to add a space between characters. Press the **SAVE** soft key when finished entering the name.

To change the default settings, press the **EDIT USER** soft key to change the default settings (see Edit User Profile for more details on how to edit a profile). Use the **BACK** soft key in the lower left corner to return to the previous screen.

### **Switching**

The switching button is used to control the lighting. The lights that are displayed and controlled with the device are dependent upon the boat model and dealer settings. The soft keys on the right of the display navigate the screen.

In addition to controlling the lights on the boat, the other appliances that are not directly controlled by the display are shown. For example, the blower, navigation lights and bilge levels are displayed.



Soft Key	Description	
LINC bright- ness	<b>LINC BRIGHTNESS</b> – adjusts the brightness of the LINC display. Press to dim and brighten the display. The brightness levels are displayed in increments of 10.	
courtesy lights	<b>COURTESY LIGHTS</b> – turns on or off the courtesy lights.	
over- head lights	<b>OVERHEAD LIGHTS</b> – (if equipped) turns on or off tower lights.	
docking lights	<b>DOCKING LIGHTS</b> – turns on or off the docking lights. Only shown if boat model comes equipped with them and selected under Dealer Settings.	



Soft Key	Description	
under water lights	<b>UNDERWATER LIGHTS</b> – (if equipped) turns on or off the underwater lights.	
heater	<b>HEATER</b> – turns on or off the boat heater.	
features	<b>FEATURES</b> – displays the locations of key features on the boat. Press to toggle the highlighted feature. The features shown include:	
	<ul> <li>T-Handle Drain</li> <li>Bilge</li> <li>12 V ports</li> <li>AUX input</li> <li>USB input</li> <li>Battery</li> </ul>	



### **Ballast Settings**

The ballast feature allows a user to set up ballast settings for a particular skier or profile. When the skier profile is selected, the ballasts settings will be shown and the ballasts on the boat will be filled/emptied as indicated on the screen. The illustration below shows what is displayed on the screen when the Wake Pro skier profile is selected. On the right are soft keys that aid in setting up the ballast settings. The soft keys and descriptions are shown following the illustration.



Soft Key	Description	
Port fill	<b>PORT FILL</b> – turns on the pump to fill the port ballast tank.	
port drain	<b>PORT DRAIN</b> – turns on the pump to drain the port ballast tank.	
belly fill	<b>BELLY FILL</b> – turns on the pump to fill the belly ballast tank.	
belly drain	<b>BELLY DRAIN</b> – turns on the pump to drain the belly ballast tank.	
sibd fill	<b>STBD FILL</b> – turns on the pump to fill the starboard ballast tank.	
stbd drain	<b>STBD DRAIN</b> – turns on the pump to drain the starboard ballast tank.	



### Soft Key

### Description



**SET LEVEL** – displays the set level screen. Set the Port, Belly and Starboard ballast levels.



Select the ballast from the list of soft keys. Use the **UP** and **DOWN** arrow keys to set the desired ballast level. Press the **GO TO SET LEVEL** key to fill or drain that ballast. Save the set levels to the activated user by pressing the **SAVE SET LEVELS** soft key. Press the **MANUAL** soft key to return to the previous screen.



### **Preferences**

The Preferences screen is displayed when is pressed briefly. The following preferences can be set on this screen; use Next Setting to scroll to additional settings:

- Home Button Slide (turn on or off)
- Map Button Slide (turn on or off)
- Units (English or Metric)
- Brightness (in increments of 10)
- Auto Volume (Levels 1-5)
- Buzzer Volume
- Depth Buzzer
- Time Zone (GMT offset 1 to -12)
- Daylight Savings Time (on or off)
- Clock Mode (12hr or 24hr)





Soft Key	Description		
system settings	SYSTEM SETTINGS  (See Main Menu section for more information.)		
prev setting	PREV SETTING – backs up to the previous setting.		
next setting	<b>NEXT SETTING</b> – advances to the next setting.		
	UP – toggles through the available settings.		
	DOWN – toggles through the available settings.		
save	SAVE – saves changes and returns to the initial page.		

### Soft Key | Description

resetoit

**RESET ALL** – displays the reset all system settings warning.



**YES** – resets all the preferences to the default settings (excluding any user profiles).

 $\mathbf{NO}$  – cancels the reset action and returns to the  $\mathbf{Preferences}$  screen.



### **Menu Options**



The menu options are accessible by pressing the **SYSTEM SETTINGS** button on the **PREFERENCES** screen. The following features are available:

- **GPS Utilities** contains options to set up track and position, chart and time, and waypoint manager. Also displays satellite status.
- **Engine Diagnostics** displays a list of engine fault codes and descriptions; on some engines, corrective action will be shown.
- **System Information** allows you to customize the display options for ambient light and brightness, set US or metric units, specify the Home screen and screen setup status.
- **Dealer Settings** allows the dealer to select specific settings for a boat model. This area is protected and a dealer must enter a dealer code to proceed.





### Waypoint Manager

### Soft Key | Description





**LEFT – RIGHT – UP – DOWN** soft keys are used to navigate the different areas in the Waypoint Manager.

**WAYPOINTS** – provides a list of waypoints that have been set using the tracking soft keys on the GPS Navigator screens. Use the up and down arrows to select a waypoint to edit the name, select an icon, Delete or Go To on the GPS Map.

**EDIT WAYPOINT NAME** – provides a keyboard to use to edit the waypoint name.

**WAYPOINT ICON** – provides a list of icons available to use to indicate waypoints on maps. The choices are:

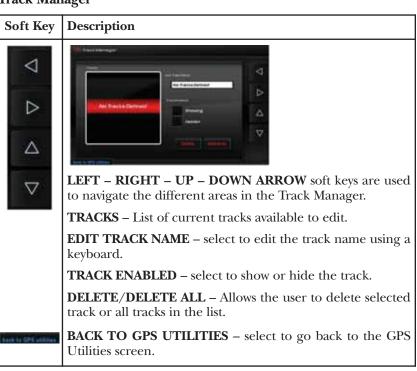
- Flag
- Fish
- Anchor
- Marina

**DELETE/DELETE ALL** – deletes either the current waypoint or will delete all in the list.



# Soft Key Description GO TO... – takes you to the selected waypoint on the GPS map. Waypoint Manager – Go to Waypoint YES – Go to waypoint on the GPS Navigator Maps. NO – Do not go to the waypoint on the GPS Navigator Maps.

### **Track Manager**





### **Chart and Time Setup**

### Soft Key

### **Description**





**LEFT – RIGHT – UP – DOWN ARROW** soft keys are used to navigate the different areas in the Chart and Time Setup.

**CHART SETUP PARAMETERS** – turn on or off available settings:

- Show Grids
- Show Text
- Show Waypoints
- Show Tracks
- Show Navigation Aids
- Show Waypoint Names

**TIME SETUP PERAMETERS** – turn on or off the available settings:

- GMT Offset
- DST Enabled
- 12 Hr Format
- 24 Hr Format.

back to GPS utilitie

**BACK TO GPS UTILITIES** – select to return to the GPS Utilities screen.



### **Depth and Position Settings**

### **Soft Key**

### **Description**





**LEFT – RIGHT – UP – DOWN ARROW** soft keys are used to navigate the different areas in the Depth and Position Settings.

**POSITION FORMAT SELECTION** – select the position from available settings:

- Degrees and Decimal Degrees
- Degrees, Minutes and Decimal Minutes
- Degrees, Minutes, Seconds and Decimal Seconds

**DEPTH CONTOUR** – select depth contour from available settings:

- All
- 66ft
- 33ft
- 16ft
- 6ft
- Off

**SAFELY CONTOUR** – select contour from available settings:

- 66ft
- 33ft
- 16ft
- 6ft
- Off



**BACK TO GPS UTILITIES** – select to return to the GPS Utilities screen.



### Satellite Status

# This view only screen gathers data on prevailing satellites and shows the proximity of each. It also displays the following information: • Longitude • Latitude • Number of Satellites • Strength BACK TO GPS UTILITIES – select to go back to the GPS Utilities screen.



### **Engine Diagnostics**



The following is a list of field definitions contained on the ENGINE DIAGNOSTICS screen:

- **Diagnostic Message** displays the diagnostic message.
- **Description** 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.
- Corrective Action suggested action for correction.
- **SOURCE** what the source of the message is.
- SPN "Suspect Parameter Number" fault code.
   If not translated into text by the display, see the engine manufacturer's literature for the definition of the SPN number.
- **FMI** "Failure Mode Indicator" fault code. The FMI is defined by SAE J1939. If not translated into text, see the SAE standard, or the engine manufacturer's literature.
- **Count** The number of times the event has been flagged.

Soft Key	Description	
٥	<b>LEFT/RIGHT ARROWS</b> – navigate through the fault list.	
get faults	<b>GET FAULTS</b> – query the engine(s) ECU for feedback on diagnostic codes that have been activated and stored in the ECU for service needs.	



### **System Information**



Component	Version	Part No.
Application	The version number of the application installed on the hardware.	The part number for the application.
OS	The version number of the operating system installed on the hardware.	The part number for the operating system.
Bootloader	The version number for the bootloader.	The part number for the bootloader.



### LINC 2.0 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.

Contact your Nautique service center.

### Display has no keypad backlight.

Contact your Nautique service center.



### Nautique LINC 2.0 with NCRS



**HOME** menu for LINC with NCRS

The primary difference with this Homescreen from the standard version of LINC is that it displays NCRS (Nautique Configurable Running Surface) related settings to the right of the speedometer.

The order of the soft keys has changed slightly from the standard version of LINC; the third, fourth, and fifth soft keys down are now Speed Setting Up, Speed Setting Down, and Speed Control On/Off (in that order).

The seventh button still displays the second menu of soft keys, but is now labeled "NCRS."





HOME menu for LINC with NCRS

The operator must press the seventh button down, labeled NCRS, in order to display the second set of soft keys, which contains 4 NCRS-related controls.





HOME menu for LINC with NCRS (with the second set of soft keys displayed)

The second set of soft keys, located on the right side, contains

- 1. River Mode
- 2. NCRS Intensity High/Low toggle
- 3. NCRS Set Point Up (Vert)
- 4. NCRS Set Point Down (Ramp)
- 5. NCRS Auto Deploy Mode On/Off toggle
- 6. Save Altered (to save an adjusted setting for the current user profile, e.g., a set speed increase)
- 7. Main (which will display the first set of soft keys again)





HOME menu for LINC with NCRS (the second set of soft keys is displayed)

This screen shows LINC with the Auto Deploy Mode on. In Auto Deploy Mode, the Hydro-Plate automatically moves up or down based on NCRS Intensity setting, ballast levels, and dynamic conditions.

When Auto Deploy Mode is on, the operator can adjust the intensity of the automatic response of the Hydro-Plate by switching the NCRS intensity to Low or High (second button down on the right).



HOME menu for LINC with NCRS (the second set of soft keys is displayed)

This screen shows the operator increasing the NCRS set point from 3 to 4. The operator can adjust the NCRS set point from 0 to 5 in order to shape the boat's wake to his/her Preference. The "0" set point creates the smallest and most round-shaped wake, and the "5" set point creates the largest, most vert-shaped wake.

The circular icon to the right of the speedometer will always highlight the selected NCRS set point. The operator can also determine the NCRS set point for a user profile in the USER menu.





HOME menu for LINC with NCRS (the second set of soft keys is displayed)

When speed control is on and the operator reaches the desired set speed, the Hydro-Plate will move to the desired NCRS set point and the circular icon will turn green to confirm this.

## Standard Equipment

#### **Watersports Tow Point**

The watersports tow point (pylon) is manufactured from highstrength metals. If the pylon becomes loose, stop using the pylon and take the boat to your Nautique dealer for service.

Misuse of the tow point can cause death or serious injury. The pylon was designed for water skiing only. DO NOT use for parasailing, kite flying, towing other boats and/or using pylon extensions; sit behind (aft) the pylon when towing skiers.

#### CAUTION

Although pylon extensions and barefoot booms have become popular additions to many tournament inboards, Correct Craft strongly objects and opposes the use of any pylon extension, whether up or to the side of any of its products. The use of pylon extensions can alter the handling characteristics of the boat, possibly resulting in dangerous instability, which could then lead to loss of control, a situation which could cause serious or fatal injury to the boat driver, passengers, skiers and anyone else who might be in the vicinity of such a mishap.



#### **CAUTION**

Correct Craft DOES NOT approve of any structural changes, additions or modifications to our products. Any time a dealer or consumer makes a change to our product, they do so at their own risk and sole liability. Correct Craft, Inc. will not be held liable for unauthorized changes, whether deletions or additions, to the original equipment / product manufactured and sold by Correct Craft, Inc., even if such changes and additions are made by an "authorized" Correct Craft Dealer, customer, promotional representative or any other person, known or unknown to Correct Craft, Inc.

#### **Bow Features of Your Nautique**

The open bow section of your boat has been equpped with either removable or hinged cushions to allow access to storage. The center section may be equipped with an optional cushion which can be removed and stored in the trunk or under the observer's seat.



#### **Driver's Seat Adjustment**

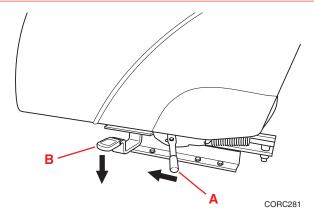
The driver's seat can be adjusted fore and aft and rotates side-toside.

To slide seat, pull the lever (A) forward, slide into position, and release the lever to secure in locked position.

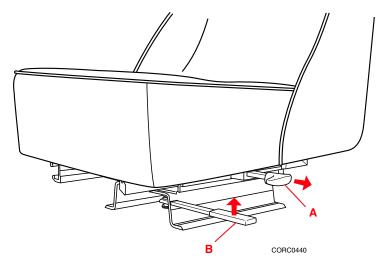
To rotate seat, push down on the lever **(B)** and rotate seat to the desired position. Release lever to lock the seat in position.

**A** WARNING

A seat or seats which are not locked in position can cause death or serious injury. Lock the seat(s) in position (fore and aft) before operating the boat.



200, 210, 226, and 230

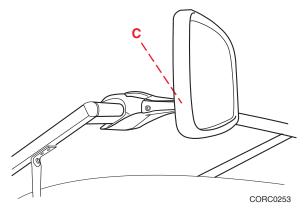


G23 Only

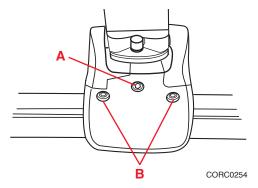
#### **Rearview Mirror Adjustment**

The rearview mirror can be positioned on the windshield to observe a skier and traffic behind you. The mirror should be lowered when trailering or when using a mooring cover. To reposition the mirror bracket on the windshield frame, loosen the three socket head screws and reposition and tighten the screws in the new location. The center screw (A) should be tightened two turns, followed by the two outside screws (B) being tightened two turns. Follow this sequence until all three screws are tight.

