

367CX



Everglades

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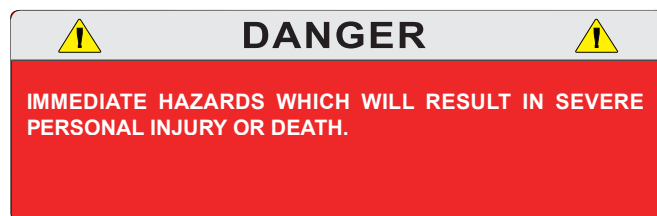
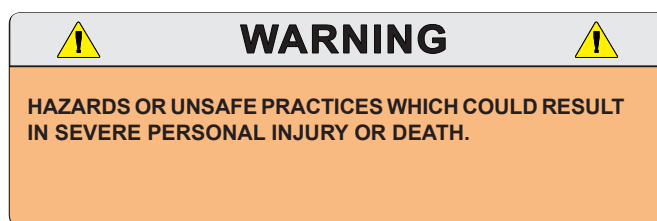
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SAFETY INFORMATION

Your Everglades owner's manual has been written to include a number of safety instructions to assure the safe operation and maintenance of your boat. These instructions are in the form of **DANGER**, **WARNING** and **CAUTION** statements. The following definitions apply:



All instructions given in this book are as seen from the stern looking toward the bow, with starboard being to your right and port to your left. A glossary of boating terms is included.

IMPORTANT NOTE: Your boat uses an internal combustion engine and flammable fuel. Every precaution has been taken by Everglades to reduce the risks associated with possible injury and damage from fire or explosion, but your own precaution and good maintenance procedures are necessary in order to enjoy safe operation of your boat.

SAFETY INFORMATION

State of California Safety Requirements



WARNING



PROPOSITION 65

OPERATING, SERVICING AND MAINTAINING A RECREATIONAL MARINE VESSEL CAN EXPOSE YOU TO CHEMICALS INCLUDING ENGINE EXHAUST, CARBON MONOXIDE, PHTHALATES, AND LEAD, WHICH ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. TO MINIMIZE EXPOSURE, AVOID BREATHING EXHAUST, SERVICE YOUR VESSEL IN A WELL-VENTILATED AREA AND WEAR GLOVES OR WASH YOUR HANDS FREQUENTLY WHEN SERVICING THIS VESSEL. FOR MORE INFORMATION GO TO WWW.P65WARNING.CA.GOV/MARINE.

California Health & Safety Code §§ 25249.5-.13

State of California Emission Requirements

Your boat may be equipped with an engine that meets the special requirements outlined by the California Air Resources Board (CARB). If so, the engine is designed to meet strict requirements and the boat will have a special tag and one of the following labels affixed to it.

The tag and the label are required by CARB. The label has 1, 2, 3 or 4 stars and must be affixed to your boat if it is to be operated in the state of California and/or bordering waters. For more information visit: <http://www.carb.ca.gov>.



BOAT INFORMATION

Please fill out the following information section and leave it in your Everglades owner's manual. This information will be important for you, your dealer and/or Everglades service personnel to know, if you may need to call them for technical assistance or service.

BOAT	
MODEL:	HULL ID #:
PURCHASE DATE:	DELIVERY DATE:
IGNITION KEYS #:	REGISTRATION #:
DOOR KEYS #:	OTHER KEYS #:
ENGINES	
MAKE:	MODEL:
PORT SERIAL #:	STARBOARD SERIAL #:
GENERATOR	
MAKE:	MODEL:
SERIAL #:	KILOWATTS:
PROPELLERS	
MAKE:	BLADES:
RH DIAMETER/PITCH:	LH DIAMETER/PITCH:
AIR CONDITIONERS	
MAKE:	MODEL:
SERIAL #:	BTU OUTPUT:
SERIAL #:	BTU OUTPUT:
ADDITIONAL EQUIPMENT	
DEALER	
NAME:	REPRESENTATIVE:
DEALER/PHONE:	EVERGLADES PHONE:
SALESMAN:	ADDRESS:
SERVICE MANAGER:	
ADDRESS:	
DEALER E-MAIL:	EVERGLADES E-MAIL:

All information, illustrations and specifications contained in this manual are based on the latest product information available at the time of publication. Everglades Boats reserves the right to make changes at anytime, without notice, in colors, materials, equipment, specifications and models.

SPECIFICATIONS

367 CX Specifications

HULL LENGTH OVERALL WITHOUT ENGINES	36' 3" (11.05 m)
HULL LENGTH OVERALL WITH ENGINES.....	37' 3" (11.35 m)
BEAM	10' 10" (3.3 m)
WEIGHT DRY STANDARD - WITH ENGINES (approx)	15,500 lbs (6758.53 kg)
WEIGHT WITH OPTIONS W/ ENGINES, OPTIONS, FUEL & WATER (approx)	19,300 lbs (8,754.33 kg)
DEAD RISE @ TRANSOM	20°
GASOLINE FUEL CAPACITY	330 gal (1,249.18 l)
DIESEL FUEL CAPACITY	20 gal (75.71 l)
WATER TANK CAPACITY.....	40 gal (151.4 l)
HOLDING TANK CAPACITY	20 gal (75.71 l)
MAXIMUM HORSEPOWER.....	900 hp (671.13 kw)

Notice:

Dry weight is the average weight of the base boat without engines, fuel, water, waste or gear.

Specifications and weights are approximate and may differ from boat to boat.

INTRODUCTION & IMPORTANT INFORMATION

All instructions given in this book are as seen from the stern looking toward the bow with starboard being to your right and port to your left. The information and precautions listed in this manual are not all inclusive. It may be general in nature in some cases and detailed in others and is designed to provide you with a basic understanding of your Everglades boat and some of the responsibilities that go along with owning/operating your boat.

The suppliers of some of the major components such as the engines, pumps and appliances, provide their own owner's manuals which have been included with your boat. You should read the information in this manual and the manuals of other suppliers completely and have a thorough understanding of all component systems and their proper operation before operating your boat.

REMEMBER - IT IS YOUR RESPONSIBILITY TO ENSURE THAT YOUR BOAT IS SAFE FOR YOU AND YOUR PASSENGERS. ALWAYS EXERCISE GOOD COMMON SENSE WHEN INSTALLING EQUIPMENT AND OPERATING THE BOAT.

Warranty and Warranty Registration Cards

The Everglades Limited Warranty Statement is included with your boat. It has been written to be clearly stated and easily understood. If you have any questions after reading the warranty, please contact the Everglades Boats Customer Service Department.

Everglades, engine manufacturers and the suppliers of major components maintain their own manufacturer's warranty and service facilities. It is important that you properly complete the warranty registration cards included with your boat and engine and mail them back to the manufacturer to register your ownership. This should be done within 15 days of the date of purchase and before the boat is put into service. A form for recording this information for your records is provided at the beginning of this manual. This information will be important for you and service personnel to know, if and when you may need service or technical information.

The boat warranty registration requires the Hull Identification Number "HIN" which is located on the starboard side of the transom, just below the rubrail. The engine warranty registration requires the engine serial numbers. Please refer to the engine owner's manual for the location of the serial numbers.



Typical Hull ID # On Starboard Side Of Transom

IMPORTANT:

The terms and conditions of the Everglades Boats Limited Warranty are outlined in the warranty statement included in this manual. The manufacturer will automatically honor the warranty to the original purchaser for 15 days from the date of purchase. However, during that 15 day period, owners must comply with the steps outlined in the warranty statement to validate their warranty.

All boat manufacturers are required by the Federal Boat Safety Act of 1971 to notify first time owners in the event any defect is discovered "which creates a substantial risk of personal injury to the public." It is essential that we have your warranty registration card complete with your name and mailing address in our files so that we can comply with the law if it should become necessary.

Your Everglades Boats Dealer will assist you in filling in the hull number and other data required on your Registration Card. Check to see that your card is complete and signed. Detach and mail. Your Warranty Registration Card will be added to our permanent files.

INTRODUCTION & IMPORTANT INFORMATION

Transferring the Limited Structural Warranty

For a transfer fee, Everglades Boats will offer to extend a Transferable Limited Structural Hull Warranty to subsequent owners of Everglades Boats. Please refer to the Everglades Limited Warranty Statement for the terms and conditions of the Transferable Limited Structural Hull Warranty and the procedure to transfer the warranty.

Product Changes

Everglades is committed to the continuous improvement of our boats. As a result, some of the equipment described in this manual or pictured in the catalog may change or no longer be available. All information, illustrations and specifications contained in this manual are based on the latest product information available at the time of publication. Everglades Boats reserves the right to make changes at anytime, without notice, in colors, materials, equipment, specifications and models. If you have questions about the equipment on your Everglades, please contact the Everglades Boats Customer Service Department.

Service

All warranty repairs must be performed by an authorized Everglades Dealer. Should a problem develop that is related to faulty workmanship or materials, as stated in the Limited Warranty, you should contact your Everglades dealer to arrange for the necessary repair. If you are not near your dealer or another authorized Everglades dealer or the dealer fails to remedy the cause of the problem, then contact Everglades within 15 days.

Everglades will not reimburse boat owners for warranty repairs performed without prior authorization provided in writing.

It is the boat owner's responsibility to deliver the boat to the dealer for warranty service.

OWNER/OPERATOR INFORMATION

Registration and Numbering

Federal law requires that all undocumented vessels equipped with propulsion machinery be registered in the state of principal use. A certificate of number will be issued upon registering the boat. These numbers must be displayed on your boat. The owner/operator of a boat must carry a valid certificate of number whenever the boat is in use. When moved to a new state of principal use, the certificate is valid for 60 days.

In order to be valid, the numbers must be installed to the proper specifications. Check with your dealer or state boating authority for numbering requirements. The Coast Guard issues the certificate of number in Alaska; all others are issued by the state.

Insurance

In most states the boat owner is legally responsible for damages or injuries he or someone else operating the boat causes. Responsible boaters carry adequate liability and property damage insurance for their boat. You should also protect the boat against physical damage and theft. Some states have laws requiring minimum insurance coverage. Contact your dealer or state boating authority for information on the insurance requirements in your boating area.

Reporting Boating accidents

All boating accidents must be reported by the operator or owner of the boat to the proper marine law enforcement authority for the state in which the accident occurred. Immediate notification is required if a person dies or disappears as a result of a recreational boating accident.

If a person dies or there are injuries requiring more than first aid, a formal report must be filed within 48 hours.

A formal report must be made within 10 days for accidents involving more than \$500.00 damage or the complete loss of a boat.

A Boating Accident Report form is located near the back of this manual to assist you in reporting an accident. If you need additional information regarding accident reporting, please visit the U.S. Coast Guard Boating Safety web site, www.uscgboating.org,

Education

If you are not an experienced boater, we recommend that the boat operator and other people that normally accompany the operator, enroll in a boating safety course. Organizations such as the U.S. Power Squadron, United States Coast Guard Auxiliary, State Boating Authorities and the American Red Cross offer excellent boating educational programs. These courses are worthwhile even for experienced boaters to sharpen your skills or bring you up to date on current rules and regulations. They can also help in providing local navigational information when moving to a new boating area. Contact your dealer, State Boating Authority or visit the U.S. Coast Guard Boating Safety web site, www.uscgboating.org, for information on boat safety courses.

Required Equipment

U.S. Coast Guard regulations require certain equipment on each boat. The Coast Guard also sets minimum safety standards for vessels and associated equipment. To meet these standards some of the equipment must be Coast Guard approved. "Coast Guard Approved Equipment" has been determined to be in compliance with USCG specifications and regulations relating to performance, construction or materials. The equipment requirements vary according to the length, type of boat and the propulsion system. Some of the Coast Guard equipment is described in the Safety Equipment chapter of this manual. For a more detailed description, obtain "Federal Requirements And Safety Tips For Recreational Boats" by visiting the U.S. Coast Guard Boating Safety web site, www.uscgboating.org.

Some state and local agencies impose similar equipment requirements on waters that do not fall under Coast Guard jurisdiction. These agencies may also require additional equipment that is not required by the Coast Guard. Your dealer or local boating authority can provide you with additional information for the equipment requirements for your boating area.

NOTES

SAFETY EQUIPMENT

1.1 General

Your boat and outboard engines have been equipped with safety equipment designed to enhance the safe operation of the boat and to meet U.S. Coast Guard safety standards. The Coast Guard or state, county and municipal law enforcement agencies require certain additional accessory safety equipment on each boat. This equipment varies according to length and type of boat and type of propulsion. The accessory equipment typically required by the Coast Guard is described in this chapter. Some local laws require additional equipment. It is important to obtain "Federal Requirements And Safety Tips for Recreational Boats," published by the Coast Guard and copies of state and local laws, to make sure you have the required equipment for your boating area.

Your boat is equipped with engine alarms. The alarm systems are designed to increase your boating safety by alerting you to potentially serious problems in the primary power system. Alarm systems are not intended to lessen or replace good maintenance and pre-cruise procedures.

This chapter also describes safety related equipment that could be installed on your boat. This equipment will vary depending on the type of engines and other options installed by you or your dealer.

1.2 Engine Alarms

Most outboard engines are equipped with an audible alarm system mounted in the helm area that monitors selected critical engine systems. The alarm will sound if one of these systems begins to fail. Refer to the engine owner's manual for information on the alarms installed with your engines.

If the alarm sounds:

- Immediately throttle the engines back to idle.
- Shift the transmissions to neutral.
- Monitor the engine gauges to determine the cause of the problem.
- If necessary, shut off the engine and investigate until the cause of the problem is found.



Throwable Device & Personal PFD

1.3 Neutral Safety Switch

Every control system has a neutral safety switch incorporated into it. This device prohibits the engines from being started while the shift levers are in any position other than the neutral position. If an engine will not start, slight movement of the shift lever may be necessary to locate the neutral position and disengage the safety cutout switch. Control adjustments may be required to correct this condition should it persist. See your Everglades dealer for necessary control adjustments. Please refer to the Helm Control Systems chapter for more information on the neutral safety switch.

1.4 Engine Stop Switch

Your boat is equipped with a engine stop switch and lanyard. When the lanyard is pulled it will engage the switch and shut off the engines. We strongly recommend that the lanyard be attached to the driver and the stop switch whenever the engines are running. If the engines will not start, it could be because the lanyard is not properly inserted into the engine stop switch. Always make sure the lanyard is properly attached to the engine stop switch before attempting to start the engine.

Notice:

In some states, a lanyard attached to the driver at all times is required by law.

Notice:

You should carry an extra stop switch lanyard and instruct at least one other crew member on the operation of the stop switch and location of the extra lanyard.

1.5 Required Safety Equipment

Besides the equipment installed on your boat by Everglades, certain other equipment is required by the U.S. Coast Guard to help ensure passenger safety. Items like a sea anchor, working anchor, extra dock lines, flare pistol, life vests, a line permanently secured to your ring buoy, etc., could at some time save your passengers' lives or save your boat from damage. Refer to the "Federal Requirements And Safety Tips For Recreational Boats" pamphlet for a more detailed description of required equipment. You also can visit the U.S. Coast Guard Boating Safety web site, www.uscgboating.org, for information on boat safety courses and brochures listing the Federal equipment requirements. Also, check your local and state regulations.

The Coast Guard Auxiliary offers a "Courtesy Examination." This inspection will help ensure that your boat is equipped with all of the necessary safety equipment. The following is a list of the accessory equipment required on your boat by the U.S. Coast Guard:

Personal Flotation Devices (PFDs)

PFDs must be Coast Guard approved, in good and serviceable condition and of appropriate size for the intended user. Wearable PFDs must be readily accessible, meaning you must be able to put them on in a reasonable amount of time in an emergency. Though not required, the Coast Guard emphasizes that PFDs should be worn at all times when the vessel is underway. Throwable devices must be immediately available for use. All Everglades boats must be equipped with at least one Type I, II or III PFD for each person on board, plus one throwable device (Type IV).

Notice:

Many state laws now require that children 13 years old and under must wear a PFD at all times.

Anyone being towed on skis, wakeboards and other water sports equipment is considered a passenger on the boat and must wear a Coast Guard approved life jacket at all times.

Visual Distress Signals

All boats used on coastal waters, the Great Lakes, territorial seas and those waters connected directly to them, must be equipped with Coast Guard approved visual distress signals. These signals are either Pyrotechnic or Non-Pyrotechnic devices.

Pyrotechnic Visual Distress Signals:

Pyrotechnic visual distress signals must be Coast Guard approved, in serviceable condition and readily accessible. They are marked with a date showing the service life, which must not have expired. A minimum of three are required. Some pyrotechnic signals meet both day and night use requirements. They should be stored in a cool, dry location. They include:

- Pyrotechnic red flares, hand held or aerial.
- Pyrotechnic orange smoke, hand-held or floating.
- Launchers for aerial red meteors or parachute flares.

**WARNING**

PYROTECHNICS ARE UNIVERSALLY RECOGNIZED AS EXCELLENT DISTRESS SIGNALS. HOWEVER, THERE IS POTENTIAL FOR INJURY AND PROPERTY DAMAGE IF NOT PROPERLY HANDLED. THESE DEVICES PRODUCE A VERY HOT FLAME AND THE RESIDUE CAN CAUSE BURNS AND IGNITE FLAMMABLE MATERIAL. PISTOL LAUNCHED AND HAND-HELD PARACHUTE FLARES AND METEORS HAVE MANY CHARACTERISTICS OF A FIREARM AND MUST BE HANDLED WITH CAUTION. IN SOME STATES THEY ARE CONSIDERED A FIREARM AND PROHIBITED FROM USE. ALWAYS BE EXTREMELY CAREFUL AND FOLLOW THE MANUFACTURER'S INSTRUCTIONS EXACTLY WHEN USING PYROTECHNIC DISTRESS SIGNALS.

Non-Pyrotechnic Devices

Non-Pyrotechnic visual distress signals must be in serviceable condition, readily accessible and certified by the manufacturer as complying with U.S. Coast Guard requirements. They include:

- Orange Distress Flag (Day use only)
The distress flag is a day signal only. It must be at least 3 x 3 feet with a black square and ball on an orange background. It is most distinctive when attached and waved from a paddle or boat hook.
- Electric Distress Light (Night use only)
The electric distress light is accepted for night use only and must automatically flash the international SOS distress signal. Under "Inland Navigation Rules," a high intensity white light flashing at regular intervals from 50-70 times per minute is considered a distress signal.

Sound Signaling Devices

The navigation rules require sound signals to be made under certain circumstances. Recreational vessels also are required to sound fog signals during periods of reduced visibility. Therefore, you must have some means of making an efficient sound signal.

Safety Equipment

Navigation Lights

Recreational boats are required to display navigation lights between sunset and sunrise and other periods of reduced visibility (fog, rain, haze, etc.) Navigation lights are intended to keep other vessels informed of your presence and course. Your boat is equipped with navigation lights required by the U.S. Coast Guard at the time of manufacture. It is up to you to make sure they are operational and turned on when required.

Fire Extinguishers

Your boat is required to have two or more marine type USCG approved fire extinguishers, depending on the size of your boat and the options selected. Coast Guard approved fire extinguishers are hand-portable, either B-I or B-II classification and have a specific marine type mounting bracket. It is recommended that the extinguishers be mounted in a readily accessible position.

Fire extinguishers require regular inspections to ensure that:

- Seals & tamper indicators are not broken or missing.
- Pressure gauges or indicators read in the operable range.
- There is no obvious physical damage, corrosion, leakage or clogged nozzles.



Refer to the "Federal Requirements And Safety Tips For Recreational Boats" pamphlet or visit the U.S. Coast Guard Boating Safety web site, www.uscgboating.org, for information on the type and size fire extinguisher required for your boat.

Refer to the information provided by the fire extinguisher manufacturer for instructions on the proper maintenance and use of your fire extinguisher.

**CAUTION**

INFORMATION FOR HALON, AGENT FE-241 AND AGENT FM 200 FIRE EXTINGUISHERS IS PROVIDED BY THE MANUFACTURER. IT IS ESSENTIAL THAT YOU READ THE INFORMATION CAREFULLY AND COMPLETELY UNDERSTAND THE SYSTEM, IN THEORY AND OPERATION, BEFORE USING YOUR BOAT.

Notice:

A fire extinguisher label indicates the recommended location for each portable fire extinguisher. You should become familiar with the symbol shown in this section and the location of each fire extinguisher.



Fire Extinguisher Location Label

Your boat has fire extinguishers supplied by you or your dealer that are located in labeled compartments on each side of the cockpit. It is the responsibility of the boat owner and/or operator to make sure that all fire fighting equipment is in serviceable condition and readily accessible.

You should inform all passengers of the location and operation of the fire fighting equipment and never block access to the fire extinguishers.

**WARNING**

TO PREVENT FIRE OR EXPLOSION, DO NOT STORE GASOLINE, DIESEL FUEL OR OTHER FLAMMABLE LIQUIDS IN THE AFT SYSTEMS COMPARTMENT, FISHBOXES OR ANY OTHER STORAGE COMPARTMENTS. THESE COMPARTMENTS ARE NOT DESIGNED WITH VENTILATION ADEQUATE FOR FLAMMABLE LIQUID STORAGE.

1.6 Bilge & Fuel Fires

Fuel compartment and bilge fires are very dangerous because of the presence of gasoline in the various components of the fuel system and the possibility for explosion. You must make the decision to fight the fire or abandon the boat. If the fire cannot be extinguished quickly or it is too intense to fight, abandoning the boat may be your only option. If you find yourself in this situation, make sure all passengers have a life preserver on and go over the side and swim well upwind of the boat. This will keep you and your passengers well

Safety Equipment

clear of any burning fuel that could be released and spread on the water as the boat burns or in the event of an explosion. When clear of the danger, check about and account for all those who were aboard with you. Give whatever assistance you can to anyone in need or in the water without a buoyant device. Keep everyone together in a group for morale and to aid rescue operations.



WARNING



GASOLINE CAN EXPLODE. IN THE EVENT OF A FUEL COMPARTMENT OR BILGE FIRE, YOU MUST MAKE THE DIFFICULT DECISION TO FIGHT THE FIRE OR ABANDON THE BOAT. YOU MUST CONSIDER YOUR SAFETY, THE SAFETY OF YOUR PASSENGERS, THE INTENSITY OF THE FIRE AND THE POSSIBILITY OF AN EXPLOSION IN YOUR DECISION.



Typical Automatic Fire Extinguishing System
In The Aft Systems Compartment

1.7 Automatic Fire Extinguishing System

If your boat is equipped with the optional generator, the aft systems/generator compartment is equipped with an automatic fire extinguishing system. The equipment has been chosen and located to provide sufficient volume and coverage of the entire compartment area. While the system ensures excellent bilge fire protection, it does not eliminate the U.S. Coast Guard requirement for hand held fire extinguishers. The fire extinguishing system is automatically activated when the temperature in the compartment reaches a specific temperature, usually around 165° F.

A system status enclosure is mounted behind the fire extinguisher panel behind the forward cockpit bulkhead, starboard of the helm. It has fuses for circuit protection and a see-through cover to easily observe the circuit board mounted LEDs, which indicate circuit board and Fireboy extinguisher status, or that a fault condition exists.

LED indicator lights in the fire extinguisher panel at the helm show the status of the system. Under normal circumstances, whenever the House battery switch is turned on, the green indicator light will glow. This indicates that the system is operating and ready for activation if necessary. If the indicator light does not glow when the House battery switch is turned on, either the system has discharged or there is a problem that should be corrected before using the boat.

The green light on the fire extinguisher panel will go off, the red light will illuminate and an alarm will sound if activation should occur during the



Fire Extinguisher Panel In Helm



Manual Pull Station In Aft Cockpit

Safety Equipment

operation of the boat. You may also hear a rushing air sound as the extinguishing agent discharges.

There is a pull station in the port rear of the cockpit that provides a means to manually activate the system. Remove the pin and pull the handle firmly to discharge the extinguishing agent.

Typically, the system will shut down the generator and blower when it discharges. If the generator and blower continue to run, they should immediately be shutdown manually. Additionally, the engines and main battery switches should be shutdown, provided it is safe to do so.

When sufficient time has elapsed for the fire to be extinguished and a flashback is no longer possible, find and fix the problem, then activate the battery switches and the engines can be restarted.

The system is also equipped with an override switch. Refer to the automatic fire extinguisher operation manual for the override procedure and additional information on the system.

**WARNING**

IF ACTIVATION SHOULD OCCUR, IMMEDIATELY SHUT DOWN THE GENERATOR. SHUTDOWN THE ENGINES, IF SAFE TO DO SO, THEN TURN OFF ALL ELECTRICAL SYSTEMS, POWERED VENTILATION AND EXTINGUISH ALL SMOKING MATERIALS. DO NOT OPEN THE SYSTEMS COMPARTMENT HATCH IMMEDIATELY!! THIS FEEDS OXYGEN TO THE FIRE AND FLASH BACK COULD RESULT. ALLOW THE EXTINGUISHING AGENT TO SOAK THE COMPARTMENT FOR AT LEAST 15 MINUTES AND WAIT FOR HOT METALS OR FUELS TO COOL BEFORE CAUTIOUSLY INSPECTING FOR CAUSE OR DAMAGE. HAVE AN APPROVED PORTABLE FIRE EXTINGUISHER AT HAND AND READY FOR USE. DO NOT BREATHE FUMES OR VAPORS CAUSED BY THE FIRE!!

1.8 Carbon Monoxide Monitoring System

**DANGER**

CARBON MONOXIDE IS COLORLESS, ODORLESS AND DANGEROUS. ALL ENGINES, GENERATORS AND FUEL BURNING APPLIANCES EXHAUST CARBON MONOXIDE (CO). DIRECT AND PROLONGED EXPOSURE TO CO WILL CAUSE BRAIN DAMAGE OR DEATH. SIGNS OF EXPOSURE TO CO INCLUDE NAUSEA, DIZZINESS AND DROWSINESS.

The carbon monoxide (CO) detector is installed in the cabin as standard equipment and warns the occupants of dangerous accumulations of carbon



Typical Carbon Monoxide Detector

monoxide gas. If excess carbon monoxide fumes are detected, the detector will sound an alarm indicating the presence of the toxic gas.

Should a very high level of carbon monoxide exist, the alarm will sound in a few minutes. However, if small quantities of CO are present or high levels are short-lived, the alarm will accumulate the information and determine when an alarm level has been reached.

The carbon monoxide detector is battery operated and the power light should be lit to indicate that it is activated. The detector should be tested frequently to ensure the battery doesn't need to be replaced.

Always make sure the power light on the carbon monoxide detector is lit whenever the cabin is occupied.

A by-product of combustion, carbon monoxide (CO) is invisible, tasteless, odorless and is produced by all engines, heating and cooking appliances. The most common sources of CO on boats are the engines, auxiliary generators and propane or butane stoves. These produce large amounts of CO and should never be operated while sleeping.

A slight buildup of carbon monoxide over several hours causes headache, nausea and other symptoms that are similar to food poisoning, motion sickness or flu. High concentrations can be fatal within

Safety Equipment

minutes. Many cases of carbon monoxide poisoning indicate that while victims are aware they are not well, they become so disoriented they are unable to save themselves by either exiting the area or calling for help. Also, young children, elderly persons and pets may be the first affected.

Drug or alcohol use increases the effect of CO exposure. Individuals with cardiac or respiratory conditions are very susceptible to the dangers of carbon monoxide. CO poisoning is especially dangerous during sleep when victims are unaware of any side effects. The following are symptoms which may signal exposure to CO: (1) Headache (2) Tightness of chest or hyperventilation (3) Flushed face (4) Nausea (5) Drowsiness (6) Fatigue or Weakness (7) Inattention or confusion (8) Lack of normal coordination.

Persons who have been exposed to carbon monoxide should be moved into fresh air immediately. Have the victim breath deeply and seek immediate medical attention. To learn more about CO poisoning, contact your local health authorities.

Low levels of carbon monoxide over an extended period of time can be just as lethal as high doses over a short period. Therefore, low levels of carbon monoxide can cause the alarm to sound before the occupants of the boat notice any symptoms of carbon monoxide poisoning. CO detectors are very reliable and rarely sound false alarms. If the alarm sounds, always assume the hazard is real and move persons who have been exposed to carbon monoxide into fresh air immediately. Never disable the CO detector because you think the alarm may be false. Always contact the detector manufacturer or your local fire department for assistance in finding and correcting the situation.

Remember, carbon monoxide detectors do not guarantee that CO poisoning will not occur. Do not use the CO detector as a replacement for ordinary precautions or periodic inspections of equipment. Never rely on alarm systems to save your life, common sense is still prudent and necessary.

You should read the owner's manual supplied by the CO detector manufacturer and included with this manual for operation instructions and additional information regarding the hazards of carbon monoxide gas. Refer to the Ventilation System chapter for information on ventilating your boat properly while underway and other precautions while at anchor or in a slip. This is especially essential if your boat is equipped with the generator.



First Aid Kit

Many manufacturers of carbon monoxide detectors offer a testing and recertification program. We recommend that you contact the manufacturer of your carbon monoxide detector and have it tested and recertified periodically.

1.9 First Aid

It is the operator's responsibility to be familiar with the proper first-aid procedures and be able to care for minor injuries or illnesses of your passengers. In an emergency, you could be far from professional medical assistance. We strongly recommend that you be prepared by receiving training in basic first aid and CPR. This can be done through classes given by the Red Cross or your local hospital.

Your boat should also be equipped with at least a simple marine first-aid kit and a first-aid manual. The marine first-aid kit should be designed for the marine environment and be well supplied. It should be accessible and each person on board should be aware of its location. As supplies are used, replace them promptly. Some common drugs and antiseptics may lose their strength or become unstable as they age. Ask a medical professional about the supplies you should carry and the safe shelf life of prescription drugs or other medical supplies that may be in your first-aid kit. Replace questionably old supplies whether they have been used or not.

In many emergency situations, the Coast Guard can provide assistance in obtaining medical advice for treatment of serious injuries or illness. If you are within VHF range of a Coast Guard Station, make the initial contact on channel 16 and follow their instructions.

1.10 Additional Safety Equipment

Besides meeting the legal requirements, prudent boaters carry additional safety equipment. This is particularly important if you operate your boat offshore. You should consider the following items, depending on how you use your boat.

Satellite EPIRBs

EPIRBs (Emergency Position Indicating Radio Beacon) operate as part of a worldwide distress system. When activated, EPIRBs will send distress code homing beacons that allow Coast Guard aircraft to identify and find them quickly. The satellites that receive and relay EPIRB signals are operated by the National Oceanic and Atmospheric Administration (NOAA) in the United States. The EPIRB should be mounted and registered according to the instructions provided with the beacon, so that the beacon's unique distress code can be used to quickly identify the boat and owner.

Marine Radio

A marine radio is the most effective method of receiving information and requesting assistance. VHF marine radios are used near shore and single sideband radios are used for long range communication.

There are specific frequencies to use in an emergency. The VHF emergency channel is 16 in the United States. You should read the owners manual for your radio and know how to use it in an emergency or for normal operation. If you hear a distress call you should assist or monitor the situation until help is provided.