The mirror is installed onto the bracket with a friction clamp (**C**) to allow mirror adjustment. The friction is controlled by tightening or loosening the friction clamp bolt and manually positioning the mirror to the desired view.



FRICTION CLAMP



SOCKET HEAD SCREWS



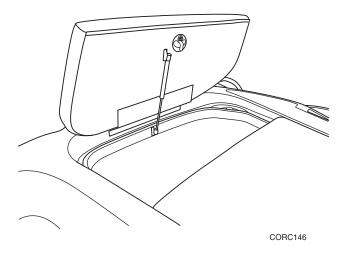
#### Observer's Seat

Lift up on the bottom of the observer's seat cushion to access storage under the bow area. You can leave the seat in the "UP" position to help dry the carpet.

#### Storage Hatch

To open the storage hatch, lift the latch and turn counterclockwise. The gas shock will help raise the hatch. To close and latch the hatch, pull down on the hatch and allow the hatch to close firmly. Make sure there are no hands, fingers or any other obstructions in the way of the hatch when you close it. To close the latch, turn the latch clockwise and fold the red dot down.

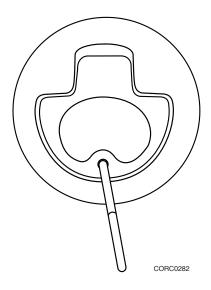
The storage hatch latch features a lock. Use the key to lock and unlock the latch. The key only requires about a 10° turn to lock and unlock.



#### **Engine Cover Hatch**

To open the engine cover hatch, lift the latch and turn counterclockwise. The gas shock will help raise the hatch. To close and latch the hatch, pull down on the hatch and allow the hatch to close firmly. Make sure there are no hands, fingers or any other obstructions in the way of the hatch when you close it. To close the latch, turn the latch clockwise and fold the red dot down.

The engine cover hatch latch features a lock. Use the key to lock and unlock the latch. The key only requires a slight turn to lock and unlock.



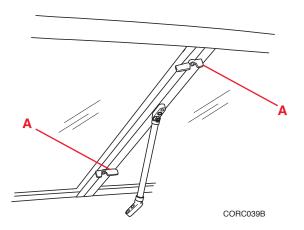
**WARNING** 

An engine guard which is not in place or contact with any moving parts can cause death or serious injury. The engine box cover is a machinery guard. DO NOT operate your boat without the cover closed and in place unless you are performing a check or maintenance. Keep your hands, clothing, hair and any other body parts away from any moving parts.



#### Walk-Thru Windshield Opening/Latching

There are two latches on the inside starboard side of the walk-thru windshield. Rotate both of the window locks (A) to secure or unlock the window. Always have window closed and secured when trailering the boat.



An open window can cause death or serious injury. Make sure both window locks are secure when vessel is in motion.

## Coolers

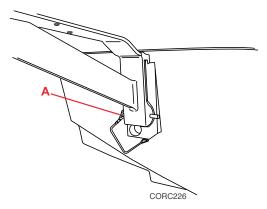
The floor coolers can be used to store miscellaneous items or drinks. There is a drain installed in the coolers. DO NOT depend on the coolers to keep valuables or electronics dry. Keep these items in a specialized dry bag.



#### **Boarding Platform**

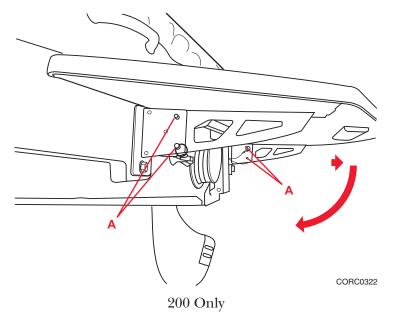
The boarding platform of your boat is a convenient feature to enhance the watersports experience. There are serious safety concerns regarding the use of the platform. Correct Craft, Inc. has placed warning labels at the driver's position, on the deck at the rear of the occupant area and on the transom. Refer to Section 1, Safety, for more information.

To remove the boarding platform, pull the pins (A) located in the mounting brackets, under the platform, and lift the platform vertically.



200, 210, 226, 230, and G23

The optional Nautique folding platform brackets allow you to fold the platform down 90 degrees for improved storage. To fold the platform, pull the lower pins, pull the platform slightly aft and lower. The platform can also be removed by pulling all four pins (A).



A spinning propeller or carbon monoxide can cause death or serious injury. DO NOT use the boarding platform when the engine is running or for any other purpose than boarding the boat or preparation for entering the water.

The boarding platform must be attached when the boat is in use.

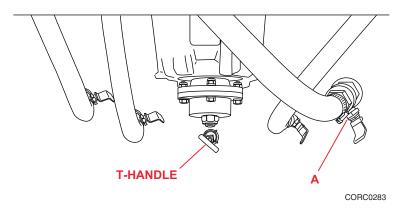


## **Engine Cooling Water Intake Valve**

Your Nautique is equipped with a valve (seacock) on the engine cooling water intake. The handle has a slide mechanism to prevent the valve from being shut off inadvertently. The valve is used to shut off the water supply in the event a hose failure or water leakage occurs. The valve is open when the blue handle is in-line with the valve body and the valve is closed when the handle is perpendicular to the valve body. Leave the valve open at all times unless an emergency condition requires you to close the valve to stop a leak or the possibility of a leak.

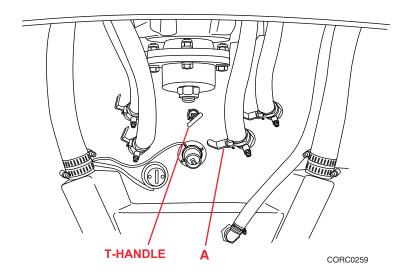
The valve is located fore of the engine compartment. If your boat is equipped with a ballast system, the engine cooling valve (A) will be the larger valve with a red locking handle. The valve can be accessed through openings under the aft cockpit seat.

#### 200

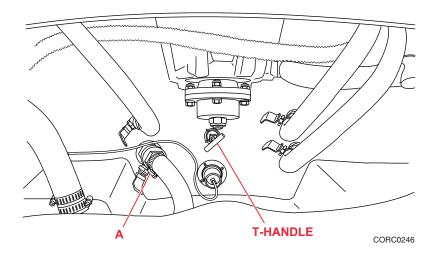


# S∈ction 4

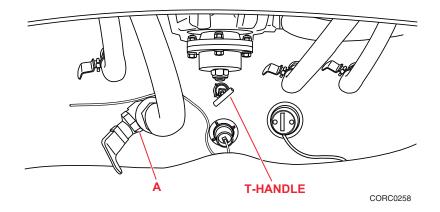
#### 210



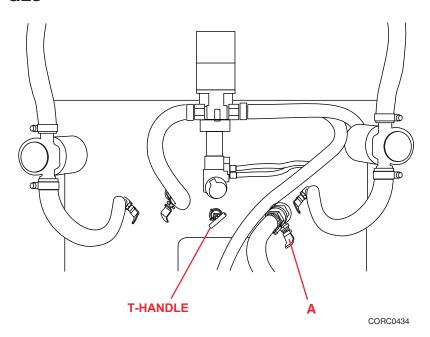
#### 226



#### 230



#### **G23**



#### **Fuel Tank**

There is a fuel tank fill cap on the port and starboard side for added convenience. Press and release the black button on the bottom of the cap to open. Use caution when fueling your boat.

Avoid overfilling of the tank by monitoring the fuel level gauge while fueling. Turn on the ignition without starting the engine and monitor the gauge. Stop fueling as the gauge approaches the 'full' level and turn off the ignition when finished. Fuel spillage on our waterways will pollute our environment.

The fuel tank is located beneath the cockpit deck, in the center of the boat. To inspect the hose connections, raise the access panel. Your Nautiques dealer should perform all fuel tank service.

# Explosion or fire can occur under certain conditions, causing death or serious injury:

- Turn the engine OFF.
- DO NOT smoke or allow open flame or sparks within 50 feet (15 meters) of the refueling area.
- DO NOT refuel unattended, avoid contact and spilling.
- DO NOT refuel indoors.
- DO NOT use a plastic funnel.
- DO NOT allow any spilled fuel to remain on your boat's finish.
- DO NOT allow a fuel system problem to go unchecked.
- Always maintain contact with the fuel nozzle and the fuel tank to prevent electrostatic spark.



#### **Battery Charger – Optional**

Nautique offers battery charging systems for single- and dual-battery applications. The exact battery charger model required for your boat will depend on the number of batteries your boat is equipped with and the specific electrical requirements from the country in which your boat will be operating. Because of the wide variance in electrical plug configurations used in each country, all boats built for use outside the United States will require your Nautique dealer to install the proper electrical plug on the battery charger AC supply cord. Your Skippers Kit will contain a manual from the battery charger manufacturer that explains the proper wiring requirements for each system as well as instructions for safe operation of the charger.

#### **Battery Selector Switch**

The battery selector switch allows you to isolate the boat from the batteries, and switch from one battery to the other, or even operate on both batteries. The identification of each battery as well as the position allowing both to be used may differ depending on the switch manufacturer, however, with any switch it should be easy to determine how to select the desired configuration.

Under normal conditions, the switch should be set to one battery or the other and almost never to the position for both batteries. This will keep one battery in reserve should the other fail. Battery selection should be done when the engine is off. Alternate batteries daily. The switch can also be set to a position that turns off both batteries isolating the boat from the batteries.

#### **Nautique Electrical System**

To ensure proper electrical system boot up when using the battery switch, please wait at least 30 seconds after turning the switch on before entering the user code and starting the boat. Failure to do this can disrupt the Accessory circuit causing the LINC display, Stereo, Zero Off, and various electrical components not to turn on. If the operator accidentally disrupts the Accessory circuit, press and hold "Stop" for 2 seconds; then restart the system to regain functionality of the Accessory circuit and the components dependent upon it.



#### 5∈ction 4

#### **WARNING**

Avoid the possibility of personal injury or death from an explosion and/or fire. Never operate the boat with only one battery installed and the Battery Selector Switch set to the position for both batteries. The positive battery cable end of the missing battery will be at full battery voltage and could short out against metal components possibly causing an explosion and/or fire.

#### Folding Instructions for Flight Control Tower® - Optional

WARNING Crush hazard. The Flight Control Tower is heavy. Use care to fold or unfold the tower.

#### 226 - Flight Control Tower®

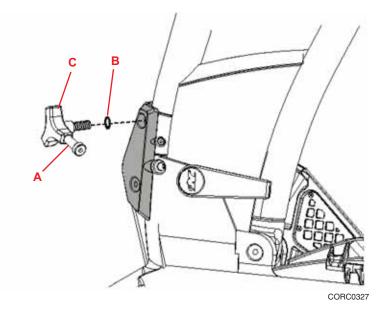
The Flight Control Tower Series 5 has two folding positions. The first folding position allows the tower to be folded enough to pass under a bridge, but allows for space at the helm for the driver to operate the boat. The second folding position folds deeper into the boat to provide better clearance for garage storage.

To Unlock the Tower Folding Mechanism

Turn the Tri-Lever handles counterclockwise and remove from heel block.

NOTE: Retain the two each Nord-Lock washers (B). If needed, the shoulder bolt (A) stored in the Tri-Lever handles (C) can be removed and reinstalled in the threaded hole in one of the handle knobs to provide more torque.





#### To Torque the Handles

- 1. Remove the shoulder bolt from the stowed position (A).
- 2. Insert the shoulder bolt into the Tri-Lever handle (B).



To Lower Tower for Bridge Clearance

Support the tower. Push the lock handles (A) down and rotate fully, until they stop. Gently lower the tower, ensuring it does not make contact with anybody or part of the boat until the tower rests on the bridge block (B).

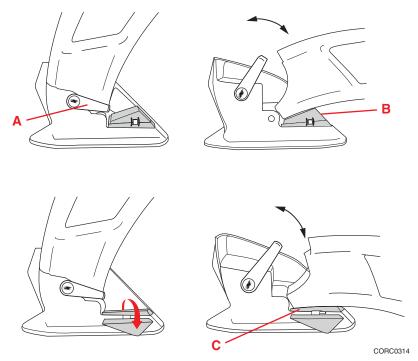
#### To Lower Tower for Garage Storage

Support the tower. Push the lock handles (A) down and rotate fully, until they stop. Fold the top half of the bridge block inboard. Gently lower the tower, ensuring it does not make contact with anybody or part of the boat until the tower rests on the garage block (C).

#### To Raise Tower

Make sure the handles (A) are in the fully open position before raising the tower. Slowly raise the tower into position, making sure nothing interferes with a smooth seating.

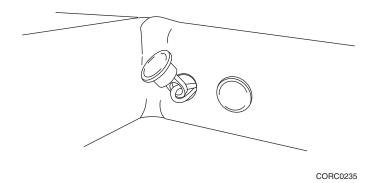
With the tower in the fully upright position, turn the lock handles (A) upward until they stop. The handles will be horizontal when locked properly. Re-install the Tri-Lever handles.



If your tower is equipped with the optional tower speakers, they can be adjusted for redirection of sound by loosening the speaker mounting hardware and adjusting. Make sure the hardware is securely tightened after it is loosened.



Nautique towers are pre-wired so audio speakers can be added to the tower. The plugs have a "fish line" to retrieve speaker wires through the towers.



#### 210, 230 and G23 - Flight Control Tower®

Folding the Tower Down

- 1. If the tower is equipped with a bimini top, the top may have to be released to allow it to fold or be removed completely in order to fold the tower.
- 2. Pull handles out.
- 3. Unlock the latch by pulling the handle up. Ensure that the handle is rotated the entire way as this will reset the latch.
- 4. Push the top of the tower forward to begin folding. Use caution; as the tower begins to fold there will be some weight the user has to hold. The gas springs assist, but do not make the tower completely weightless.

NOTE: There are different weights of the gas shocks required for different tower accessory loads. Please see your dealer to upgrade the gas shocks if you add any tower accessories.

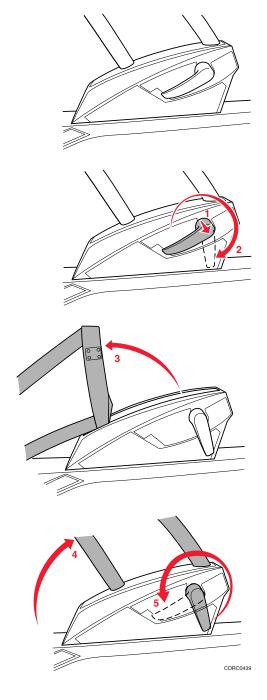


#### Folding Tower Up

- 1. Use caution when folding the tower into the upright position; there are pinch hazards where the upper section of the tower folds into the lower section of the feet.
- 2. Lift from the center of the tower and stand the tower to the upright position.
- 3. Make sure that the handles are rotated all the way to the open position to reset the latch.
- 4. Rotate the handles until the latch pulls down the rear of the tower feet and latches. There should be an over-center feel when the handle reaches its final position.
- 5. Push the handles in to lock them in place.