Additional Equipment to Consider:

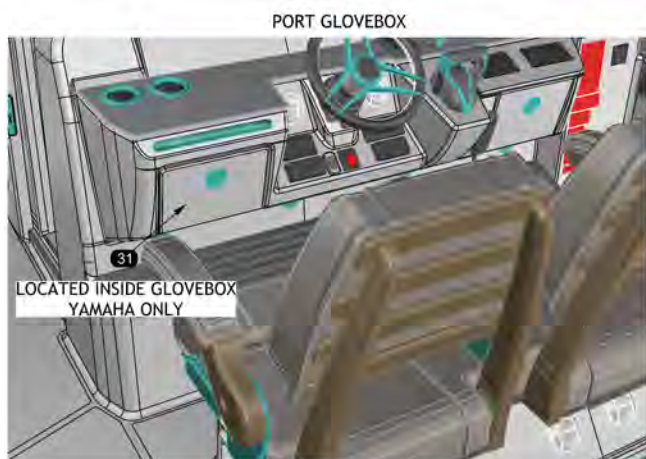
Cell Phone	Spare Anchor
Fenders	Heaving Line
Mirror	First Aid Kit
Tool Kit	Flashlight & Batteries
Anchor	Search light
Boat Hook	Sunburn Lotion
Mooring Lines	Ring Buoy or Boat Cushion
Binoculars	Whistle or Horn
Extra Clothing	Portable Radio
Chart and Compass	Marine Hardware
Food & Water	Spare Keys
Sunglasses	Spare Parts
Spare Propellers	Spare Propeller Hub Kits

Safety Equipment

1.11 Caution & Warning Labels

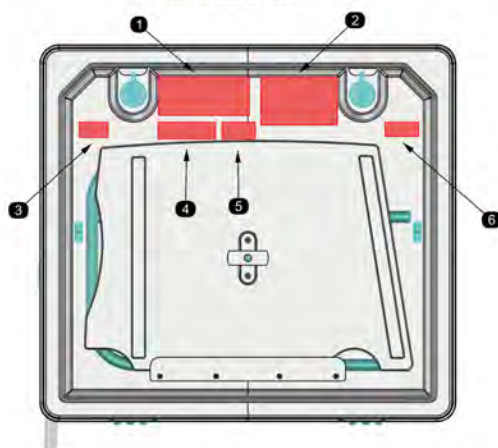
The caution and warning labels shown are examples of the labels that could be on your boat. The actual labels and their location could vary on your boat.

Caution and warning labels must remain legible for the safety of you and your passengers. If a label becomes missing or damaged it must be replaced. Immediately contact your dealer or Everglades Customer Service for a replacement.



#	PART NUMBER	QTY	DESCRIPTION
1	790-10217-00	2	LABEL, TRASH OVERBOARD DISCHARGE
2	790-10214-00	1	LABEL, DISCHARGE OF OIL PROHIBITED
3	790-10182-00	1	LABEL, DANGER MOVING PARTS (#1745512)
4	790-10201-00	1 OPT.	LABEL, WARNING, GENERATOR SEACOCK
5	790-10215-00	1	LABEL, FUEL SYSTEM WARNING, (NW-201-06)
6	790-10356-00	2	LABEL, WARNING - ELECTRICAL SHOCK 2014 1 1/2 X 3 1/2
7	790-10180-00	1	LABEL, ANCHOR WINDLASS WARNING, ORANGE/BLACK WHITE VINYL
8	790-10453-01	2	LABEL, WARNING, PINCH POINTS
9	790-10122-00	2	LABEL, RAW WATER, DOMED, 2X1, BLACK PRINT/WHITE VINYL
10	790-10378-00	1 ST. 2 OPT.	LABEL, FUEL WARNING, 3 X 1.75
11	790-10385-00	1	LABEL, SHORE POWER INLET, DOMED, 1" X 2"
12	790-10386-00	1 OPT.	LABEL, SHORE POWER, HVAC, DOMED, 1" X 2"
13	SMARTPLUG	1	WARNING, SHORE POWER GROUNDING
14	790-10486-00	1 OPT.	LABEL WARNING INSTALL STEERING GUARDS, AVOID DAMAGE, MERCURY
15	790-10485-00	1	LABEL, DANGER, ROTATING PROPELLER (NW-300-24)
16	790-10207-00	2	LABEL, CO-WARNING CARBON MONOXIDE (NW-204-07)
17	790-10068-00	1	LABEL, FRESH WATER, DOMED, WHITE VINYL/BLACK PRINT
18	790-10181-00	1	LABEL, DANGER-BOARDING LADDER (#1745519)
19	790-10400-00	2	LABEL, WARNING, SEA STATION IN USE
20	790-10219-00	1	LABEL, YACHT CERTIFICATION PLATE, ALUM 4X2-3/4, 27 UP
21	790-10510-00	1	LABEL, MULTHAZARD, DECK
22	790-10410-00	2	LABEL, NON-POTABLE WATER
23	790-10509-00	1	LABEL, MULTHAZARD, HELM
24	790-10280-00	1	LABEL, CAUTION PRIOR TO VESSEL, YELLOW/BLACK PRINT
25	790-10480-00	1	LABEL, HELM SEATED POSITION VISIBILITY WARNING
26	790-10484-00	2	LABEL, DANGER, ROTATING PROPELLER (NW-300)
27	FISCHER-PANDA	1 OPT.	LABEL, CAUTION, PRIOR TO OPERATING GENERATOR
28	820-10016-00	1 OPT.	LABEL, WARNING, GENERATOR BLOWER
29	790-10061-00	4	LABEL, DOMED SLING
30	790-10506-00	2	LABEL, FIRE EXTINGUISHER, 2" WIDE X 2" TALL - 2024
31	790-99024-00	1 ST.	LABEL, SECONDARY IGNITION LANYARD (YAMAHA)
32	790-10519-00	1	Label, Grill Safety
33	790-10520-00	1	Label, NMMA, EPA, Evap
34	790-10383-00	1	LABEL, WARNING, ELECTRIC SHOCK
35	790-10457-00	1	LABEL, LINE 1
36	790-10457-00	1 OPT.	LABEL, LINE 2

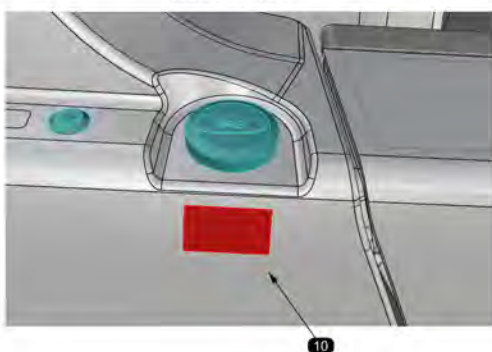
INNER BILGE HATCH



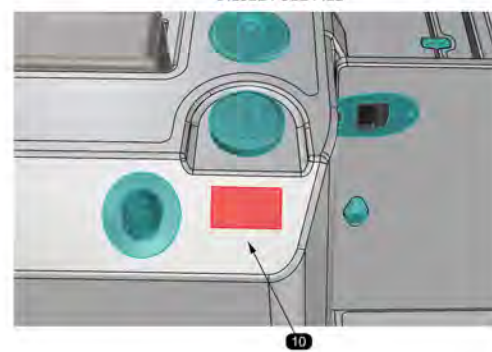
ANCHOR LOCKER



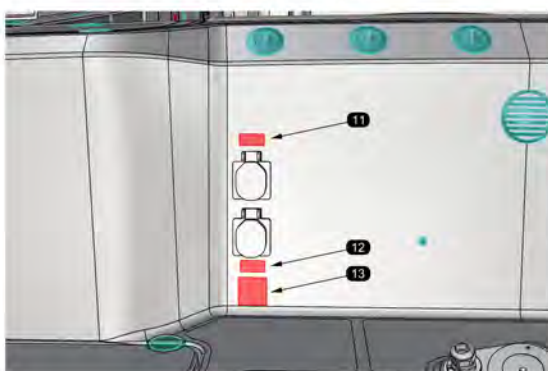
PORT FUEL FILL



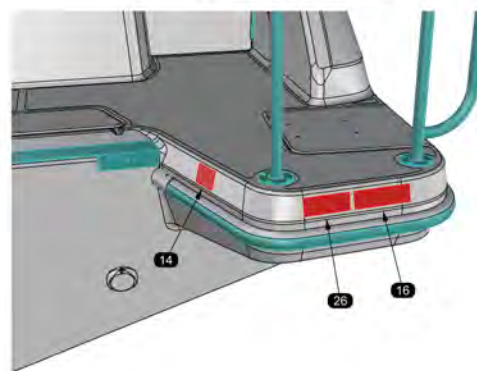
OPTIONAL:
DIESEL FUEL FILL



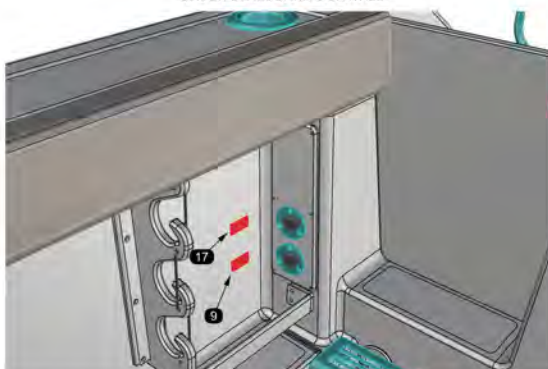
PORT TRANSOM WALL



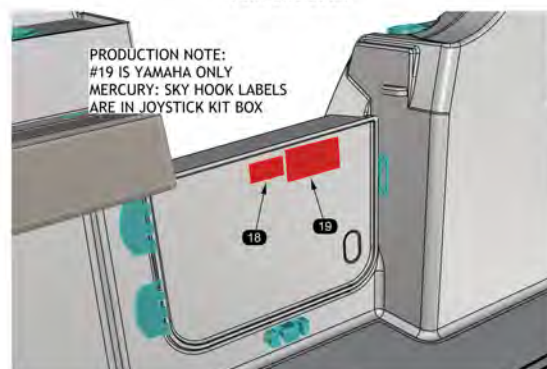
STARBOARD SWIM PLATFORM



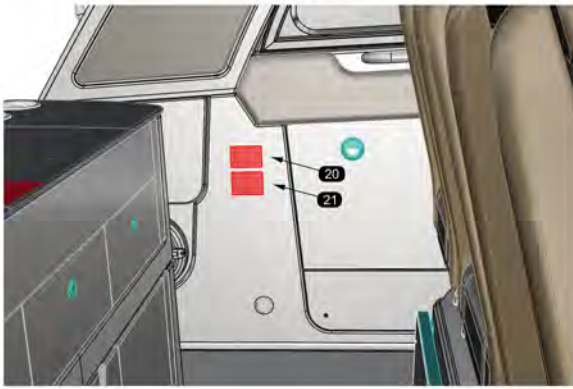
UNDER STARBOARD GUNWALE



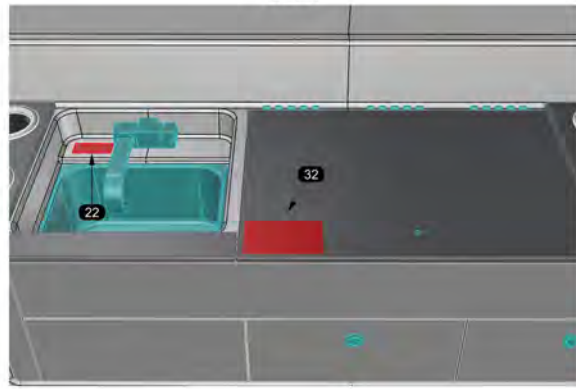
PORT DIVE DOOR



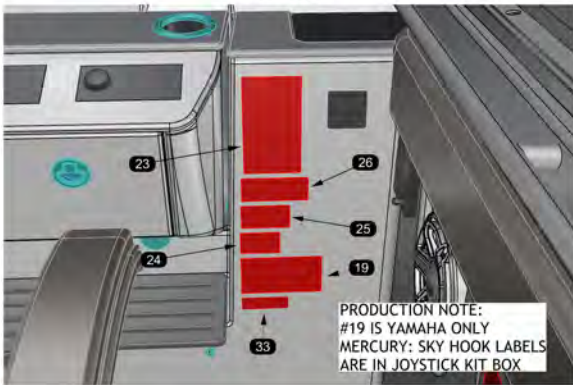
PORT MIDSHIP WALL



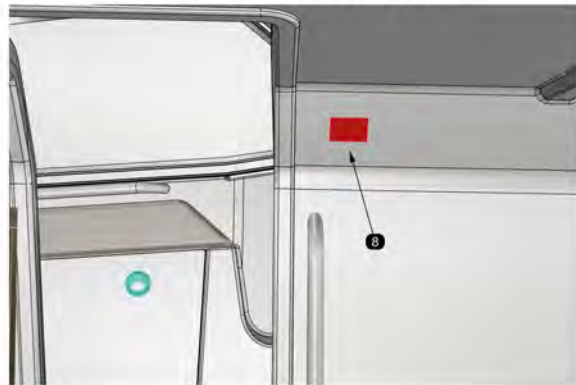
GALLEY



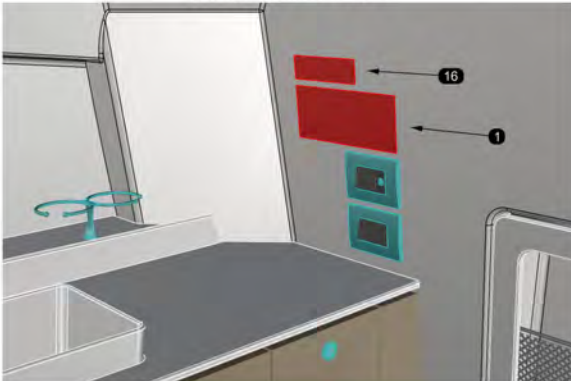
HELM AREA



INSIDE CABIN LOOKING OUT OF DOOR



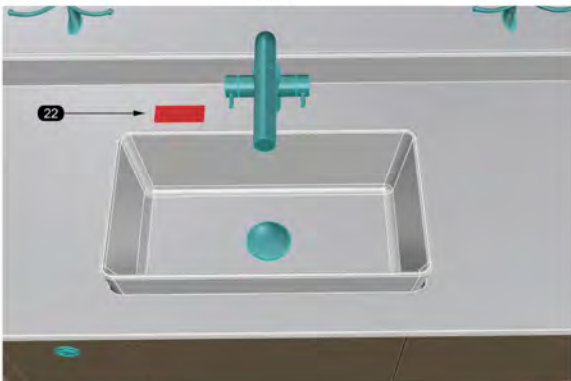
AFT STARBOARD HEAD WALL



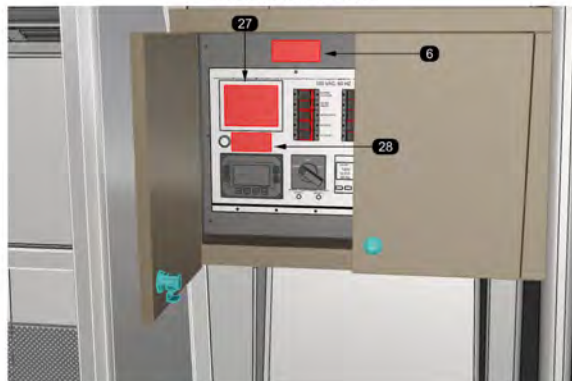
SHORE POWER ONLY MDP PANEL



HEAD SINK



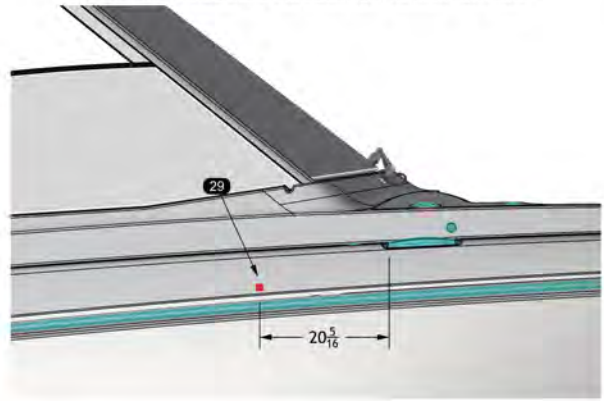
GENERATOR MDP PANEL



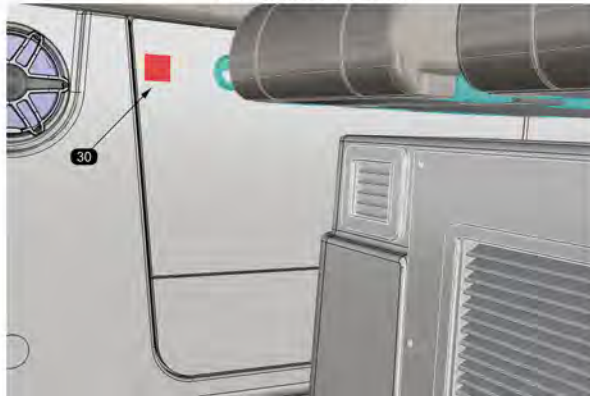
AFT STARBOARD SLING LOCATION, MIRROR FOR PORT



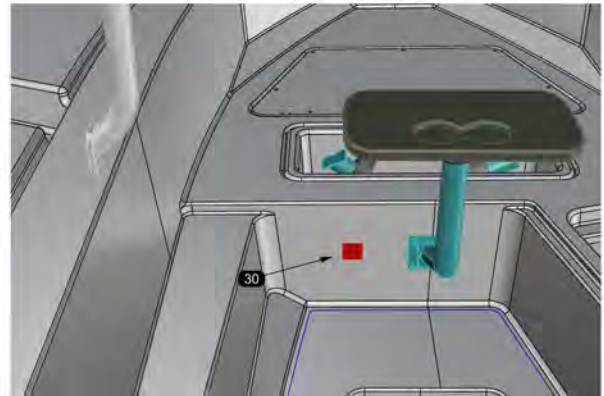
FORWARD STARBOARD SLING LOCATION, MIRROR FOR PORT



STARBOARD GUNWALE BOX



LOWER CABIN WALL



NOTES

OPERATION

2.1 General

Before you start the engines on your Everglades, you should have become familiar with the various component systems and their operation and have performed a "Pre-Cruise System Check." A thorough understanding of the component systems and their operation is essential to the proper operation of the boat. This manual and the associated manufacturers' information is provided to enhance your knowledge of your boat. Please read them carefully.

Your boat must have the necessary safety equipment on board and be in compliance with the U.S. Coast Guard, local and state safety regulations. There should be one Personal Flotation Device (PFD) for each person. Non-swimmers and small children should wear PFDs at all times. You should know and understand the "Rules of the Road" and have had an experienced operator brief you on the general operation of your new boat. At least one other person should be instructed on the proper operation of the boat in case the operator is suddenly incapacitated.

The operator is responsible for his safety and the safety of his passengers. When boarding or loading the boat, always step onto the boat, never jump. All passengers should be properly seated whenever the boat is operated above idle speed. Your passengers should not be allowed to sit on the seat backs, gunnels, bows or transoms whenever the boat is underway. The passengers should also be seated to properly balance the load and must not obstruct the operator's view, particularly to the front.

Overloading and improper distribution of weight can cause the boat to become unstable and are significant causes of accidents. Know the weight capacity and horsepower rating of your boat. Do not overload or overpower your boat.

You should be aware of your limitations and the limitations of your boat in different situations or sea conditions. No boat is indestructible, no matter how well it is constructed. Any boat can be severely damaged if it is operated in a manner that exceeds its design limitations. If the ride is hard on you and your passengers, it is hard on the boat as well. Always modify the boat speed in accordance with the sea conditions, boat traffic and weather conditions.

Remember, it is the operator's responsibility to use good common sense and sound judgment in loading and operating the boat.

2.2 Rules of the Road

As in driving an automobile, there are a few rules you must know for safe boating operation. The following information describes the basic navigation rules and action to be taken by vessels in crossing, meeting or overtaking situations while operating in inland waters. These are basic examples and not intended to teach all the rules of navigation. For further information consult the "Navigation Rules" or contact the Coast Guard, Coast Guard Auxiliary, Department of Natural Resources or your local boat club. These organizations sponsor courses in boat handling, including rules of the road. We strongly recommend such courses. Books or videos on this subject also are available from your local library.

Notice:

Sailboats not under power, paddle boats, vessels unable to maneuver, vessels engaged in commercial fishing and other vessels without power have the right-of-way over motor powered boats. You must stay clear or pass to the stern of these vessels. Sailboats under power are considered motor boats.

Crossing Situations

When two motor boats are crossing, the boat on the right has the right-of-way. The boat with the right-of-way should maintain its course and speed. The other vessel should slow down and permit it to pass. The boats should sound the appropriate signals.

Meeting Head-On or Nearly-So Situations

When two motor boats are approaching each other head-on or nearly head-on, neither boat has the right-of-way. Both boats should reduce their speed and turn to the right so as to pass port side to port side, providing enough clearance for safe passage. The boats should sound the appropriate signals.

Overtaking Situations

When one motor boat is overtaking another motor boat, the boat that is being passed has the right-of-way. The overtaking boat must make the adjustments necessary to provide clearance for a safe passage of

Operation

the other vessel. The boats should sound the appropriate signals.

The General Prudential Rule

In obeying the Rules of the Road, due regard must be given to all dangers of navigation and collision and to any special circumstances, including the limitations of the vessels, which may justify a departure from the rules that is necessary to avoid immediate danger or a collision.

Night Operation

Recreational boats are required to display navigation lights between sunset and sunrise and other periods of reduced visibility such as fog, rain, haze, etc. When operating your boat at night you should:

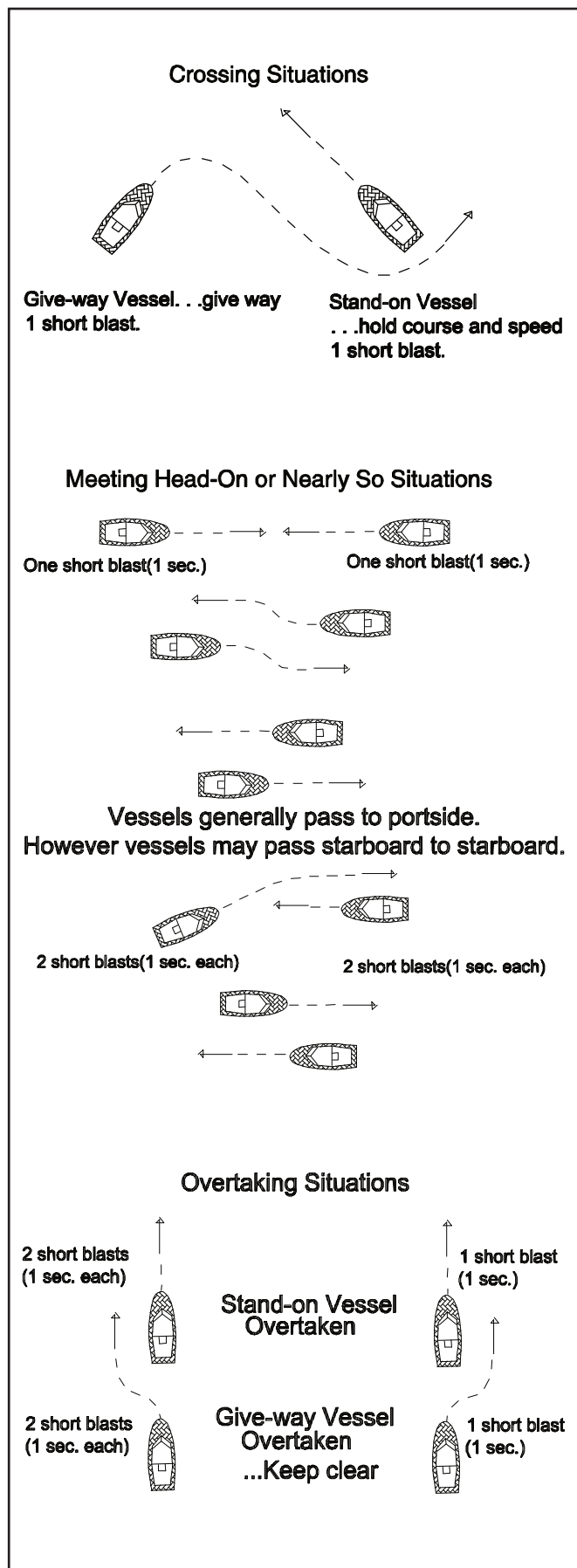
- Make sure your navigation lights are on and working properly. Navigation lights warn others of your position and course and the position and course of other vessels.
- All navigation rules apply. If the bow light of another vessel shows red, you should give way to that vessel, if it shows green, you have the right-of-way.
- Slow down and never operate at high speeds when operating at night, stay clear of all boats and use good common sense. Always be ready to slow down or steer clear of other vessels, even if you have the right-of-way.
- Avoid bright lights that can destroy night vision, making it difficult to see navigation lights and the lights of other boats. You and your passengers should keep a sharp lookout for hazards, other boats and navigational aids.

Navigation Aids

Aids to navigation are placed along coasts and navigable waters as guides to mark safe water and to assist mariners in determining their position in relation to land and hidden dangers. Each aid to navigation is used to provide specific information. You should be familiar with these and any other markers used in your boating area.

Notice:

Storms and wave action can cause buoys to move. You should not rely on buoys alone to determine your position.



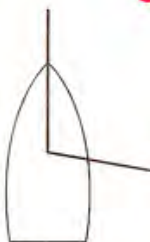
Navigational Aids Chart

REMEMBER THESE RULES

1. OVERTAKING - PASSING: Boat being passed has the right-of-way. KEEP CLEAR.
2. MEETING HEAD ON: Keep to the right.
3. CROSSING: Boat on right has the right-of-way. Slow down and permit boat to pass.

← PORT

Yield right-of-way to boats in your DANGER ZONE!



STARBOARD →

DANGER ZONE (Dead ahead to 2 points abaft your starboard beam)

STORM WARNINGS



RED FLAG
Small craft
(winds to 33 knots)



2 RED FLAGS
Gale
(winds up to 47 knots)



SQUARE RED FLAG
BLACK BOX
(Storm)



2 SQUARE RED FLAGS
BLACK BOX
(Hurricane)

WHISTLE SIGNALS

ONE LONG BLAST: Warning signal

(Coming out of slip)

ONE SHORT BLAST: Pass on my port side

TWO SHORT BLASTS: Pass on my starboard side

THREE SHORT BLASTS: Engine(s) in reverse

FOUR OR MORE BLASTS: Danger signal

BRIDGE SIGNALS

SOUND

VESSEL: Open

BRIDGE: OK

No

VESSEL: Replies:

RADIO: VHF CH. 13

VISUAL

VESSEL: Open

BRIDGE: OK

No

DAY (Flag)

NIGHT (Lights)

Same

or

Same

LATERAL AIDS AS SEEN ENTERING FROM SEAWARD

PORT SIDE ODD NUMBERED AIDS

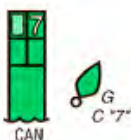
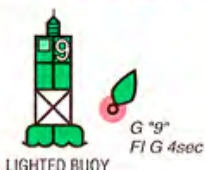
GREEN LIGHT ONLY

FLASHING

OCCULTING

QUICK FLASHING

ISOPHASE



SAFE WATER MID-CHANNELS OR FAIRWAYS NO NUMBERS — MAY BE LETTERED

WHITE LIGHT ONLY MORSE CODE

Mo (A)

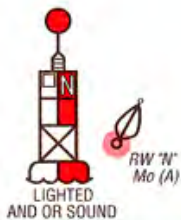
Mo (A)

Mo (A)

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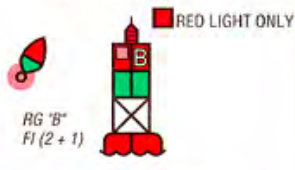
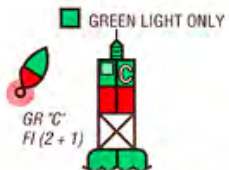


PREFERRED CHANNEL

NO NUMBERS — MAY BE LETTERED

COMPOSITE GROUP FLASHING (2 + 1)

GREEN LIGHT ONLY RED LIGHT ONLY



STARBOARD SIDE EVEN NUMBERED AIDS

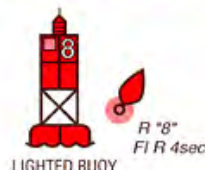
RED LIGHT ONLY

FLASHING

OCCULTING

QUICK FLASHING

ISOPHASE



2.3 Pre-Cruise Check

Before Starting the Engines:

- Check the weather forecast and sea conditions before leaving the dock. Decide if the planned cruise can be made safely.
- Be sure all required documents are on board.
- Be sure all necessary safety equipment is on board and operative. This should include items like the running lights, spotlight, life saving devices, etc. Please refer to the Safety Equipment chapter for additional information on safety equipment.
- Make sure you have signal kits and flare guns aboard and they are current and in good operating condition.
- Be sure you have sufficient water and other provisions for the planned cruise.
- Leave a written message listing details of your planned cruise with a close friend ashore (Float Plan). The float plan should include a description of your boat, where you intend to cruise and a schedule of when you expect to arrive in the cruising area and when you expect to return. Keep the person informed of any changes in your plan to prevent false alarms. This information will tell authorities where to look and the type of boat to look for in the event you fail to arrive.
- Check the amount of fuel on board. Observe the "Rule of Thirds": one third of the fuel for the trip out, one third to return and one third in reserve. An additional 15% may be consumed in rough seas.
- Check the water separating fuel filters for leaks or corrosion.
- Check the crankcase oil level in each engine.
- Turn the battery switches on.
- Check the bilge water level. Look for other signs of potential problems. Monitor for the scent of fuel fumes.
- Test the automatic and manual bilge pump switches to make sure the systems are working properly. This is particularly important before running offshore.

- Have a tool kit aboard. The kit should include the following basic tools:

Hammer	Electrician's tape
Screwdrivers	Offset screwdrivers
Lubricating oil	Pliers
Jackknife	Adjustable wrench
Basic 3/8" ratchet set	Vise grip pliers
Hex key set	Needle nose pliers
Wire crimping tool	Wire connector Set
End wrench set	Medium slip-joint pliers
Diagonal cutting pliers	DC electrical test light



WARNING



THERE MUST BE AT LEAST ONE PERSONAL FLOTATION DEVICE ON BOARD FOR EVERY PERSON ON BOARD AND ONE THROW-OUT FLOTATION DEVICE. CHECK THE U.S. COAST GUARD STANDARDS FOR THE CORRECT TYPE OF DEVICE FOR YOUR BOAT.

- Have the following spare parts on board:

Extra light bulbs	Spark plugs
Fuses and circuit breakers	Main 12 volt fuses
Assorted stainless screws	Assorted stainless bolts
Flashlight and batteries	Drain plugs
Engine oil	Propellers
Fuel filters	Propeller hub kits
Fuel hose and clamps	Wire ties
Assorted hose clamps	Hydraulic steering fluid
Spare bilge pump	Rags

- Make sure all fire extinguishers are in position and in good operating condition.
- Check the engine and steering controls for smooth and proper operation. Be sure the shift controls are in the neutral position.
- Be sure the emergency stop lanyard is attached to the operator and the stop switch.
- Refer to the engine owner's manual for pre-operation checks specific to your engines.

2.4 Operating Your Boat

After Starting the Engines:

- Visibly check the engines to be sure there are no apparent water, fuel or oil leaks.
- Check the operation of the engine cooling systems by monitoring the water flowing from the bypass ports.
- Check the engine gauges. Make sure they are reading normally.
- Check the controls and steering for smooth and proper operation.
- Make sure all lines, cables, anchors, etc. for securing a boat are on board and in good condition. All lines should be coiled, secured and off the decks when underway.
- Have a safe cruise and enjoy yourself.

Remember:

When you operate a boat, you accept the responsibility for the boat, for the safety of passengers and for others out enjoying the water.

- Alcohol and any drugs can severely reduce your reaction time and affect your better judgment.
- Alcohol severely reduces the ability to react to several different signals at once.
- Alcohol makes it difficult to correctly judge speed and distance or track moving objects.
- Alcohol reduces night vision and the ability to distinguish red from green.

**WARNING**

YOU SHOULD NEVER OPERATE YOUR BOAT WHILE UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.

- Make sure one other person on the boat is instructed in the operation of the boat.
- Make sure the boat is operated in compliance with all state and local laws governing the use of a boat.

**WARNING**

DO NOT OPERATE THE BOAT UNLESS IT IS COMPLETELY ASSEMBLED. KEEP ALL FASTENERS TIGHT. KEEP ADJUSTMENTS ACCORDING TO SPECIFICATIONS.

**WARNING**

FAILURE TO FOLLOW THE BREAK-IN PROCEDURE MAY RESULT IN REDUCED ENGINE LIFE OR EVEN SEVERE ENGINE DAMAGE IN YOUR OUTBOARD ENGINES. MAKE SURE YOU FOLLOW THE BREAK-IN PROCEDURE EXACTLY.