NOTE: Nautique installs gas springs into each tower to control the weight of the tower while folding based on the anticipated optional accessories. Please contact your dealer for assistance if the accessory package is changed.







#### 200 - Flight Control Tower®

Remove all boards from the board racks prior to folding the tower. Make sure to support the tower before unlocking the tower lock handles.

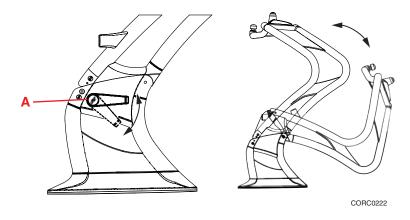
#### To Lower

Support the tower. Push the lock handles (A) down and rotate fully, until they stop. Gently lower the tower ensuring it does not make contact with anybody or part of the boat.

#### To Raise

Make sure the handles are in the fully open position before raising the tower. Slowly raise the tower into position making sure nothing interferes with a smooth seating.

With the tower in the fully upright position, turn the lock handles (A) upward until they stop. The handles will be horizontal when locked properly.

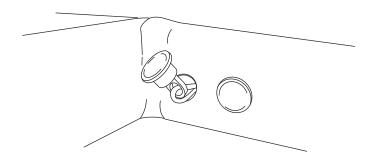


#### NOTICE

DO NOT leave the tower speakers facing forward while the boat is underway or trailered. Make sure they are facing aft and secured.

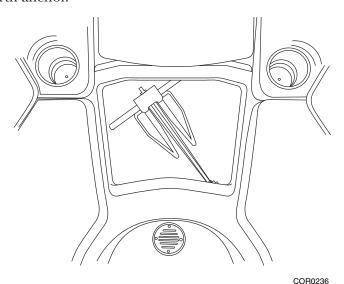
If your tower is equipped with the optional tower speakers, they can be adjusted for redirection of sound by loosening the speaker mounting hardware and adjusted. Make sure the hardware is securely tightened after it is loosened.

Nautique towers are pre-wired so audio speakers can be added to the tower. The plugs have a "fish line" to retrieve speaker wires through the towers.



## **Anchor Storage Locker (226 only)**

Your Nautique features an anchor storage locker to support a danforth anchor.

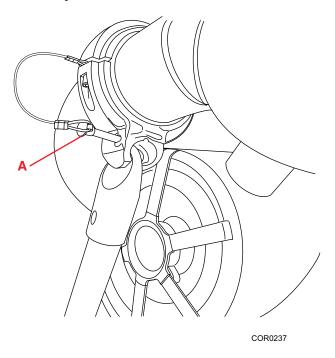


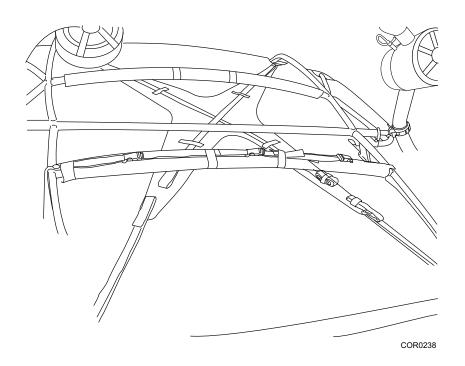


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#### **Bimini Top**

Your Nautique may be equipped with a bimini top which can be used for securing lighter watersports equipment. The top can be tilted by removing the aft pins (A) and allowing the top to tilt, to load the equipment. Make sure the equipment is secured before getting underway. DO NOT exceed 90 lbs. (40.8 kg) or trailer with equipment on top.





#### **Ballast Function**

#### **Team Package**

Ballast fill and drain functions are described on page 4-27 (Nautique LINC 2.0).

#### Nautique Package

**To fill:** Turn the ballast tank switch for the tank you wish to fill (located on the throttle panel) to the ON position. The LED will illuminate and the pump will begin to fill the tank. An automatic timer will turn the pump and LED indicator light off after a preset time that matches your tank size. The Nautique Cruise display will measure the water level in each tank.

**To drain:** Turn the ballast tank switch for the tank you wish to fill (located on the throttle panel) to the OFF position. The LED will illuminate and the pump will begin to drain the tank. An automatic timer will turn the pump and LED indicator light off after a preset time that matches your tank size.

## Optional Accessories

#### Stereo and Speaker Pods

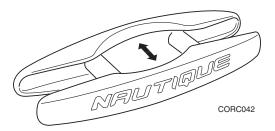
All Nautique boats are stereo ready and include an auxiliary input. They have been pre-wired for your Nautique dealer to install a stereo. Nautique boats come with a Clarion stereo with Polk Audio speakers. Tower speakers can be purchased as an option. Digital remote controls can be mounted on the transoms of all boats and on the lower left side of the dash pod in boats that do not have Nautique LINC Systems. The digital remote control displays all necessary control functions at your fingertip. See your Nautique dealer for the stereo configuration for your boat.

The audio speakers of your Nautique boat are designed to deliver maximum fidelity in a marine environment. The speakers can be damaged if struck by a sharp object or if the moving elements are restricted from movement. Do not store or place any sharp objects near the speakers, or restrict element movement.



Optional accessories are available from your Nautique dealer. Your dealer may have a wide range of other accessories available to enhance your watersports or pleasure boating experience. Contact your Nautique dealer for more information. Here is one fine accessory Nautique offers:

• Pull-out Cleats



## **NOTES**





# Section 5 Boat Systems

Knowing the systems, controls and indicators on your boat is essential for safe and proper operation.

**A WARNING** 

Systems which are not inspected regularly or maintained can cause death, serious injury or damage to product. Inspect and maintain all systems to prevent unexpected hazards associated with worn or faulty components.

When replacement parts are required, use marine grade parts with equivalent characteristics, including type, strength and material.

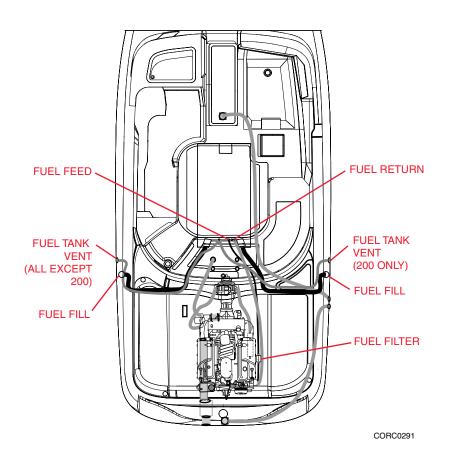
Marine grade parts are designed specifically for the conditions and environment they are exposed to. Using substandard parts could result in injury and product failure.

## Fuel System

The fuel system consists of a built-in fuel tank, a port fuel fill, a starboard fuel fill, a fuel tank vent, an in-line filter and a sending unit to measure fuel level.

Your Nautique boat's fuel system complies with current EPA and CARB requirements including low permeation fuel tanks.

The fuel tank is located under the cockpit floor. To inspect, lift aft seat base and removable section of the cockpit floor.





## Ballast Tanks and Bilge System

#### NOTICE

The Federal Water Pollution Control Act prohibits the discharge of oil or oily waste into the water. Violators can be fined \$5,000.00.

Do not allow water to accumulate in the bilge area of your boat. When the boat is in use, make sure the bilge pump is turned on. The bilge pump is an automatic pump that tests for the presence of water every two to three minutes and pumps until the water is removed. If the pump is in between detection cycles, the detection mode can be bypassed to operate immediately by turning the switch off and then back on. Remember, the engine and other parts of the drive system could be damaged and there is also a risk of personal injury as increasing water level will adversely affect the handling and maneuverability of the boat.

#### **CAUTION**

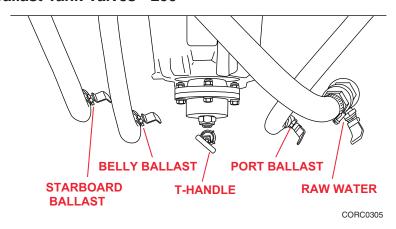
The risk of personal injury from excess water in the bilge area will adversely affect the handling and maneuverability of the boat. Also, damage to the engine and other parts of the drive system can occur from the additional water. DO NOT allow the bilge pump to operate after all the water has been cleared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

European market boats include filters in the bilge drain hoses. These filters are designed to reduce the amount of contaminated bilge water being drained into waterways. The filters are installed in the bilge pump drain hoses. Refer to **Section 3, Deck Layouts** for model-specific locations. Follow the filter manufacturer's recommendations on when they must be replaced.

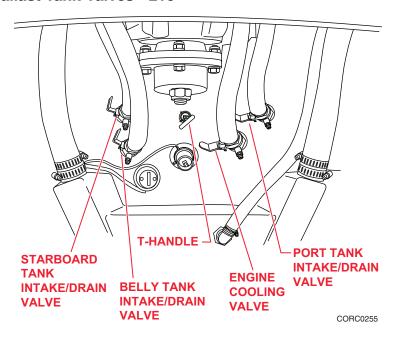
See page 8-3 in **Care and Maintenance** for more information regarding bilge filters.



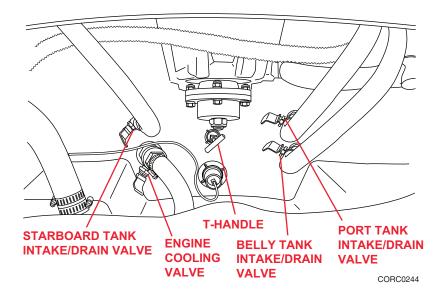
#### **Ballast Tank Valves - 200**



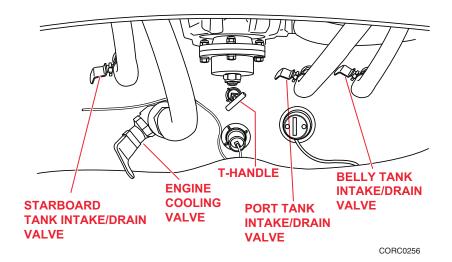
#### **Ballast Tank Valves - 210**



#### **Ballast Tank Valves - 226**

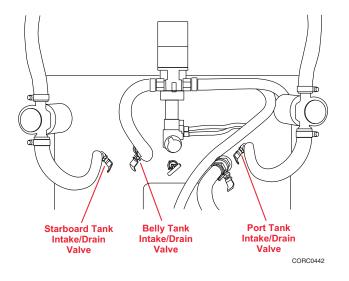


#### **Ballast Tank Valves - 230**



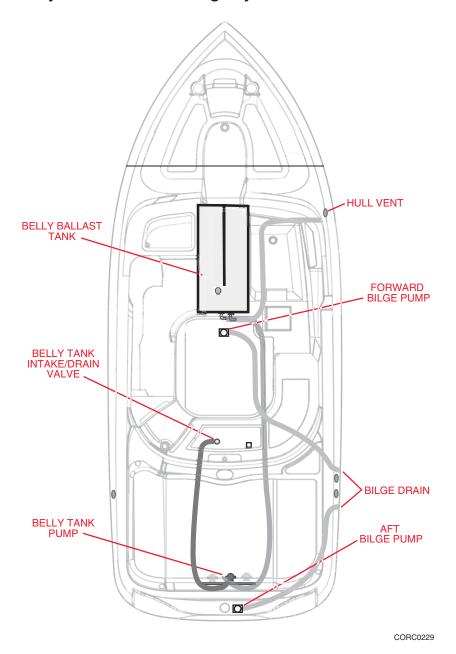


#### **Ballast Tank Valves - G23**



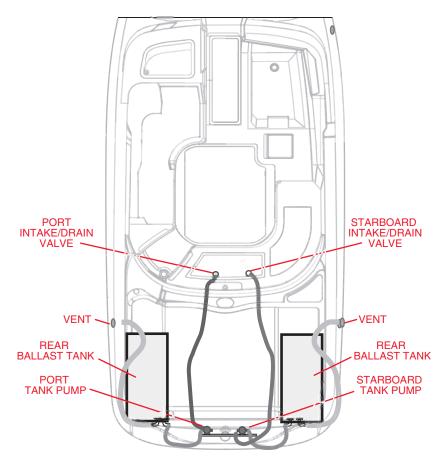


# Belly Ballast Tank and Bilge System





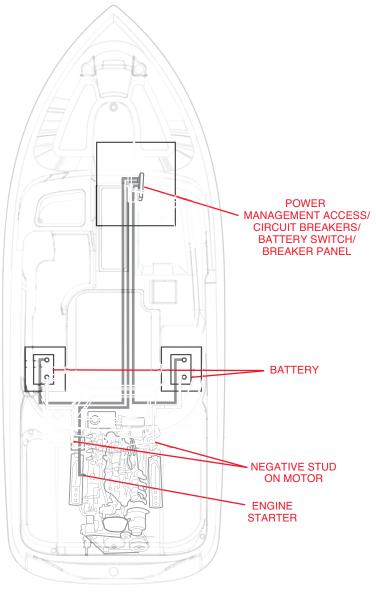
#### **Port and Starboard Ballast Tanks**



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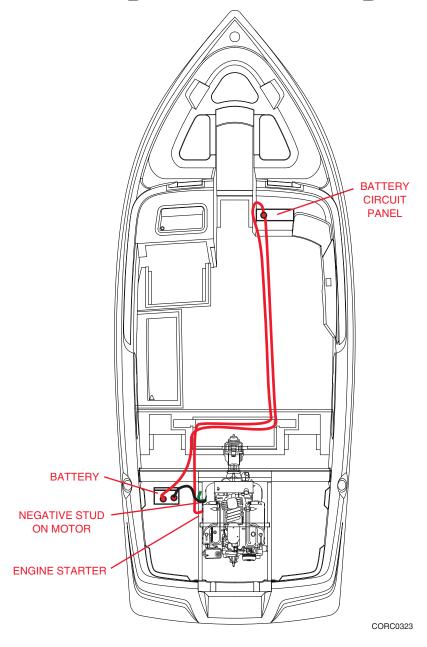
# I2-Volt System – 210, 226, 230, G23 Only



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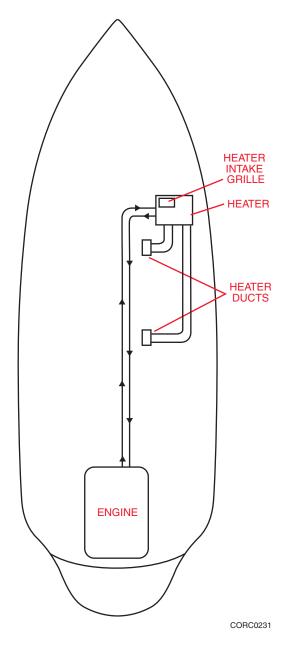


# I2-Volt System - 200 Only





# **Heater System - Optional**





# Section 5

The heater system has a heating core, ducts, diffusers and a high-speed fan to deliver heat to the cockpit and windshield. The duct diffuser at the windshield can be closed and rotated to direct air flow. The floor ducts can also be closed to control air flow. The aft duct and diffuser can be pulled out of its socket to direct flow in other locations of the cockpit. The heating unit is located under the driver's dash pod.