- Always operate the blower whenever the generator is running to remove fumes and help cool the compartment.
- Avoid sea conditions that are beyond the skill and experience of you and your crew. Learn to understand weather patterns and indications for change. You should monitor NOAA weather broadcasts before leaving port and periodically while boating. If the weather deteriorates or a storm approaches, seek shelter in a safe harbor.
- Use caution during periods of reduced visibility due to weather or operation conditions. Reduce speed and designate a passenger to be a lookout for other boats, obstacles and navigational markers until you reach port or conditions improve.
- Your Everglades is a heavy boat that will produce a large wake at certain speeds. You are responsible for damage and injury caused by your boat's wake. Always observe no wake zones and be aware that your wake can endanger small vessels and their passengers. Always be courteous and slow down to reduce your wake when passing smaller boats.
- Before operating the boat for the first time, read the engine break-in procedures. The break-in procedures are found in the owner's manual for the engines. The manual is in the literature packet.
- As different types of engines could be used to power the boat, have the dealer describe the operating procedures for your boat. For more instructions on "How To Operate The Boat," make sure you read the instructions given to you in the owner's manual for the engines you have selected.

Notice:

For more instructions on safety, equipment and boat handling, enroll in one of the several free boating courses offered. For information on courses offered in your area go to the U.S. Coast Guard Boating Safety web site at www.uscgboating.org.

Notice:

If the running gear hits an underwater object, stop the engines. Inspect the propulsion system for damage. If the system is damaged, contact your dealer for a complete inspection and repair of the unit.

To stop the boat, follow this procedure:

- Allow the engines to drop to idle speed.
- Make sure the shifting levers are in the neutral position.

Notice:

If the engines have been run at high speed for a long period of time, allow the engines to cool down by running the engines in the idle position for 3 to 5 minutes.

- Turn the ignitions to the OFF position.
- Raise the trim tabs to the full up position.

After Operation:

- If operating in saltwater, wash the boat and all equipment with soap and water. Flush the engines using freshwater. Refer to the engine owner's manual for instructions on flushing your outboard engines.
- Check the bilge area for debris and excess water.
- Fill the fuel tank to near full to reduce condensation. Allow enough room in the tank for the fuel to expand without being forced out through the vent.
- Turn off all electrical equipment except the automatic bilge pumps.
- If you are going to leave the boat for a long period of time, put the battery main switches in the OFF position and close all seacocks.
- Make sure the boat is securely moored.

**CAUTION**

TO PREVENT DAMAGE TO THE BOAT, CLOSE ALL SEACOCKS BEFORE LEAVING THE BOAT.

2.5 Docking, Anchoring & Mooring

Docking and Dock Lines

Maneuvering the boat near the dock and securing the boat requires skill and techniques that are unique to the water and wind conditions and the layout of the dock. If possible, position a crew member at the bow and stern to man the lines and assist in docking operations. While maneuvering close to the dock consideration must be given to the wind and current. You should anticipate the effect these forces will have on the boat and use them to help put the boat where you want it. It is important to practice in open water using an imaginary dock enough to develop a sense for the way your boat handles in a variety of docking scenarios. You must be able to foresee the possibilities and have solutions in mind before problems occur.

Approaching a dock or backing into a slip in high winds or strong currents requires a considerable amount of skill. If you are new to boat handling, you should take lessons from an experienced pilot to learn how to maneuver your boat in tight quarters in less than ideal conditions. You should also practice away from the dock during windy conditions.

Dock lines are generally twisted or braided nylon. Nylon is strong and stretches to absorb shock. It also has a long life and is soft and easy on the hands. The line's size will vary with the size of the boat. Typically a 30 to 40 foot boat will use 5/8 inch line and a 20 to 30 foot boat will use 1/2 inch line. The number of lines and their configuration will vary depending on the dock, the range of the tide and many other factors. Usually a combination of bow, stern and spring lines is used to secure the boat.

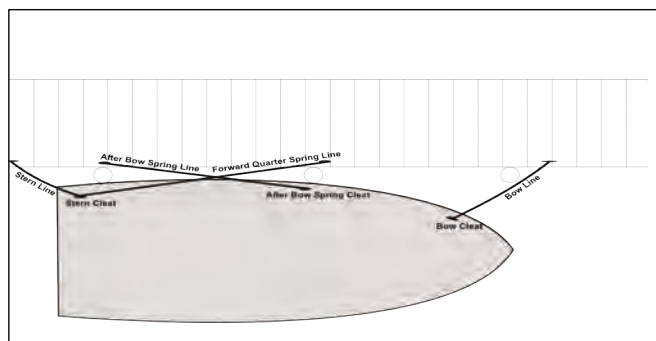
Maneuvering to a Dock or Slip

Notice:

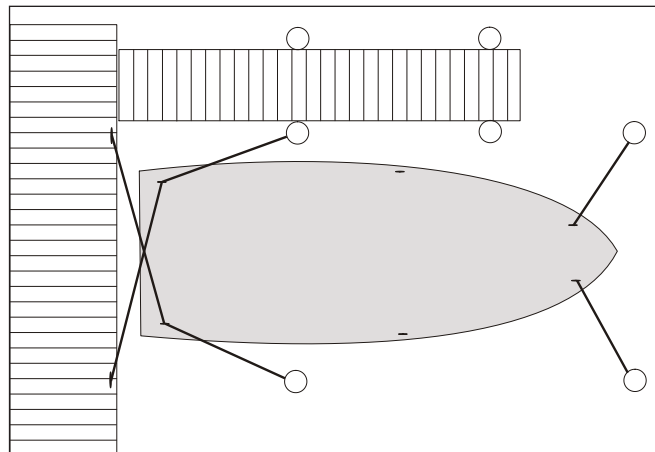
If your boat is equipped with a joystick integrated into the engine control system and you are using the joystick to maneuver the boat, you should leave both engines running while using the joystick control to maneuver the boat to the dock or back into the slip.

Note that most joystick controls will be deactivated if either throttle or shift control lever is moved while maneuvering the boat.

Electronic control system and joystick operation is unique to the engines installed on your boat. Operation manuals for the engines and control systems are included with this manual. You should read these manuals thoroughly and understand the control system in theory and operation before operating your boat. Additionally, your dealer should demonstrate the operation of the control system and instruct you in operating the controls properly.



Securing The Boat Along Side A Dock (Typical)



Securing The Boat In A Slip (Typical)

Maneuvering to a Dock

Approach the dock slowly at a 30 to 40 degree angle. Whenever possible, approach against the wind or current. Turn the engines straight & shift to neutral when you feel you have enough momentum to reach the dock. Use reverse on the outboard engine while turning the steering wheel toward the dock to slow the boat and pull the stern toward the dock as the boat approaches. Straighten the engines and use both engines to stop the boat if it is still moving forward against the pilings. If you executed your approach properly, the boat will lightly touch the pilings at the same time the forward momentum is stopped. Have the dock lines ready and secure the boat as soon as it stops. Use fenders to protect the boat while it is docked. Keep the engines running until the lines are secured.

Backing into a Slip

Approach the slip with the stern against the wind or current and the engines straight ahead. Use the engines and turn the steering wheel to maneuver the boat into alignment with the slip. Reverse the engines and slowly back into the slip. Shift from reverse to neutral frequently to prevent

the boat from gaining too much speed. Move the stern right and left by shifting the engines in and out of gear or turning the wheel. When nearly in the slip all the way, straighten the engines and shift to forward to stop. Keep the engines running until the lines are secured.

Securing Dock Lines

Securing a boat that is tied along side the dock typically requires a bow and stern line and two spring lines. The bow and stern lines are usually secured to the dock at a 40° angle aft of the stern cleat and forward of the bow cleat. The after bow spring line is secured to the dock at a 40° angle aft of the after bow spring cleat. The forward quarter spring is secured to the dock at a 40° angle forward of the stern cleat. The spring lines keep the boat square to the dock and reduce fore and aft movement while allowing the boat to move up and down with the tide.

Securing a boat in a slip is somewhat different. It typically requires two bow lines secured to pilings on each side of the bow, two stern lines secured to the dock and two spring lines that prevent the boat from hitting the dock. The bow lines are typically secured

with enough slack to allow the boat to ride the tide. The stern lines are crossed. One line runs from the port aft boat cleat to the starboard dock cleat and the other line runs from the starboard aft boat cleat to the port cleat on the dock. The stern lines center the boat, control the forward motion and allow the boat to ride the tide. Two forward quarter spring lines typically are secured to the stern cleats and to mid ship pilings or cleats. The spring lines keep the boat from backing into the dock while allowing it to ride the tide.

Leaving the Dock

Always start the engines and let them warm up for several minutes before releasing the lines. Boats steer from the stern and it is important that you achieve enough clearance at the stern to maneuver the boat as quickly as possible. Push the stern off and maneuver such that you get stern clearance quickly. Proceed slowly until well clear of the dock and other boats.

Mooring

Approach the mooring heading into the wind or current. Shift to neutral when you have just enough headway to reach the buoy. Position a crew member on the bow to retrieve the mooring line with a boat hook and secure the line. Keep the engines running until the line is secured.

Leaving a Mooring

Start the engines and let them warm up for several minutes before releasing the mooring line. The boat will already be headed into the wind, so move it forward enough to loosen the line and untie it. Back the boat away from the mooring until you can see the buoy. Move the boat slowly away from the mooring.

Anchoring

Notice:

It is the operators responsibility to ensure the anchor lines, anchor chains and anchors are adequate for the vessels intended use.

Make sure the bitter end of the anchor line is attached to boat before dropping the anchor. Bring the bow into the wind or current and put the engine in neutral. When the vessel comes to a stop, lower the anchor. Pay out anchor line so that it is at least 5 to 7 times the depth of the water and secure the line to a cleat. Use caution to avoid getting your feet or hands tangled in the line. Additional scope of 10 times the depth may be required for storm conditions. Check landmarks on shore or your GPS position to make sure the

anchor is not dragging. If it is dragging, you will have to start all over. It is prudent to use two anchors at the bow if your are anchoring overnight or in rough weather.

After the anchor is set, the windlass must not be left to take the entire force from the anchor line. Boats lying to their anchor in a high swell or heavy weather conditions will snub on the line. This can cause slippage or apply excessive loads to the windlass. The line should always be made fast to a bow cleat to relieve the load on the windlass.

Do not set a bow and stern anchor when mooring, only anchor from the bow. The stern anchor will not allow the boat to swing with the current and wind. If your are anchored in a mooring with other boats, your boat will not swing with the other boats in the mooring, creating a potential for contact with another boat when the tide or wind changes. Additionally, having the stern to the wind or tide creates a potentially hazardous situation for the boat and crew.

Releasing the Anchor

Release the anchor by driving the boat slowly to the point where the anchor line becomes vertical. It should release when you pass that point. If the anchor doesn't release right away, stop the boat directly above the anchor and tie the line to the cleat as tight as possible. The up and down movement of the boat will usually loosen the anchor within a minute. Make sure you secure the anchor and properly stow the line before operating the boat.



WARNING



NEVER ANCHOR THE BOAT BY THE STERN. THE STERN OF THE BOAT IS VULNERABLE TO SWAMPING FROM WAVE ACTION AND WIND AND CURRENT WILL PUT MORE STRESS ON THE ANCHOR WHEN IT IS ATTACHED TO THE STERN. ONLY ANCHOR THE BOAT BY THE BOW

2.6 Controls, Steering or Propulsion System Failure

If the propulsion, control or steering system fails while you are operating the boat, bring the throttles to idle and shift to neutral. Decide whether you need to put out the anchor to prevent the boat from drifting or to hold the bow into the seas. Investigate and correct the problem if you can. Turn the engine off before opening the engine

Operation

cowling to make repairs. If you are unable to correct the problem, call for help.

If only one engine has failed, you can usually run home on the other engine. Be careful not to apply too much power to the engine that is running. When one engine is not operating on a multi engine boat, the remaining engine is over propped and can be overloaded if too much throttle is applied. You should contact your dealer or the engine manufacturer for the maximum power settings when running without one engine.

**CAUTION**

ENGINE DAMAGE CAN RESULT IF PROPER EMERGENCY PROCEDURES ARE NOT FOLLOWED ON MULTI ENGINE BOATS. THIS IS PARTICULARLY IMPORTANT ON BOATS WITH ELECTRONIC STEERING. REFER TO THE ENGINE AND CONTROL SYSTEM MANUALS. ALWAYS FOLLOW THE EMERGENCY PROCEDURES RECOMMENDED BY THE ENGINE MANUFACTURER.

2.7 Collision

If your boat is involved in a collision with another boat, dock, piling or a sandbar, your first priority is to check your passengers for injuries and administer first aid if necessary. Once your passengers situations are stabilized, thoroughly inspect the boat for damage. Check below decks for leaks and the control systems for proper operation. Plug all leaks or make the necessary repairs to the control systems before proceeding slowly and carefully to port. Request assistance if necessary. Haul the boat and make a thorough inspection of the hull and running gear for damage.

2.8 Grounding, Towing & Rendering Assistance

The law requires the owner or operator of a vessel to render assistance to any individual or vessel in distress, as long as his vessel is not endangered in the process.

If the boat should become disabled or if another craft that is disabled requires assistance, great care must be taken. The stress applied to a boat during towing may become excessive. Excessive stress can damage the structure of the boat and create a safety hazard for those aboard.

Freeing a grounded vessel or towing a boat that is disabled, requires specialized equipment and

knowledge. Line failure and structural damage caused by improper towing have resulted in fatal injuries. Because of this, we strongly suggest that these activities be left to those who have the equipment and knowledge, e.g., the U.S. Coast Guard or a commercial towing company, to safely accomplish the towing task.

**DANGER**

THE MOORING CLEATS ON EVERGLADES BOATS ARE NOT DESIGNED OR INTENDED TO BE USED FOR TOWING PURPOSES. THESE CLEATS ARE SPECIFICALLY DESIGNED AS MOORING CLEATS FOR SECURING THE BOAT TO A DOCK, PIER, ETC. DO NOT USE THESE FITTINGS FOR TOWING OR ATTEMPTING TO FREE A GROUNDED VESSEL.

**WARNING**

WHEN TOWING OPERATIONS ARE UNDERWAY, HAVE EVERYONE ABOARD BOTH VESSELS STAY CLEAR OF THE TOW LINE AND SURROUNDING AREA. A TOW LINE THAT SHOULD BREAK WHILE UNDER STRESS CAN BE VERY DANGEROUS AND COULD CAUSE SERIOUS INJURY OR DEATH.

**WARNING**

RUNNING AGROUND CAN CAUSE SERIOUS INJURY TO PASSENGERS AND DAMAGE TO A BOAT AND ITS UNDERWATER GEAR. IF YOUR BOAT SHOULD BECOME GROUNDED, DISTRIBUTE PERSONAL FLOTATION DEVICES AND INSPECT THE BOAT FOR POSSIBLE DAMAGE. THOROUGHLY INSPECT THE BILGE AREA FOR SIGNS OF LEAKAGE. AN EXPERIENCED SERVICE FACILITY SHOULD CHECK YOUR UNDERWATER GEAR AT THE FIRST OPPORTUNITY. DO NOT CONTINUE TO USE YOUR BOAT IF THE CONDITION OF THE UNDERWATER EQUIPMENT IS QUESTIONABLE.

2.9 Flooding or Capsizing

Boats can become unstable if they become flooded or completely swamped. You must always be aware of the position of the boat to the seas and the amount of water in the bilge. Water entering the boat through the transom door, dive door or over the stern gunnels can usually be corrected by closing the doors and turning the boat into the waves. If the bilge is flooding because of a hole in the hull or a defective hose, you may be able to plug it with rags, close the thru-hull valve or assist the pumps by bailing with buckets. Put a mayday call in to the Coast Guard or nearby boats and distribute life jackets as soon as you discover your boat is in trouble.

If the boat becomes swamped and capsizes, you and your passengers should stay with the boat as long

as you can. It is much easier for the Coast Guard, aircraft or other boats to spot, than people in the water. If your boat is equipped with an EPIRB, make sure it is activated. When activated, EPIRBs will send distress code homing beacons that allow Coast Guard aircraft to identify your boat and find you quickly.

2.10 Fishing

Fishing can be very exciting and distracting for the operator when the action gets intense. You must always be conscious of the fact that your primary responsibility is the safe operation of your boat and the safety of your passengers and other boats in the area.

You must always make sure the helm is properly manned and is never left unattended while trolling. If your boat is equipped with an upper helm station, caution and good common sense must be exercised whenever someone is in the upper helm. Remember, weight in the upper helm station raises the boat's center of gravity and the boat's motion is greatly exaggerated for the person in the upper helm.

If you are fishing in an area that is crowded with other fishing boats, it may be difficult to follow the rules of the road. This situation can become especially difficult when most boats are trolling. Being courteous and exercising good common sense is essential. Avoid trying to assert your right-of-way and concentrate on staying clear and preventing tangled or cut lines and other unpleasant encounters with other boats. Also keep in mind that fishing line wrapped around a propeller shaft can damage seals in the engine lower unit.

2.11 Man Overboard

If someone falls overboard, you must be prepared to react quickly, particularly when you are offshore. The following procedures will help you in recovering a person that has fallen overboard.

- Immediately stop the boat and sound a man overboard alarm and have all passengers point to the person in the water.
- Circle around quickly and throw a cushion or life jacket to the person, if possible and another to use as a marker.
- Keep the person on the driver side of the boat so you can keep him in sight at all times.
- Make sure to approach the person from the downwind side and maneuver the boat so the propellers are well clear of the person in the water.
- Turn off the engines when the person is alongside and use a ring buoy with a line attached, a paddle or boat hook to assist him to the boat. Make sure you don't hit him with the ring buoy or the boat.
- Pull the person to the boat and assist him on board.
- Check the person for injuries and administer first aid if necessary. If the injuries are serious, call for help. Refer to the Safety chapter for more information on first aid and requesting emergency medical assistance.



WARNING



MOVING PROPELLERS ARE DANGEROUS. THEY CAN CAUSE DEATH, LOSS OF LIMBS OR OTHER SEVERE INJURY. DO NOT USE THE SWIM PLATFORM OR BOARDING LADDER WHILE THE ENGINES ARE RUNNING. STOP THE ENGINES IF DIVERS OR SWIMMERS ARE ATTEMPTING TO BOARD. ALWAYS PROPERLY STORE THE LADDER BEFORE STARTING THE ENGINES.

Operation

2.12 Trash Disposal

The discharge of plastic trash or trash mixed with plastic is illegal anywhere in the marine environment. U.S. Coast Guard regulations also restrict the dumping of other forms of garbage. Regional, state and local restrictions on garbage discharges also may apply.

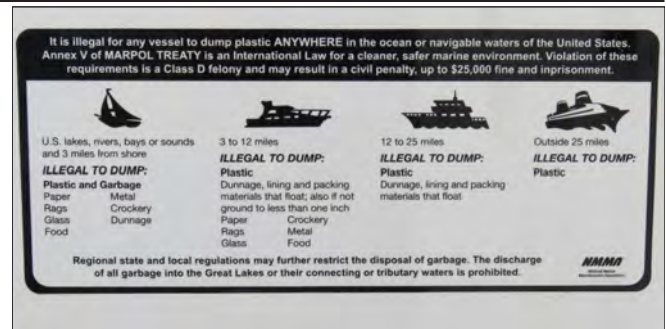
Responsible boaters store refuse in bags and dispose of it properly on shore. You should make sure your passengers are aware of the local waste laws and the trash management procedure on your boat. Refer to the placard mounted on your boat for more specific information regarding solid waste disposal.

Federal law requires that vessels of 26 feet or longer must display in a prominent location, a durable placard at least 4 by 9 inches notifying the crew and passengers of the discharge restrictions (Marpol Treaty). Labels for this purpose have been shipped with the boat and are attached to the aft systems compartment hatch and the head compartment wall. It is the boat owner's responsibility to make sure these placards remain mounted and legible in accordance with the law.

2.13 Yacht Certification Plate

Coast Guard rules require boats less than 20 feet (6 meters) to display a gross weight and person-capacity plate provided by the manufacturer. The person/load capacity is determined by the US Coast Guard.

Boat manufacturers in the National Marine Manufacturers Association (NMMA) program will display a gross weight and person-capacity plate on boats up to 26 feet (7.9 meters). Larger boats,



Trash Disposal Placard



Yacht Certification

including your boat, will display a Yacht Certification plate indicating compliance with the NMMA and U.S. Coast Guard requirements instead of a capacity plate.

The yacht certification plate is usually located near the helm in clear view of the operator.

2.14 Transporting Your Boat

Your Everglades is a large boat and should only be trailered by professionals that have the knowledge and equipment to move large boats without causing damage.

You should contact your dealer or the Everglades Boats Customer Service Department if you are planning to transport your boat and have any questions in regard to the proper equipment and support for the hull.



CAUTION



BOATS HAVE BEEN DAMAGED BY TRAILERS THAT DON'T PROPERLY SUPPORT THE HULL. ALWAYS MAKE SURE THE TRAILER BUNKS AND PADS ARE ADJUSTED SO THEY ARE NOT PUTTING EXCESSIVE PRESSURE ON THE LIFTING STRAKES AND ARE PROVIDING ENOUGH SUPPORT FOR THE HULL. HULL DAMAGE RESULTING FROM IMPROPER TRAILER SUPPORT IS NOT COVERED BY THE EVERGLADES WARRANTY.



CAUTION



OUTBOARD ENGINES WITH ELECTRONIC STEERING CAN TURN INDEPENDENTLY WHILE TRAILERING CAUSING DAMAGE TO COWLINGS AND OTHER COMPONENTS. ALWAYS INSTALL STEERING GUARDS ON THE ENGINES TO PREVENT DAMAGE. REFER TO THE ENGINE OWNERS MANUAL FOR ADDITIONAL INFORMATION ON PROTECTING YOUR ENGINES WHILE TRAILERING.

PROPULSION

3.1 General

Your Everglades is designed to be powered with 4-cycle outboard motors. They have an oil sump in the crankcase that must be kept full of the type of oil recommended by the engine manufacturer. The oil must be checked before each use and changed regularly.

Each manufacturer of the various outboard motors provides an owner's information manual with its product. It is important that you read the manual(s) very carefully and become familiar with the proper care and operation of the engines and drive systems. A warranty registration card has been furnished with each new engine and can be located in the engine owner's manual. All information requested on this card should be filled out completely by the dealer and purchaser and then returned to the respective engine manufacturer as soon as possible.



Outboard Engines



WARNING



CARBON MONOXIDE, WHICH IS PRODUCED DURING FUEL BURN AND CONTAINED IN ENGINE EXHAUST, IS DANGEROUS AND POTENTIALLY FATAL. IF THE SMELL OF EXHAUST IS EVIDENT, THERE IS A RISK OF CARBON MONOXIDE POISONING IF THE AREA IS NOT PROPERLY VENTILATED. WHEN STATIONARY, AT MOORING, OR AT IDLE SPEEDS, CONFIRM HATCHES, PORT WINDOWS, AND CABIN DOORS ARE OPEN TO ENSURE PROPER VENTILATION OF EXHAUST FUMES. IF YOU EXPERIENCE SYMPTOMS OF CARBON MONOXIDE POISONING, SEEK PROPER MEDICAL ATTENTION IMMEDIATELY.



WARNING



DO NOT ATTEMPT TO SERVICE ANY ENGINE OR DRIVE COMPONENT WITHOUT BEING TOTALLY FAMILIAR WITH THE SAFE AND PROPER SERVICE PROCEDURES. CERTAIN MOVING PARTS ARE EXPOSED AND CAN BE DANGEROUS TO SOMEONE UNFAMILIAR WITH THE OPERATION AND FUNCTION OF THE EQUIPMENT.

is outlined in the engine owner's manual. Routine maintenance is normally the primary concern unless the boat is to be kept in saltwater for extended periods of time. Then the main concerns are marine growth and galvanic corrosion.

Marine growth occurs when components are left in the water for extended periods and can cause poor performance or permanent damage to the exposed components. The type of growth and how quickly it occurs is relative to the water conditions in your boating area. Water temperature, pollution, current, etc. can have an effect on marine growth.

Galvanic corrosion is the corrosion process occurring when different metals are submerged in an electrolyte. Seawater is an electrolyte and submerged engine components must be properly protected. Outboard motors are equipped with sacrificial anodes to prevent galvanic corrosion problems. The anodes must be monitored and replaced as necessary. For locations and maintenance, please refer to the engine owner's manual.

3.2 Drive System Corrosion

Each outboard motor is a complete drive system with the gear case being just forward of the propeller and connected to the power head with a vertical drive shaft. All engines require some maintenance. Routine maintenance recommended for your engine

Propulsion System

When leaving the boat in the water, tilt the motors as high as possible. This will decrease the risk of marine growth around the cooling inlets, propeller and exhaust ports and damage from galvanic corrosion.

**CAUTION**

DO NOT PAINT THE OUTBOARD MOTOR WITH ANTIFOULING PAINTS DESIGNED FOR BOAT HULLS. MANY OF THESE PAINTS CAN CAUSE SEVERE DAMAGE TO THE ENGINE. CONTACT YOUR EVERGLADES DEALER OR ENGINE MANUFACTURER FOR INFORMATION ON THE PROPER PAINTING PROCEDURES.

3.3 Engine Lubrication

4-cycle outboard engines incorporate a pressure-type lubrication system with an oil sump in the crankcase that must be kept full of the type and grade of oil recommended by the engine manufacturer. It is normal for 4-cycle engines to consume a small amount of oil. Therefore, the oil must be checked before each use and changed at regular intervals as instructed by the engine owner's manual.

Notice:

Always monitor the oil level in the crankcase and only use the type of oil specified by the engine manufacturer.

3.4 Engine Cooling System

Outboard engines are raw water (seawater) cooled. Water is pumped through the water inlets, circulated through the engine block and relinquished with the exhaust gases through the propeller hub. The water pump uses a small impeller made of synthetic rubber. The impeller and water pump cannot run dry for more than a few seconds. In most outboard motors, some cooling water is diverted through ports below the engine cowling. This allows the operator to visually check the operation of the cooling system. When the engine is started, always check for a steady stream of water coming out of those ports.

Notice:

If the boat is used in salt or badly polluted water, the engines should be flushed after each use. Refer to the engine owner's manual for the proper engine flushing procedure.



Typical Engine Flushing System & Shore Water Connection

**CAUTION**

NEVER RUN AN OUTBOARD MOTOR WITHOUT WATER FLOWING TO THE WATER PUMP. SERIOUS DAMAGE TO THE WATER IMPELLER OR ENGINE COULD RESULT.

3.5 Engine Flushing System

Your boat could be equipped with an optional automatic engine flushing system that allows you to flush both engines in sequence from one hose connection. The following is an overview of the flushing process. Your boat may be slightly different, depending on the flush system, engine selection and other equipment selected. Always refer to the flush system operation manual for specific instructions for the system installed.

To flush the engines:

1. Shutdown the engines.
2. Connect a shore side freshwater hose to the quick connection on the starboard aft side of the cockpit and turn on the water.

Notice:

The hose connection fitting has an automatic valve that is always closed until the shore supply hose is connected. The hose requires a special fitting that snaps into the connector and activates the automatic valve. The cover on the connector should always be closed to keep the connector clean when the hose is not attached.

3. Press the flush system start button in the transom panel to select the desired flush time and start the sequential flushing process.
4. The system flushes the first motor for the selected time, then automatically moves to the next.
5. The system automatically shuts off once all motors are flushed.

3.6 Propellers

The propellers convert the engine's power into thrust. They come in a variety of styles, diameters and pitches. The propellers that will best suit the needs of your boat will depend somewhat on your application and expected average load. Propeller sizes are identified by two numbers stamped on the prop in sequence. The 1st number in the sequence (example 14" x 21") is the diameter of the propeller and the 2nd number is the pitch. Pitch is the theoretical distance traveled by the propeller in each revolution.

Always repair or replace a propeller immediately if it has been damaged. A damaged and therefore out of balance propeller can cause vibration that can be felt in the boat and could damage the engine gear assembly. Refer to the engine owner's manual for information on propeller removal and installation.

3.7 Performance Issues & Propellers

It is extremely important that the boat is propped to run at or very near the recommended top RPM with an average load. If the top RPM is above or below the recommend range, the propellers must be changed to prevent loss of performance and possible engine damage.

Your boat is equipped from the factory with counter rotating engines that are mounted to achieve quicker planning and optimum performance. Therefore, the left rotation engine is mounted on the port side of the transom and the right rotation engine is mounted on the starboard side.

Notice:

Before changing propellers to correct boat performance problems, be sure other factors such as engine tuning, bottom and running gear growth, etc. are not the source of performance changes. Always be sure the load conditions are those normally experienced, before changing propellers.

Your boat was shipped with propellers that typically provide optimum performance for your boat. However there are factors that can affect performance and propeller requirements.

Some are as follows:

- You should be sure the load conditions are those normally experienced. If the boat ran in the required RPM range when it was new and you have not added any additional gear or heavy equipment and have not damaged the propellers, there is a good chance the propellers are not the problem.
- The addition of heavy equipment like a tower, life rafts, additional coolers, etc., will cause additional load on the engines. Consequently, different propellers may be required.
- Boats operated at high altitudes (above 2000 feet). Engines operated at high altitudes will not be able to develop as much horsepower as they do at or near sea level. Consequently, different propellers may be required.

Notice:

Outboard engines can be damaged and the warranty void if the boat is not propped correctly. Always consult your Everglades dealer or authorized engine service dealer when making changes to the propellers or if the boat does not run near the top recommended RPM.



Typical Yamaha Engine Display



Typical Mercury VesselView Engine Monitoring Display

3.8 Engine Instrumentation

The helm station is equipped with a set of engine instruments and/or alarms. These instruments allow the operator to monitor the operational condition of the engines. Close observation of these instruments allows the operator to operate the engines at the most efficient level and could save them from serious costly damage.

Most Everglades boats are equipped with Yamaha or Mercury engines and a LCD multi-function engine monitoring display. The display systems can be integrated with the electronic navigation equipment installed on your boat. A brief description of the integrated gauges and their basic functions are listed in this section. Other functions that are dependent on the electronics installed on your boat may be available. Refer to the engine owner's manuals and the manuals for the electronics installed on your boat for detailed information on the operation of the instruments and additional functions available.

The instrumentation is unique to the type of outboard motors installed on your Everglades.

Some or all of the following gauges may be present.

Tachometers

The tachometers display the speed of the engines in revolutions per minute (RPM). This speed is not the boat speed or necessarily the speed of the propeller.

The tachometer display also contains the engine trim meters, oil pressure indicator, water pressure, water temperature, volt meters and the overheat warning indicator.

**CAUTION**

NEVER EXCEED THE MAXIMUM RECOMMENDED OPERATION RPM OF THE ENGINES. MAINTAINING MAXIMUM OR CLOSE TO MAXIMUM RPM FOR EXTENDED PERIODS CAN REDUCE THE LIFE OF THE ENGINES.

Speedometer

Speedometers can indicate boat speed via the engine pickup or an optional GPS or depth sounder triducer, if these options are installed in your boat. Refer to the engine gauge and electronics operating manuals for more information on the speedometer options available for your boat.

Overheat Warning Indicator

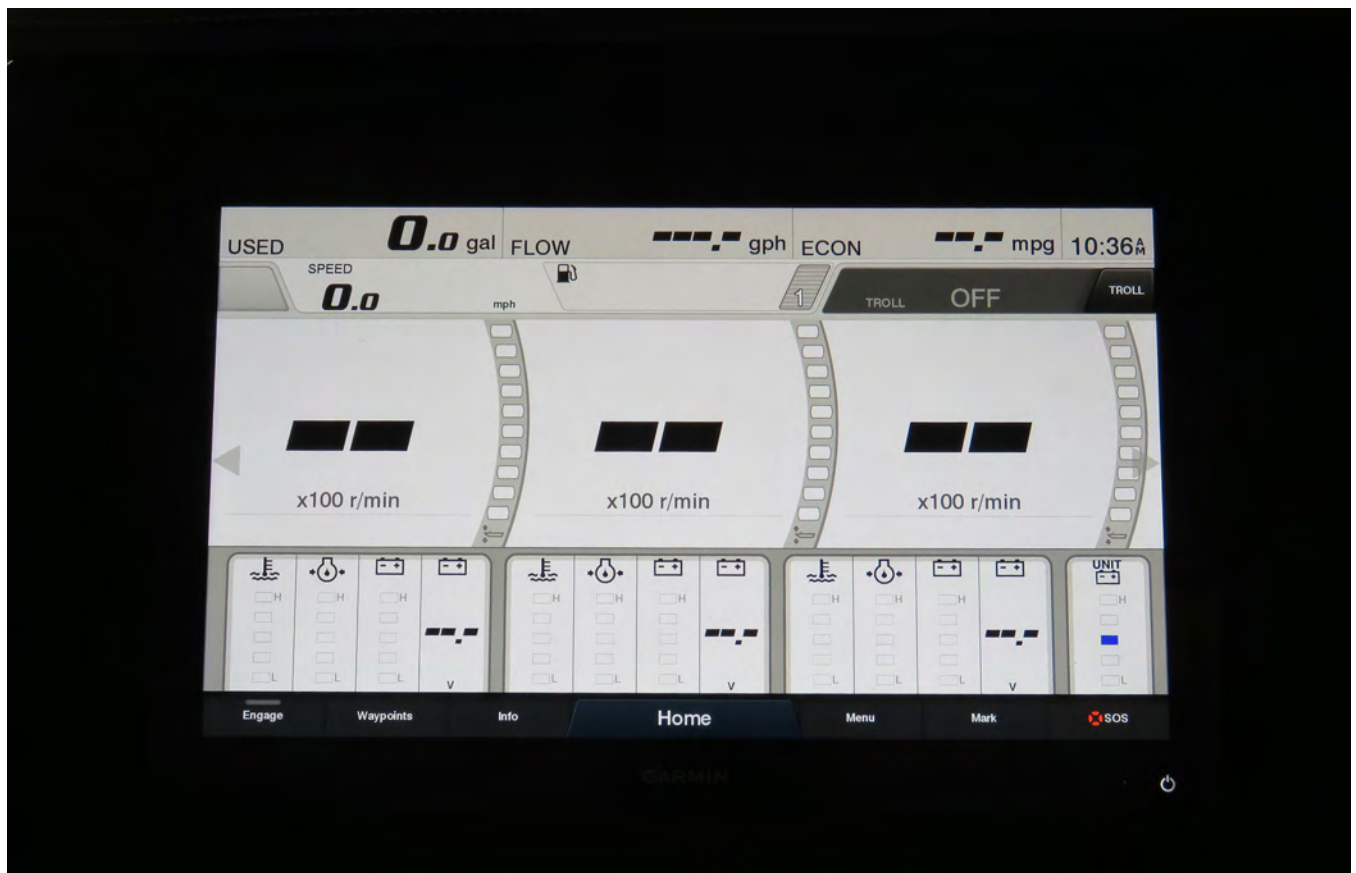
The temperature warning indicates that the temperature of the engine is too high. A sudden increase in the temperature could indicate an obstructed water inlet or an impeller failure.

**CAUTION**

CONTINUED OPERATION OF AN OVERHEATED ENGINE CAN RESULT IN ENGINE SEIZURE. IF AN UNUSUALLY HIGH TEMPERATURE READING OCCURS, SHUT THE ENGINE OFF IMMEDIATELY. THEN INVESTIGATE AND CORRECT THE PROBLEM.

Fuel Gauge

The fuel gauge indicates the amount of fuel in the fuel tanks. The fuel gauge is built into the engine monitoring Display. The fuel indicator on some displays will begin to blink if the fuel in the tank drops too low. Some systems can monitor up to 4 fuel or water tanks.



Typical Digital Engine Monitoring Screen On A Garmin Display

Voltmeters

The voltmeters display the voltage for the battery and the charging system for each engine. Normal voltage is 12 to 12.5 volts with the engines off and 13 to 14.5 volts with the engines running.

Hour Meters

The hour meters keep a record of the operating time for each engine.

Engine Tilt/Trim Gauges

The tilt/trim gauges monitor the position of each outboard engine. The upper range of the gauge indicates the tilt, which is used for trailering and shallow water operation. The lower range indicates the trim position. This is the range used to adjust the hull angle while operating your boat on plane. Refer to the engine owner's manuals for more information on the operation of the outboard power tilt and trim.

Engine Alarms

All outboards are equipped with an audible alarm system mounted in the helm area that monitors

selected critical engine systems. The alarm will sound if one of these systems begins to fail. Refer to the engine owner's manual for information on the alarms installed with your engines.



CAUTION



IF THE ENGINE ALARM SOUNDS, IMMEDIATELY SHUT OFF THE ENGINE UNTIL THE PROBLEM IS FOUND AND CORRECTED.

Fuel Management

Fuel management systems are standard equipment with most large outboard engines. The fuel management gauge is built into the engine monitoring display and can monitor miles per gallon, total gallons used and total gallons remaining.

Refer to the engine manual for detailed information on that system.

Propulsion System

Compass

All boats are equipped with a compass on the top of the instrument panel. The compass cannot be adjusted accurately at the factory as it must be compensated for the influence of the electrical equipment and electronics unique to your boat. Therefore, the compass should be adjusted by a professional after the electronics and additional electrical accessories are installed and before operating the boat. To adjust the compass for your area, read the instructions on "Compass Compensation" given to you in the literature packet.

Instrument Maintenance

Electrical protection for instruments and ignition circuitry is provided by a set of fuses or circuit breakers located on each engine. The ignition switches should be sprayed periodically with a contact cleaner/lubricant. The ignition switches and all instruments, controls, etc. should be protected from the weather when not in use. Excessive exposure can lead to gauge and ignition switch difficulties.



Compass

HELM CONTROL SYSTEMS

4.1 General

The helm controls consist of three systems: the engine throttle and shift controls, the steering system, and the trim tab control switches. It could also be equipped with an optional bow thruster. These systems provide the operator with the ability to control the direction and attitude of the boat from the helm station.

Each manufacturer of the control components provides an owner's manual with its product. It is important that you read the manuals and become familiar with the proper care and operation of the control systems.

4.2 Engine Throttle & Shift Controls

Electronic Engine Controls

The shift and throttle controls on your boat may vary depending on the engines used and control system selected. Refer to the engine or control manuals for specific information on the controls installed on your boat.

The helm is designed for a binnacle style control with a single lever for each engine. The electronic control system consists of three major components: the electronic control head, instruments and keypad, the control processors and applicable harnesses. The controls are completely electronic and there are no cables.

The controls have a single lever for each engine that operates as a gearshift and a throttle. General operation will include a position for neutral (straight up and down or slightly aft of vertical), a forward position (the 1st detent forward of neutral), and a reverse position (the 1st detent aft of neutral). Advancing the control lever beyond the shift range advances the throttle in forward or reverse. Each control is equipped with a means of permitting the engine to be operated at a higher than idle RPM while in neutral for cold starting and warm-up purposes. The control levers are equipped with adjustable control head detent and friction settings.

The engine controls and key pads have integrated switches and indicator lights which allow the operator to control all aspects of the boat's



Typical Yamaha Engine Control

propulsion system. LED lights on the control pad indicate that the control is activated and the engines can be started.

The most common features activated or monitored by the keypad are:

- Starter lockout, which prevents the engine from being started in gear.
- Gear lockout, which allows engine RPM to be advanced in neutral safely.
- Battery voltage warning indicator that warns the operator of high or low voltage supplied to the system (audible alarm)
- An engine synchronization feature that automatically keeps both engines at the same RPM while cruising. Refer to Engine Synchronizer in this section and the control systems owner's manual for more information regarding engine synchronization.

Helm Control Systems

- Trolling feature that allows the operator to increase the engine speed in 50 RPM increments while operating at trolling speeds between 600 - 1000 RPM.
- Station selection (a separate button on some controls) that allows the operator to transfer control from one station to another with the push of a button on boats with two helm stations. Each station must be selected by the operator before the controls will operate from that station.

These features and others not mentioned require specific procedures to activate and operate them properly. Some of the procedures and features are unique to the engines and other options installed on your boat. It is essential that you read the owner's manual for the controls and be completely familiar with their operation before using your boat.



Yamaha Helm Master Control Key Pad



CAUTION



ALWAYS RETURN THE ENGINE THROTTLE LEVER TO THE EXTREME LOW SPEED POSITION BEFORE SHIFTING. NEVER SHIFT THE UNIT WHILE ENGINE SPEED IS ABOVE IDLE RPM.

Engine Synchronizer

During most operations of a twin engine boat, it is advantageous for both engines to be operated at the same RPM. This reduces noise and vibration and can increase engine efficiency. Setting the throttles so that the engines are running the same RPM (synchronized) can be done by listening to the engine sounds at low RPM and with the automatic synchronizer feature built into the electronic engine controls when the engines are operating above 1000 RPM. Attempting to synchronize the engines solely by using the tachometer readings or control lever placement generally will not work. When the engines are in proper synchronization, the throttle levers may not necessarily be even.

Refer to the engine or control owner's manuals for more information on the engine synchronizer and other features for the electronic controls installed on your boat.

4.3 Neutral Safety Switch

Every control system has a neutral safety switch incorporated into it. This device prohibits an engine from being started while the shift lever is in any position other than the neutral position. If the engine will not start, slight movement of the shift

lever may be necessary to locate the neutral position and disengage the safety cutout switch. Control adjustments may be required to correct this condition should it persist. See your Everglades dealer for necessary control adjustments.

The neutral safety switches should be tested periodically to ensure that they are operating properly. To test the neutral safety switches, make sure the engines are tilted down and move the shift levers to the forward position.

Make sure the throttle control levers are not advanced past the idle position. Press the Start Button or turn the key just long enough to briefly engage the starter for the engine.

Notice:

Most outboard control systems are equipped with a computer controlled start feature that will keep the starter engaged until the engine starts if the neutral safety switch fails and allows the starter to engage.

The starter should not engage for any engine. Repeat this test with the shift levers in reverse and the engine throttles at idle. Again, the starter should not engage for any engine. If the starter for any engine engages with the shift controls in any position other than the neutral position, then the neutral safety switch is not functioning properly and you should contact your dealer to have the

Helm Control Systems

neutral safety switch repaired by a qualified marine mechanic before using the boat. If an engine starts in gear during this test, immediately move the control lever to the neutral position and turn the engine off.



WARNING



IN SOME SITUATIONS, IT MAY BE POSSIBLE TO ACCIDENTALLY START THE ENGINES IN GEAR WITH THE THROTTLES ABOVE IDLE IF THE NEUTRAL SAFETY SWITCH IS NOT OPERATING PROPERLY. THIS WOULD CAUSE THE BOAT TO ACCELERATE UNEXPECTEDLY IN FORWARD OR REVERSE AND COULD RESULT IN LOSS OF CONTROL, DAMAGE TO THE BOAT OR INJURY TO PASSENGERS. ALWAYS TEST THE NEUTRAL SAFETY SWITCH PERIODICALLY AND CORRECT ANY PROBLEMS BEFORE USING THE BOAT.

4.4 Engine Power Tilt & Trim

Most outboard engines have tilt/trim switches built into the engine shift and throttle controls that allow the operator to control the position of the outboards from the helm. Typically, a switch or switches on the port control lever grip activates the tilt/trim for the engines. Engine controls typically have two switches on the cover that activate each engine tilt/trim individually. If necessary, the maximum tilt angle can be adjusted by your Everglades or engine dealer by reprogramming the settings using the engine diagnostic system.

Moving the outboard closer to the boat transom is called trimming "in" or "down." Moving the outboard further away from the boat transom is called trimming "out" or "up." In most cases, the boat will run best with the outboard adjusted so the hull will run at a 3 to 5 degree angle to the water.

The term "trim" generally refers to the adjustment of the outboard within the first 20° range of travel. This is the range used while operating your boat on plane. The term "tilt" is generally used when referring to adjusting the outboard further up for shallow water operation or trailering. For information on the proper use and maintenance of the power tilt and trim, refer to the engine owner's manual.



CAUTION



CONTINUED OPERATION OF AN IMPROPERLY TRIMMED MOTOR COULD RESULT IN OVERHEATING AND POTENTIAL FAILURE OF THE ENGINE.



Yamaha Twin Engine Control Key Pads & Trim Switches



Typical Mercury Tilt Trim Controls



CAUTION



THE ENGINE HOSES AND CABLES OR THE TRANSGEL COAT CAN BE DAMAGED BY TILTING THE ENGINES TO THE FULL UP POSITION WITH THE ENGINES TURNED TO THE WRONG POSITION. MOST BOATS REQUIRE THE STEERING WHEEL TO BE TURNED COMPLETELY TO STARBOARD BEFORE TILTING THE ENGINES TO THE FULL UP POSITION. YOU SHOULD MONITOR EACH ENGINE AS IT TILTS TO DETERMINE BEST FULL TILT ENGINE POSITION FOR YOUR BOAT.



Typical Engine Stop Switch & Lanyard

4.5 Engine Stop Switch

Engine Stop Switch

Your boat is equipped with an engine stop switch and lanyard at the helm. When the lanyard is pulled, it will engage the switch and shut off the engines. We strongly recommend that the lanyard be attached to the driver whenever the engines are running. If an engine will not start, it could be because the lanyard is not properly inserted into the engine stop switch. Always make sure the lanyard is properly attached to the engine stop switch before attempting to start the engines.

Refer to the engine owner's manual for more information on the engine stop switch.



WARNING



ATTACH THE ENGINE STOP SWITCH LANYARD TO A SECURE PLACE ON YOUR CLOTHING, OR BODY WHILE OPERATING. DO NOT ATTACH THE LANYARD TO CLOTHING THAT COULD TEAR LOOSE OR ROUTE IT WHERE IT COULD BECOME ENTANGLED AND NOT OPERATE PROPERLY.

AVOID ACCIDENTALLY PULLING THE LANYARD DURING OPERATION. SUDDEN LOSS OF ENGINE POWER WILL CAUSE LOSS OF MOST STEERING CONTROL AND THE BOAT TO SLOW RAPIDLY. THIS COULD RESULT IN LOSS OF CONTROL AND CAUSE PASSENGERS AND OBJECTS IN THE BOAT TO BE THROWN FORWARD RESULTING IN DAMAGE TO THE BOAT AND SEVERE INJURY TO PASSENGERS.

Stop Switch and Lanyard- Mercury Engines

Boats equipped with Mercury engines have a toggle style stop switch and one lanyard. Only one lanyard is required because toggle style stop switches can be easily bypassed manually in an emergency if the lanyard is lost. Use the following procedures to attach the lanyard for normal operation and to bypass the lanyard in an emergency.

Normal Operation

To insert the lanyard for normal operation, move the stop switch toggle to the OFF position. Then insert the lanyard clip and move the switch to RUN. The switch will remain in the RUN position unless the lanyard is pulled, which will automatically move the switch toggle to OFF and shutdown the engines.

Emergency Operation

If the lanyard is lost and the engines must be started to return to port and/or for an emergency, the stop switch can be activated manually. This is accomplished by using your finger to move the switch toggle to the RUN position. A detent built into the switch will hold it in the RUN position and allow the engines to operate normally.



WARNING



THE ENGINES WILL NOT SHUTDOWN AUTOMATICALLY IF THE OPERATOR IS EJECTED FROM THE VESSEL OR FALLS WITHIN THE VESSEL WHEN THE STOP SWITCH LANYARD IS BYPASSED. THIS COULD RESULT IN SEVERE INJURY TO THE OPERATOR AND PASSENGERS AND/OR DAMAGE TO YOUR VESSEL OR OTHER VESSELS AND OCCUPANTS.

NEVER OPERATE YOUR BOAT WITHOUT THE LANYARD ATTACHED TO THE OPERATOR. IF THE LANYARD IS LOST, ALWAYS REPLACE IT WHEN YOU RETURN TO PORT AND BEFORE OPERATING THE BOAT.



Mercury Engine Stop Switch Toggle



Mercury Engine Stop Switch With Lanyard Attached

Helm Control Systems

Stop Switch and Lanyard - Yamaha Engines

Boats equipped with Yamaha engines have a plunger style stop switch that requires the lanyard clip to be inserted into the switch to run the engines. This style stop switch cannot be manually bypassed easily in an emergency. Consequently these boats will be equipped with a spare lanyard located in a labeled compartment, usually near the helm, that can be used in an emergency if the original lanyard is lost. Use the following procedures to attach the lanyard for normal operation and to use the spare lanyard in an emergency.

Normal Operation

To insert the lanyard for normal operation, locate the stop switch end of the lanyard with the tapered clip. Insert the tapered clip on the lanyard between the spring loaded plunger and the base of the stop switch. Push firmly until the plunger is forced out to the run position and the lanyard clip seats in the detent. The switch plunger will remain out in the RUN position unless the lanyard is pulled, which will remove the lanyard clip from the switch, allowing the plunger to slide in and shutdown the engines.

Emergency Operation

If the lanyard is lost and the engines must be started to return to port and or for an emergency, the spare lanyard must be used to activate the stop switch. Locate the spare lanyard located in the labeled storage drawer or compartment near the helm. Insert the clip end of the lanyard into the stop switch and start the engines. Remember to replace the lost lanyard after you return to port so you always have a spare.

Stop Switch Testing

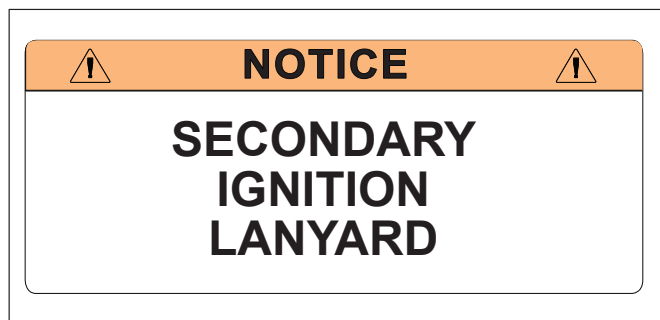
Emergency stop switches should be tested periodically to ensure that they are operating properly. To test the stop switches, attach the lanyard to the switch and start the engines. With the engines at idle speed and the controls in neutral, pull the lanyard clip from the switch. If the switch is working properly, the engines will immediately shutdown. If the engines continue to run when the lanyard is pulled, the switch is not working properly and you should contact your dealer to have the stop switch repaired by a qualified marine mechanic before using the boat.



Yamaha Engine Stop Switch Plunger



Yamaha Engine Stop Switch With Lanyard Attached



Secondary Ignition Lanyard Location Label

4.6 Steering System

Twin Engine Electronic Steering

Twin engine boats are equipped with an electronic steering system that provides precise and responsive steering.

The system is 100% electronic and there are no mechanical connections between the steering wheel and the drives. Each drive unit is turned independently allowing improved tight quarter maneuvering and the convenience of a Joystick control at the helm.

For safety and improved tight quarter maneuvering, the controlling software on most systems senses engine speed and adjusts maximum steering angle and steering wheel resistance to preset limits as engine speed increases or decreases. Steering angles and steering wheel resistance at specific engine speeds are programmed into the system at the factory and are not adjustable.

The steering on each motor is totally independent with full redundancy built into the system. If the steering fails on one engine, the other unit will continue to operate. Should a failure in one steering system occur, the controlling software will sense the failure, limit the engine RPM as a safety precaution and alert the operator.

Each steering control system has emergency procedures that are specific to the steering system and type of failure. It is very important to follow the correct procedure to avoid damage to the engine cowlings if a steering system failure occurs.

Refer to the engine manufacturer owner's manuals for specific information on the operation, maintenance and emergency procedures for the steering system installed in your boat.

Tilt Steering Wheel

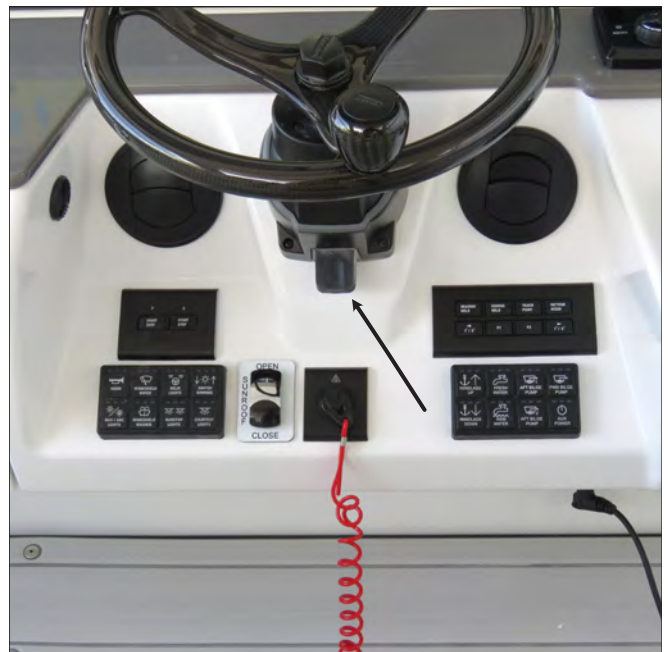
The steering wheel can be tilted to five different positions by activating the tilt lock lever located on the bottom of the helm station. When the lever is released, it automatically locks the steering wheel at or close to that angle. Refer to the steering manufacturer owner's manual for specific information on the steering system.

4.7 Joystick Controls

A joystick control system is optional equipment on most twin engine boats. The joystick can only be used at slow speeds. It is engaged by moving the shift and throttle controls to the neutral position



Typical Yamaha Engine Mounted Electronic Steering



Tilt Steering Wheel & Lock Lever

Helm Control Systems

and pressing the Joystick button on the base of the joystick control or the keypad on the main engine controls. If the boat is equipped with a joystick and optional bow thruster, the joystick will control both the engines and the thruster to improve maneuverability.

Once activated, the boat moves in the direction the joystick is pushed with engine speed increasing the further the stick is pushed, up to preset limits. Turning the knob on the top of the joystick rotates the boat in the direction the knob is turned. Another button on the joystick or engine control key pad raises the preset engine speed for maneuvering in high winds and/or strong tides.

When the joystick is released, it automatically returns to center, the engines shift to neutral, rotate to the straight ahead position, and engine speed is reduced to idle. It is deactivated by pressing the Joystick button at the base of the joystick or control keypad or by moving the shift and throttle control levers.

All engines must be running for the joystick control to maneuver boat properly.

Always refer to the engine manufacturer owner's manuals for specific information on the operation and maintenance for the joystick and steering control systems on your boat.



Typical Yamaha Control System Joystick

**DANGER**

SOME JOYSTICKS AND ELECTRONIC CONTROL SYSTEMS ARE EQUIPPED WITH A FEATURE WHICH USES THE ENGINES TO AUTOMATICALLY HOLD THE BOAT IN POSITION. THIS FEATURE CAN CAUSE SERIOUS INJURY OR DEATH TO PERSONS SWIMMING NEAR THE BOAT OR ATTEMPTING TO BOARD WHEN IT IS ACTIVATED.

WHEN THE POSITION HOLDING FEATURE IS ACTIVATED:
THE PROPELLERS ROTATE AUTOMATICALLY;
PROPELLER ROTATION MAY NOT BE OBVIOUS;
THE BOAT MAY SUDDENLY MOVE IN ANY DIRECTION;
THE PROPELLERS CAN INJURE PEOPLE IN THE WATER ANYWHERE AROUND THE BOAT.

IF YOUR BOAT IS EQUIPPED WITH A POSITION HOLDING FEATURE, THE FOLLOWING PRECAUTIONS APPLY:

ALWAYS ASK THE CAPTAIN BEFORE ENTERING THE WATER.

UNLESS THE CAPTAIN GIVES YOU PERMISSION:
DO NOT GO IN THE WATER; WIND OR WATER CURRENT CAN MOVE SWIMMERS INTO THE PROPELLERS.

DO NOT SIT OR STAND WHERE YOU COULD FALL OVERBOARD;
YOU MAY LOSE YOUR BALANCE IF THE BOAT MOVES SUDDENLY.



Typical Mercury Control System Joystick

4.8 Standard Trim Tabs

The trim tabs are mounted to the hull below the swim platform and integrated transom engine mounting system. A dual rocker switch is used to control the tabs. The switch controls bow up and down movements. It also controls starboard and port up and down movements. Bow up and bow down will control the hull planing attitude, while port and starboard up and down provides control for the hull listing.

LED lights built into the switch display the position of each trim tab. When one LED is flashing at the top of the display, the tabs are in the "full-up" (bow up) position. When all LED lights are lit from the top to the bottom of the display, the tabs are fully extended (bow down).

The trim tabs are programmed to automatically retract when the engines are shutdown to keep the actuators clean and set the tabs in the full "UP" position when leaving the dock. Refer to the trim tab operating manual for more information on the operation and programming of the trim tabs.

Before leaving the dock, make sure that the tabs are in the full "UP" position. If they are not, press and hold the control in the bow up position for ten (10) seconds to fully retract the tabs.

Always establish the intended heading and cruise speed before attempting to adjust the hull attitude with the trim tabs. After stabilizing speed and direction, move the trim tabs to achieve a level side to side running attitude being careful not to over trim.

After depressing a trim tab switch, always wait a few seconds for the change in the trim plane to take effect. Avoid depressing the switch while awaiting the trim plane reaction. By the time the effect is noticeable the trim tab plane will have moved too far and thus the boat will be in an overcompensated position.

When running at a speed that will result in the boat falling off plane, lowering the tabs slightly,



Trim Tab Control Switch

bow down, will improve the running angle and operating efficiency. Too much bow down tabs can reduce operating efficiency and cause substantial steering and handling difficulties.

Be extremely careful when operating in a following sea. The effect of trim tabs is amplified under such conditions. Steering and handling difficulties can result from improper trim tab usage, particularly in a following sea. Always raise the tabs to the full bow up position in these conditions.

When running at high speeds be sure that the tabs are in the full "UP" position. Only enough trim plane action should be used to compensate for any listing. Trim tabs are extremely sensitive at high speeds. Adjust for this and be prepared to slow down if difficulties arise.

When running into a chop, a slight bow down attitude will improve the ride. Be careful not to over trim. Handling difficulties may result.

Helm Control Systems

4.9 Zipwake Trim Tabs (Optional)

Your boat could be equipped with optional Zipwake, blade style trim tabs mounted to each side of the transom. A control panel with a 3D display provides position monitoring and control of running trim, heel or heading. Running trim (bow up/down) adjustments control the hull planing attitude, while heel (port and starboard up/down) adjustments provide control for the hull listing.

A LED display shows the position of the blades and running trim and heel angles. Control wheels below the display provide manual control of trim and heel settings. The system also operates in automatic mode, which is enabled by pressing the AUTO button.

The trim blades are programmed to automatically retract when the engines are shutdown to keep the actuators clean and set the blades in the retracted position when leaving the dock. Refer to the Zipwake operating manual for more information on the operation, programming and maintenance of the trim system.

When manually setting hull trim, make sure that the blades are fully retracted when you leave the dock. If they are not, use the control wheel to retract the blades.

Always establish the intended heading and cruise speed before adjusting the hull attitude with the trim blades. After stabilizing speed and direction, move the blades to achieve a level side to side running attitude, being careful not to over trim.

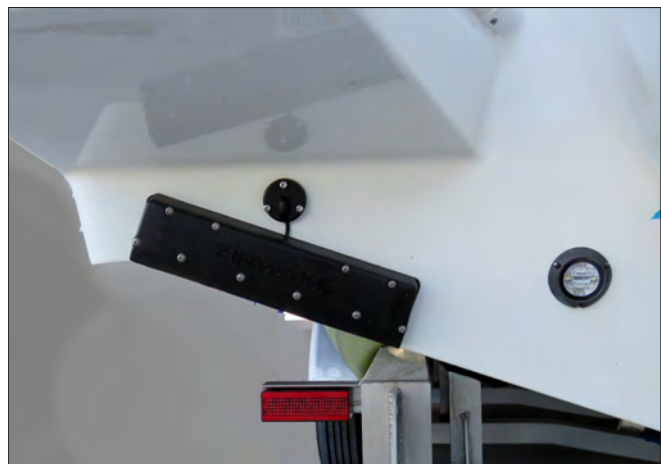
After initiating an adjustment, always wait a few seconds for the change in trim angle to take effect. Avoid rotating a wheel while awaiting the trim reaction. By the time the effect is noticeable the trim blade will have moved too far and thus the boat will be in an overcompensated position.

When running at a speed that will result in the boat falling off plane, extending the blades slightly, bow down, will improve the running angle and operating efficiency. Too much bow down blade extension can reduce operating efficiency and cause substantial steering and handling difficulties.

Be extremely careful when operating in a following sea. The effect of trim tabs is amplified under such conditions. Steering and handling difficulties can result from improper trim tab usage, particularly in a following sea. Always retract the blades to the full bow up position in these conditions.



Zip Wake Trim Tab Control Panel



Zip Wake Trim Tab Interceptor On Transom

When running at high speeds be sure that the blades are fully retracted. Only enough trim blade action should be used to compensate for any listing. Trim tabs are extremely sensitive at high speeds. Adjust for this and be prepared to slow down if difficulties arise.

When running into a chop, a slight bow down attitude will improve the ride. Be careful not to over trim. Handling difficulties may result.

4.9 SeaKeeper Ride 600 Trim Tabs (Optional)

Your boat could be equipped with SeaKeeper Ride blade style trim tabs mounted to each side of the transom. Seakeeper Ride requires a connection to a Seakeeper compatible multifunction display (MFD) for control of the system. Additionally, it can be adjusted with optional Keypads. The MFD application contains complete system information, while the Keypad provides a quick reference and operator inputs that are always available. The controller and key pads will vary, depending on the options selected. Typically a control panel with an LED display provides position monitoring and control of running trim, heel or heading. Running trim (bow up/down) adjustments control the hull planing attitude, while heel (port and starboard up/down) adjustments provide control for the hull listing.

The system operates in Auto or Manual mode. The current mode is displayed on the large center mode button on the control panel, which is used to select the desired mode. After the Seakeeper application has initialized, the home screen will be displayed. The home screen will appear different depending on whether the system is in Auto Mode or Manual Mode. The system will be in Auto Mode by default. Refer to the SeaKeeper Ride operating manual for more information on the operation, programming and maintenance of the trim system.

Auto Mode

The ring in the center of the Keypad will glow when in Auto Mode. It will begin operating once the boat reaches 10 mph.

⚠**WARNING**⚠

EXERCISE CAUTION WHILE USING SEAKEEPER RIDE IN AUTO MODE. HIGH SPEED TURNS WITH THE SEAKEEPER RIDE SYSTEM MAY RESULT IN LOSS OF VESSEL CONTROL. REDUCE SPEED BEFORE ATTEMPTING TO PERFORM ANY FAST MANEUVERS. SEAKEEPER RIDE IS NOT INTENDED, NOR SHOULD IT BE EXPECTED, TO ALLEVIATE OR REPLACE THE CAPTAIN'S CONTROL AND SAFE OPERATION OF THE BOAT.

The operator can use the up and down arrows to adjust the bow's attitude further up or down from the automatic trim setting. This will be reflected in the Trim Command Indicator. Pressing the up arrow will lower the bow and pressing the down arrow will allow the bow to rise.

The operator can use the left and right arrows to force the boat to lean to either port or starboard. This will be reflected in the Heel Command Indicator.



SeaKeeper Ride 600 Auto Mode Display



SeaKeeper Ride 600 Manual Mode Display

The bars on the screen indicate the Controller Blade position and update in real time in Auto Mode. The left and right bars show port and starboard deployments.

Manual Mode

In manual mode, the display shows the position of the tab blades. Arrow buttons on the display provide manual control of trim and heel settings. The system will not automatically compensate for trim or heel changes.

The trim blades are programmed to automatically retract when the engines are shutdown to keep the actuators clean and set the blades in the retracted position when leaving the dock.