# Section 6 Getting Underway

There are many things to consider to make your boating trip safe and enjoyable. You are responsible for the safety of all passengers, the boat and any damage the boat or its wake may cause. 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.

# Safety Checklist

Operating the boat if any problem is found during this inspection can cause death or serious injury.

DO NOT operate the boat if any problem is found during this inspection.

Problems found during this inspection should be handled by your Nautique dealer.

The following checks are essential to safe boating and must be performed before starting the engine.

- Check the weather report, wind and water conditions.
- Check that required safety equipment and PFDs are on-board and in proper operating condition.
- Check that the fire extinguisher is fully charged.
- Be sure the boat is not overloaded.
- Be sure the operator's visibility is not obstructed.
- Check that all maintenance has been performed.
- Raise the engine cover and smell for the presence of fuel vapors. If fuel vapors are detected, DO NOT OPERATE BOAT until the source of the vapors has been identified and corrected by a qualified Nautique Dealer service technician.

# 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 the federal requirements.

# Fueling

# A DANGER A

Explosion or fire hazard. Gasoline is extremely flammable and highly explosive under certain conditions. Turn the engine OFF and DO NOT smoke or allow open flames or sparks within 50 feet (15 meters) of the fueling area. Check your boat for fuel leaks and fumes before, during and after each use. Maintain contact between the fuel nozzle and the fuel tank to prevent electrostatic spark. DO NOT use a plastic funnel.

### **CAUTION**

To prevent engine damage not covered by warranty, refer to your engine operation and maintenance manual for recommended fuel type and octane rating.

Take care not to spill gasoline. If gasoline is accidentally spilled, wipe up all traces of it with dry rags and immediately dispose of the rags properly ashore. Spilled fuel may "yellow" the gelcoat finish and damage gunwale trim.



# **Getting Underway**

#### **Gasoline Containing Alcohol**

#### CAUTION

DO NOT use any gasoline that contains METHANOL. This fuel is very corrosive and will create unsafe operating conditions to the boat's fuel system and serious damage to the engine. Any engine damage caused by the use of methanol will not be covered by the engine's warranty.

The implementation of ethanol-based fuel is spreading rapidly throughout the United States. As such, PCM Engines and Nautique provide the following information regarding the use of this fuel. This information addresses the use of ethanol fuels in PCM Engines and Nautique boats.

#### **CAUTION**

Use of ethanol blended fuel rated E10 or less is acceptable. DO NOT use fuels rated higher than E10. Ethanol fuels rated higher than E10 could potentially damage the engine and/or present an unsafe boat fuel system. Damage to the engine resulting from the use of ethanol fuel rated higher than E10 IS NOT covered by the engine's warranty.

If ethanol blended fuel rated E10 or less is used, or if the presence of alcohol is uncertain, inspections and service of the complete fuel system are required more frequently. Any sign of fuel leakage or deterioration must be repaired immediately before further engine operation. It is also important to know that ethanol blended fuel will act as a solvent and will attract and hold moisture.

#### **NOTICE**

Fuel system or engine damage caused by contamination from water, foreign particles, sludge, or gums entering or forming in the fuel system is not covered by the engine's limited warranty.



# Section 6

Without proper fuel filtration or fuel stabilization, ethanol blended fuel may cause the following:

- Excessive moisture (water) can cause lean operation, hard starting, and operating difficulties such as vapor lock and low speed stalling, and can reduce fuel shelf life.
- Ethanol blended fuels acting as solvents can cause gum, sediment, sludge and other particles to be loosened and carried through the fuel system to the engine.

#### Fuel Stabilizer Recommendations for Ethanol Blended Fuels

The use of a commercially available fuel stabilizer, such as STA-BIL®, is recommended when storing ethanol blended fuel for more than two weeks.

#### When Fueling:

- 1. Avoid fueling at night, except under well-lighted conditions. Also avoid overfilling of the tank by monitoring the fuel level gauge while fueling. Turn on the ignition without starting the engine and monitor the gauge. Stop fueling as the gauge approaches the 'full' level and turn off the ignition when finished. Fuel spillage on our waterways will pollute our environment.
- 2. Moor your boat securely to the dock. Know the location of the fire extinguisher in case of emergency.
- 3. Close all doors, hatches, windows and other compartments.
- 4. Extinguish cigarettes, pipes, and all other flame producing items.
- 5. Make sure all power is OFF, and DO NOT operate any electrical switches.
- 6. Add fuel in accordance with the engine operator's manual. DO NOT overfill, and allow enough room for fuel expansion.
- 7. Refer to engine operator's manual for correct octane level recommendations for your vessel's engine type.



# **Getting Underway**

#### After Fueling:

- 1. Tighten the fuel filler cap. Wipe up any spilled fuel.
- 2. Check all fuel lines, hoses and connections for leaks and deterioration.

#### NOTICE

Each time you refuel, inspect all fuel lines, hoses and connections for leaks and deterioration.

# **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 the gear on the dock, board the boat and then pick up the gear.

Use the boarding platform to board from the water. To prevent injury, make sure the engine is OFF when swimmers, divers and skiers are boarding or even near the platform.

# **Boat Planing**

The performance of your Nautique boat depends on load weight and distribution. DISTRIBUTE WEIGHT EVENLY, from bow to stern, and also from port to starboard.

Overloading of passengers, personal equipment and supplies could result in an accident, especially in rough waters.

If your boat is equipped with a ballast tank or loaded, loss of horizon may occur when you begin to plane your boat. Get on plane immediately to restore the vision of your path. DO NOT operate your boat if the loss of horizon prevents you from operating it safely.



# Pre-Operation Checks

It is the owner's responsibility to check all of the items listed below to be certain all preparation steps are completed before you use your boat. Checking these items periodically will soon become a habit. If leaks or other abnormal conditions are found, stop using the boat and contact your Nautique dealer to have the problem corrected.

Get into the habit of performing these checks in the same order each time so that it becomes routine.

- Make sure to check all safety items.
- Check that drain plug is properly installed.
- Check condition of propeller.
- Check that all batteries are fully charged and at the proper level.
- Verify the amount of fuel in the fuel tanks.
- Be sure the lights, horn, bilge pumps and other electrical equipment are in operating condition.
- Check that steering system operates properly.
- Make sure your float plan is submitted to a responsible person.
- Refer to your engine operation and maintenance manual for additional pre-operation checks.



# **Getting Underway**

The following instructions are very important:

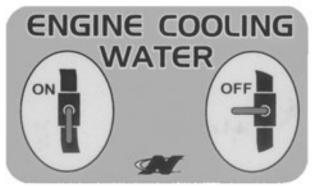
- Raise the engine hatch all the way up. Check to see if all the engine drain plugs are in place. Make sure the hull drain plug (T-handle) in the bilge area is installed.
- Look at all the hoses to make sure they are installed and the hose clamps are tight. Close the engine hatch and turn on the engine compartment blower. Run the blower at least four minutes to remove fuel vapors that might be in the bilge area and engine compartment before starting engine. Remember, if you have detected the presence of fuel vapors, do not start the engine until the source has been determined, problems corrected and vapors removed.
- Check all gasoline line connections. Connections are located at the fuel tank, the fuel control cell and the fuel injection system. All Nautique boats are equipped with anti-siphon valves on the outlet fittings of the fuel tanks to reduce the chance of fuel siphoning from the fuel tank if a fuel hose leaks or is severed.
- Fill the fuel tank and check for leaks. Check again for leaks after the engine has run for a few minutes.



# Section 6

#### Checklist before starting boat:

- 1. Engine oil level boat must be level.
- 2. Transmission oil level boat must be level.
- 3. Shifting linkage and detent in forward, neutral and reverse.
- 4. Leaks (water, fuel and oil).
- 5. Coolant level (closed cooling system).
- 6. Operation of the throttle and transmission shift control.
- 7. Battery condition.
- 8. Visually inspect for any loose mounting fasteners.
- 9. Verify the emergency stop switch located by the throttle is fully functional and the lanyard is not frayed or damaged. Clip the safety lanyard securely to your body. Keep it attached at all times while you are driving.
- 10. Check that engine cooling water (raw water) valve is open and raw water strainer is clean.



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• Once the boat is in the water, visually check for water leaking at the stuffing box. There should be no leakage from the "dripless stuffing box." If the "dripless stuffing box" is leaking, pull the boat out of the water and have your Nautique dealer service the stuffing box.



# **Getting Underway**

• Make sure there are no ropes, gear bags, arms/legs near the belts and pulleys of the engine. Severe injury can result by becoming entangled in the belts of the engine while it is running. Make sure the boat is deep enough in the water to supply the water intake with water to cool the engine. Move the throttle into the NEUTRAL "straight up" position.

Fire or explosion hazard from fumes accumulating in bilge area. Ventilate the engine compartment by running the blower for four minutes, especially after repairing or refueling and check for fuel spills or leaks.

• Close the engine cover.

An engine guard which is not in place or contact with any moving parts can cause death or serious injury. The engine box cover is a machinery guard. DO NOT operate your boat without the cover closed and in place unless you are performing a check or maintenance. Keep your hands, clothing, hair and any other body parts away from any moving parts.

• Start the engine.

#### CAUTION

DO NOT continue to operate the starter for more than 30 seconds without pausing to allow the starter motor to cool off for five minutes. This allows the battery to recover between starting attempts.



# Section 6

In order to prevent personal injury to you or others, the engine cover must be closed whenever the engine is running.

- DO NOT operate the engine with the engine cover open or while someone is in the area of an open engine cover.
- DO NOT open the engine cover unless the engine is turned OFF and rotating parts are stationary and remain in a stationary position.

IT IS RECOMMENDED THAT ALL WORK ON THE ENGINE BE DONE BY TRAINED AND QUALIFIED SERVICE PERSONNEL.

During the warm up period, check the gauges for correct and normal operation of all the systems:

- Oil pressure 35-80 psi, approximately at 2000 rpm
- Cooling water flow and water temperature 140-170°
- Cooling water temperature for fresh water systems: 170-210°
- Volts should rise to around 13-14V or higher
- Idle rpm (600-700) in gear

#### **CAUTION**

DO NOT operate at high rpms in NEUTRAL.

DO NOT shift into forward or reverse at engine speeds above idle rpms.

DO NOT operate the engine without a cooling water supply.

Damage to the water pump impeller and engine can occur. If the engine does not start, refer to Section 9, Troubleshooting.



# **Getting Underway**

#### If the engine does not start:

- If the fuel filter has been changed or if the fuel system was run dry, it will be necessary to cycle the ignition start button from the STOP position to the START position several times until the fuel pumps build adequate pressure. The cycling of the ignition is necessary because the fuel pumps will run only one to two seconds when the ignition is turned on, unless the engine starts. Keep the shifter/throttle control in NEUTRAL when starting the engine. If the throttle is advanced, the computer will think the engine is flooded and initiate a "clear flood" condition which will shut off fuel to the engine and not allow it to start. The idle speed increase is normally on hot or cold starts. This is programmed into the computer. When the engine starts, the idle speed will jump to approximately 1,500 rpm and quickly decrease to between 750 and 900 rpm.
- Check for gasoline and cooling water leaks on the engine.
- Check for cooling water circulation (look at the raw water strainer at the rear port side of the engine for water movement).

#### Flooded Engine

If your engine does become flooded, use caution when attempting to start the engine. Push in the transmission disengagement button at the bottom of the shifter/throttle control handle and advance the throttle to the FULL THROTTLE position. By pushing the button in, the shift linkage is disengaged and the transmission remains in NEUTRAL during the starting procedure. Use the start key as described in Section 4 "Run Mode." DO NOT operate the start switch for more than 30 seconds. Allow the starter to cool.

We suggest you bring your boat back to your Nautique dealer after 25 hours of operation for an inspection of the shaft alignment, stuffing boxes adjustment, and the fuel system checked for leaks. This is not a free service. Follow Pleasure Craft Marine's (PCM) recommendations in the maintenance section for additional service to the engine. Consult your Nautique dealer to determine what charges will apply.



# Section 6

When the engine starts, move the throttle lever back until the engine is running about 2,500 rpm or less. Check the gauges for normal readings and let the engine run for a minute to burn the excess fuel. If the gauge readings are abnormal, stop the engine and contact your Nautique dealer. When the engine runs normally, check the engine for fuel, water and exhaust leaks. If there are leaks, stop the engine and correct them before you continue.

#### NOTICE

Read the "Notice to Dealer" located in your Skipper's Kit. It contains pre-delivery checks and adjustments which must be performed by your Nautique dealer. It is still the boat owner's responsibility to make sure they were performed. This will also help you become more familiar with your boat and its systems. If you have any questions regarding this notice, contact your Nautique dealer.

#### After your initial run:

- Check the engine oil level
- Check the transmission oil level
- Check the V-Drive oil level
- Check for leaks (water, fuel and oil)
- Check that engine frame bolts and mounts are tight
- Check that throttle and shift control operates correctly

#### NOTICE

If the engine backfires when you try to start it, the problem may be more serious than flooding.

- DO NOT CONTINUE TRYING TO START THE ENGINE.
- CONTACT YOUR NAUTIQUE DEALER OR A QUALIFIED TECHNICIAN TO CORRECT THE PROBLEM.

DO NOT keep trying to start the engine under these conditions. Engine damage or personal injury can result.



# **Getting Underway**

#### **Break In Procedure**

Make sure all your passengers are properly seated before starting the break in procedure. After the engine is thoroughly warmed up and you have driven the boat into a large open area, advance the throttle to wide open until the maximum rpms are reached. DO NOT exceed 5,000 rpm. Reduce the throttle to 2,800-3,000 rpms and cruise at or below this speed for 30 minutes. Reduce the speed to idle, advance the throttle to wide open and operate at that speed for one minute; reduce to the previous cruising speed for a few minutes and repeat. Accelerating from idle speed to wide open assists in seating the piston rings. This cycle can be repeated from time to time during the first five hours of operation. DO NOT operate engine at full throttle for longer than one to two minutes.