When manually setting hull trim, make sure that the blades are fully retracted when you leave the dock. If they are not, use the control buttons to retract the blades.

Always establish the intended heading and cruise speed before adjusting the hull attitude with the trim blades. After stabilizing speed and direction, move the blades to achieve a level side to side running attitude, being careful not to over trim.

Helm Control Systems

After initiating an adjustment, always wait a few seconds for the change in trim angle to take effect. Avoid rotating a wheel while awaiting the trim reaction. By the time the effect is noticeable the trim blade will have moved too far and thus the boat will be in an overcompensated position.

When running at a speed that will result in the boat falling off plane, extending the blades slightly, bow down, will improve the running angle and operating efficiency. Too much bow down blade extension can reduce operating efficiency and cause substantial steering and handling difficulties.

Be extremely careful when operating in a following sea. The effect of trim tabs is amplified under such conditions. Steering and handling difficulties can result from improper trim tab usage, particularly in a following sea. Always retract the blades to the full bow up position in these conditions.

When running at high speeds be sure that the blades are fully retracted. Only enough trim blade action should be used to compensate for any listing. Trim tabs are extremely sensitive at high speeds. Adjust for this and be prepared to slow down if difficulties arise.

When running into a chop, a slight bow down attitude will improve the ride. Be careful not to over trim. Handling difficulties may result.

4.10 Bow Thruster

The optional bow thruster provides the operator additional control of the bow while docking or anchoring the boat in tight quarters or high winds and strong currents. The control touch pad is located in the helm and controls the bow thruster that is mounted to the hull in the bilge below the cabin berth. If the boat is equipped with a joystick and bow thruster, the joystick will control both the engines and the thruster to improve maneuverability.

The proportional momentary touch pad buttons are activated by the pressing and holding the power button in the touch pad for 1 second. Press the button for the direction you wish to thrust. Press the opposite button to change direction. A one second delay protects the thruster when the direction is changed. The arrow on each button indicates the direction the bow will move when it is pressed. Holding the selected button down will increase thrust. The bow thruster will stop when the button is released.



Typical Bow Thruster Control Panel

Press and hold the power button for 1 second to deactivate the bow thruster control pad. The bow thruster will power down automatically if it is operated constantly for 3 minutes or senses no operation for 15 minutes.

The bow thruster circuit is protected by a fuse or circuit breaker and emergency shut off button/battery switch located in the forward bilge compartment below the cabin berth. It is activated automatically when the thruster control panel is switched on and turns off when the panel is deactivated. It can also be activated manually with the red knob on the switch.

Refer to the bow thruster owner's manual for details on operating the bow thruster and using the control pad.

4.11 Control Systems Maintenance

Control Maintenance

Periodic inspection of the control systems and all connections should be made. Signs of rust, corrosion, wear or other deterioration should immediately be serviced. Generally, periodic lubrication of all moving parts and connections with a light waterproof grease is in order.

Lubrication should be performed as often as necessary to keep the system operating smoothly.

Control system adjustments may become necessary. If adjustments become necessary, see your Everglades dealer.



WARNING



DO NOT ATTEMPT CONTROL ADJUSTMENTS UNLESS YOU ARE FAMILIAR WITH SERVICING CONTROL SYSTEM PROCEDURES. CONTROL MISADJUSTMENT CAN CAUSE LOSS OF CONTROL AND SEVERE ENGINE OR LOWER UNIT DAMAGE.

Electronic Steering and Control Systems Maintenance

Electronic steering and control systems are supplied by the engine manufacturer. The systems have maintenance requirements that are specific to the engines and control options installed in your boat.

You should refer to the engine and controls systems owner's manuals for information and maintenance on the control and steering system installed in your boat. Their recommendations should be followed exactly.

The engine controls and steering systems are fully electronic and activated by micro processors and controlling software in each drive unit. If adjustment becomes necessary do not attempt to address the problem yourself. You should contact your Everglades or outboard engine dealer for assistance.



WARNING



IMPROPERLY ADJUSTED ELECTRONIC ENGINE CONTROLS CAN CAUSE LOSS OF CONTROL AND SEVERE ENGINE DAMAGE. IF YOUR CONTROLS ARE NOT OPERATING PROPERLY, DO NOT ATTEMPT CONTROL SYSTEM ADJUSTMENTS YOURSELF. CONTACT YOUR EVERGLADES OR ENGINE DEALER FOR ASSISTANCE AND DO NOT USE THE BOAT UNTIL THE SITUATION IS CORRECTED.

Engine Lubrication

Please refer to the engine owner's manual for maintenance and lubrication instructions for the outboard engines.

Standard Trim Tab Maintenance

The trim tab actuators are electric and require no routine maintenance except to periodically inspect the tab actuators for corrosion or marine growth and test the system to ensure that it is operating properly.

Marine growth can interfere with the proper operation of the trim tab planes and actuators. To reduce problems due to marine growth, always return the trim tabs to the full "UP" position after operating the boat and periodically inspect and clean marine growth from the actuators and planes.

If the boat is kept in the water, the trim tabs must be equipped with a zinc anode to prevent galvanic corrosion. Galvanic corrosion is the corrosion process occurring when different metals are submerged in an electrolyte. Seawater is an electrolyte and submerged metal components must be properly protected. The anodes will need to be changed when they are 75% of their original size. Refer to the Routine Maintenance chapter of this manual for information on maintaining zinc anodes.

To discourage any marine growth on tabs or actuators, antifouling paint can be applied. When applying paint to the actuators, make sure it is fully retracted. Do not paint the stainless ram above the area that is exposed when retracted. The bottom paint will damage the O-ring seals when the ram is retracted and allow seawater to enter the actuator motor. Also don't paint the zinc anode. Contact your dealer or the trim tab manufacturer for information regarding the correct bottom paint for the trim tabs.

Refer to the trim tab owner's manual for additional maintenance information, specifications, troubleshooting and operating instructions.

Blade Style Trim Tab Maintenance

The optional trim blade actuators are electric and require no routine maintenance except to periodically inspect the actuators for marine growth and test the system to ensure that it is operating properly.

Marine growth can interfere with the proper operation of the trim blades. To reduce problems due to marine growth, always fully retract the blades after

operating the boat and periodically inspect and clean marine growth from the actuators and blades.

To discourage marine growth on the actuators, anti-fouling paint can be applied. When applying paint to the an actuator, make sure the blade is fully retracted. Do not paint the blade above the area that is exposed when retracted. Bottom paint could damage the actuator when the blade is retracted. Contact your dealer or trim tab manufacturer for information regarding the correct bottom paint for the trim system.

Refer to the manufacturer's owner's manual for additional maintenance information, specifications, troubleshooting and operating instructions.

Bow Thruster Maintenance (Optional)

The bow thruster is mounted in the forward bilge below the cabin berth. Periodically inspect the components inside the hull for leaks and for loose or corroded electrical connections. Signs of leaks and loose or corroded electrical connections should be corrected immediately by a qualified marine technician.

Marine growth, weeds and debris can interfere with the proper operation of the bow thruster so you

should inspect the tunnel regularly and clean as necessary. This is particularly important when operating in areas with weeds or if the thruster is not responding normally. You should also check the propeller. If the propeller is damaged or heavily contaminated, it should be replaced.

The thruster is protected from galvanic corrosion by an anode on the propeller shaft. The anode should be inspected regularly and changed when it is 75% of it's original size.

If the boat is kept in the water, the anode should be inspected at least once every 3-4 months. Antifouling paint can be applied to the tunnel and underwater components to discourage marine growth. Bow thrusters have specific requirements for the type of antifouling paint that can be used and where it can be applied. Applying the wrong paint or paint that is not applied correctly can damage the bow thruster and void the warranty. Contact your dealer or the bow thruster manufacturer for information regarding the correct bottom paint and application.

Refer to the bow thruster owner's manual for additional maintenance information, specifications, troubleshooting and operating instructions.

FUEL SYSTEM

5.1 General

The Gasoline fuel system used in Everglades boats sold in the United States is designed to meet or exceed the emission control standards of the Environmental Protection Agency (EPA) and the requirements of the U.S. Coast Guard, the Boating Industry Association and the American Boat and Yacht Council in effect at the time of manufacture.

All gasoline fuel systems have been factory inspected and pressure tested in accordance with regulations in effect at the time of manufacture. This inspection assures that the system is air tight, leak proof and safe. It is the responsibility of the purchaser to maintain it in that condition. Make frequent inspections to assure that no deterioration or loosening of connections is resulting from vibration.

**DANGER**

DO NOT LET THE ODOR OF GASOLINE GO UNCHECKED. ANY ODOR OF GASOLINE MUST BE IMMEDIATELY INVESTIGATED AND STEPS TAKEN TO PROTECT THE BOAT AND ITS OCCUPANTS UNTIL THE PROBLEM IS CORRECTED. IF THE ODOR OF GASOLINE IS NOTED, SHUT OFF ALL ENGINES AND ELECTRICAL EQUIPMENT. INVESTIGATE AND CORRECT THE SITUATION IMMEDIATELY. HAVE ALL PASSENGERS PUT ON PERSONAL FLOTATION DEVICES AND KEEP A FIRE EXTINGUISHER READY UNTIL THE SITUATION IS RESOLVED.

Fuel Withdrawal Tubes

The fuel withdrawal tubes are positioned in the fuel tank to achieve optimum fuel usage, fuel line routing, etc. At certain speeds and hull trim angles, the fuel supply at the withdrawal tank location can increase or decrease accordingly. Be extremely careful when attempting to operate the boat when low on fuel. Though some fuel may be in the tank, the relative trim angle of the boat may cause the fuel to flow away from the withdrawals.

Fuel Gauge

Indicates the amount of fuel in the tank. Due to the mechanical nature of the fuel sender, variations in readings during various speeds of operation may occur. This system is merely a relative indication of the available fuel supply and not a calibrated instrument.



Typical Fuel Fill

Fuel Fill

The fuel tank is vented through the fill fitting and cap. The system is equipped with a "keyless" fuel cap located on the port side gunnel that is marked "GAS." The fuel fill cap is designed to seal out water and allow the fuel tank to vent to the atmosphere when the cap is closed.

The fuel fill is opened by pressing the release button on the side of the cap. After fueling, make sure to close and latch the cap. Be sure to use the proper type and grade of fuel. Refer to the engine owner's manual for additional information.

Fuel Tank Vent

Your boat is equipped with a fuel tank vent system incorporated into the fuel fill. The fuel fill cap is designed to seal out water and allow the fuel tank to vent to the atmosphere when the cap is closed.

While the tank is being filled, air displaced by the fuel escapes through the vent and fuel fill. When the tank is full, special valves incorporated in the vent and fill hoses close and activate the automatic shutoff valve on the marina fuel pump nozzle to prevent the tank from being overfilled and/or fuel from being ejected from the fuel fill/vent fitting. You should never attempt to "top off" the tank after the nozzle shutoff has activated. The shutoff valves will not allow additional fuel to be added after they close and could be damaged by attempts to force additional fuel into the tank.



Typical Yamaha Port Engine Fuel Filter



Typical Yamaha Starboard Engine Fuel Filter

After fueling, close and latch the fill cap. Then wash spilled fuel from the areas around the fuel fill if necessary. Residual fuel left on the deck and hull sides can be dangerous and will yellow the fiberglass or damage the striping.

5.2 Outboard Engine Fuel System

The gasoline fuel system has one fuel tank that fills from the port gunnel. Each engine is supplied by an independent withdrawal tube and fuel line. There is an on/off valve for each supply line located on the fuel tank near each withdrawal tube. The valves provide a means to turn off the fuel supply to service the fuel system.

Fuel withdrawal lines are equipped with anti-siphon valves where the lines attach to the fuel tanks. These valves prevent gasoline from siphoning out of the fuel tank should a line rupture.



Typical Fuel Gauge Sender & Withdrawal Valves



WARNING



DO NOT REMOVE THE ANTI-SIPHON VALVES FROM THE SYSTEM. SHOULD AN ANTI-SIPHON VALVE BECOME CLOGGED, CLEAN AND REINSTALL OR REPLACE. IF A FUEL LINE SHOULD LEAK, ANTI-SIPHON VALVES PREVENT A SUBSTANTIAL AMOUNT OF FUEL FROM FLOWING INTO THE BILGE. ANTI-SIPHON VALVES ARE REQUIRED TO BE INSTALLED IN ALL BOATS EQUIPPED WITH GASOLINE ENGINES BY THE U.S. COAST GUARD

Engine Fuel Filters

On most engine installations, the fuel filter for each engine is installed in the aft systems compartment. The filters are accessed through the hatch at the rear of the cockpit sole. The filters are the water separator type and should be serviced frequently to assure an adequate supply of clean, dry fuel to the engines. It is recommended that the filters be inspected periodically and the elements changed as needed.

Fuel System

There is a primer bulb or an electric pump in each fuel line usually located near the fuel filters for most engines that is used to prime the fuel system after service or as required. Refer to the engine owner's manual for additional information regarding fuel filters and outboard engine fuel system.

Notice:

Clean fuel is especially important in fuel injected engines. The engine manufacturer's recommendations for fuel filter maintenance must be followed exactly.

Notice:

The procedure to prime the fuel system on outboard engines is specific to the type and model of engines on your boat. You should refer to engine manufacturer owner's manual for the priming procedure for your engines.

5.3 Diesel Fuel System (Optional)

The diesel fuel system for the optional generator is completely separate from the gasoline system. The diesel fuel tank is located in the stern bilge below the cockpit and is filled from a fuel fill deck plate on the aft gunnel labeled "Diesel." The fuel system is not equipped with an anti-siphon valve and there is a fuel return line from the engine that returns unused fuel to the fuel tank.

Proper diesel engine operation requires a good supply of clean, dry diesel fuel. Improper marina fuel storage techniques, limited boat usage, etc. can cause the fuel to become contaminated. Periodically, it may be necessary to pump accumulating water and contaminated fuel from the bottom of the fuel tank. If the generator fuel system on your boat becomes contaminated, contact your dealer or Everglades Customer Service for assistance.

Algae can grow in the accumulated water in diesel fuel tanks. This condition is most prevalent in warm climates. Periodically adding a high quality diesel fuel additive containing an algicide may be required to control algae in your boating area. You should contact your dealer or the generator manufacturer for additional information regarding fuels and additives.

Notice:

Do not allow the generator to sit unused for an extended period with the fuel tank less than full. Changes in temperature and weather conditions can cause condensation in diesel fuel tanks that are less than 3/4 full.



Generator Diesel Fuel Filter

Diesel Fuel Filter

A water separator type fuel filter is mounted near the generator in the aft systems compartment. Another filter is typically installed on the generator inside the sound shield. Replace the filter cartridges as recommended by the generator manufacturer or as needed.

It is particularly important to monitor the condition of the fuel filters frequently because diesel engines circulate much more fuel than they consume. Because of the volume of fuel that flows through the filters, they typically must be changed at least twice a season or more frequently depending on the quality of the fuel and the hours run. Follow the generator manufacturer's instructions for replacing the filters.

Notice:

Diesel fuel systems may need to be primed after servicing. Refer to the generator owner's manual for information on priming the fuel system.



WARNING



DO NOT DRAIN ANY FUEL IN THE BILGE. THIS COULD LEAD TO A FIRE OR EXPLOSION.

CHECK ALL FUEL LINE FITTINGS FOR LEAKS BEFORE AND AFTER STARTING THE ENGINES FOLLOWING ANY FUEL SYSTEM SERVICE.

5.4 Fueling Instructions



WARNING



FUEL IS VERY FLAMMABLE. BE CAREFUL WHEN FILLING THE FUEL TANK. NO SMOKING. NEVER FILL THE TANK WHILE AN ENGINE OR THE GENERATOR IS RUNNING. FILL THE FUEL TANK IN AN OPEN AREA. DO NOT FILL THE TANK NEAR OPEN FLAMES.



CAUTION



TO PREVENT DAMAGE TO THE FUEL SYSTEM, USE ONLY A GOOD GRADE OF GASOLINE FOR GASOLINE ENGINES. DO NOT USE FUEL THAT CONTAINS HARSH ADDITIVES OR IS AN ALCOHOL BLEND OF HIGHER CONCENTRATION THAN RECOMMENDED BY THE ENGINE MANUFACTURER. ANY DAMAGE DONE TO THE FUEL SYSTEM THAT IS THE RESULT OF USE OF AN ALCOHOL BLEND IS NOT COVERED BY THE EVERGLADES WARRANTY. REFER TO THE ENGINE MANUFACTURER OWNER'S MANUAL REGARDING FUEL REQUIREMENTS FOR YOUR ENGINES.



WARNING



DO NOT CONFUSE THE FUEL FILL DECK PLATE WITH THE WATER OR WASTE PUMP OUT DECK PLATE. THESE PLATES ARE LABELED ACCORDINGLY. IF GASOLINE OR DIESEL FUEL IS ACCIDENTALLY PUMPED INTO THE WATER OR WASTE TANK, DO NOT ATTEMPT TO PUMP IT OUT YOURSELF. WATER AND WASTE PUMPS ARE NOT DESIGNED TO PUMP FUEL AND A FIRE OR EXPLOSION COULD RESULT. CONTACT YOUR DEALER OR THE EVERGLADES CUSTOMER SERVICE DEPARTMENT FOR ASSISTANCE IN HAVING THE FUEL PROFESSIONALLY REMOVED.

Preparing The Boat For Fueling

Use the following procedure to prepare the boat for fueling at a marina fuel pump:

- Make sure the boat is securely moored and all engines are off.
- Make sure all switches are in the OFF position.
- Make all 120 volt AC systems are turned off.
- Make sure all passengers leave the boat.
- Close all doors and hatches.
- If the boat is equipped with a generator, make sure the blower is off to prevent fuel fumes from entering the equipment compartment.



WARNING



GASOLINE FUEL VAPORS THAT ACCUMULATE IN THE BILGE, AFT SYSTEMS COMPARTMENT OR CABIN WHILE FUELING CAN EXPLODE!! FUEL VAPORS ARE HEAVIER THAN AIR AND CAN ACCUMULATE IF THEY ARE CARRIED BY THE WIND INTO THE BILGE OR CABIN THROUGH OPEN DOORS, HATCHES OR VENTS. VAPORS CAN ALSO BE DRAWN INTO THE AFT SYSTEMS COMPARTMENT BY THE BLOWERS. ALWAYS TURN BILGE BLOWERS OFF AND CLOSE DOORS AND HATCHES BEFORE FUELING.

- Estimate how much fuel is needed and avoid overfilling the fuel tank..

Fueling The Boat

In order to comply with U.S. EPA emission regulations, boats sold in the United States are equipped with special fuel systems that reduce the flow of fuel vapors from the fuel system to the atmosphere when fueling operations are complete.

These fuel systems meet U.S. EPA emission standards and are designed to maintain a specific air space at the top of the fuel tank that provides proper tank ventilation and protection for emission control components. Special valves in the fuel tank vent and fill systems and a shutoff valve in marina fuel pump nozzles are designed to automatically stop the fuel flow when the tank is full and maintain this air space.

Notice:

When the fuel tank is full, the shutoff valve in the marina fuel pump nozzle will activate and automatically shut off the flow, indicating that the tank is filled to the maximum level. You should stop filling the tank at this point and never attempt to "top off" the tank. Attempting to "top off" the tank could damage fuel level control valves.



WARNING



STATIC ELECTRICITY GENERATED BY FLOWING FUEL CAN CAUSE A FIRE OR EXPLOSION. TO PREVENT STATIC SPARKS WHEN FILLING THE TANK, MAKE SURE THE NOZZLE IS ALWAYS IN CONTACT WITH THE FUEL FILL OPENING.

Fuel System

To fill the fuel tank, follow this procedure:

- The fuel cap is hinged and does not require a key. Press the release button on the side of the cap and swing it open for fueling.
- Make sure the nozzle is equipped with an automatic shutoff valve. Then put the nozzle in the fuel fill opening and make sure it stays in contact with the fuel fill fitting during the entire fueling operation.
- Fill the tank until the shutoff valve in the pump nozzle clicks and automatically stops the fuel flow.
- Remove the nozzle and close the cap.

**WARNING**

SPILLED FUEL CAN CAUSE A FIRE OR AN EXPLOSION. MAKE SURE YOU DO NOT SPILL ANY FUEL. IF A SMALL AMOUNT OF FUEL IS SPILLED ON THE FIBERGLASS, USE A CLOTH TO REMOVE THE FUEL AND PROPERLY DISPOSE OF THE CONTAMINATED CLOTH. IF FUEL IS SPILLED ON THE WATER, EXERCISE EXTREME CAUTION. FUEL FLOATS ON THE SURFACE OF THE WATER AND CAN IGNITE. IF FUEL IS SPILLED INTO THE WATER, IMMEDIATELY EVACUATE THE AREA AND NOTIFY THE MARINA AND THE PROPER OFFICIALS.

Preparing The Boat For Operation

Use the following procedure to prepare the boat for operation when fueling operations are complete:

- Open all hatches, windows and doors.
- Check the fuel compartment and below the deck for fuel odors. If you smell fuel, do not start the engines.
- If your boat is equipped with a generator, run the blower for at least four minutes to completely ventilate the aft systems compartment before starting the generator.

**WARNING**

TO REDUCE THE RISK OF A FIRE AND/OR EXPLOSION, DO NOT START THE ENGINES WHEN FUEL FUMES ARE PRESENT. FUEL FUMES ARE DANGEROUS AND HARMFUL TO YOUR HEALTH.

MAKE SURE ALL GASOLINE ODORS ARE INVESTIGATED IMMEDIATELY.



DANGER



GASOLINE FUEL VAPORS THAT ACCUMULATE IN THE CABIN OR AFT SYSTEMS COMPARTMENT WHILE FUELING CAN EXPLODE!! TO REDUCE THE RISK OF A FIRE AND/OR EXPLOSION WHEN OPERATING THE GENERATOR AFTER FILLING THE FUEL SYSTEM, ALWAYS RUN THE BLOWER FOR AT LEAST FOUR (4) MINUTES AND OPEN ALL HATCHES, WINDOWS AND DOORS TO COMPLETELY VENTILATE THE BOAT BEFORE STARTING THE GENERATOR.

5.5 Fuel System Maintenance

Periodically inspect all primer bulbs, connections, clamps and hoses for leakage, damage or deterioration. Replace as necessary. Spray the valves, tank fuel gauge sender and ground connections with a metal protector.

Frequently inspect and lubricate the fuel fill cap seal with Teflon or silicone grease. The seal prevents water from entering the fuel system through the fuel fill cap and it should be immediately replaced if there is any sign of damage or deterioration.

Contaminated fuel may cause serious damage to your engine. Fuel filters must be checked for corrosion and deterioration frequently. Fuel filters must be changed at least once a season or more frequently depending on the type of engine and the quality of the fuel. Refer to the engine or fuel filter manufacturer's instructions for information on servicing and replacing the fuel filter.

The age of gasoline can effect engine performance. Chemical changes occur as the gasoline ages that can cause deposits and varnish in the fuel system as well as reduce the octane rating of the fuel. Severely degraded fuel can damage the engine and boat fuel tank and lines. Therefore, if your boat is not being run enough to require at least one full tank of fresh fuel a month, a fuel stabilizer should be added to the gasoline to protect the fuel from degradation. Your dealer or the engine manufacturer can provide additional information on fuel degradation and fuel stabilizers recommended for your engine.

In many states, most gasoline is blended with ethanol alcohol. Ethanol is a strong solvent and can absorb water during periods of storage. You should refer to the engine operating manual for information regarding alcohol blended fuels and how it affects the operation of your marine engine.

Fuel System

Diesel Generator Fuel System

Algae can grow in the accumulated water in diesel fuel tanks. This condition is most prevalent in warm climates. Periodically adding a high quality diesel fuel additive containing an algaecide may be required to control algae in your boating area. Since algae also can grow in accumulated water in fuel filters, it is important to run the generator for at least 30 minutes after the algaecide has been added so it will be circulated throughout the fuel system. This is even more important during periods of storage or if the generator is not used enough to require refueling at least once a month.

Severe algae in a diesel fuel system can be extremely difficult and expensive to clean. You should be diligent in monitoring the fuel system by changing the fuel filters as recommended and being alert for signs of algae in fuel that is drained from the filter. Most algae appears as black, carpet like, fibers suspended in fuel and water drained from the filter. Severe cases of algae will produce a black jelly like substance that quickly clogs the filter and starves the engine for fuel.



WARNING



DO NOT DRAIN ANY FUEL INTO THE BILGE WHEN SERVICING THE FUEL SYSTEM. THIS COULD LEAD TO A FIRE OR EXPLOSION.



WARNING



AFTER THE FILTER ELEMENTS HAVE BEEN CHANGED, PRIME THE FUEL SYSTEM AND CHECK ALL FITTINGS FOR LEAKS BEFORE AND AFTER STARTING THE ENGINES.

BEFORE STARTING THE ENGINES, ALWAYS OPEN ALL HATCHES, WINDOWS AND DOORS TO COMPLETELY VENTILATE THE BOAT AFTER SERVICING THE FUEL SYSTEM.



WARNING



TO REDUCE THE POSSIBILITY OF A FIRE OR EXPLOSION, MAKE SURE ALL ELECTRICAL SWITCHES ARE IN THE OFF POSITION BEFORE SERVICING THE FUEL SYSTEM.



DANGER



AVOID SERIOUS INJURY OR DEATH FROM FIRE OR EXPLOSION RESULTING FROM LEAKING FUEL, INSPECT SYSTEM FOR LEAKS AT LEAST ONCE A YEAR.

ELECTRICAL SYSTEM

6.1 General

Your boat is equipped with 120 volt AC and 12 volt DC electrical systems. The AC system can draw current from one of two sources, either shore power outlets at dockside or the optional generator. The DC system draws current from onboard batteries.

The boat and engine charging system is designed for 12 volt marine batteries. All wires in the electrical systems are color coded to make identifying circuits easier. Wiring schematics have been included with this manual.

6.2 DC System Overview

The 12 volt system is a fairly standard marine system. There are five or six batteries, one for each engine and three for the house, electronics and optional generator. If your boat is equipped with the optional bow thruster, there will be a sixth battery dedicated to the thruster system. The House and optional Thruster batteries are connected to the engine auxiliary charging circuits.

The batteries are located in aft systems compartment and in the battery compartment below the helm seats. Twin engine battery systems are controlled by three battery switches, one for each engine and one for the house 12 volt accessories and electronics. If your boat is equipped with an optional bow thruster and/or SeaKeeper, there will be an additional battery switch to control that. The batteries are charged by the engines or the battery charger when connected to shore power or when the generator is operating.

Most 12 volt power is distributed to the 12 volt accessories through individual circuit breakers and fuses located in panels near the batteries and below the helm. All circuit breakers or fuses are labeled with the name of the circuit they protect. Main circuit breakers near the batteries protect the primary circuits for the DC main, electronics, windlass and other accessory circuits. Additional fuses in panels near the main circuit breakers protect continuous power circuits for the stereo memory, automatic switches for bilge pumps and high water alarm, shower sump automatic switch, CO monitor and the remote battery switches. 12 volt accessories are operated by switches in the



House Battery Switch & Fuse Panels

helm switch panels, digital switches in the Garmin displays or cabin switch panels. Most accessory circuits are protected by circuit breakers in the digital switch control modules.

Main breakers or fuses located on each engine protect the ignition systems and gauge panel display. Other main, heavy duty fuses or circuit breakers in the aft systems compartment protect the primary engine control and charging circuits.

Most engine electrical circuits are protected by fuses located in a fuse panel on the side of each engine. The engine fuse panels are equipped with a spare fuse for each circuit. Always replace fuses used with the fuse specified by the engine manufacturer. Refer to the engine owner's manual for more information on the fuses, fuse panels or circuit breakers on your engines.



CAUTION



PROPER FUSE OR BREAKER PROTECTION MUST BE PROVIDED FOR ALL 12 VOLT EQUIPMENT ADDED. DO NOT OVERLOAD THE ACCESSORY CIRCUIT BREAKERS OR OTHER CIRCUITRY THROUGH ADDITIONAL 12 VOLT EQUIPMENT.



Engine Battery Switches In Aft Systems Compartment

6.3 Batteries & Battery Switches

The DC electrical system on your boat is designed for 12 volt marine batteries only. The engine starting batteries are mounted in the aft systems compartment and the house batteries are in the battery compartment below the mezzanine seats.

Use only AGM or wet cell marine batteries, depending on the engines selected. The engine charging system and battery charger may not be able to recharge gel cell or lithium batteries properly which could cause unusually short battery life, engine starting problems and damage to the DC charging systems.

You also should not mix the size or brand of batteries. Always consult your dealer before changing the type of batteries in your boat.

Engine starting batteries should be of the size and capacity recommended by the manufacturer of your engines. These specifications should be considered the minimum size battery required. Consider increasing the capacity of the batteries if you will be trolling, drift fishing or have extensive electronics on board. Larger batteries will give you additional capacity to operate the baitwells, DC accessories and electronics at low speed when the charging system output from the engines is minimal. Refer to the engine owner's manual for additional information on the battery requirements for your engines.



Engine Starting Batteries In Aft Systems Compartment



House Battery Switch



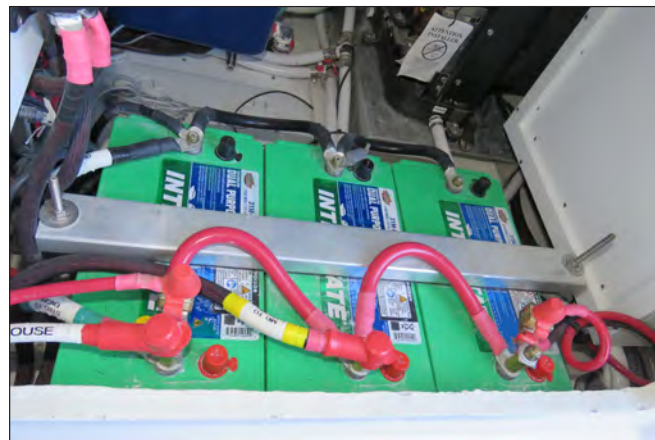
Engine Battery Switch & Manual Override

Battery Switches and Systems

Twin engine battery systems are controlled by three battery switches, one for each engine and one for the house 12 volt accessories and electronics. If your boat is equipped with the optional SeaKeeper, there will be an additional battery switch that is activated by the house battery switch in the house battery switch and fuse panel.

There is a remote activated battery switch for the engines, house and optional SeaKeeper circuits, and a remote activated emergency parallel switch located in the cabin electrical panel. If your boat is equipped with a SeaKeeper, the main switch for the system will be activated by the house battery switch. The house switch will also activate the bow thruster circuit if your boat is equipped with this option.

Each battery switch has a manual override that can activate (enable) or deactivate (disable) the switch if the remote switch or relay fails. The manual override is a yellow knob on each switch that can be pressed to manually activate the switch or rotated to reactivate remote activation of the switch or to lockout the switch in the OFF position when servicing the electrical system. The normal operating position for each switch is the "Enabled" Position. Refer to the instructions printed on each switch and/or the battery switch operation manual for additional information on the remote activated switches.



House Batteries In Compartment Below Mezzanine Seats

The engine main and auxiliary charging systems control the charging of the engine and house batteries whenever the engines are operating. The engine batteries can be temporarily connected in parallel by the emergency parallel switch in the cabin to provide additional starting current for the engines. The batteries are also charged by the battery charger when plugged into shore power or when running the generator.

The engine charging systems manage the charging current for the 12 volt system whenever the engines are running. The systems automatically sense the condition of each battery and direct available current to the batteries that require charging.

Electrical System

When the engines are started, the engine alternators start to recharge the batteries. The charging circuits sense the charge and it is split between the batteries, with the lowest batteries receiving the most charge. When the engines are turned off, charging stops and the sensing circuits disconnect the batteries from the charging circuits, thereby automatically isolating the batteries from one another.

When in port or at anchor, the Engine battery switches should be off. Only the battery switch that activates the House starting batteries in reserve for starting the engines.