#### **CAUTION**

Follow these procedures only when conditions are such that you can drive the boat safely. DO NOT attempt to break in an engine by letting it idle at the dock.

#### **Propeller Selection**

The maximum rpm of the engine at full throttle under normal load conditions can be controlled by propeller pitch, diameter and design. It is essential the propeller does not underload or overload the engine.

**Propeller Overloading,** results in low rpms at wide open throttle will give poor performance, poor fuel economy and eventually result in engine damage.

**Propeller Underloading,** if operated with a propeller that has too little pitch or diameter, poor performance will result.



#### NOTICE

Running your boat in shallow water can cause propeller shaft, strut, propeller and rudder damage and sand and silt to be pulled into the cooling system. This will cause excessive water pump wear and can clog the water passages in the engine. Heavy weed growth in the water can plug the raw water strainer and oil coolers and cause engine damage. There is a raw water strainer located near the rear of the engine to strain the water before it goes into the transmission cooler and then the engine. Check this every time you use your boat to make sure it is not clogged.

#### Refer to Section 1, Hazardous Conditions, Boating Safety.

If the engine fails to start or is not operating properly, contact your Nautique dealer for assistance.

# Shifting

Boat movement without making sure your path is clear can cause death or serious injury. Make sure there are no swimmers or obstacles in the water near you.

Keep the control lever clean and clear of obstructions. Refer to your engine operator and maintenance manual for shifting information.

Always pause in NEUTRAL before shifting from reverse to forward and from forward to reverse.

# Steering

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

The steering system must be in good operating condition for safe boating. Frequent inspection, lubrication and adjustment by your Nautique dealer is recommended.



# Getting Underway

# Stopping

Stopping the engine immediately after operating at high speed is not recommended. Allow the engine a two to three minute cooldown period at idle or low speed.

Refer to your engine operator and maintenance manual for stopping information.

# Docking

There is a crushing hazard between the boat and other objects that could cause death or serious injury. DO NOT use your hands, arms or another part of your body to attempt to keep the boat from hitting other objects, especially a dock.

Approach a dock slowly and use caution. Plan your maneuvers ahead of time. Allow wind and current movement to help maneuver your boat.

Come to a stop a short distance from the dock, then proceed slowly.

- Have your fenders and mooring lines ready.
- Observe how the wind and current are moving your boat. Approach the dock with the boat pointed into the wind, if possible.
- If possible, throw a line to a person on the dock and have that person secure a bow line. If no one is on the dock, maneuver as close as you can, then secure any line to a piling or dock cleat.

Before tying up your boat, be sure to use enough fenders to protect the boat from damage. If possible, tie up the bow toward the waves with a good quality double-braided nylon line. Tie up only to the lifting rings, tie down eyes or cleats; DO NOT use the handrails or windshield frame. If the boat is to be moored for a long period of time, use chafing protectors on the lines to protect the gelcoat finish. Leave a little slack in the lines to allow for some wave movement or tidal action as applicable.

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



# **NOTES**





# Section 7 Running

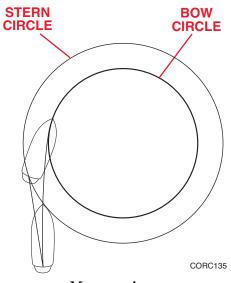
Nautique urges you and all others operating your boat to seek certified instruction from the local boating authorities.

This section is designed to present the most basic operational principles. It is NOT intended to cover all conditions encountered during operation. Therefore, the principles in this manual are limited to the facts related directly to the operation of your boat, while the responsibility for the proper application of these principles belongs to you.

# Maneuvering Techniques

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

Maneuvering in congested areas and advanced courses requires mastering and good "Rules of the Road" ethics. Your Nautique boat is designed to be responsive and agile enough to meet the challenge of these conditions.



**Maneuvering**g is relatively easy and takes little p

High speed maneuvering is relatively easy and takes little practice to learn. Slow speed maneuvering is far 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.

**A** WARNING

Quick maneuvers can cause people and objects in the boat to be thrown about resulting in death or serious injury. DO NOT make quick or high-speed maneuvers when you or your passengers are not prepared.



The effects of unequal propeller thrust, wind and current must also be kept in mind. While wind and current may not always be present, experienced boaters will use them to their advantage. Unequal thrust is an aspect shared by all single-engine propeller-driven watercrafts.

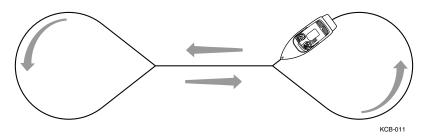
All Nautique V-Drives have a counterclockwise (left-hand) rotation propeller. Propeller rotation has a direct effect on steering, especially when operating your boat in reverse. The operator should familiarize themselves with the handling characteristics of the boat in an open area before attempting to dock or perform other close maneuvers.

Stopping (checking headway) is a technique that must be developed. 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. Adequate practice is the only way to develop your boating skills.

#### Tow Pattern

A large loop pattern is preferred for beginners. This pattern does not require the skier to cross the wake. As the skier's skills improve, a looped end or dumb bell pattern may be used. The dumb bell pattern provides a long straight course which allows the wake to disperse, leaving the skier with a smooth water surface. The dumb bell pattern is popular with ski tournaments and clinics.



**Dumb Bell Ski Pattern** 



# Freezing Temperatures

When the boat is removed from the water, drain the cooling and heater system (as equipped) completely.

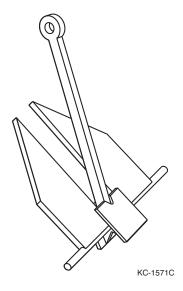
# Anchoring

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 Danforth anchor is recommended for general boating. For more information on anchors, contact your Nautique dealer.

**A** WARNING

Improper use of an anchor can pull a boat underwater causing death or serious injury. Anchor from the bow, NOT from the stern.





**Danforth Anchor** 

# **Dropping Anchor**

- Make sure the line is tied to the anchor and tie the other end to the forward cleat or bow eye.
- Head the boat into the wind or current over the spot where you want to lower the anchor. Spot 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 six to seven times the depth of the water. For example, if you are in 10 feet (3 m) of water, let out 60 to 70 feet (18 to 21 meters) of line.



# LINE SIX TO SEVEN TIMES DEPTH OF WATER

#### Anchoring

CORC136

- Pull on the line to make sure the 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 the engine and move forward until the anchor line is straight up and down. Pull hard to lift the anchor from the bottom material.

If the anchor is caught on the bottom, attach a line to the bow cleat so that it is taut. The up and down motion of the bow from wave action may lift the anchor from the bottom. If the anchor remains caught, let out a few more feet of line and attach it to the bow cleat. Slowly maneuver the boat around the anchor until the anchor pulls loose. Be sure to keep the line tight during this procedure.



# Performance Boating

Failure to maintain control can result in death or serious injury. Always keep one hand on the steering wheel and the other on the control lever. If the boat begins to operate in an unsafe way, adjust speed and course as necessary to regain control.

Your Nautique boat is a high performance boat. DO NOT be tempted to push your boat to its limits until you are completely familiar with its operating characteristics.

Nautique boats are the ones of choice of the better professional and amateur ski shows and tournaments. You may have seen drivers put their Nautique through extreme maneuvers. These drivers are paid professionals on a closed course with hundreds of hours of experience. DO NOT attempt extreme maneuvers without proper training.

We recommend that you never operate the boat without first having an initial orientation and familiarization/demonstration ride with your dealer or an operator experienced with the boat/engine combination. All boats perform differently.

The operator should have at least ten hours of experience with the boat before any full throttle operation. DO NOT operate your boat until you are completely experienced with its handling characteristics.

# Propellers

Your Nautique boat is equipped with a propeller best matched to its engine and boat combination. If you feel you are experiencing poor performance, contact your Nautique dealer. Care and selection of your propeller is very important to proper boat operation.



# **NOTES**





# Section 8 Care and Maintenance

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

Winterization and some engine maintenance functions are best performed by your Nautique dealer. Some maintenance items that can be done by you or your dealer are listed below. We suggest that you familiarize yourself with these even if you have your dealer service your boat.

#### General Maintenance

- 1. Read engine operator and maintenance manual very carefully.
- 2. Check for fuel line leaks every time you use the boat.
- 3. DO NOT start your engine if gasoline odor is present. Gasoline fumes are highly explosive. Before starting your engine, open the engine cover, inspect the engine compartment for gasoline fumes and operate the blower for at least four minutes. 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 adjustments or take the boat to your local dealer to eliminate the fuel vapor.

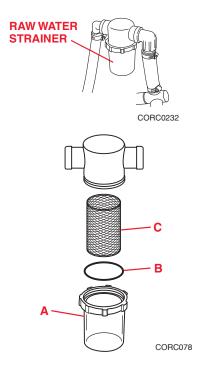
Fumes accumulating in bilge area present a fire or explosion hazard which could cause death or severe injury. Ventilate the engine compartment by running the blower for four minutes, especially after repairing or refueling and check for fuel spills or leaks. If you smell gasoline vapor or see liquid gasoline, DO NOT start the engine.

# Section 8

- 4. When servicing the ignition switch or any wiring, always disconnect the battery cables from the battery.
- 5. 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.

# **Engine Intake Water Strainer**

Visually inspect the engine intake water strainer for debris before each use. To clean the strainer, close the engine intake water valve and unscrew the strainer bowl (A). DO NOT lose the rubber O-ring (B) that seals the bowl to the cap. Carefully remove the screen (C).



Clean debris from the bowl and screen and rinse parts in fresh water. Insert the screen, place the O-ring in the groove of the bowl and screw the bowl on hand tight. Be sure to open the water valve before starting the engine.



#### Care and Maintenance

Some engines are equipped with a closed cooling system with a self-contained reservoir for engine coolant. Self-contained systems are equipped with a heat exchanger which uses raw water to cool the coolant. All raw water systems are equipped with a valve and strainer.

# Bilge Pumps

Check your bilge pumps often to make sure they are operating efficiently. There are two bilge pumps: one is at the rear of the boat near the rudder and under the floor by the forward bulkhead located next to the fuel tank. To keep the pumps from getting clogged, remove any debris you find in the bilge. Wash the bilge with a good biodegradable household detergent or a bilge cleaner available at your Nautique dealer or a marine supply store. Rinse with water with your bilge pumps running. If your pumps seem to lag, 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 with the pumps.

# CE Bilge Discharge Filter

Your boat may be equipped with a CE-compliant bilge discharge filter system that is designed to prevent oil-contaminated bilge from being discharged into the environment. One CE bilge filter is required for each bilge pump. The CE bilge filter is located below the deck, connected to the bilge discharge hose just before the hose connection to the deck outlet fitting.

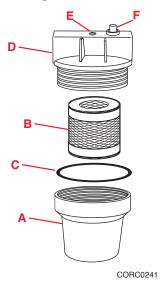
CE bilge discharge filter cartridge XOil<sup>TM</sup> replacement should be part of a regular maintenance program to prevent oily, contaminated bilge from passing through the deck outlet fitting into the environment. The period between cartridge replacements will depend on the condition of the bilge. Always replace the cartridge immediately after there has been a great amount of oil or other contaminants spilled into the bilge.



# Section 8

#### Cartridge Replacement

- 1. Turn off power to the bilge pump.
- 2. Unscrew the filter bowl **(A)** by turning counterclockwise and pour any excess bilge water remaining in the bowl back into the bilge.
- 3. Remove the used cartridge (B) and dispose of in a suitable container.
- 4. Inspect the O-ring **(C)** located on top of the bowl and replace if worn.
- 5. Be sure that the seals located on the top and bottom of new cartridge are in place and correctly aligned.
- 6. Place the new cartridge into the bowl and reattach the bowl to the filter housing **(D)** by turning clockwise.
- 7. Turn on power to the bilge pump.
- 8. Turn on the bilge pump and inspect all connections for leaks.
- 9. Bleed any air trapped in the housing by using the bleed button (**F**) or, if so equipped, the bleed screw (**E**). Both are located on top of the filter housing.





## Care and Maintenance

## Propeller

## **CAUTION**

- A propeller can be very sharp. Be careful when you handle it. Wear a pair of protective gloves when handling any propeller.
- Remove your key from the ignition and remove the Emergency Stop Switch clip from the switch to prevent accidental starting of the engine.
- DO NOT reuse the nylon locknut or the cotter pin.
- DO NOT use a damaged propeller. A damaged propeller can damage your engine and boat.

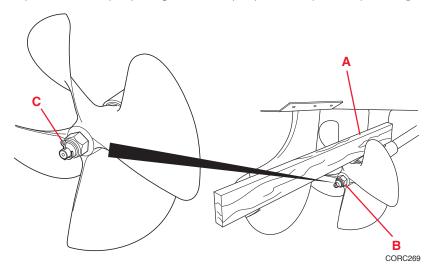
### Removal

- 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 starboard side of the strut and rudder.
- 3. Remove the nylon locknut and discard.



## Section 8

Use a propeller puller to remove the propeller, then remove the key from the keyway. Inspect the keyways and key for any damage.



## Installation

Before placing the propeller on the shaft, look at the keyway on the shaft and in the propeller. Make sure the key slides freely in the shaft keyway and the propeller keyway. DO NOT use the propeller nut to advance the prop onto shaft.

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. The propeller will only slip on in one direction. Rotate the propeller so the keyway in the propeller is aligned with the keyway on the shaft. Once it is aligned, push the propeller onto the shaft. You'll hear a solid "thunk" or feel it, as the propeller is seated.
- 3. Wedge a piece of 1" x 4" wood (A) between the propeller blade and the port side of the strut and rudder.
- 4. Install a new nylon locknut **(B)** and torque the nut to maximum of 30 ft-lbs (40.7 N•m).
- 5. Install new cotter pin (**C**). Bend the retaining ends of the cotter pin in the opposite directions.



## Through-Hull Fittings

All fittings that actually pass through the hull on the wetted surface are caulked in. These are not serviceable and must not be tampered with.

## Quick Oil Drain System

Change the engine oil after the first 25 hours of operation, then after every 50 hours. The boat must be removed from the water to use the quick oil drain system. There is a drain hose attached to the bottom of the oil pan with a small plug screwed into the loose end of the hose. Remove the drain plug (T-handle) (A), located in the bilge area, and put the end of the drain hose through the drain hole.

Make sure there are no kinks or sharp bends in the hose. Remove the plug at the end of the hose and drain the oil into a container under the boat. The engine will drain most efficiently when the oil is warm. Allow several minutes for the oil to settle and drain. Dispose of used oil in an environmentally safe manner.

## NOTICE

Be sure the engine is off when you are draining your oil.