Notice:

Current is supplied to the automatic switches for the bilge pumps and high water alarm when the batteries are connected and the battery switches are off.

Notice:

The manual overrides on the battery switches completely bypass the remotely activated switches when the switches are manually activated. The circuits cannot be turned off using the remote battery switches in the cabin panel if the battery switches have been activated by the manual switches.

6.4 Remote Battery Switch Panel

Each battery switch and the emergency parallel relay are controlled by switches in the battery switch panel located on the electrical panel in the cabin next to the cabin door. A red light in each switch will illuminate to indicate that the batteries the switch controls are now on. When the battery switch is turned off, the red light may not turn off immediately or will slowly fade out if there are no loads present on the system. This is normal as the capacitors in the system drain.

Engine

Remotely activates both engine battery switches. Slide the label down and press the top of the switch to activate the battery switch. Slide the label up and press the bottom of the switch to turn the battery switch off.



Remote Battery Switches On Cabin Electrical Panel

House

Remotely activates the House battery switch. If your boat is equipped with the optional SeaKeeper and/or bow thruster, the House switch will also activate those systems. Slide the label down and press the top of the switch to activate the battery switch. Slide the label up and press the bottom of the switch to turn the battery switch off.

Parallel

Activates the circuit that connects the engine starting batteries in parallel for extra battery power while starting the engines. When the switch is activated, relays are engaged that connect the engine starting batteries, when the switch is turned off, the relays are deactivated and the batteries are isolated. Always make sure to turn the battery parallel switch off after starting the engines to isolate the starting batteries.

Notice:

The remote battery switch panel is always supplied power whenever the house battery bank is connected.

6.5 Parallel Switch & Dead Batteries Dead Engine Starting Battery

The Parallel switch in the battery switch panel activates the circuit that connects the engine starting batteries in parallel for extra battery power while starting the engines.

When the Parallel battery switch is activated, relays are engaged that connect the engine starting batteries, when the switch is turned off, the relays are deactivated and the batteries are isolated.

To connect the batteries in parallel to start the engines, make sure all engine battery switches are on, then activate the Parallel switch in the cabin battery switch panel and start each engine. Once the engines have started and systems have stabilized, turn the Parallel switch off to deactivate the relays and isolate the engine batteries.

Always make sure to turn the battery parallel switch off after starting the engines to isolate the starting batteries.

Dead House Battery Bank

In the event of a dead house battery bank, there are a several options:

- If at the dock, simply plug in the shore power and operate the battery charger to recharge the house batteries.
- If at sea, start one or all engines. Once an engine is running, the alternator and ACR circuit will charge the house batteries. Operating both engines will recharge the house batteries much quicker. The batteries will continue to be charged until the engine or engines are shutdown, isolating the house battery bank from the engine batteries.
- If at sea and your boat is equipped with the optional generator, the generator can be started and the battery charger activated to recharge the house batteries after the engines have charged the batteries enough to start the generator. Once the generator has started and the battery charger is activated, you can shutdown down the engines.

Notice:

If a battery is fully discharged/dead for a lengthy period, it may become permanently damaged and will not be able to hold a charge.

Electrical System

6.6 Ignition Switch Panels

Ignition Switch Panels

Ignition switch panels are unique to each engine manufacturer and the engine control options selected. Your dealer will provide you with the proper starting procedure for your boat at the time of delivery. Additional information for the ignition switch system installed in your boat is located in the engine and control system operating manuals included in your information packet.

The following instructions is an overview for typical Mercury and Yamaha ignition switch panels commonly installed on Everglades boats. Your boat may be different depending on the options selected.

Standard Ignition Switch

The ignition switches are key activated switches located at the helm or on the cabin electrical panel which start and stop the engines. Most switches have OFF-ON and momentary START positions. Some switches also have an ACC position to activate selected 12 volt equipment without energizing the engine ignition circuits.

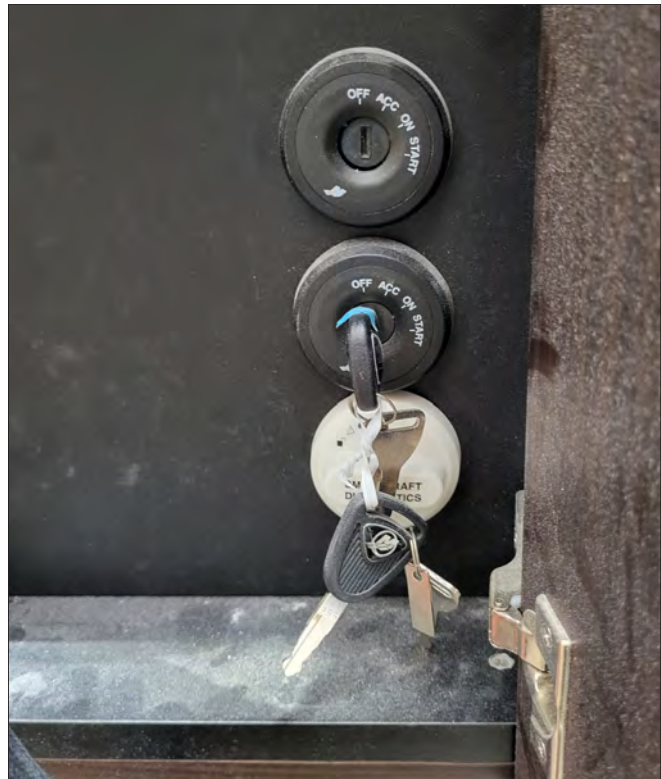
To start the engines, make sure the engines are tilted down with the shift levers in the neutral position and your hand is on the control levers. Turn the ignition key for the port engine to the START position briefly, then release the key. The computer will automatically check all engine systems and start the engine. When the engine stabilizes, repeat the starting procedure for the starboard engine. Stop each engine by turning the key switches to the OFF position.

The ignition circuit is protected by a circuit breaker located in the battery switch panel and/or fuses located on the engine.

Mercury Digital Ignition

Mercury digital ignition panels are equipped with ON/OFF key switches located on the cabin electrical panel and a START/STOP panel at the helm and/or built into the engine controls.

The Start/Stop panel is used in conjunction with the key switches and features a START/STOP button for each engine. This system greatly simplifies the starting and stopping process of your engines. For convenience and protection, engines cannot be restarted while running.



Typical Mercury Ignition Switches



Mercury Control Engine Start/Stop Buttons

Electrical System

Starting Procedure

Turn each ignition key to the ON position to activate the START buttons for both engines. Make sure the engines are tilted down with the shift levers in the neutral position and your hand is on the control levers. Press and release the START/STOP button for the port engine. The computer will automatically check all engine systems and start the engine. When the engine stabilizes, repeat the starting procedure for the starboard engine.

Notice:

Some controls are equipped with a button that starts or stops all engines. This button will be in addition to the individual engine START/STOP buttons.

Stop the engines by pressing the START/STOP buttons again. Disable the START/STOP panel by turning the key switches off.

The engine ignition circuits are protected by fuses or circuit breakers located on each engine. The key switches are protected by circuit breakers in the battery switch panel.

Helm Master Ignition

Boats equipped with Yamaha engines include the Helm Master ignition panel that offers the latest technology and security. This is a “keyless” electronic panel which energizes the ignition system of multiple outboards with only one Radio Frequency ID key by touching the panel with the electronic key. The panel features lights which indicate when the engines are running and a START/STOP button for each engine. For convenience and protection, engines cannot be restarted while running.

Starting And Stopping Procedure

Make sure the engines are tilted down with the shift levers in the neutral position and your hand is on the control levers. Touch the panel with the electronic key fob to unlock and activate the panel. The panel will beep twice to indicate it is unlocked and the buttons are active. Once the panel is activated, press the IGNITION button, then the START/STOP button for the port engine. It is not necessary to hold the button, just press it once and release it. The computer will automatically check all engine systems and start the engine. Once the engine stabilizes, repeat the starting procedure for the other engine. Stop the engines by pressing the START/STOP buttons again. Touch the panel with the electronic key to deactivate and lock the panel. The panel will beep once to



Typical Yamaha Helm Master Twin Engine START/STOP Switch Panel



Yamaha Control All Engine Start/Stop Button

indicate that it is locked and the engines and START/STOP buttons are deactivated.

Notice:

Some controls are equipped with a button that starts or stops all engines. This button will be in addition to the individual engine START/STOP buttons.



Helm Switch Panel & touchscreen Switches

6.7 12 Volt Helm Accessory Switch Panels Digital Switch System

Your boat is equipped with a digital switching system that provides reduced complexity and increased switching options for the lights and accessories the switches control. The system consists of control output modules, digital switch panels and touchscreen switches in the helm electronics display panels.

Each circuit is protected by individual circuit breakers built into each control output module. The control output modules are where the switching of input and output current load to the selected accessories takes place. Controllers in each module recognize low voltage, digital signals from the switches and activate the correct programmed combination of circuits for each switch function (i.e. the navigation lights switch actually forces the forward navigation lights and the anchor light to be turned on at the same time).

Interior or cockpit light switches may be programmed to activate different colors for multicolored LED

lights activated by the switches as well as their ON/OFF status. All switches in the push button switch panels are a "press to activate" and "press to deactivate" design. LED lights in each switch indicate the circuit is activated.

This section provides a general description of the accessories typically activated by the digital switch panels. Switch programming is unique to each boat, depending on optional equipment installed at the factory or by your dealer and display preferences chosen at the time of manufacture. Consequently, switch programming on your boat may be different.

Refer to the digital Control System section in this chapter and the Garmin Switch system operation manual for additional information on the digital switching system. Your dealer will also provide you with hands-on instructions at the time of delivery.

Port Helm Switch Panel

The following is a description of the accessories controlled by the port helm accessory switch panel:



Port Helm Switch Panel

Horn

A momentary switch that activates the boat horn located on the hardtop.

Nav/Anc Lights

Activates the navigation and anchor lights. Press the switch once for navigation lights. Press the switch again to activate the anchor light. Press the switch again to turn the lights off.

Navigation lights are located on the hardtop and are intended to keep other vessels informed of your presence and course. All vessels are required to display navigation lights between sunset and sunrise and other periods of reduced visibility. During these times, no other lights that could be mistaken for lights specified in the Rules of the Road can be displayed, nor any lights that impair the visibility or distinctive character of navigation lights, or interfere with the keeping of a proper lookout.

Your boat is equipped with navigation lights required by the U.S. Coast Guard at the time of manufacture and should not be modified. It is up to you to make sure they are operational and turned on when required. Navigation lights should be replaced immediately if they are ever found to be inoperable.

Windshield Wiper

Activates the windshield wiper.

Windshield Washer

A momentary switch that activates the solenoid that sprays water on the windshield washer from the fresh water system.

Notice:

The fresh water system must be activated for the windshield washers to work.

Helm Lights

Activates the red overhead map lights above the helm.

Notice:

Red lights have less effect on night vision and should be selected if you need to illuminate the helm area while navigating at night.

Switch Dimming

Controls switch panel backlight intensity. Press and hold the switch to increase intensity, press and hold again to decrease intensity.

Hardtop Lights

Activates the lights in the hard top above the helm and mezzanine seats.

Courtesy Lights

Activates the lights below the gunnels that illuminate the cockpit sole.



Starboard Helm Switch Panel

Starboard Helm Switch Panel

The following is a description of the accessories controlled by the starboard helm accessory switch panel:

Windlass Up/Windlass Down

Two momentary switches that control the windlass, which is mounted in a compartment below the deck at the bow. Press and hold the WINDLASS DOWN switch to pay the anchor line out. Press and hold the WINDLASS UP switch to pull the anchor line in. The switches return to the OFF position when released.

Fresh Water

Activates the pump that supplies water pressure for the fresh water system. The pump is the pressure demand type. A pressure switch automatically controls the water pump when the system is activated and properly primed.

Raw Water

Activates the seawater system pump that supplies the raw water washdown hose in the cockpit and anchor locker. The pump is the pressure demand type. A pressure switch automatically controls the water pump when the system is activated and properly primed.

Aft Bilge Pump 1

Manually activates aft bilge pump #1 located in the aft systems compartment bilge near the transom. The pump moves water out a thru-hull fitting in the hull. The pump is also activated by an automatic switch whenever the batteries are connected. This pump will run as needed whenever water in the bilge accumulates high enough to be activated by the automatic switch and turn off when the water is removed.

Aft Bilge Pump 2

Manually activates the aft emergency bilge pump #2 located near the aft bilge pump in the aft systems compartment bilge near the transom. The pump moves water out a thru-hull fitting in the hull. The pump is also activated by an automatic switch whenever the batteries are connected. This pump will run as needed whenever water in the bilge accumulates high enough to be activated by the automatic switch and turn off when the water is removed.



Typical Switches In The Helm Touchscreen Display

Fwd Bilge Pump

Manually activates the forward bilge pump located below cabin electrical panel. The pump moves water out a thru-hull fitting in the hull. The pump is also activated by an automatic switch whenever the batteries are connected. This pump will run as needed whenever water in the bilge accumulates high enough to be activated by the automatic switch and turn off when the water is removed.

Notice:

The bilge pumps will start automatically when there is sufficient water in the bilge to activate the automatic switch. Each automatic switch is protected by a labeled fuse located in the fuse and breaker panel and are always supplied current when the batteries are connected.

Aux Power

Activates the auxiliary 12 volt outlets at the helm and in the cockpit.

Electronics Display Panel Switches

Accessory switches are integrated into the electronic display panels at the helm. Switches are organized in categories that are displayed on the menu on the top or side of the screen.

The switches are typically activated by touching one side of the switch icon to activate the accessory and touching the other side of the switch to turn it off. LED lights in each switch icon illuminate to indicate the circuit is activated.

Notice:

Some switches in the helm switch panels may be duplicated in the electronics display panel for convenience. Switches displayed may vary depending on options selected and factory programming. Your boat may be equipped with additional switches not mentioned.

Electrical System

The following is a description of accessory switches typically controlled by touchscreen switches in the electronics display panel:

Helm Lights

Activates the red overhead map lights above the helm.

Nav Underway

Activates the navigation lights.

Anchor

Activates the anchor light.

Hardtop Lights

Activates the lights in the hard top above the Helm and mezzanine seats. These lights are full spectrum in color.

Accent Lights

Activates the lights that illuminate the cockpit.

Courtesy Lights

Activates the lights in the cockpit below the gunnels that illuminate the cockpit sole.

Aft Deck Lights Lights

Activates the aft cockpit lights and controls the intensity of those lights.

Bilge Lights

Activates the circuit for "touch" lights in the aft systems compartment and forward bilge. Touch the light to turn it on. Touch it again to turn it off.

Livewell Lights

Activates the lights in the optional livewell.

Underwater Lights (Optional)

Activates the colored LED underwater lights in the stern below the waterline.

Fresh H2O Pump

Activates the pump that supplies water pressure for the fresh water system. The pump is the pressure demand type. A pressure switch automatically controls the water pump when the system is activated and properly primed.

Raw H2O Pump

Activates the raw water washdown pump that supplies the washdown hose in the cockpit and anchor locker. The pump is the pressure demand type. A pressure switch automatically controls the water pump when the system is activated and properly primed.

Fwd Bilge Pump

Manually activates the forward bilge pump located below the head compartment sole. The pump moves water out a thru-hull fitting in the hull. The pump is also activated by an automatic switch whenever the batteries are connected. This pump will run as needed whenever water in the bilge accumulates high enough to be activated by the automatic switch and turn off when the water is removed.

Aft Bilge 1

Manually activates the aft bilge pump located in the aft systems compartment bilge near the transom. The pump moves water out a thru-hull fitting in the hull. The pump is also activated by an automatic switch whenever the batteries are connected. This pump will run as needed whenever water in the bilge accumulates high enough to be activated by the automatic switch and turn off when the water is removed.

Aft Bilge 2

Manually activates the aft emergency bilge pump located behind the aft bilge pump in the aft systems compartment bilge near the transom. The pump moves water out a thru-hull fitting in the hull. The pump is also activated by an automatic switch whenever the batteries are connected. This pump will run as needed whenever water in the bilge accumulates high enough to be activated by the automatic switch and turn off when the water is removed.

Notice:

The bilge pumps will start automatically when there is sufficient water in the bilge to activate the float switch. Each automatic switch is protected by a labeled fuse located in the fuse and breaker panel and are always supplied current when the batteries are connected.

Windlass Up/Windlass Down

Two momentary switches that control the windlass, which is mounted to the deck forward of the rope locker. Touch and hold the DOWN switch to pay the anchor line out. Touch and hold the UP switch to pull the anchor line in. The switches return to the OFF position when released.

Windlass Enable

Activates the windlass up/down switches.

Sunroof (Optional)

Two momentary switches that control the hardtop sunroof. Touch and hold the UP switch to open the sunroof. Touch and hold the Down switch to close the sunroof. The switches return to the OFF position when released.

Sunroof Enable (Optional)

Activates the sunroof switches.

Sunshade

A momentary switch that controls the optional aft sunshade on the rear of the hardtop.

Wipers

Activates the windshield wiper and selects wiper speed and mode.

Swipe

Touch to activate the wiper for one swipe.

Light Bar (Optional)

Activates the overhead lights at the front of the hardtop that illuminate the area forward of the bow.

Wiper - Wash

A momentary switch that activates the solenoid that sprays water on the windshield washer from the fresh water system.

Notice:

The fresh water system must be activated for the windshield washers to work.

Interior Overhead Lights

Activates the overhead lights in the cabin.

Interior Accent Lights

Activates the the cabin accent lights.

Interior Head Overhead Lights

Activates the overhead lights in the head compartment.

Livewell Pump

Activates the pump for the optional livewell.

Port Fishbox Pump

Activates the overboard discharge pump for the port aft fishbox.

STBD Fishbox Pump

Activates the overboard discharge pump for the starboard aft fishbox.



Trim Tab Control Switch



Zip Wake Trim Tab Control Panel

Additional 12 Volt Switches

Trim Tab Switch

Located in the helm. This switch controls the trim tab planes located on the transom of the boat. It is protected by a fuse located in the house battery switch fuse panel. Refer to the Helm Control Systems chapter for detailed information on the operation of the trim tab controls.

Zip Wake Trim Tab Control Panel

Located in the helm. This panel controls and monitors the optional ZipWake trim interceptors located on the transom of the boat. It is protected by a fuse in the house battery switch panel. Refer to the Helm Control Systems chapter for detailed information on the operation of the trim tab controls.



Typical Auto Pilot Switch Panel

Engine Trim and Tilt Switches

Located in the helm. These switches are typically installed in the engine throttle and shift controls. They control the trimming and tilting of the engines. Refer to the Helm Control Systems chapter and the engine owner's manual for information regarding the proper use of the tilt and trim switches.

Auto Pilot Switch Panel (Optional)

Located in the helm. Controls the auto pilot. It is protected by a fuse located in the accessory fuse

panel behind the helm or other circuit protection provided by the auto pilot manufacturer. Refer to the auto pilot owner's manual for details on operating the control pad.

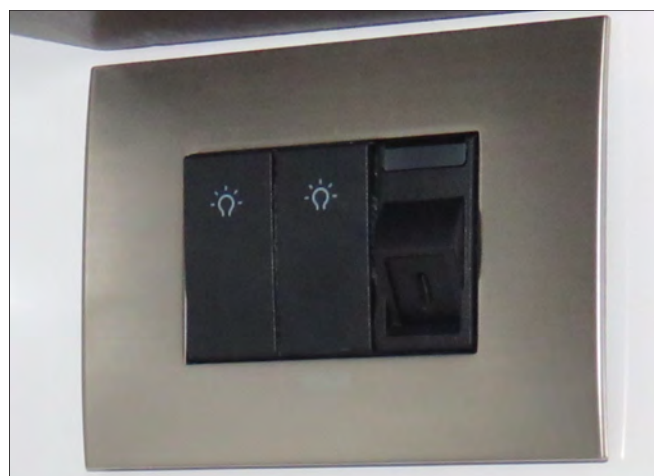
Bow Thruster (Optional)

Located in the helm. This panel controls the optional bow thruster. It is protected by a fuse in the house battery switch panel. Refer to the Helm Control Systems chapter for detailed information on the operation of the bow thruster controls.

Electrical System



Head Control Switch Panel



Cabin Light Switch Panel

Marine Head Control Switch

Located in a panel near the marine toilet in the cabin. Controls the filling and flushing operations of the marine toilet. Refer to the Interior Equipment chapter for additional information on the operation of the marine toilet.

Waste Discharge Switch

A key activated momentary switch located in the head control panel that controls the overboard discharge pump system for the holding tank and marine head system. Monitor the waste level in the tank while pumping and turn the waste discharge switch OFF immediately when pumping is complete.

The key must be removed from the switch whenever the discharge pump is not being operated.

Cabin Light Switch Panel

Located near the cabin door. These switches activate the lights in the main cabin and head compartment.

Blower Switch

Located on the cabin electrical panel. Activates the blower that provides ventilation for the aft systems compartment while running the optional generator.

USB Connections

Located at the helm, in the cabin and in cockpit near the bow seats. Provide a means for USB chargers to connect to the boat 12 volt system. The USB connections will charge cell phones and other portable electronics that are charged by a USB cord.



Blower Switch

Electrical System

Windlass Switch

A three position momentary switch located in the windlass compartment that controls the windlass. The middle position is OFF. Press and hold the switch UP to raise the anchor. Press and hold the switch DOWN to lower the anchor. The switch automatically returns to the middle (OFF) position when it is released.

The primary windlass circuit is protected by a heavy duty circuit breaker located on the fuse and breaker panel in the battery compartment. Another circuit breaker in the digital switching control module protects the windlass switch circuits.

Sunroof Switch (Optional)

A three position momentary rocker switch that controls the sunroof in the hardtop. The center position is OFF. Press and hold the top of the switch to open the sunroof, press and hold the bottom of the switch to close it. The sunroof will stop immediately when the switch is released or when it reaches the fully open or closed position.

Shade Extend/Retract (Optional)

A three position momentary rocker switch that controls the retractable sunshade integrated into the rear of the hardtop. The center position is OFF. Press and hold the top of the switch to extend the shade, press and hold the bottom of the switch to retract it. The shade will stop immediately when the switch is released or when the shade reaches the fully extended or retracted position.

Inductive Phone Chargers

Two inductive phone chargers are located in the storage tray on top of the console.

Outboard Engine Flushing Switch (Optional)

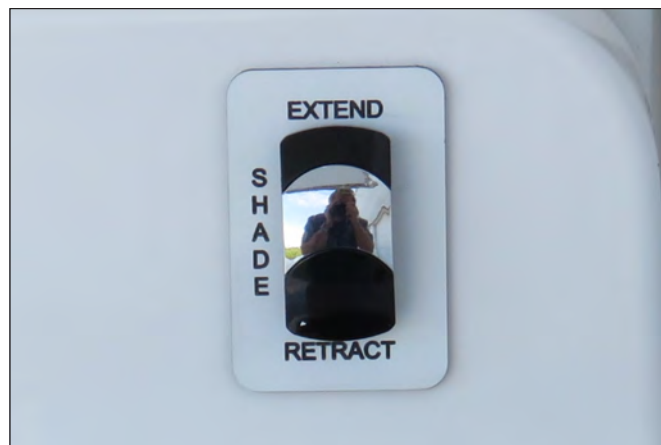
Located below the starboard gunnel at the rear of the cockpit that activates the engine flushing system.

Dry Bilge Pump

Located below the removable countertop at the rear of the cabin. This switch controls the pump that pumps the forward bilge dry when activated.



Windlass Switch In Windlass Compartment



Sunshade Switch



Engine Flushing Switch



Typical Switches In The Helm Touchscreen Display

6.8 Digital Touch Control System

The digital touch switching system provides reduced complexity and increased switching options at the helm. The system consists of the touch control screens in the Garmin displays, digital switch panels and DC digital control output modules.

The electrical systems and accessories are monitored by various screens in the Garmin touchscreen displays.

Display & Control Features

The display/control screens are the primary interface between the digital switch network and the user. They provide full control of circuits controlled by the digital switch panels as well as the ability to view selected onboard system information, such as tank levels and power levels for DC supplies. Circuit breakers in the control output modules protect the DC circuits activated by the module. Heavy duty main breakers protect the primary power circuit for each module.

Audio and visual alarms with systems diagnostics are also provided. The display screens are designed with a menu structure that is easy to follow. The

“modes of operation” feature allows the control of multiple circuits with a single push of a button.

The following is a general overview of some features that can be, monitored or controlled with the digital control features on the Garmin display panels.

Modes of Operation

- Allow user to assign control of multiple DC circuits to a single switch.
- Allow user to dim or brighten selected light circuits.
- Allow users to activate or power down the DC electrical system from the onboard control panels.

Power Control

- Activates and monitors the DC powered seawater and freshwater pumps.
- Activates and monitors the holding tank DC powered overboard discharge diaphragm pump for the waste tank.



Fluid Level Monitoring Screen

DC Power Meter

- Displays voltages of engine and house batteries. Includes low and high voltage alarms.
- Displays battery capacity in ampere hours and % charge/discharge, includes low ampere hour alarm.
- Displays charge and discharge amps.

Fluid Levels

- View tank level information for water and waste tanks.
- View gas and diesel fuel tank level information.

Data

- Displays network information.
- Displays temperature and pressure values.
- Monitors all circuits connected to the digital network.

Alarms

- Digital network status reporting.
- Indicates alarms for onboard faults in audible and visual form (bilge pump operation, high bilge water level, smoke alarm).

Refer to the Garmin digital switching system operation manual for additional information on the features and operation of the digital control system.

Electrical System

Digital DC Electrical System Control Output Module Circuit Protection

Accessory circuits activated by the digital switches are protected by circuit breakers located in the output modules. The circuits controlled by each module are numbered and labeled for the accessory activated and protected by the module.

Most main circuit breakers and a DCM control module are located on the fuse and circuit breaker panel in the battery compartment below the mezzanine seats. Other control modules are located in the aft systems compartment, behind the aft cabin bulkhead and behind the helm. To reset a circuit breaker in a control module, use the arrow buttons to scroll to the circuit with the blown breaker. Then press the RESET/AUTO switch to reset the breaker.

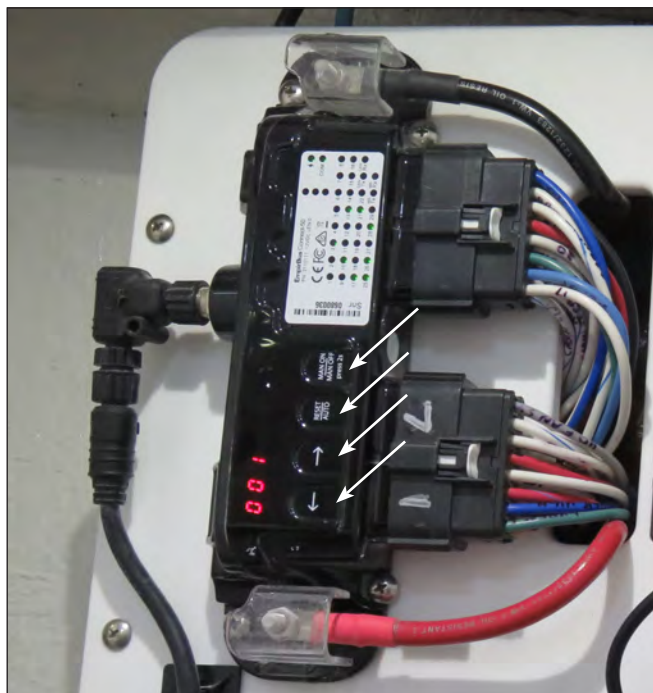
In addition to circuit protection, the control modules are equipped with a manual circuit bypass feature that allows any circuit controlled by an output module to be activated manually.

To bypass the controller and activate a circuit manually, use the arrow buttons to scroll to the circuit that needs to be activated. Then press the MAN ON/MAN OFF switch to activate the circuit. Press the MAN ON/MAN OFF switch again to deactivate the circuit.

Refer to the Garmin digital switching system operation manual for additional information on the digital switching system.



Digital Switch Control Module & Main Circuit Breakers



Typical Digital Control Module

6.9 DC System Circuit Protection

Power is distributed to most 12 volt accessories through individual circuit breakers in the digital switching control modules. Fuses located in fuse panels on the fuse and breaker panels in the battery compartment below the mezzanine seats protect the circuits for the remote battery switches and continuous power circuits. Other fuse panels on the fuse and breaker panels, behind helm and aft cabin bulkhead protect electronics and other accessories.

The fuses are labeled for the accessory circuit they protect. Blank fuse holders are reserved for additional accessories not usually installed by the factory.

If a fuse blows, it must be replaced with a fuse of the same amperage as the original. Fuses are labeled and color coded. Never try to correct a problem with a 12 volt accessory by installing a larger fuse. This could cause the accessory or circuit with a problem to overheat, which could result in an electrical fire.

The following is a description of the most common circuit breakers and fuse panels. Some accessory circuit breakers and fuses described in this section provide protection for optional equipment that may not be installed on your boat.

Main Circuit Breakers

DC Power is distributed to the fuse panels, helm digital switch modules, electronics and other main circuits through heavy duty circuit breakers located on the fuse and breaker panel and house battery switch panel in the battery compartment below the mezzanine seats or in the aft systems compartment. These main circuits are deactivated when the house battery switch is off. The breakers are supplied power whenever the House battery switch is on.

Heavy duty breakers are equipped with a red, blue or yellow "push to test" button and a black or yellow reset lever. If the circuit breaker is tripped by an overload, the yellow or black lever near the center of the breaker will be visible and pointing downward. Reset the breaker by rotating the lever until it resets and locks in the "ON" position. The circuit breaker can be tested for proper operation by pressing the test button.

Notice:

If a main circuit breaker trips, always make sure the problem that caused the breaker to trip is found and corrected before resetting the breaker.



Main Circuit Breakers, DCM Module & Accessory Fuse Panel

The following are the main circuits supplied and protected by heavy duty circuit breakers:

Main

Protects the circuit that supplies 12 volt current to the digital switching modules, accessory switch panels and most DC accessories. This circuit is deactivated when the House battery switch is off.

Seakeeper (Optional)

Protects the circuit that supplies 12 volt current to the SeaKeeper main circuit. This circuit is deactivated when the House battery switch is off.

Amp (1,2)

Protects the circuits that supply 12 volt current to the stereo amplifiers. This circuit is deactivated when the House battery switch is off.

DCM 1,2,3,4

Protects the circuits that supply 12 volt current to the digital switch control modules. These circuits are deactivated when the House battery switch is off.

Sunroof (Optional)

Protects the circuit that supplies 12 volt current to the sunroof actuator main circuit. This circuit is deactivated when the House battery switch is off.

Electrical System

Hardtop

Protects the circuit that supplies 12 volt current to the hardtop accessory circuits. This circuit is deactivated when the House battery switch is off.

Windlass

Protects the circuit that supplies 12 volt current to the windlass main circuit. This circuit is deactivated when the House battery switch is off.

DC Air Conditioner (Optional)

Protects the circuit that supplies 12 volt current to the DC air conditioning unit and seawater pump. This circuit is deactivated when the House battery switch is off.

Continuous Power Fuse Panel

These fuses protect circuits that are always active and not turned off by the battery switches. The continuous power circuits are always supplied current when the house batteries are connected.

The fuses in this panel provides continuous power and protects the circuits for the following accessories:

Port Batt

Protects the circuit for the switch that controls the remote battery switch for the port engine 12 volt electrical system.

Spare

Reserved for additional 12 volt equipment.

STBD Batt

Protects the circuit for the switch that controls the remote battery switch for the starboard engine 12 volt electrical system.

EMER Parall

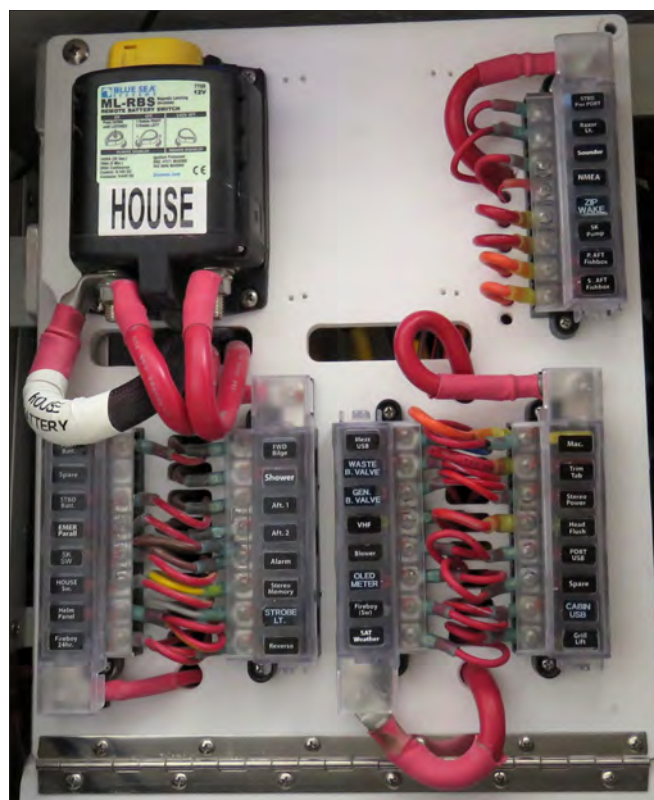
Protects the circuit for the solenoids that connect the engine starting batteries in parallel for emergency starts.

SK Batt

Protects the circuit for the switch that controls the remote battery switch for the SeaKeeper 12 volt electrical system.

House Sw.

Protects the circuit for the switch that controls the remote battery switch for the House 12 volt electrical system.



Continuous Power & Accessory Fuse Panels
& House Battery Switch

Helm Panel

Protects the circuit for select switches in the helm switch panel.

Fireboy 24 Hr

Protects the circuit for the automatic fire extinguishing system when an option generator is installed.

FWD Bilge

Protects the circuit for the automatic switch that activates the forward bilge pump located in the bilge below the head compartment sole. A light in the Fwd Bilge Pump switch will be lit whenever the pump is activated.

Shower

Circuit for the automatic switch that activates the head compartment drain sump pump located below the head compartment sole.

Aft 1

Protects the circuit for the automatic switch that activates the aft bilge pump located in the aft bilge. A light in the Aft 1 Bilge Pump switch will be lit whenever the pump is activated.

Electrical System

Aft 2

Protects the circuit for the automatic switch that activates the emergency aft bilge pump located in the aft bilge behind the aft bilge pump. A light in the Aft 2 Bilge Pump switch will be lit whenever the pump is activated.

Alarm

Protects the circuit for the automatic switch in the forward bilge that activates the high water alarm. The high water alarm will sound to alert the operator of unusually high water in the bilge.

Stereo Memory

Protects the circuit that supplies continuous 12 volt electrical current to the memory circuit in the stereo

Strobe

Protects the circuit that provides power to the optional Strobe Module which strobes the hardtop-mounted light bar in the event of a high-water condition in the aft bilge.

Reverso

Protects the circuit for the switch that controls the optional engine automatic flushing system.

Notice:

The continuous power circuit fuses are always supplied current when the batteries are connected. These circuits are not deactivated when the battery switches are off.



Electronics And Accessory Fuse Panel
Behind Aft Head Compartment Bulkhead



Yamaha Secondary Charge Lead Circuit Breakers
& DCM In Aft Systems Compartment



CAUTION



PROPER FUSE OR BREAKER PROTECTION MUST BE PROVIDED FOR ALL 12 VOLT EQUIPMENT ADDED. DO NOT OVERLOAD THE ACCESSORY CIRCUIT BREAKERS, FUSE PANELS OR OTHER CIRCUITRY THROUGH ADDITIONAL 12 VOLT EQUIPMENT.

Electronics and Accessory Fuse Panels

The accessory fuse panels located on the fuse and breaker panels in the battery compartment below the mezzanine seats, behind the helm and the aft cabin bulkhead are supplied power by the DC Main breakers. Fuses in the panels protect the individual circuits for electronics or other accessories mounted in your boat. The circuits are labeled for the electronics or accessories they protect. The circuits in these panels are deactivated when the House battery switch is off.

The fuse panels behind the helm are accessed through a hinged access hatch on the aft head compartment bulkhead, a removable countertop at the rear of the main cabin and behind the cabin electrical panel.

Yamaha Secondary Charge Lead Circuit Breakers

The secondary charge lead breakers in the aft systems compartment provide secondary charging from the engines to the house battery. These breakers protect the secondary charge systems from an overload.

Notice:

Circuit protection for other engines, controls, and steering systems may be different. Refer to the engine owner's manual for information on circuit protection and amperage requirements for the engines and control systems on your boat.

6.10 DC Power Management

Your boat is typically equipped with a full array of electronics, fuel injected engines, stereo amplifier, spreader lights and could be equipped with a SeaKeeper, DC air conditioning system or other accessories that consume a significant amount of DC electrical power. All outboard engine charging systems are designed to provide maximum electrical output at or above cruising RPM. The electrical output from the charging system is considerably less at idle or trolling speeds.

Depending on the optional equipment and electronics installed on your boat, there may be times when the charging systems on your engines will not be able to meet the DC electrical power demand if too many accessories are activated while the boat is operating at idle or trolling speeds. Consequently, POWER MANAGEMENT PRACTICES may need to be observed at slow speeds, particularly if your boat is equipped with a full electronics package, DC air conditioning and a SeaKeeper. The house battery system is designed to provide several hours of reserve capacity, which is adequate for most situations. However, you should be aware of the load each of your DC accessories draw and make sure you don't overload the capacity of the charging system for extended periods while operating the boat below cruising speed.

Always monitor the volt meters while operating at slow speeds and turn off unnecessary equipment that draw high amperage loads if the volt meters indicate that the voltage in the batteries is below 12 volts. If necessary, reduce the electrical load by turning off or alternating the use of high draw DC accessories such as the SeaKeeper, DC air conditioning, radar units, stereo, spreader lights, etc.

If the house battery system that powers the electronics and accessories on your boat becomes critically discharged while underway at low speeds or trolling, make sure that you turn off all unnecessary DC equipment and run the boat engines at an RPM that will provide a reading of the at least 13 volts on the volt meters to recharge the house batteries. Proper DC power management will prevent low voltage that can cause critical navigation equipment to become erratic or shutdown unexpectedly. Additionally, sound power management practices increase the life of your batteries and engine charging systems. You should contact your dealer if you have any questions regarding DC power management or the DC electrical system on your boat.

Electrical System

6.11 120 Volt AC Electrical System Overview

The AC electrical system is supplied 120 volt, 60 cycle current by 30 amp shore power inlets at dockside or by the optional generator. It is wired totally separate from the 12 volt DC system and is equipped with an onboard isolation system.

There are one or two 30 amp inlet plugs, depending on the options selected, mounted on the port transom. One inlet (Shore 1) for the 120 volt AC system and one inlet (Shore 2) for the optional cabin and cockpit air conditioning systems.

Notice:

If the generator or optional cockpit and cabin air conditioning options are not selected, there will only be one inlet plug and shore power cable.

Main circuit breakers that protect each circuit from the shore inlets to the cabin AC panel and Equipment Leakage Circuit Interrupters (ELCI) are located in panels on the port rear side of the cockpit.

Equipment Leakage Circuit Interrupters provide whole-boat ground fault protection (electrical shock protection from stray current) for the entire AC shore power system. They also protect the system from reverse polarity problems due to an improperly wired shore power supply.

The AC system can be fed by either the shore power inlets or the optional generator. A SHORE/OFF/GENERATOR selector switch in the cabin electrical panel is used to select the source of power desired. All AC accessory circuit breakers should be switched to the OFF position before selecting a different power source.

AC current is distributed to the 120 volt accessories through individual circuit breakers located in the cabin electrical panel. The inlet main breakers protect the system from an overload. All AC outlets in the cabin and cockpit are protected by ground fault interrupters to protect against electrical shock.

While moored dockside, 120 volt AC power should be utilized from dockside power, if available. Cord sets are provided to supply power from the shore power outlets to the boat's 120 volt AC and HVAC systems.



120 Volt Inlet Plugs



Typical Elci Panels & Inlet Breakers
For Two Shore Power Inlet Plugs

**DANGER**

TO REDUCE THE RISK OF ELECTRICAL SHOCK IN WET WEATHER, AVOID MAKING CONTACT WITH THE SHORE CABLES OR MAKING A CONNECTION TO A LIVE SHORE OUTLET. NEVER SPRAY WATER ON ELECTRICAL CABLES WHILE WASHING DOWN DECKS.

TO REDUCE THE POSSIBILITY OF AN ELECTRICAL SHOCK, IT IS IMPORTANT THAT THE AC GROUND SYSTEM IS FUNCTIONING PROPERLY AND THAT A PROPER CONNECTION EXISTS BETWEEN THE SHORE POWER CORDS, THE SHORE POWER INLETS, THE BOAT BONDING SYSTEM AND THE OUTLET GROUND CIRCUITS. IF THERE IS ANY DOUBT ABOUT THE INTEGRITY OF THE GROUND CIRCUIT, A QUALIFIED MARINE ELECTRICIAN SHOULD BE CONTACTED IMMEDIATELY AND AC POWER SHOULD BE DISCONNECTED UNTIL THE NECESSARY REPAIRS ARE COMPLETED.

Recommended procedure for making a shore connection:

Turn the AC shore inlet Main breakers and the SHORE/OFF/GENERATOR selector switch in the cabin electrical panel to the OFF position. If the dockside outlets include a disconnect circuit breaker, turn them off as well.

To avoid strain on the cables, make sure they have more slack than the mooring lines. Dress the cables so they cannot be damaged by chafing between the boat and the dock. Make sure the cables don't come in contact with the water and connect them to the boat inlet plugs and then the dockside outlets, making sure the connection plugs include a three-prong plug with a ground wire. Press the cords firmly into the boat inlet plugs until the side locks on the cord snap to the inlet plug. Close the cover on the cord to engage the cover lock. Secure lock rings on the shore connector plugs.

Turn the dockside disconnect circuit breakers to the ON position. Then turn the circuit breakers for the boat inlet connections on and check for proper polarity. If reversed polarity has been achieved, the red "FAULT" light on the ELCI panel and REVERSE POLARITY light in the cabin AC electrical panel will light and the main inlet breaker will automatically trip. If this should happen, make sure the inlet main breakers and SHORE/OFF/GENERATOR selector switch in the cabin panel are in the OFF position, then turn the dock power breaker off. If the green "POWER" light on the ELCI panel illuminates and



Typical ELCI Panel & Inlet Breaker



Cabin Electrical Panel Reverse Polarity Lights

neither main inlet breaker trips when power is supplied to the panel, polarity is correct and the SHORE/OFF/GENERATOR selector switch on the cabin panel can be moved to the "SHORE" position.

Electrical System

After activating the system, check the ELCI panels at the inlet main breakers for faults. The green "POWER" LED should show steady illumination and the red "FAULT" LED should remain off. The ELCI trips and opens the main circuit when there is a ground fault condition. If the red "FAULT" LED is continuously illuminated, the ELCI has tripped due to a ground fault condition. Some faults are self-clearing. Try resetting the ELCI once. If the green LED shows steady illumination and the ELCI does not trip again, the circuit is correct and activated.

If the ELCI continues to trip and the red "FAULT" LED is lit after being reset, there is a problem with the AC electrical system and it is unsafe to use. Make sure the inlet connection main breakers and the SHORE/OFF/GENERATOR selector switch on the cabin panel are in the "OFF" position and turn the dock power breakers off. Disconnect the shore power supply cords from the boat and notify a qualified marine electrician to check the wiring and correct the problem.

**DANGER**

REVERSED POLARITY AND GROUND FAULT CONDITIONS WILL DAMAGE THE SYSTEM AND EXPOSE PASSENGERS TO ELECTROCUTION HAZARDS THAT WILL CAUSE SEVERE INJURY OR DEATH. THIS CONDITION COULD ALSO CAUSE A FIRE IN THE ELECTRICAL SYSTEM. NEVER OPERATE THE AC ELECTRICAL SYSTEM WITH REVERSED POLARITY OR A GROUND FAULT CONDITION.

**WARNING**

ELECTRIC SHOCK CAN CAUSE SEVERE INJURY OR EVEN DEATH. DO NOT ATTEMPT TO CORRECT THE WIRING YOURSELF. ALWAYS HAVE A QUALIFIED ELECTRICIAN CHECK WIRING.

KEEP CHILDREN AWAY FROM ANY ELECTRICAL CABLES OR EQUIPMENT AND ALWAYS USE GROUNDED APPLIANCES ONBOARD YOUR BOAT.

UNDETECTED FAULTS IN THE AC ELECTRICAL SYSTEM COULD CAUSE THE WATER AROUND THE BOAT TO BECOME ENERGIZED. THIS COULD CAUSE A SEVERE SHOCK OR EVEN DEATH TO SOMEONE IN THE WATER NEAR THE BOAT. NEVER SWIM OR ALLOW SWIMMING AROUND THE BOAT WHEN THE AC SYSTEM IS ACTIVATED BY THE SHORE POWER CONNECTION OR THE GENERATOR.

Disconnecting procedure for shore power connection:

Turn the AC panel accessory breakers and SHORE/OFF/GENERATOR selector switch to the OFF position. Turn the main inlet breakers off, then turn off the breakers on the dockside outlets.

Disconnect the cables from the dockside outlets and replace the outlet caps. Disconnect the cables from the boat and close the inlet caps. Store cables.

Equipment Leakage Circuit Interrupter (ELCI)

The ELCI provides whole-boat ground fault protection (electrical shock protection from stray current) for the entire AC shore power system. The ELCI face plates are equipped with TEST and RESET buttons. There are also two LED lights that indicate circuit status. When the 120 volt AC system is activated, the green "POWER" LED should show steady illumination and the red "FAULT" LED should remain off.

The ELCI trips and opens the main circuit when there is a ground fault condition. If the red "FAULT" LED is continuously illuminated, the ELCI has tripped due to a ground fault condition. Some faults are self correcting. If it trips, try resetting the ELCI once. If the green LED shows steady illumination and the ELCI does not trip again, the circuit is OK. If the ELCI continues to trip and the red LED is lit after being reset there is a problem with the AC electrical system and it is unsafe to use. Make sure all main breakers are turned off and notify a qualified marine electrician to check the wiring and correct the problem.

It is important that each ELCI is working properly to provide protection against electric shock. They should be tested at least once each month to ensure proper operation by pressing the TEST/RESET buttons in the face plate. Refer to the ELCI instructions for the testing procedure.



6.12 Cabin 120 volt AC Electrical Panel

The AC electrical panel is located in a cabinet on the rear cabin bulkhead. The following is a description of the panel equipment and the breakers that protect the accessories:

AC Multimeter

The multifunction meter monitors the voltage, current load or frequency when the boat is connected to AC power. Buttons below the meter allow you to select display options.

The voltage should be checked each time the AC system is activated. The AC system and accessories

can be damaged by voltage that is below 105 volts or above 125 volts. You should monitor the voltage and never operate your AC electrical system if the voltage is below or above this range.

The amp or current load should be monitored particularly when operating the air conditioners and water heater. You should always be aware of the electrical load needed to activate accessories and manage the amperage being supplied so the load can be kept within safe limits. Avoid excessive current load that can overload the circuits or the generator. If you have any questions about managing the power in your boat, contact your authorized Everglades dealer.

Electrical System

The frequency should be monitored when the generator is operating. In the United States, AC accessories are designed to operate on a frequency of 60 cycles per second. The generator should be able to maintain this frequency within + or - 3 cycles. Do not operate the AC electrical system if the frequency is not in the proper range.

Refer to the meter owner's manual for more information on the features and operation of the AC Multimeter.

SHORE/OFF/GENERATOR Selector Switch

The shore AC system includes one or two power cords and inlet connectors, depending on the options selected. One cord that supplies Shore main breaker 1 is standard. The other cord is optional and supplies Shore main breaker 2. This switch is used to select the main power source, either shore power or generator.

A power surge can occur when changing or activating the AC power source. The resulting power surge that occurs may cause the inlet main breakers or generator main breaker to trip. To avoid this surge, always turn all AC panel accessory breakers to the OFF position before changing or activating the power source.

When connected to dockside power, turn the switch to the SHORE position to energize the panel. When using the optional generator, turn the switch to the GENERATOR position to energize the panel. Turn the switch to the OFF position when shore power or the generator are not being used.

The shore inlet breakers in the cockpit protect the primary 120 volt circuits when SHORE is selected. A main circuit breaker on the generator protects primary 120 volt circuits when GENERATOR is selected.

Care must be taken when operating the AC system from the generator or shore power supply lines. In some situations, it may be possible to overload the generator or shore power circuits if too many AC accessory breakers are activated. Too much amperage being supplied through the panel will cause the inlet main breakers or generator main breaker to trip and could damage the system. This is particularly important when operating the air conditioners and water heater.

You should always be aware of the electrical load needed to activate accessories and manage the



SHORE/OFF/GENERATOR Switch & Multimeter



Inlet Main Circuit Breaker

amperage being supplied so the load can be kept within safe limits. If you have any questions about managing the power in your boat, contact your authorized Everglades dealer.

Reversed Polarity Lights

The red lights indicate reverse polarity current supplied to the panel for each circuit. This situation will cause the red light to remain lit. If reverse polarity is achieved, immediately turn off all cabin AC breakers, the power selector switch and dockside outlet breakers. Disconnect the power cables from the dockside outlets and notify a qualified marine electrician to check the dockside wiring.

Battery Charger

Supplies electrical current to the automatic battery charger mounted in the battery compartment, near the house batteries. The charger automatically charges and maintains the engine and house batteries simultaneously when activated. It is equipped with led lights to indicate the state of charge for each battery.

The charge to the house and engine batteries can be monitored on the touchscreen displays at the helm or the LED lights on the charger. The charge to the engine batteries can also be monitored by using the volt meters in the engine gauge cluster. To monitor the engine batteries with the volt meters in the engine gauge cluster, activate the charger and turn the engine battery switches on. Turn on the ignition for each engine (DO NOT START THE ENGINES) and read the voltage on the volt meter for each engine.

If the batteries are in good condition and charging properly, the volt meters will indicate between 13 and 14.5 volts. If the reading is below 12.5 volts, then the battery is not accepting a charge or the charger is not working properly. Always turn the ignition for both engines off immediately after monitoring is complete when using the voltmeters in the engine gauge cluster.

The wires that supply DC charging current to the batteries are protected by an internal fuse in the battery charger and external fuses, one for each battery output wire, located near or on each battery. The external fuses protect the DC charging circuit from the batteries to the charger. The internal fuses in the charger protect the DC charging circuit from the charger to the batteries. See the battery charger manual for more information.



Typical Battery Charger

Electrical System

Water Heater (Optional)

Supplies electrical current directly to the water heater circuit. A thermostat in the water heater control panel automatically controls the water temperature. Before operation, you must have water in the water heater. (See the water heater manual for details)

Microwave (Optional)

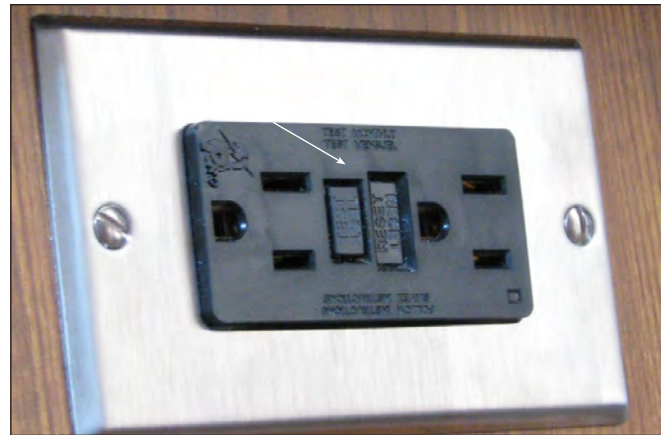
Supplies 120 volt AC electrical current to the Ground Fault Interrupter (GFI) outlet for the microwave.

Outlets

Supplies 120 volt AC electrical current to the cabin Ground Fault Interrupter (GFI) outlets.

Notice:

All AC electrical outlets are provided with ground fault interrupts to protect against electric shock. These outlets should be tested periodically to ensure proper operation by pressing the test/reset buttons in the center of the faceplate. GFI outlets do not protect against short circuits and overloads. This is done by the Outlets breaker on the AC panel.



Typical GFI Outlet Test & Reset Buttons

	WARNING	
GFI OUTLETS DO NOT PROVIDE 100% PROTECTION FROM ELECTRIC SHOCK. EVEN THOUGH GROUND FAULT INTERRUPTERS PROVIDE PROTECTION BY REDUCING EXPOSURE TIME FROM LINE TO GROUND SHOCK HAZARDS, IT IS STILL POSSIBLE TO RECEIVE AN ELECTRIC SHOCK FROM DEFECTIVE APPLIANCES OR POWER TOOLS AND MISUSED ELECTRICAL EQUIPMENT.		

TV (Optional)

Supplies 120 volt AC electrical current to the TV and satellite antenna.

HVAC Pump (Optional)

Supplies electrical current to the seawater pump in the aft systems compartment that circulates seawater through the air conditioning units. The pump runs whenever an air conditioning unit is operating.

HVAC Unit Cabin (Optional)

Supplies electrical current to the air conditioner compressor and control panel located in the cabin.

HVAC Unit Cockpit (Optional)

Supplies electrical current to the cockpit air conditioner compressor and control panel.

Notice:

After a certain amount of time without water flow, the air conditioning unit will automatically power down. If this occurs, reset the unit and check for water flow out of the air conditioning thru-hull. Refer to the air conditioner owner's manual for more information.

Refrigerator (Optional)

Supplies 120 volt electrical current directly to the refrigerator when AC power is available and chosen over the 12 volt power supply. Refer to the refrigerator manual for more information.

Grill (Optional)

Supplies 120 volt AC electrical current to the electric grill in the cockpit.

Blower Switch

Activates the blower that provides ventilation for the aft systems compartment while starting and operating the optional generator. Press the switch once to activate the blower. Press the switch again to turn the blower off.

Electrical System

6.13 Generator (Optional)

The generator is supplied 12 volt power for the ignition and starter motor by the House battery bank and is located in the aft systems compartment. The generator oil and coolant should be checked whenever you check the oil in the main engines.

Switches in the generator control panels located in the cabin electrical panel control the starting, running and stopping of the generator. Indicator lights and an LED display in the panels monitor engine temperature, exhaust temperature and oil pressure.

Another switch in the cabin electrical panel activates the aft systems compartment blower. The blower should be activated whenever the generator is operating to help cool the compartment.

The generator can also be operated from an override control panel on the generator. The circuit breakers and fuses that protect the generator AC and DC circuits are also on this panel. An owner operator's manual for the generator has been supplied with this manual. Please refer to it for details on generator operation and circuit protection.

The generator engine uses a closed cooling system with a seawater-cooled heat exchanger. A sacrificial anode in the seawater cooling system protects generator components that are in contact with seawater. There is coolant recovery tank for the engine coolant mounted on the stringer near the generator. Make sure the fluid level in the coolant recovery tank is kept between the maximum and minimum lines of the tank. **You should also check the exhaust port for water flow each time the generator is started.** If there is no discharge within thirty seconds, shut down the generator, then find and correct the problem.

The seawater cooling system includes a strainer that prevents debris in the seawater from entering the cooling pump. The strainer and a thru-hull valve is located in the aft systems compartment bilge near the generator. It is important to check and clean the strainer regularly to ensure the seawater system can circulate enough water to provide cooling for the closed cooling and exhaust systems on the generator. You should also make sure the generator thru-hull valve is open and check the exhaust port for water flow each time the generator is started. If there is no discharge within thirty seconds, shut down the generator and find and correct the problem.



Generator



Generator Control Panel



Generator Sea Strainer, Fuel Filter & Electrically Activated Thru-Hull Valves

Electrical System

Your boat could be equipped with optional electrically activated thru-hull valves on the generator seawater supply and exhaust thru-hull fittings. These valves open automatically when the generator is started and close when it is shutdown.

Refer to the Raw Water Systems Maintenance section in the Raw Water System Chapter of this manual for instructions on cleaning the generator sea strainer and the operation of the electrically activated thru-hull valves.

Notice

The generator may not be able to operate all 120 volt accessories at the same time. POWER MANAGEMENT PRACTICES may need to be observed depending on the AC power load.

Notice:

Generators consume DC electrical current and charge the House batteries just enough to compensate for the DC electrical current the engine requires to operate. Therefore, it is important to activate the battery charger to maintain the House and Engine batteries whenever the generator is running.

The generator diesel fuel system is different than the fuel system for the main engines. Refer to the Fuel System chapter for more information on generator fuel system.

You also should read the generator owner's manual for detailed information on the safe operation and maintenance of the generator.



Transom Anode



Typical Bonding Wires & Connections

**DANGER**

GENERATOR ENGINES PRODUCE CARBON MONOXIDE WHICH IS A LETHAL, TOXIC GAS THAT IS COLORLESS AND ODORLESS. IT IS A DANGEROUS GAS THAT WILL CAUSE DEATH IN CERTAIN LEVELS. ONLY OPERATE THE GENERATOR IN WELL VENTILATED AREAS AND NEVER OPERATE THE GENERATOR WHILE YOU ARE SLEEPING.

6.14 Starlink System & Inverter (Optional)

The optional Starlink system provides high speed internet and Wi-Fi connectivity on board the vessel via the global Starlink satellite network. The system is subscription-based and requires a user account and active subscription to function. Please contact Starlink or your Everglades dealer for more information.

The Starlink system is comprised of an antenna (mounted on the hardtop), a power supply, a 12VDC to 120VAC inverter, a wireless router, and a Roku Streaming module. The power supply and inverter are mounted in the compartment behind the aft cabin bulkhead. The router is located in the cabinet on the aft wall of the cabin area. The Roku module provides access to streaming services on the TV in the cabin (if equipped.)

The inverter is a pure sinewave inverter that draws power from the 12 volt DC house battery bank and inverts the power to 120 volt AC required by the Starlink power supply and router. The inverter is used exclusively for the Starlink system.

Inverters draw a substantial amount of current from the house batteries. It takes approximately 20 amps 12 volt DC current to provide 2 amps 120 volt AC current. Therefore, you should monitor House battery voltage frequently when shore or generator AC power is not available to maintain the house batteries with the battery charger while the inverter is activated.

The inverter is equipped with a battery saving feature that automatically shuts the inverter down when the house battery bank reaches a preset voltage. This prevents the inverter from discharging the entire power of the house batteries allowing other DC accessories to continue to operate normally and preventing excessive drain on the batteries. Refer to the inverter operation manual for additional information on the features and operation on the inverter.

6.15 Bonding System & Galvanic Isolator

Your boat is equipped with a bonding system that interconnects all underwater metal hardware and thru-hull fittings to ensure that they are of the same electrical potential. Anodes are attached to the bonding system at the transom and the engines. There is also an anode in the seawater cooling system for the generator. Anodes deteriorate before the other metals, thereby protecting underwater metals from galvanic corrosion or stray electrical current. Since the anodes are sacrificial, it is important to monitor them and replace them when they have deteriorated to 50 - 75% of their original size.

The bonding system is connected to the DC ground and the earth ground wire for the AC electrical system. It provides a path for dangerous short circuits in the AC electrical system to the safety earth ground in the event of a fault in the shore earth ground connection and when the boat is away from the dock.

When the boat is connected to shore power at a marina or city dock, all boats connected to shore power are connected to a common shore safety earth ground connection. This circuit provides essential protection against electrical shock from faults or short circuits in AC electrical equipment and, unfortunately, provides a path for low voltage galvanic current to flow between the bonding system of other boats in the circuit. If one or more of the boats in the circuit has a stray current electrical problem or is not equipped with proper galvanic protection, it will seek protection from your boat's bonding system through the safety ground circuit. This could cause accelerated deterioration of the anodes and/or severe damage to the underwater hardware. To prevent damage from other boats in the circuit, a galvanic isolator is installed in the shore ground circuit that isolates your boat's bonding system from the other boats. It prevents the flow of low voltage galvanic current while still providing

a path for dangerous short circuit currents in the AC system to the shore safety ground.

6.16 Electrical System Maintenance

12 volt AC Electrical System Maintenance

At least once a year, spray all exposed electrical components behind the helm, in the transom area and in the plugs with a protector. Removable light fixture lenses should be removed and wiped clean with a damp cloth and reinstalled. Some LED light fixtures are sealed and not serviceable.

**CAUTION**

WHEN REPLACING LIGHT BULBS IN MARINE LIGHT FIXTURES, ALWAYS USE A BULB WITH THE SAME RATING AS THE ORIGINAL. USING A DIFFERENT BULB COULD CAUSE THE FIXTURE TO OVERHEAT AND MELT OR SHORT CIRCUIT.

Inspect all wiring for proper support, sound insulation and tight terminals, paying particular attention to portable equipment power cords and plugs.

Check all below deck wiring to be sure it is properly supported, that the insulation is sound, and that there are no loose or corroded terminals. Corroded terminals should be thoroughly cleaned with sandpaper or replaced, tightened securely and sprayed with a metal and electrical protector. Inspect all engine wiring.

Notice:

AGM batteries are sealed and do not require or allow the inspection of the electrolyte.

Keep the battery tops clean and dry. Dirt and water can conduct electricity from one post to the other causing the battery to discharge.

Battery posts should be kept free of corrosion. Remove the cables and clean the posts and cable clamps with a battery post cleaner or sandpaper as required. Coating the battery posts and cable clamps with petroleum jelly or dielectric silicone grease will protect them and reduce corrosion.

Battery cables, both hot and ground, must be replaced when they show signs of corrosion or fraying. Deteriorated cables cause a considerable voltage loss when high currents are drawn, as for starting the engines.



DANGER



NEVER USE WET CELL BATTERIES. WET CELL BATTERIES EMIT DANGEROUS HYDROGEN GAS WHILE BEING CHARGED. HYDROGEN GAS CAN EXPLODE IF A FLAME OR SPARK IGNITES THE GAS, WHICH WILL RESULT IN SEVERE INJURY OR DEATH.

THE BATTERY COMPARTMENT IS NOT DESIGNED TO VENTILATE DANGEROUS HYDROGEN GAS TO THE ATMOSPHERE WHICH COULD ALLOW THE GAS TO ACCUMULATE TO DANGEROUS LEVELS. ABSORBED GLASS MAT (AGM) BATTERIES DO NOT EMIT HYDROGEN GAS AS THEY RECHARGE. USE ONLY ABSORBED GLASS MAT (AGM) BATTERIES IN THIS BOAT.

AC Electrical System Maintenance

Periodically inspect all wiring for nicks, chafing, brittleness, improper support, etc. Examine the shore power cords closely for cracks in the insulation and corrosion in electrical connectors. Spraying receptacles and electrical connections with an electrical contact cleaner or a metal and electrical protector will reduce corrosion and improve electrical continuity.

Inspect all wiring for proper support, sound insulation and tight terminals, paying particular attention to portable appliance cords and plugs. The entire AC circuitry, especially the shore power cords, should be seasonally tested for proper continuity by an experienced electrician. This will detect any shorts, open wires or ground faults.

Ground fault interrupt outlets and ELCI should be tested monthly to ensure proper operation by pressing the test/reset buttons. The reverse polarity system should also be inspected and tested periodically for proper operation.

Generator Maintenance

The engine maintenance required on the generator is similar in many ways to the main engines. The most important factors to the generator's longevity are proper ventilation and maintenance of the fuel system, ignition system, cooling system, lubrication system and the AC alternator.

Maintenance schedules and procedures are outlined in your generator owner's manual. They should be followed exactly.



WARNING



CORROSION ALLOWED TO BUILD ON THE ELECTRICAL CONNECTORS CAN CAUSE A POOR CONNECTION RESULTING IN SHORTS, GROUND FAULTS OR POOR GROUND CONNECTIONS. ELECTRICAL CONNECTORS SHOULD BE CHECKED AT LEAST ANNUALLY AND CLEANED AS REQUIRED. DO NOT ALLOW CORROSION TO BUILD ON CONNECTIONS.