Prolonged or repeated contact of used engine oil can cause death or serious injury. Wash affected area immediately with soap and water.



## Salt Water Boating

#### NOTICE

If you use your boat in salt water or other unusual water conditions, fresh water flush your engine and cooling system with freshwater.

Nautique offers an optional freshwater flush kit. This is the only system we recommend if you use your boat in salt water or unusual water conditions. Flushing the system by running the boat in fresh water is another good way to flush the engine, but it must be done immediately.

# Freshwater Flushing Kit - Optional

The optional freshwater flushing kit allows you to flush the water system after your boat is operated in salt water, brackish water or unusual water conditions.

We recommend using this system if you use your boat in salt water or unusual water conditions. Flushing the system by running the boat in fresh water is another good way to flush the engine, but it must be done immediately.

DO NOT connect the flushing kit to a water source which exceeds normal municipality water pressure.

## **Proper Use of Freshwater Flushing Kit**

- 1. Open the ball valve located between the system's deck fitting and main engine cooling water supply hose.
- 2. Make sure that the ball valve located in the main cooling system supply hose is open. This valve is located near the hull inlet fitting.
- 3. Open the cap of the system deck fitting and properly connect a water supply hose, making sure the connection is secure.
- 4. Turn on the hose and start the engine.
- 5. Close the ball valve of step 2 unless the boat is on a trailer or lifted up in the air, in which case it should be left open.



## Care and Maintenance

- 6. Run the engine for several minutes after it has reached the normal operating temperature to ensure proper flushing.
- 7. Reduce the engine speed to idle, shut off the engine and immediately shut off the water supply hose. Please note, failure to shut off the water supply hose immediately could possibly result in engine damage.
- 8. If the ball valve of step 5 was closed, open it now and close the step 1 ball valve.
- 9. Remove the water supply hose and reinstall the deck fitting cap securely.

## Coastal Edition

Nautique boats with the Coastal Edition are equipped to effectively resist saltwater corrosion while maintaining premium performance capabilities. Follow these procedures to help keep your Nautique boat operating efficiently.

- 1. Wash down the boat after each use. Wash the boat at least once a week even during periods of non-use. Use biodegradable soap. Include vinyl components (existing cleaners). Raise the cushions in the open position to improve drying. Ensure that the boat is fully dry before installing the mooring cover.
- 2. Wax metal parts every 6 months including anodized, aluminum and stainless steel components (stainless steel will rust without care). More frequent applications may be necessary depending on exposure. Use a polish that is recommended for metal.
- 3. Zinc anodes combat the effect of electrolytic corrosion on metal components. Correct Craft, the manufacturer of Nautique boats, installs zinc anodes on the Hydro-Gate plate, the prop shaft and the rudder. Replace zinc anodes after they have worn to 50% of their original size (not tied to time). Anodes may have a red or blue wear indicator to help determine when replacement is necessary. Each time new anodes are installed, apply a marine grade waterproof grease to the fastening bolt.



## Section 8

- 4. Flush the engine with fresh water after each use. See Freshwater Flushing Kit Optional on page 8-8 for more information.
- 5. Correct Craft, the manufacturer of Nautique boats, applies dielectric grease to the battery connections at the factory. Reapply if these connections are serviced.
- 6. The steering tube is equipped with a grease fitting. Lubricate the tube with a marine grade, waterproof grease every 100 hours of use or once a year, whichever comes first. Do not overgrease the steering tube. Over-greasing can cause damage to the wiper seal and allow the excess grease to leak and expose the steering rod to moisture and corrosion.
- 7. Wax the hull at least once a year with a UV wax. Rotate the boat during outside storage every 6 months for even color blending.
- 8. Apply a rust corrosion protection spray such as Boeshield T-9® to the engine and bilge components (electrical connections, pumps, etc.) once a month or more frequently depending on exposure. Turn the engine off and ensure that the engine and all components are cool and dry before application. Follow all manufacturer's insturctions when applying the product.

# **Battery Maintenance**

Explosion or fire hazard from vented fumes can cause death or serious injury.

- Wear eye protection and rubber gloves when working on or around batteries.
- DO NOT charge or use a battery booster to start your engine.
- DO NOT smoke or bring a flame near a battery at any time.
- DO NOT have your head directly above a battery when making or breaking electrical connections.
- DO NOT use a metal object to spark between battery posts to check if the battery is charged.



## Care and Maintenance

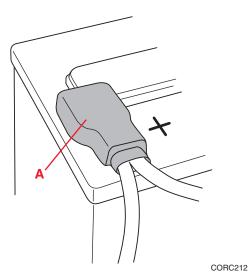
Take care when connecting or disconnecting a battery charger. Be sure the charger is turned OFF and unplugged from power source when you clip ON/OFF the connecting clamps.

Make sure you have a solid connection with the charging clamps. Poor connections are common causes of electrical arcs and engine problems. Follow instructions.

DO NOT make or break electrical circuits at the battery terminals; a spark will occur when a live circuit is opened or made. Turn off all components.

Use a voltmeter or hydrometer to check the battery charge condition.

The battery cables should be removed from the battery when the boat is placed in storage, on display or in transit. This will eliminate the possibility of the engine accidentally starting without a supply of cooling water and may damage the engine.



+ = red positive (A)

- = black negative (not shown)



## Section 8

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. Add only distilled water to maintain the level between the top of the plates and the bottom of the fill/vent cap. DO NOT overfill. Remember batteries contain sulfuric acid which can cause severe burns.

## Gelcoat Maintenance

Your Skipper's Kit included samples of quality boat care products recommended by Nautique. Nautique is proud of its heritage and wants you to feel this pride every time you use your boat.

Regular maintenance is the key to keeping your hull and deck surfaces in good condition. Sun exposure, residue 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 bio-degradable detergent after each use. This will help to remove any debris and waterborne materials that are on the hull. Use a soft sponge or towel and dry with a chamois cloth to prevent water spots.

Wax the hull sides and deck regularly with a high quality wax. Waxes and polishes are available at your Nautique dealer and marine supply stores. Always follow the directions on these products carefully before you use them.

The hull bottom is an especially important area to keep clean since any buildup of water scum and algae will create drag and reduce the boat's efficiency. If you must leave your boat in the water, there are compounds to remove algae buildup on your hull. Some of these can be caustic. Pay special attention to the cautions on the label of these coatings. Ask your Nautique dealer for advice on which work best in your area.



## Care and Maintenance

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 at your Nautique dealer and marine supply stores. DO NOT use common household scouring pads or powders.

If you will be keeping your boat in the water for ANY period of time, we suggest that the wetted surface of the hull be painted with an epoxy paint formulated for blister protection.

Sudden changes in temperature can affect gelcoat. If you move your boat from outdoors to a heated area, allow the temperature change to be gradual. Heat the area after the boat is moved to allow the boat to warm up slowly as the area is heated. Also, if you move 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 area and the boat to cool down first.

## Care of Metal

- Aluminum care
- Stainless care
- Chrome

Keep all metal work rinsed and wiped dry. Periodically polish it with a quality commercially available metal polish to remove substances such as air-borne pollution and natural body oils from your hands. Do not use citrus cleaners on stainless steel. For best results on the towers, use cleaners and waxes suitable for clear coat finishes.

## Care of Glass

Your windshield, mirrors and gauge faces all deserve the same attention as the other parts of your boat. Clean them often with quality commercially available glass cleaners.



## Adhesive-Backed Non-Skid

All adhesive-backed non-skid surfaces can be cleaned by using a medium-to-stiff brush and warm, soapy water. Make brushing strokes in the direction of the non-skid grain. Rinse with clean water and let the non-skid air-dry.

# Vinyl Maintenance and Cleaning

Nautique has selected the finest marine grade vinyl for your Nautique. It is important to keep it clean at all times. There are some substances that will stain the vinyl if you leave them on for even a short period of time. Remove any contaminant and clean the area immediately. DO NOT use Formula 409® Cleaner, Fantastik® or any silicone-based products. Certain household cleaners, powdered abrasives, steel wool, industrial cleaners, dry cleaning fluids and lacquer solvents can cause damage and discoloration. DO NOT use these cleaners.



## Care and Maintenance

Common stains and steps to treat:

	Step #1	Step #2	Step #3
Chewing gum	D	A	D then A
Eye shadow	$\mathbf{E}$	В	E then B
Engine oil	В	В	В
Spray paint	$\mathbf{C}$	В	В
Mildew or wet leaves *	D	В	A
Shoe polish *	A	В	
Yellow mustard	D	В	
Oil based paint (fresh)	D	В	
Oil based paint (dried)	A	В	
Suntan lotion *	D	В	
Tar/Asphalt	A	В	
Lipstick	A	В	
Latex paint	A	В	
Crayon	D	В	
Ketchup	A	В	
Grease	D	В	
Ball-point ink *	$\mathbf{E}$	В	
Permanent marker *	$\mathbf{E}$	В	
Coffee, tea, chocolate	В	В	

Use the chart above to clean common stains:

- A. Medium-soft brush, warm, soapy water/rinse/dry
- B. Meguires Quick Clean #57
- C. One(1) tablespoon ammonia, 1/4 cup hydrogen peroxide, 3/4 cup water rinse/dry
- D. Wipe or scrape off excess (chill gum with ice)
- E. Denatured Alcohol/rinse/dry

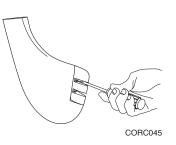
After all cleaning methods, rinse well with water.

\*Suntan lotion, shoe polish, wet leaves and some other products contain dyes that stain permanently.



## Tunable Rudder

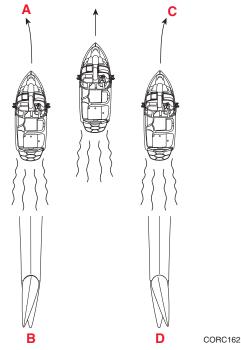
The Tunable Rudder\* is designed to offer easy steering adjustment. This system uses a composite tuning foil which is located at the upper aft corner of the rudder blade. Use a Phillips head screwdriver to adjust the foil. Loosen the two screws in the relief slots of the tuning foil.



If the boat is pulling port (**A**), rotate the foil to port (**B**) and tighten screws. If the boat is pulling starboard (**C**), rotate the foil to starboard (**D**) and tighten screws. Always remember that movement of the trailing edge of the foil to one side will cause the steering to pull to the opposite side.

#### NOTICE

After each adjustment, test run and adjust again if necessary.



<sup>\*</sup>Manufactured under license from National Products, Inc. U.S. patent 5,746,147.



## Care and Maintenance

## **Rudder Remote Lube Fitting**

The remote lube fitting allows for easy access to lubricating the rudder. The remote lube fitting is located at the stern of the engine compartment. Use a quality marine grease and gun. Connect the grease gun to the fitting and apply a light pressure to the gun until you feel a slight resistance.

## **Transmission**

Burn hazard from hot transmission fluid can cause serious injury. Do not remove the transmission drain/fill plug while the engine is running or while the transmission is hot.

Allow the transmission to cool and check with the boat level.

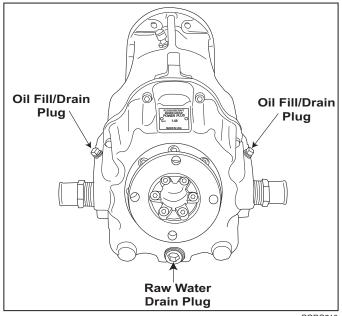
- 1. Remove the drain/fill plug from the transmission.
- 2. Verify the fluid level; the fluid level should be at the bottom of the threaded hole. If low, add the specified fluid through the threaded hole to the proper level.

#### NOTICE

The transmission fluid is a very high viscosity, to make adding fluid easier, remove both fill plugs.

3. Replace the drain/fill plug and tighten securely.

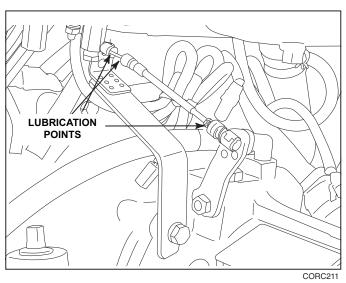




CORC210

## **Shift Cable**

Lubricate pivot points and exposed cable with SAE 30W-30 engine oil.







# Section 9 Troubleshooting

The following chart will assist you in finding and correcting minor problems with your Nautique boat. Refer to your engine operation and maintenance manual for more detailed information for any problem concerning the starting, shifting or operation of the engine.

Some problems may require the skills of a trained technician and special service tools. Please contact your Nautique dealer for assistance.

## Trouble Check Chart

## Performance

Symptom	Possible Cause		
Starter motor will not operate	Shift handle not in NEUTRAL		
_	Battery Selector switch OFF		
	Battery and electrical connection		
	loose or corroded		
Engine will not start	Emergency stop switch not in		
	place		
	Starting procedure not followed		
	Fuel tank empty		
Poor boat performance	Contaminated fuel		
	Clogged fuel filter		
	Uneven load distribution		
	• Improper propeller selection		
	Marine growth on hull		
	Engine problem		
Poor gas mileage	Marine growth on hull		
	Engine problem		
Excessive vibration	Damaged or fouled propeller		
	Misaligned propeller shaft		
	coupling		
	Bent propeller shaft		
	Engine problem		
Engine runs but boat	• Fouled or damaged propeller		
makes little or no	• Engine problem		
progress			
Steering problem	Corroded steering cable		
	Rudder worn		
Throttle problems	Throttle wire harness loose or		
	unplugged. Check the wiring		
	harness at throttle and engine.		
	Defective throttle return spring		
Shifting problems	Low transmission fluid level		
	Sticking transmission shift lever		



# Troubleshooting

## **Electrical**

Symptom	Possible Cause	
Electrical problem	Open circuit breaker or blown fuse	
	Loose wiring connection	
	Defective switch or gauge	
Dim or no lights	• Open circuit breaker tripped or in OFF position	
	Battery discharged	



# **NOTES**

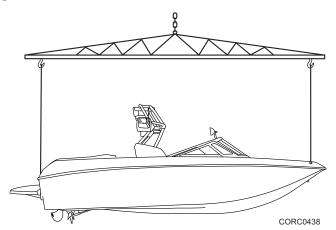




# 20149

# Lifting Rings

Your Nautique is equipped with bow and stern lifting rings. These are designed to lift your boat in a steady and secure manner. The winch, hooks and other components of the lifting mechanism have sufficient capacity sufficient for your boat. Refer to **Section 3, Specifications**. The weights listed in the specifications are dry weight. You must add the weight of the battery, fuel and gear to the dry weight.



## **CAUTION**

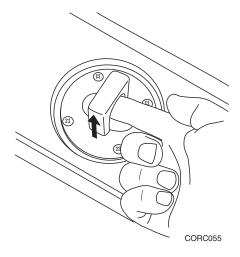
Drain the bilge and / or launch control system and/or aftermarket water bladder(s) to eliminate excess water before you lift the boat.

## Section IO

## **NOTICE**

Only use a hook that will pass easily through the lifting rings without binding. A hook that is too large or off-center could break the lifting rings. DO NOT use a sling to lift the boat. Damage to your boat can occur.

If your boat is equipped with a retractable lifting ring, it can be used for lifting your boat.





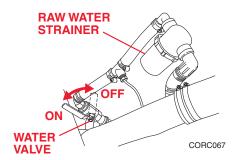
## Winterizing Your Boat

Winter storage procedures vary depending on climate, type of storage and length of storage. Check with your dealer/storage facility manager for their advice on what works best in your climate. Winterization functions are best performed by your Nautique dealer. Refer to your engine operation and maintenance manual for more information.

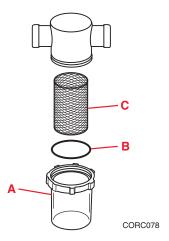
When storing your boat up on a rack system, it is important that the racks adequately support the hull bottom.

If you do not have a trailer, support the boat like a Nautique dealer recommended trailer. It is important to have an even weight distribution.

If you use a mooring cover, DO NOT put it on when the interior of the boat is wet and/or hot. It will trap moisture and lead to mildew on the carpet and/or vinyl. Make sure your mooring cover allows air to circulate, even if you have to leave a portion of the cover off.



## Section IO



The raw water strainer bowl (A) remains full of water even after the rest of the engine cooling water system is drained. To properly winterize your boat, the strainer bowl must be removed and emptied. DO NOT lose the rubber O-ring (B) that seals the bowl to the cap. Clean screen (C) if required. If the water is not removed, the bowl can be damaged. A damaged strainer can cause overheating problems during the next season.

# Winterizing the Heater System (in Closed-Cooled Engines Only)

- 1. Disconnect the hose connections at the engine (2 each).
- 2. Place one hose end into a small bucket and introduce 50 PSI (or less) of air into the other hose end. This will force all fluid out of the hoses and the heater core.
- 3. Reconnect the hoses to the engine.



# Check for Water in Your Fuel System

A small amount of water left in the fuel system for several months can result in damage to the fuel system and engine. If you are storing your boat for the winter, it is a good practice to remove any water in the fuel system.

The Fuel Control Cell can be drained by removing the drain plug at the bottom of the canister.

- 1. Loosen the return fuel hose to provide an incoming air source.
- 2. Clamp the return fuel line some way to minimize the amount of fuel that may drain.
- 3. Once the canister is drained, coat the threads of the drain plug with a fuel resistant pipe thread sealer, then replace and tighten the plug.
- 4. Reconnect the fuel hose, and tighten the hose clamp. The threads must be sealed properly to avoid a possible fuel leak.

Check your Fuel Control Cell once each year for signs of water in the canister. If it appears there is water buildup in the canister, see your Nautique dealer for service.

An empty fuel tank can accumulate water inside by changing temperature and repeated cycles of condensation on the inner surfaces of the tank. If the fuel tank is kept at about 3/4 full during storage, less water can condense, limiting the buildup of water in the fuel tank.

Fill the tank to 3/4 full maximum during storage to eliminate the possibility of fuel expansion problems caused by temperature changes. This minimizes overflow of fuel from the fuel vent. Not only can this overflow be hazardous, but it will also adversely affect decals and pin striping on the boat.



## Section IO

Add a good quality fuel stabilizer to the fuel prior to winterizing to slow down the rate of fuel decomposition. You can purchase a fuel stabilizer at your servicing dealer, most marinas or an auto supply store. Add the stabilizer to the tank.

If you did not add the stabilizer previously, run the engine to circulate fuel throughout the system. Remember, always follow the fuel stabilizer manufacturer's recommendations for proper mixing.

#### NOTICE

Gasoline expands when the temperature increases. Never store your boat with more than 3/4 of a tank.

Refer to the engine's owner's manual for winterization of the engine.

# Winterizing Ballast Tanks (if equipped)

#### **NOTICE**

It is extremely important to protect the Flight Control System during freezing temperatures and during long periods of non-use. When following this procedure, remember to protect our natural resources by using environmentally friendly products; and to always discard in an environmentally friendly manner.

- Make sure your boat is out of the water, the tanks are completely drained and the tank water intake/drain valves are 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. Place a container under the intake/drain of the tank you are winterizing to catch any spilled mixture.
- 5. Operate the pump in the drain mode for two seconds and shut off. Repeat procedure for other tank(s).
- 6. Close the tank's water intake/drain valves.

When returning your boat back to service, drain the remainder of the mixture before getting onto the water.



## Trailer/Trailering

#### Hitch

If you do not already have a trailer hitch installed on your vehicle, go to a reputable hitch company to have the proper size hitch installed. Always use a hitch rated with the appropriate capacity to match the trailer and boat's gross weight.

**WARNING** 

Loss of control can cause death or serious injury. DO NOT attempt to tow more than one trailer at a time behind your vehicle. Attempting to tow an additional trailer will adversely affect the trailer tongue weight.

## **CAUTION**

DO NOT use a bumper mounted hitch on your vehicle. Use a hitch that is attached to the frame of your vehicle only. DO NOT compromise your equipment, your safety or the safety of others.

## Wiring

The trailer requires wiring from your vehicle to the trailer lights. This can usually be done by the hitch company.

## Security

There are several locking devices available at marine supply stores to aid in securing your boat whether or not it is attached to your vehicle.

## Section IO

## **Towing Your Boat**

Read this checklist prior to trailering your boat.

- Check wheel lug nuts for tightness.
- Be sure the trailer tongue is securely on the hitch and the safety chains from the trailer are secured to the vehicle.
- If your boat is equipped with a trailer bow winch, make sure the boat is properly located on the trailer and the winch strap/cable is tight.
- Be sure a cable or strap secures the bow eye of the boat to the trailer. Make sure this is tightly secured.
- Be sure the trailer electrical connector is plugged in. Allow sufficient slack for cornering. Check brake lights, turn signals, emergency flasher and running lights.
- Be sure your gear inside the boat and seat cushions cannot shift or fly out of the boat during trailering.
- Be sure the walk-thru door of the windshield is closed and latched while the boat is being trailered.
- If you are using any sort of water "ballast" system to add weight to the boat, be sure it is drained before you put the boat on the trailer. These systems can adversely affect the tongue weight of the trailer. Your boat is not designed to carry exceptionally heavy loads. This can adversely effect the proper balance of the boat/trailer combination and cause tire failure and/or loss of control.
- Make sure the platform bracket pins are in place before trailering.
- Remove bilge drain plug(s).

## **Long Trips**

DO NOT use your boat and trailer to haul excessive gear.

Each time you stop on a long trip, check the following:

- Make sure the wheel lug nuts are tight and the bearings are lubricated.
- Make sure the boat is still positioned snugly against the bow stops and has not shifted.



# Storage

- Examine the hitch connection to be sure it is firmly attached and the safety pin and chains are securely fastened.
- Make sure all trailer lights are still functioning properly.
- Re-examine the contents of your boat to ensure that no items such as life jackets or other gear have shifted and will not fly out while you are on the road.



# **NOTES**





## Glossary

ABYC - American Boat and Yacht Council, Inc.

**AFLOAT** – On the water.

**AFT** – Toward the rear or stern of the boat.

**AGROUND** – Touching bottom.

**AMIDSHIP** – Center or middle of the boat.

**ANCHOR** – (1) An iron casting shaped to grip the lake bottom to hold the boat. (2) The act of setting the anchor.

**ANODE** – An electrode carrying a positive charge.

**ASHORE** – On the shore.

ASTERN - Toward the stern.

**BAIL** – To remove water from the bottom of the boat with a pump, bucket, sponge, etc.

**BALLAST** – Any solid or liquid weight placed in a boat to increase the draft, to change the trim.

**BEAM** – The widest point on the boat.

**BEARING** – Relative position or direction of an object from the boat.

**BILGE** – The lowest interior section of the boat hull.

**BOARDING** – To enter the boat.

**BOUNDARY WATERS** – A body of water between two areas of jurisdiction; i.e., a river between two states.

**BOW** – The forward end of the boat.

**BULKHEAD** – Vertical partition (wall) in a boat.

**BUNKS** – Carpeted trailer hull supports.

**BURDENED BOAT** – Term for the boat that must "give-way" to boats with the right-of-way.

**CAPACITY PLATE** – A plate that provides maximum weight capacity and engine horsepower rating information. It is located in full view of the helm.

**CAPSIZE** – To turn over.

**CAST-OFF** – To unfasten mooring lines in preparation for departure.

**CATHODE** – An electrode carrying a negative charge.

**CAVITATION** – A phenomenon in which low pressure within a liquid allows vapor bubbles to form.

**CENTER LINE** – A lengthwise imaginary line which runs fore and aft with the boat's keel.

**CHINE** – The point on a boat where the side intersects (meets) the bottom.

**CLEAT** – A deck fitting with ears to which lines are fastened.

**CONSOLE** – Also called helm. The steering wheel area of the boat.

**CRANKING BATTERY** – The main battery used for engine starting and electrical circuits.

**CURRENT** – Water moving in a horizontal direction.

**DEADRISE** – Transverse angle of the bottom of the hull.

**DECK** – The open surface on the boat where the passengers walk.

**DRAFT** – The depth of the boat below the water line, measured vertically to the lowest part of the hull.

**ELECTROLYSIS** – The break-up of metals due to the effects of galvanic corrosion.

**FENDER** – Devices built into or hung over the sides of a boat to prevent the boat from rubbing or chafing against other boats or piers.

FORE - Toward the front or bow of the boat. Opposite of aft.

**FREEBOARD** –The distance from the waterline to the upper surface of the side of the deck.

**FUEL SENDING UNIT** – The electrical device that is mounted on the outside of a built-in fuel tank and controls the dashboard fuel gauge.

**GIVE-WAY BOAT** – (1) Term for the boat that must take whatever action necessary to keep well clear of the boat with the right-of-way in meeting or crossing situations. (2) The burdened boat.

**GUNWALE** – The rail or upper edge of a boat's side.

**HEAD** – A marine toilet.

**HELM** – The steering wheel or command area.

**HULL** – The structural body of a boat below the deck.



**HYPOTHERMIA** – A physical condition where the body loses heat faster than it can produce it.

**IN-LINE FUSE** – A type of protective fuse located in the power wire of a direct current (DC) circuit usually near the battery.

**KEEL** – The lowest portion of the boat; extends fore and aft along the boat's bottom.

LINE - All rope in a boat or on the dock is referred to as "line."

**LIST** – Leaning or tilt of a boat toward the side.

**MAKING WAY** – Making progress through the water.

**MARINE CHART** – Seagoing maps showing depths, buoys, navigation aids, etc.

**MID SHIP** (**AMIDSHIP**) – In the vicinity of the mid-length of a boat, technically the exact half way between the bow and the stern.

**MOORING** – An anchor, chain, or similar device that holds a boat in one location.

**NAVIGATION AID** – Recognizable objects on land or sea such as buoys, towers or lights which are used to fix position to identify safe and unsafe waters.

NMMA - National Marine Manufacturer's Association

**NO-WAKE SPEED** – The speed at which a boat travels to produce an imperceptible wake.

**PFD** – Personal flotation device.

**PITOT TUBE** – See SPEEDOMETER PICKUP TUBE.

**PLANING HULL** – A hull designed to lift, thereby reducing friction and increasing efficiency.

**PORPOISE** – A condition in which the bow bounces up and down caused by trimming the engine too far out.

**PORT** – (1) The left side of a boat when facing the bow. (2) A destination or harbor.

**PRIVILEGED BOAT** – Term used for the boat with the right-of-way.

**PROPELLER PITCH** – Theoretical linear distance the propeller would move ahead during one complete revolution of it were turning with zero slippage.

**RIGHT-OF-WAY** – Term for the boat that has priority in meeting or crossing situations. The stand on or privileged boat.

**RUB RAIL** – The rubber extrusion that is fastened over the hull and deck joint.



**RUDDER** – A vertical metal device used to steer the boat **RULES OF THE ROAD** – Regulations for preventing collisions on the water.

**SACRIFICIAL ANODE** – Metal parts fitted to the hull of boat to provide a transfer of ions to the cathodic part of an electrolytic coupling and so protect other parts of the boat that would otherwise waste away through electrolysis

**SLIP** – The linear distance between the pitch (or advance) and the actual distance the propeller moves straight ahead through the water.

**SPEEDOMETER PICKUP TUBE** – Also called pitot tube. The plastic device that extends below the bottom of the boat. It connects to the speedometer with plastic flexible tubing.

**SPRING LINE** – A mooring rope oriented at a small angle to the boats centerline, usually attached to the boat mid ship.

**STAND ON BOAT** – Term for the boat that must maintain course and speed in meeting or crossing situations. The privileged boat.

**STARBOARD** – The right side of the boat when looking towards the bow.

**STERN** – The aft end of a boat.

STOW -To put away. To store cargo in a storage locker.

STRINGER – Members under the floor that stiffen the hull bottom.

**SURGE BRAKES** – A type of trailer braking system designed to automatically actuate when the tow vehicle's brakes are applied.

**TRANSDUCER** – The unit that sends/receives signals for the depth sounder.

**TRANSOM** – The transverse beam across the stern.

**TRIM** – Fore to aft and side to side balance of the boat when loaded.

UNDERWAY – Boat in motion; i.e., not moored or anchored.

USCG - United States Coast Guard

**VISUAL DISTRESS SIGNAL** – A device used to signal the need for assistance such as flags, lights and flares.

**WAKE** – The waves that a boat leaves behind when moving through the water.

WATERLINE The line of the water's edge when the boat is afloat.

WATERWAY - A navigable body of water.

**WETTED SURFACE** – The area of the immersed hull plus underwater gear.





# NAUTIQUE LIMITED WARRANTY

(Nautique Boats as Originally Manufactured by Correct Craft)

The Nautique warranty is backed by a tradition of boat building experience since 1925.

## **Lifetime Limited Warranty:**

Correct Craft, Inc, exclusive manufacturer of Nautique, and also referred to as Nautique herein, warrants to the original user or purchaser, whoever comes first, of each new Nautique boat, that the deck, hull, and stringer system as originally manufactured by Correct Craft, shall under normal authorized use remain free from structural defect in material and workmanship. For purposes of this warranty, the terms "Correct Craft" and its Trademark "Nautique" are used interchangeably to refer to Correct Craft, Inc, exclusive manufacturer of Nautique brand boats.

## Transferable Lifetime Limited Warranty:

In addition, Nautique offers a Transferable Lifetime Limited Warranty against structural defect of the deck, hull and stringer system as detailed in the Lifetime Limited Warranty above. This policy may be transferred for a nominal fee to the second (2nd) purchaser during a period of five (5) years from the date of delivery to the original user or purchaser. See owner's manual for proper form.

**Exception:** The "Lifetime" and "Transferable" warranties do not cover the gelcoat nor any other components fastened or applied to the hull or deck. Gelcoat discoloration, blisters, or bubbles and cracks are not considered structural defects.

## **Boat Five (5) Year Transferable Limited Warranty:**

Nautique warrants to the original user or purchaser, whichever comes first, that each new Nautique boat, **as originally manufactured by Correct Craft**, shall under normal authorized use be free of defect in material and workmanship for a period of five (5) years from the date of delivery. Additional policies: Upholstery five-year coverage (3-year parts & labor; 2- year parts); Instrumentation including five-year coverage (3-year parts & labor; 2- year parts); Audio and LINC System three-year coverage.

The remaining portion of this warranty covering **PARTS** (no labor), may be transferred for a nominal fee to the second (2nd) purchaser during a period of five (5) years from the date of delivery. See owner's manual for proper form.

# Gel Coat Three (3) Year Non-transferable Limited Warranty:

Nautique warrants to the original user or purchaser, whichever comes first, of each new Nautique boat that the gel coat, under normal authorized use, shall remain free from defect in material and workmanship (including cracks not caused by negligence, impact or collision) for a period of three (3) years from date of delivery. NOTE: gel coat maintenance is the owner's responsibility.

## **Engine/Power Train:**

For details see Pleasurecraft Marine Engine Co., owner's manual.

All warranty repairs must be performed in the country of purchase (warranty will not be honored in cross international border purchases).

## **Exceptions:**

This "Nautique Limited Warranty" shall not apply to...

 Any Nautique boat which has been used at any time for commercial or racing purposes, as a demonstrator or in a promotional program, ski school or ski show.



# Warranty

- Normal maintenance of boat, or any component thereof, including but not limited to vinyl care, alignment, adjustments, connectors, saltwater/brackish water corrosion, and wear items including, but not limited to, non-skid material, battery, bushings, packing material, bulbs, seals, gaskets, impellers, carpet backing.
- Gelcoat finish or colorfastness of gel coat finish, blisters, chrome plated, anodized or aluminum finish or colorfastness or fading of finish, on carpet or vinyl.
- Damage or malfunction of a boat, or any component thereof, resulting from owner use, lack of maintenance, improper maintenance, impact, misuse, negligence, collision, delay of repair (unless specifically and directly authorized by the Nautique warranty department in writing), trailer or trailer design, improper or inadequate trailering or cradling of the boat.
- Any addition, modification or repair of the boat, or any component thereof, caused by, resulting from or in connection with any party other than Nautique or any defect or product failure caused by, resulting from or in connection with any such addition, modification or repair.
- Any Nautique boat which has been repossessed or sold through an auction house.
- Any and all consequential damages including, but not limited to, costs incurred for haul-out, launching, towing, and storage charges, telephone or rental charges of any type, inconveniences, or loss of time or income.

Any defect or damage covered by this warranty shall, at the discretion of Nautique be repaired free of charge at an authorized dealership or service facility. Repairs will be warranted only for the remainder of the original warranty period. Transportation and/or labor to and from the point of repair will be the responsibility of the owner.



THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. THIS LIMITED WARRANTY IS EXPRESSLY MADE IN LIEU OF ALL OTHER EXPRESSED WARRANTIES. DURATION OF ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, SHALL BE LIMITED TO AND COINCIDENT TO THE DURATION OF THESE EXPRESSED WARRANTIES. UNDER NO CIRCUMSTANCES SHALL CORRECT CRAFT, INC. BE LIABLE TO THE PURCHASER OR ANY THIRD PARTY FOR LOSS OF PROFITS OR OTHER DIRECT OR INDIRECT COSTS, LOSSES OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR AS A RESULT OF DEFECTS IN PRODUCTS HEREIN ABOVE WARRANTED.

Some states do not allow limitations on how long an implied warranty lasts. Some states do not allow the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights, and you also have other rights which may vary from state to state. To the extent that your state does not allow any exclusion or limitation expressed herein, such exclusion or limitation will not apply to you. All other allowable limitations or exclusions shall apply to you.

**Note:** This warranty is expressly conditioned upon the completion and return of the warranty registration card to Nautique. Although not obligated to and without creating such an obligation, this will enable us to notify you of any necessary performance or safety modifications to your boat and to verify ownership in case a warranty claim is filed on your boat.

## **Procedure:**

In the event your Nautique boat has a claim covered by this warranty, the following procedure shall be allowed to secure performance of warranty obligations:

- 1. Notify the selling dealer in writing within thirty (30) days after the discovery of any claimed defect.
- 2. You may be required to transport the boat, at your expense, to an authorized dealership or service facility for their inspection and/or repair.



3. Nautique reserves the right to require further evaluation and/or information regarding a warranty claim against a boat prior to its repair as well as designate the place of repair.

Nautique reserves the right to make changes in prices, color, specifications, equipment, options, materials, hull, decks, and/or discontinue models at any time (without notice), and shall be under no obligation to equip or modify boats built prior to such changes.

Nautique Customer Care, 14700 Aerospace Pkwy, Orlando, Florida 32832  $\,407/855-4141$ , FAX  $\,407/851-7844$ , E-mail address: info@nautique.com. Effective 2013 model boats.

# NAUTIQUE COASTAL EDITION LIMITED WARRANTY

(Nautique Boats as Originally Manufactured by Correct Craft)

The Nautique warranty is backed by a tradition of boat building experience since 1925.

## **Lifetime Limited Warranty:**

Correct Craft, Inc, exclusive manufacturer of Nautique, and also referred to as Nautique herein, warrants to the original user or purchaser, whoever comes first, of each new Nautique boat, that the deck, hull, and stringer system as originally manufactured by Correct Craft, shall under normal authorized use remain free from structural defect in material and workmanship. For purposes of this warranty, the terms "Correct Craft" and its Trademark "Nautique are used interchangeably to refer to Correct Craft, Inc, exclusive manufacturer of Nautique brand boats.

## **Transferable Lifetime Limited Warranty:**

In addition, Nautique offers a Transferable Lifetime Limited Warranty against structural defect of the deck, hull and stringer system as detailed in the Lifetime Limited Warranty above. This policy may be transferred for a nominal fee to the second (2nd) purchaser during a period of three (3) years from the date of delivery to the original user or purchaser. See owner's manual for proper form.



**Exception:** The "Lifetime" and "Transferable" warranties do not cover the gel coat nor any other components fastened or applied to the hull or deck. Gel coat discoloration, blisters, or bubbles and cracks are not considered structural defects.

## **Boat Three (3) Year Transferable Limited Warranty:**

Nautique warrants to the original user or purchaser, whichever comes first, that each new Nautique boat, as originally manufactured by Correct Craft, shall under normal authorized use be free of defect in material and workmanship for a period of three (3) years from the date of delivery. This coverage applies to **factory-installed components** including boat parts, options, or other components not manufactured by Correct Craft, Inc. The remaining portion of this warranty covering **PARTS** (no labor), may be transferred for a nominal fee to the second (2nd) purchaser during a period of three (3) years from the date of delivery. See owner's manual for proper form.

Exposure to a salt or brackish water environment can cause corrosion, or damage. Failure to rinse thoroughly after each use and apply a protective coating will void warranty.

**Gel Coat One (1) Year Non-transferable Limited Warranty:** Nautique warrants to the original user or purchaser, whichever

Nautique warrants to the original user or purchaser, whichever comes first, of each new Nautique boat that the gel coat, under normal authorized use, shall remain free from defect in material and workmanship ,cracks not caused by negligence, impact or collision) for a period of one (1) year from date of delivery. NOTE: gel coat maintenance is the owner's responsibility.

## **Engine Warranty:**

For details see Pleasurecraft Marine Engine Co. owner's manual.

All Warranty Repairs Must Be Performed In The Country Of Purchase (warranty will not be honored in cross international border purchases)



## **Exceptions:**

This "Nautique Coastal Edition Limited Warranty" shall not apply to...

- Any Nautique boat which has been used at any time for commercial or racing purposes, as a demonstrator or in a promotional program, ski school or ski show.
- Normal maintenance of boat, or any component thereof, including but not limited to alignment, adjustments, connectors, saltwater/brackish water corrosion, and wear items including, but not limited to, non-skid material, battery, bushings, packing material, bulbs, seals, gaskets.
- Gel coat finish or colorfastness of gel coat finish, blisters, chrome plated, anodized or aluminum finish or colorfastness of finish.
- Damage or malfunction of a boat, or any component thereof, resulting from owner use, lack of maintenance, improper maintenance, impact, misuse, negligence, collision, delay of repair (unless specifically and directly authorized by the Nautique warranty department in writing), trailer or trailer design, improper or inadequate trailering or cradling of the boat.
- Any addition, modification or repair of the boat, or any component thereof, caused by, resulting from or in connection with any party other than Nautique, or any defect or product failure caused by, resulting from or in connection with any such addition, modification or repair.
- Any Nautique boat which has been repossessed or sold through an auction house.
- Any and all consequential damages including, but not limited to, costs incurred for haul-out, launching, towing, and storage charges, telephone or rental charges of any type, inconveniences, or loss of time or income.

Any defect or damage covered by this warranty shall, at the discretion of Nautique, be repaired free of charge at an authorized dealership or service facility. Repairs will be warranted only for the remainder of the original warranty period. Transportation and/or labor to and from the point of repair will be the responsibility of the owner.



THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. THIS LIMITED WARRANTY IS EXPRESSLY MADE IN LIEU OF ALL OTHER EXPRESSED WARRANTIES. DURATION OF ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, SHALL BE LIMITED TO AND COINCIDENT TO THE DURATION OF THESE EXPRESSED WARRANTIES. UNDER NO CIRCUMSTANCES SHALL CORRECT CRAFT, INC. BE LIABLE TO THE PURCHASER OR ANY THIRD PARTY FOR LOSS OF PROFITS OR OTHER DIRECT OR INDIRECT COSTS, LOSSES OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR AS A RESULT OF DEFECTS IN PRODUCTS HEREIN ABOVE WARRANTED.

Some states do not allow limitations on how long an implied warranty lasts. Some states do not allow the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights, and you also have other rights which may vary from state to state. To the extent that your state does not allow any exclusion or limitation expressed herein, such exclusion or limitation will not apply to you. All other allowable limitations or exclusions shall apply to you.

**Note:** This warranty is expressly conditioned upon the completion and return of the warranty registration card to Nautique. Although not obligated to and without creating such an obligation, this will enable us to notify you of any necessary performance or safety modifications to your boat and to verify ownership in case a warranty claim is filed on your boat.



## **Procedure:**

In the event your Nautique boat has a claim covered by this warranty, the following procedure shall be allowed to secure performance of warranty obligations:

- 1. Notify the selling dealer in writing within thirty (30) days after the discovery of any claimed defect.
- 2. You may be required to transport the boat, at your expense, to an authorized dealership or service facility for their inspection and/or repair.
- 3. Nautique reserves the right to require further evaluation and/or information regarding a warranty claim against a boat prior to its repair as well as designate the place of repair.

Nautique reserves the right to make changes in prices, color, specifications, equipment, options, materials, hull, decks, and/or discontinue models at any time (without notice), and shall be under no obligation to equip or modify boats built prior to such changes.

Nautique Customer Care, 14700 Aerospace Pkwy, Orlando, Florida 32832. 407/855-4141, FAX 407/851-7844, E-mail address: info@nautique.com. Effective 2013 Coastal Edition Model boats.





#### REQUEST FOR TRANSFER OF WARRANTY ON PARTS

#### \*\* A COPY OF THE PURCHASE RECEIPT MUST BE INCLUDED \*\*

At Correct Craft, Inc.'s discretion, the remaining portion of Correct Craft, Inc. "Boat Five (5) Year Transferable Limited Warranty" that covers parts (no labor), can be transferred for \$300.00 to the second purchaser within five (5) years from the date of sale to the first purchaser. The sale must be completed within the first five years. The limited warranty on parts (no labor) will be transferred upon the receipt and verification of: (1) this completed form, (2) a copy of the purchase receipt, (3) a payment of \$300.00 to "Correct Craft, Inc.". This data MUST BE RECEIVED WITHIN 15 DAYS OF THE SALE DATE. The warranty will be transferred retroactive to the sale date. Refer to the warranty policy for details.

NOTE: THIS TRANSFER DOES <u>NOT</u> INCLUDE THE ENGINE.
ORIGINAL OWNER:
BOAT MODEL/TYPE:
HULL NUMBER/CTC:
NEW OWNER INFORMATION:
NAME
STREET / P.O. BOX
CITY / STATE / ZIP CODE
DATE PURCHASED / PHONE
The criteria listed above MUST be received WITHIN 15 DAYS of the sale date. Submit it to Correct Craft, Inc., 14700 Aerospace Pkwy, Orlando, FL 32832, Attention: Warranty Department.

NOTE: Upon verification, the warranty will transfer retroactive to the sale date.





### REQUEST FOR WARRANTY TRANSFER OF HULL. DECK. AND STRINGER

#### \*\* A COPY OF THE PURCHASE RECEIPT MUST BE INCLUDED \*\*

At Correct Craft, Inc.'s discretion, Correct Craft's Lifetime Limited Warranty against structural defects in material and workmanship of the hull, deck and stringer can be transferred, for a nominal fee, to the second purchaser within five (5) years from the date of sale to the first purchaser. The sale must be completed within the first five years. The limited warranty will be transferred upon the receipt and verification of: (1) this completed form, (2) a copy of the purchase receipt, (3) a payment of \$300.00 to "Correct Craft, Inc.". This data MUST BE RECEIVED WITHIN 15 DAYS OF THE SALE DATE. The warranty will be transferred retroactive to the sale date. Refer to the warranty policy for details.

# NOTE: THIS TRANSFER DOES NOT INCLUDE THE ENGINE. ORIGINAL OWNER: BOAT MODEL/TYPE: HULL NUMBER/CTC: NEW OWNER INFORMATION: NAME STREET / P.O. BOX CITY / STATE / ZIP CODE DATE PURCHASED / / PHONE The criteria listed above MUST be received WITHIN 15 DAYS of the sale date. Submit it to Correct Craft, Inc., 14700 Aerospace Pkwy, Orlando, FL 32832, Attention: Warranty

NOTE: Upon verification, the warranty will transfer retroactive to the sale date.

## **NOTES**





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