ELECTRIC SHOCK CAN CAUSE SEVERE INJURY OR EVEN DEATH. THE AC AND DC ELECTRICAL SYSTEMS ALWAYS SHOULD BE DISCONNECTED FROM THE POWER SOURCE BEFORE INSPECTING OR SERVICING THE SYSTEM. NEVER SERVICE ANY COMPONENT OF AN ELECTRICAL SYSTEM WHILE IT IS ENERGIZED.

6.17 AC Line Load Estimator

Depending on the AC power load your boat requires and the power available from the shore supply or the generator, you may not be able to operate all 120 volt AC accessories at one time. POWER MANAGEMENT PRACTICES may need to be observed particularly when supplying power from the generator. You should be aware of the load each accessory draws and make sure you don't overload the circuit.

The table in this section will assist you in documenting the load AC accessories on your boat

require and managing the electrical load on each circuit. An owner's manual for each AC accessory installed on your boat at the factory has been included with your boat. Additionally, you should make sure you have the manuals for accessories installed by your dealer or that you bring aboard. The specification section of the owner's manual will provide the wattage or amperage the accessory requires. Enter the load requirements in the table provided and use the information as a quick reference tool to calculate the electrical load. If only watts are given in the specifications, divide the watts by the voltage to determine the amps.

Appliances	Start-up Watts/Amps	Running Watts/Amps	Calculated Amps
Air Conditioner - 1			
Air Conditioner - 2			
Battery Charger - 1			
Battery Charger - 2			
SeaKeeper			
Refrigerator - Cabin			
Refrigerator - Cockpit			
Ice Maker			
Freezer Plate			
Fishbox Freezer			
Electric Grill			
Water Heater			
Microwave			
Stove - Per Element			
Hair Dryer			
Curling Iron			
Coffee Maker			
Toaster			
Iron			
Blender			
Crock Pot			
Fry Pan			
Electric Blanket			
Fan			
Computer			
Space Heater			
Stereo			
Television			
		TOTAL AMPS	

NOTES

FRESHWATER SYSTEM

7.1 General

The fresh water system consists of a potable water tank, distribution lines and a distribution pump. The pump is equipped with an automatic pressure switch and is located near the tank in the forward bilge below the removable aft cabin countertop.



CAUTION



DO NOT FILL SYSTEM WITH ANYTHING OTHER THAN WATER. SHOULD THE SYSTEM BECOME CONTAMINATED WITH FUEL OR OTHER TOXIC FLUIDS, COMPONENT REPLACEMENT MAY BE NECESSARY.



WARNING



DO NOT CONFUSE FUEL FILL DECK PLATES WITH THE WATER OR WASTE FILL DECK PLATES. THESE PLATES ALSO ARE LABELED ACCORDINGLY. IF GASOLINE OR DIESEL FUEL IS ACCIDENTALLY PUMPED INTO THE WATER OR WASTE TANK, DO NOT ATTEMPT TO PUMP IT OUT YOURSELF. WATER AND WASTE PUMPS ARE NOT DESIGNED TO PUMP FUEL AND A FIRE OR EXPLOSION COULD RESULT. CONTACT YOUR DEALER OR THE EVERGLADES CUSTOMER SERVICE DEPARTMENT FOR ASSISTANCE IN HAVING THE FUEL PROFESSIONALLY REMOVED AND COMPONENTS OF THE FRESH WATER SYSTEM REPLACED AS NECESSARY.



Freshwater Pump



Aft Cockpit Shower

7.2 Fresh Water System Operation

Fill the water supply tank slowly through the labeled deck plate located on the forward gunnel. After filling the water tank, partially open all faucets. The Fresh Water Pump switch should be on. Allow the pump to run until all of the air is purged from the system and a steady stream of water is flowing from each outlet. Next, turn off the faucets one by one. As water pressure builds, the pump will automatically shut off.

When properly primed and activated, the system will operate much like the water system in a home. An automatic pressure sensor keeps the system pressurized. If the system has been recently filled or has not been used for an extended period, air bubbles may accumulate at the pump and the system may have to be primed.

Whenever the boat is left unattended, the Fresh Water Pump switch should be off.



CAUTION



DO NOT ALLOW THE FRESH WATER PUMP TO RUN DRY. THE FRESH WATER PUMP WORKS ON DEMAND AND WILL NOT SHUT OFF AUTOMATICALLY WHEN THE TANK IS EMPTY. THIS CAN RESULT IN DAMAGE TO THE PUMP. ALWAYS TURN THE FRESH WATER SWITCH OFF WHEN THE FRESH WATER SYSTEM IS NOT IN USE.

Aft Cockpit Shower

To use the aft cockpit shower, make sure the Fresh Water switch is on, then open the shower compartment cover and pull the shower head out. Activate the valve on the shower head handle to turn the water on. To conserve water, use the valve to turn the water on and off as you shower.

Fresh Water System

Head Sink and Shower

There is a freshwater sink and shower located in the head compartment. The faucet has hot and cold water or cold water only, depending on the options selected, and a retractable shower head with an on/off valve.

To use the shower, make sure the Fresh Water pump switch is on. Then pull the shower head out of the faucet and adjust the hot and cold water faucet until the desired temperature is obtained. There is a bracket on the forward head compartment wall to hold the shower head while showering, if desired.

Some minor variations in the water temperature may occur as the pressure pump cycles. To conserve water, use the valve on the shower head to turn the water on and off as you shower.

Shower and sink water is drained overboard by the cabin drain sump pump. The pump is controlled by an automatic switch in the sump that is activated whenever the house batteries are connected. After showering, let the cold water flow for a period of time to flush the drainage system of soap residue.

The cabin drain and shower sump system is located in the forward bilge, below the cabin sole. It is essential that the drain pump strainer is cleaned regularly to remove accumulated debris that will clog the shower drain system.

Mezzanine Sink

The sink in the mezzanine is supplied by the fresh water system. The faucet has cold water only and folds down to allow the cutting board covers to be placed above the sink. To use the sink, remove the cutting boards and rotate the faucet outlet up. Make sure the Fresh Water switch is on. Open the freshwater faucet to supply fresh water to the sink.

Washdown Hose Connector

A fresh water washdown hose connection is located on the starboard aft side of the cockpit. The hose connection fitting has an automatic valve that is always closed until the washdown hose is connected. The hose requires a special fitting that snaps into the connector and activates the automatic valve. The cover on the connector should always be closed to keep the connector clean when the hose is not attached.



Head Compartment Sink & Shower



Mezzanine Sink



Freshwater Washdown Connection

Fresh Water System

To connect the washdown hose, make sure the Fresh Water switch is off. Then open the cover and insert the hose connector into the fitting. Press firmly to open the valve and secure the hose connector in the fitting. Make sure the washdown hose spray nozzle is off, then activate the fresh water system.

Contact your dealer for information on replacement fittings and hoses.

7.3 Water Heater (Optional)

Boats equipped with the optional electrical convenience package will be equipped with a water heater located in the forward bilge compartment below the removable aft cabin countertop. The 120 volt AC element that heats the water is thermostatically controlled at the heater and activated by a circuit breaker located in the cabin electrical panel. A high pressure relief valve protects the system from excessive pressure. To avoid damage to the water heater, always make sure all air is purged from the water heater and lines before activating the water heater breaker. Refer to the water heater owner's manual for additional information.



Water Heater

**CAUTION**

DO NOT SUPPLY CURRENT TO AN EMPTY WATER HEATER. DAMAGE TO THE HEATER WILL RESULT. THE SYSTEM MUST BE FILLED AND PRIMED BEFORE USING THE WATER HEATER.



Fresh Water Pump & Strainer

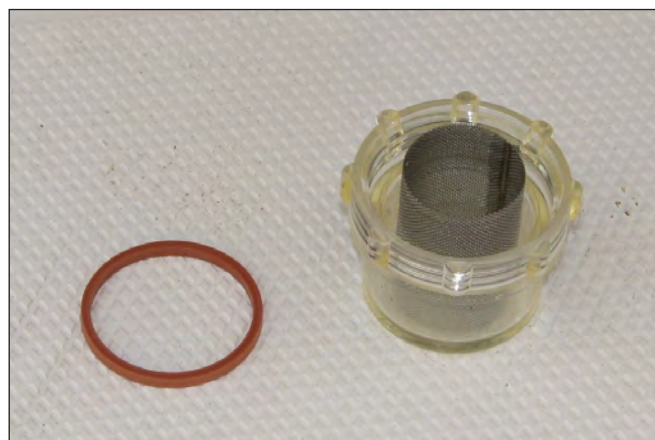
7.4 Fresh Water System Maintenance

Information supplied with water system components by the equipment manufacturers is included with this manual. Refer to this information for additional operation and service data.

Routine Maintenance

The following items should be done routinely to maintain your fresh water system:

- Periodically remove and clean the water strainer located near the intake side of the fresh water pump. To clean the strainer, make sure the Fresh Water Pump switch is off. Rotate the strainer bowl counterclockwise to release it. Remove and clean the screen with fresh water. Lubricate the O-ring lightly with Teflon or silicone grease and reinstall the strainer bowl.



Typical Fresh Water Pump Strainer Removed for Cleaning

Fresh Water System

- Remove the filter screens from faucet spouts and eliminate any accumulation of debris. A build up of debris can cause the pump to cycle excessively.
- Periodically remove the lid on the cabin drain and shower sump and clean the water strainer for the sump pump and the sump.
- Periodically spray the fresh water pump and metal components with a metal protectant.
- The batteries must be properly maintained and charged. Operating the pressure pump from a battery with a low charge could lead to pump failure.
- Add a commercially available potable water conditioner to the water tank to keep it fresh.

Notice:

The fresh water system must be properly winterized prior to winter lay-up. Refer to the section on winterizing for more information.



CAUTION



THE FRESH WATER PUMP SWITCH SHOULD BE PLACED IN THE OFF POSITION WHENEVER LEAVING THE BOAT UNATTENDED OR WHEN THE FRESH WATER SYSTEM IS NOT IN USE.

Sanitizing the Fresh Water Tank

The fresh water system should be sanitized if it has not been used for a long period or you are unsure of the quality of the water in the system.

The following steps can be used to sanitize the system:

- Activate the system, open all faucets and pump out as much water as you can.
- Make a chlorine solution by mixing two ounces of household chlorine bleach in a gallon of water. This mixture will treat approximately fifteen gallons. If the water tank on your boat is larger or smaller than 15 gallons, then adjust the mixture accordingly. Always mix the chlorine with water in a separate container first and never add straight chlorine to the fresh water tank.
- Fill the water tank half full with fresh water and pour the mixture into the water tank. Top off the tank.
- Activate the system and allow the water to run for about one minute at each faucet. Let the treated water stand for 4-6 hours.
- Drain the system by pumping it dry and flush with several tank fills of fresh water.
- The system should now be sanitized and can be filled with fresh water. If the chlorine smell is still strong, it should be flushed several more times with fresh water.

Notice:

The quality of the water in marine freshwater systems can be questionable. We recommend that you avoid using the water from the freshwater system for drinking and cooking. You should only use bottled water for these purposes.

RAW WATER SYSTEM

8.1 General

In the raw or seawater systems, the seawater pumps are mounted to seacocks on thru-hull fittings located in the aft systems compartment bilge. The raw water washdown pressure pump is connected directly to a seacock or to an auxiliary supply fitting at the base of the livewell pump, if your boat is equipped with the optional livewell. The optional generator and other cooling pumps are connected to separate seacocks near the pumps. Always make sure all valves are open before attempting to operate any component of the raw water system.

Your boat could be equipped with optional electrically activated thru-hull valves on the generator seawater supply and exhaust thru-hull fittings. These valves open automatically when the generator is started and close when it is shutdown. There could also be an electrically activated thru-hull valve on the waste tank overboard discharge thru-hull fitting that opens automatically when the overboard discharge pump is activated and closes when the pump is turned off.

Priming the System

Make sure the ball valves are open and the Raw Water Pump switch is on. Run the pressure pump by turning on the raw water washdown hose until all of the air is purged from the system and then turn the hose off.

If your boat is equipped with the optional livewell, turn the Livewell Pump switch on and run the pump until all of the air is purged from the system. Then turn the pump off. If your boat is equipped with optional air conditioning and/or a SeaKeeper, repeat this process for the seawater cooling pumps for that equipment.

The intakes for the seawater pumps are equipped with a scoop and ball valve. If a pump runs but will not prime make sure the valve is open. If the pump still won't prime, it may be air locked. Make sure the valve is open and run the boat at or above 15 M.P.H. The water pressure from the scoop will force the trapped air through the pump and allow it to prime. If this procedure doesn't work, contact your Everglades dealer.



Raw Water Pump & Optional Livewell Pump

Closing the thru-hull valves before the boat is hauled from the water will help to eliminate air locks in raw water systems. The valves should also be closed whenever you leave the boat in the water unattended.

Notice:

It may be necessary to prime the raw water system if it is not used for an extended period and at the time of launching.

Raw Water System

8.2 Raw Water System Operation

A high pressure pump, controlled by a pressure sensor, is activated by the Raw Water switch. When activated, the pressure switch will automatically control the pump that supplies the raw water hose connectors.

As the pressure builds in the system, the pump will shut off. When the system is in use and the pressure drops, the pump will turn on. The water pump is equipped with a strainer on the intake side of the pump. The strainer should be checked frequently and cleaned as necessary.

Whenever the boat is left unattended, the Raw Water switch should be turned off.

Raw Water Washdown

A raw water washdown hose connection is located on the starboard aft side of the cockpit. The hose connection fitting has an automatic valve that is always closed until the washdown hose is connected. The hose requires a special fitting that snaps into the connector and activates the automatic valve. The cover on the connector should always be closed to keep the connector clean when the hose is not attached.

To connect the washdown hose, make sure the Raw Water switch is off. Then open the cover and insert the hose connector into the fitting. Press firmly to open the valve and secure the hose connector in the fitting. Make sure the washdown hose spray nozzle is off, then activate the raw water system.

Contact your dealer for information on replacement fittings and hoses.

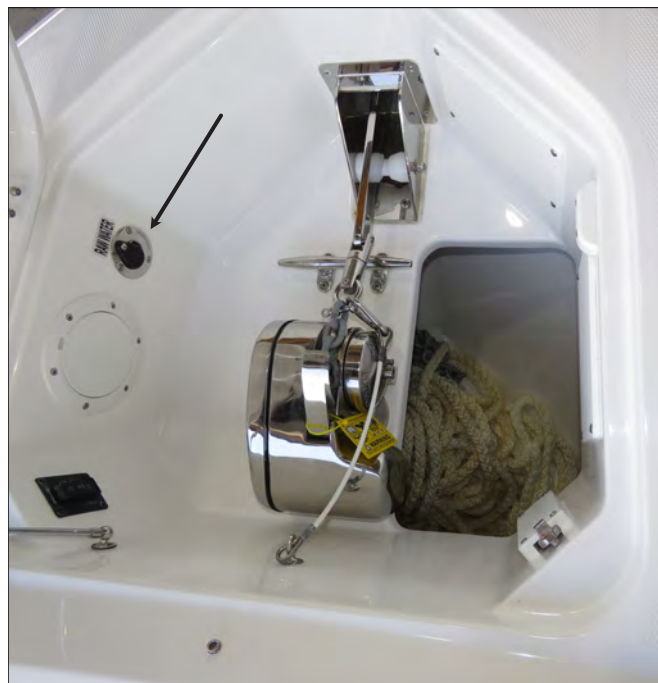
Windlass Compartment Washdown

There is a raw water hose connection in the windlass compartment at the bow. The connector has an automatic valve that is always closed until the washdown hose is connected. The hose requires a special fitting that snaps into the connector and activates the automatic valve. The cover on the connector should always be closed to keep the connector clean when the washdown hose is not attached. Contact your dealer for information on replacement fittings and hoses.

Make sure the Raw Water switch is on before using the washdown hose and that the washdown hose



Cockpit Raw Water Washdown Connection



Windlass Compartment
Raw Water Washdown Hose Connection

spray nozzles are off when the water system is activated.

**CAUTION**

DO NOT ALLOW THE WATER PUMP TO RUN DRY. THE PUMP WORKS ON DEMAND AND WILL NOT SHUT OFF AUTOMATICALLY IF NO WATER IS AVAILABLE. THIS CAN RESULT IN DAMAGE TO THE PUMP. ALWAYS TURN THE RAW WATER SWITCH OFF WHEN THE RAW WATER SYSTEM IS NOT IN USE.

Raw Water System

8.3 Aft Livewell (Optional)

Seawater is provided to the optional livewell by a 12 volt circulation pump. The pump is designed to carry a constant flow of water to the well. The pump does not have a pressure sensor and is activated by the Livewell Pump switch in the touchscreen display. There is also a light in the well that is activated by the Livewell Pump switch.

An overflow built into the drain system automatically controls the water level. Always turn the pump off when the well is not in use.

To fill the livewell, insert the plug into the drain fitting at the bottom of the well. Make sure the ball valve on the thru-hull fitting and the supply valve in the well are open. Then activate the pump. When the water level reaches the overflow, it will begin to circulate.

The intake thru-hull fitting is equipped with a scoop that will supply water to the livewell if the pump should fail and helps prime the system during normal operation. To supply water to the well using the scoop in the thru-hull fitting, make sure the ball valve on the thru-hull fitting is open and run the boat at a speed above 15 miles per hour. Water will circulate through the well and out the overflow.

To drain the well, turn off the pump and remove the plug in the drain fitting. When the well has completely drained, use the washdown hose to flush the well and drain of debris.

The ball valve at the pump thru-hull fittings should be closed whenever the well is not in use. This will prevent water from entering the well while the boat is cruising.

Notice:

Do not use the livewell as a dry storage area when they are not in use. Seawater could accidentally be delivered to the well from the thru-hull fitting and damage equipment stored there.



CAUTION



A RUPTURED RAW WATER INTAKE OR PRESSURE LINE COULD CAUSE THE BOAT TO TAKE ON WATER. ALWAYS TURN THE RAW WATER SYSTEMS OFF AND CLOSE THE THRU-VALVES WHEN LEAVING THE BOAT UNATTENDED.



Aft Livewell



Optional Livewell Pump, Auxiliary Supply Fitting & Thru-Hull Valve

Raw Water System

8.4 Air Conditioning Pump

The optional air conditioning units are self-contained and seawater cooled. A 120 volt AC or 12 volt DC centrifugal pump, depending on the options selected, supplies seawater that cools the condensing units as it circulates through the system and is discharged overboard.

The air conditioning seawater pump is located in the aft systems compartment. It must be activated by the HVAC Pump circuit breaker in the cabin electrical panel whenever an air conditioner is running.

Seawater is supplied to the pump by a ball valve and hose connected to thru-hull fitting. A sea strainer between the pump and ball valve protects the system from contaminants that could damage the pump or the air conditioning system. Make sure the pump receives adequate seawater by periodically cleaning the sea strainer basket. Refer to Raw Water System Maintenance in this chapter for information on cleaning the sea strainer.

You should refer to the air conditioner owner's manuals for more information on the operation and maintenance of the seawater pump.



Air Conditioner Cooling Pump & Sea Strainer

8.5 SeaKeeper Cooling Pump

The optional SeaKeeper boat stabilizer is self-contained and seawater cooled. A 12 volt DC pump supplies seawater that cools specific components in the gyroscope system. The pump is located in the aft systems compartment. It is protected and supplied current by a circuit breaker in the battery switch panel. The pump is activated automatically whenever the SeaKeeper system is running.

Seawater is supplied to the pump by a ball valve and hose connected to thru-hull fitting. A sea strainer between the pump and thru-hull fitting protects the system from contaminants that could damage the pump or the cooling system. Make sure the pump receives adequate seawater by periodically cleaning the sea strainer basket. Refer to Raw Water System Maintenance in this chapter for information on cleaning the sea strainer.

You should refer to the SeaKeeper owner's manual for more information on the operation and maintenance of the SeaKeeper cooling system and seawater cooling pump.



Typical SeaKeeper System Sea Strainer

Raw Water System

8.6 Generator Raw Water Supply

The optional generator engine uses a closed cooling system with a seawater cooled heat exchanger. Seawater circulates through the heat exchanger and is expelled through the generator exhaust system, cooling it as well. It includes a strainer that prevents debris in the seawater from entering the cooling pump. The strainer is located in the aft systems compartment bilge and supplied seawater by a dedicated thru-hull fitting and thru-hull valve near the strainer. It is important to check and clean the strainer regularly to ensure the seawater system can circulate enough water to cool the heat exchanger and exhaust system on the generator. Refer to Raw Water System Maintenance in this chapter for information on cleaning the sea strainer.

You should also read the generator owner's manual for detailed information on the safe operation and maintenance of the generator.



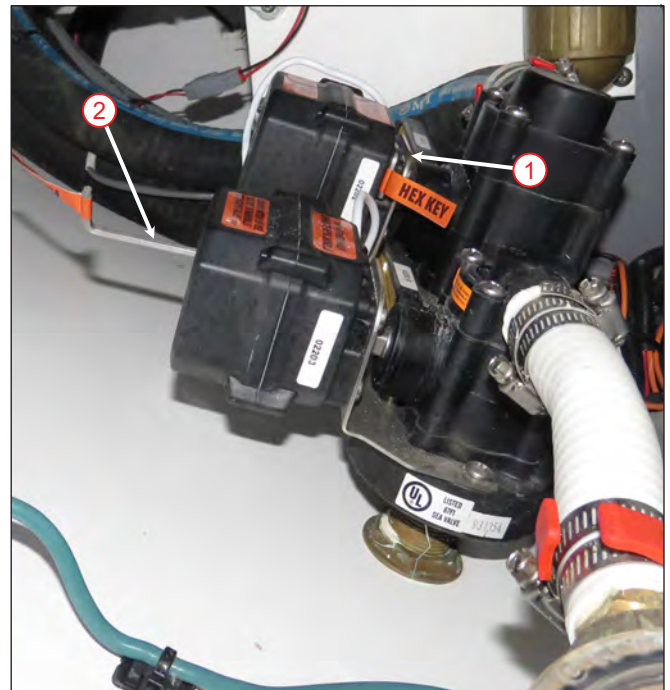
Typical Generator Raw Water Electrically Activated Thru-Hull Valve & Strainer

8.7 Electrically Controlled Thru-Hull Valves

Your boat could be equipped with optional electrically activated thru-hull valves on the generator seawater supply and exhaust thru-hull fittings. There could also be an electric valve on the waste tank overboard discharge pump thru-hull fitting. The generator valves open automatically when the generator is started and close when it is shutdown. The overboard discharge valve opens when the macerator safety key switch in the head control panel is turned to the ON position and closes when the switch is turned off.

All electric valves are equipped with a manual override that allows the valve to be opened or closed if the electric actuator in the valve fails. To activate the valve manually, remove the hex key stored on the side of the valve actuator. Insert the key into the female hex key head in the face of the actuator and rotate it clockwise or counterclockwise to open or close the valve.

Always remember to remove the hex key and return it to the storage receiver on the side of the actuator when manual operation is complete. If the key is left in the hex key head, it can fall out and be lost in the bilge.



Electrically Activated Thru-Hull Valve
1. Key In Storage Receiver 2. Key In Valve Hex Key Head

Raw Water System

8.8 Raw Water System Maintenance

The following items should be done routinely to help maintain your raw water system:

Routine Maintenance

- Check hoses, particularly the seawater supply lines, for signs of deterioration. Tighten fittings and clamps or replace deteriorated hoses and components as necessary.
- Periodically remove and clean the water strainer located near the intake side of the washdown pump. Make sure the Raw Water switch is off and close the valve for the seacock. Rotate the strainer bowl counterclockwise to release it. Remove and clean the screen with fresh water. Lubricate the O-ring lightly with silicon or Teflon grease and reinstall the strainer bowl.
- Spray pumps and thru-hull valves with a protective oil periodically.
- The fishboxes and baitwell should be drained and cleaned after each use.
- Operate all valves at least once a month to keep them operating properly.



CAUTION



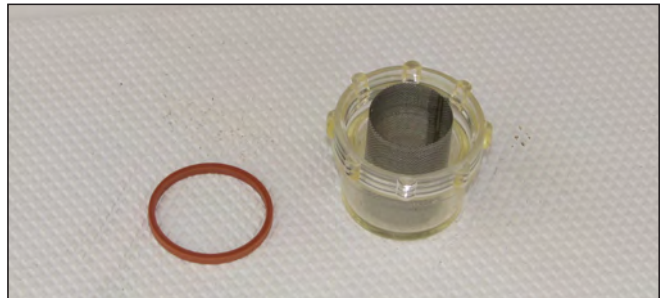
SHOULD A HOSE RUPTURE, TURN THE PUMP OFF IMMEDIATELY. ALWAYS CLOSE THE THRU-HULL VALVE WHEN PERFORMING MAINTENANCE ON A SEAWATER PUMP.

THE BATTERIES MUST BE PROPERLY CHARGED. OPERATING ANY PUMPS FROM A BATTERY WITH A LOW CHARGE MAY LEAD TO A PUMP FAILURE.

THE RAW WATER SYSTEM MUST BE PROPERLY WINTERIZED PRIOR TO WINTER LAY-UP. SEE SECTION ON WINTERIZING.



Raw Water Pump Strainer



Typical Raw Water Pump Strainer Removed For Cleaning



Generator Sea Strainer Cap

Cleaning the Generator Sea Strainer

Periodically clean the generator sea strainer using the following procedure.

- Turn off the generator.
- Close the generator intake water thru-hull valve.
- Rotate the strainer cap counterclockwise to release it. Remove the cap and pull the screen out.
- Thoroughly flush the screen and the inside of the strainer to remove foreign matter.



Typical Strainer Screen

Raw Water System

- Lubricate the seal with silicon or Teflon grease and reassemble the strainer, making sure that the strainer cap is tightened hand tight.
- Open the thru-hull valve and check for leaks.
- Start the generator and inspect the strainer for leaks and proper water flow at the exhaust port. If there is no discharge within thirty seconds, shut down the generator and find and correct the problem.

Cleaning the SeaKeeper Pump Strainer

Periodically clean the SeaKeeper pump sea strainer using the following procedure.

- Turn off the SeaKeeper and deactivate the SeaKeeper circuit breaker on the battery switch panel.
- Close the intake valve at the SeaKeeper thru-hull fitting.
- Turn the strainer bowl counterclockwise to remove it and remove the screen.
- Thoroughly flush the screen and the inside of the strainer bowl to remove foreign matter.
- Lubricate the seal.
- Reassemble the strainer making sure that the bowl is tight.
- Open the intake valve, activate the SeaKeeper and check for leaks and proper water flow.

Cleaning the Air Conditioner Pump Strainer

Periodically clean the air conditioner pump sea strainer using the following procedure.

- Turn off the air conditioners and deactivate the HVAC unit and HVAC PUMP circuit breakers on the cabin electrical panel.
- Close the intake valve at the HVAC pump thru-hull valve.
- Rotate the strainer cap counterclockwise to release it. Remove the cap and pull the screen out.
- Thoroughly flush the screen and the inside of the strainer bowl to remove foreign matter.
- Lubricate the seal with silicon or Teflon grease and reassemble the strainer, making sure that the strainer cap is tightened hand tight.



Typical SeaKeeper Pump Sea Strainer



Air Conditioner Pump Strainer & Thru-Hull Valve

- Open the thru-hull valve and check for leaks.
- Activate the air conditioners and monitor the flow of water out of the air conditioner thru-hull fitting in the hull side. If no water is flowing after 30 seconds, shutdown the air conditioner and find and correct the problem.

NOTES

DRAINAGE SYSTEMS

9.1 General

Most water is drained by gravity to overboard thru-hull fittings located in the hull above the water line. It is important to check the drain system frequently to ensure it is free flowing and that the hoses on the thru-hull fittings are secure and not leaking.

9.2 Cockpit & Deck Drainage

Cockpit Scupper Drains

Your Everglades has two scupper drains located in the rear of the cockpit. Stainless steel strainers prevent large debris from clogging the drains. Check valves in each scupper drain thru-hull fitting reduce the surge of seawater through the scuppers and into the cockpit while maneuvering or in rough water.

Water is channeled away from all hatches by a gutter or drain rail system. The water then drains overboard through the scupper drain system.

Aft Systems Compartment and Fishbox Hatches

The aft systems compartment and below deck fishbox hatch drain gutters drain by gravity to the cockpit drain system.

Livewell

The livewell is drained by gravity to a thru-hull fitting in the hull. The overflow drains to the livewell drain systems.

Aft Below Deck Fishboxes

The aft fishboxes below the cockpit sole are drained overboard by a macerator pump out system. There is a pump and overboard discharge thru-hull valve for each fishbox located in the aft systems compartment. The pumps are activated by switches in the touchscreen displays.

To pump out the fishboxes, make sure the pump out thru-hull valves are open. Activate the pump and monitor the water level as the pump drains the fishbox and turn it off immediately when draining is complete. The pumps will be damaged if they are allowed to run dry for more than 30 seconds.



Cockpit Scuppers & Aft Cockpit Hatches



Hull Side Scupper Drain Thru-Hulls



Aft Below Deck Fishbox Macerator Pump

Drainage Systems



Mezzanine Sink



Mezzanine Cooler

Mezzanine Sink

The sink is drained by gravity to a thru-hull fitting and seacock in the below the waterline.

Mezzanine Cooler

Drains by gravity to the cockpit sole.

Cup Holders

All cup holders in the helm and cockpit areas drain by gravity to the cockpit sole.

Forward Storage Compartment/Cooler

The storage compartment/cooler below the forward lounge seats is drained overboard by gravity to the cockpit sole. A drain plug is used to control drainage when the compartment is used as a cooler and to prevent seawater from entering the compartment when it is used for dry storage.



Bow Storage Compartment/Cooler

Cockpit Storage Compartments

The storage compartments on each side of the cockpit drain by gravity to the bilge.

Rope Locker

The rope locker drains overboard thru a drain in the bottom of the locker and a thru-hull fitting in the hull side near the bow. It is important to inspect the drain frequently to remove any accumulated debris.

Cockpit Air Conditioner

The air conditioning condensation pan is drained by a hose attached to the pan that drains the water to the cabin drain sump system.



Rope Locker Drain Fitting

Drainage Systems

9.3 Hardtop

There is a hole drilled in the leg bases on the frame to prevent water from being trapped within the legs. Additional drain holes are drilled in the tubing to drain other areas as required.

Always make sure the leg drain holes are clear when the boat is laid up for the winter. Water trapped inside the legs could freeze and cause the legs to split.

Sunroof (Optional)

There are additional drains around the sunroof that drain water by gravity to thru-hull fittings in the hull sides.



Aft Bilge Pumps & Automatic Switches

9.4 Bilge Drainage

Bilge Pumps

There are three bilge pumps, forward, aft bilge 1 and aft bilge 2/emergency. The bilge pumps are activated both manually by switches in the helm station and automatically by water activated switches located next to or near the pump. The automatic switches are connected to the house battery bank. They are protected by fuses in the continuous power fuse panel and remain activated when the battery switches are in the OFF position. The manual switches are supplied current when the House battery switch is activated.

All bilge pumps pump water out of thru-hull fittings located above the waterline in the hull sides. Aft bilge 1 pump and automatic switch are located near the transom. Aft bilge 2/emergency pump and automatic switch are located just forward of aft bilge 1. The forward bilge pump and automatic switch are located in the forward bilge, below the aft cabin countertop.



Forward Bilge Pump & Automatic Switch

The manual bilge pump switches should be activated briefly each time the boat is used. This will ensure that the pumps are operating properly and increase the service life of the pumps. The automatic switches should be manually activated periodically to verify operation. This is particularly important before operating the boat offshore.

Aft bilge 2/emergency pump and automatic switch is mounted higher in the bilge than aft pump 1. Aft bilge 2/emergency pump is activated if the bilge water level rises above the normal operating range of the other bilge pumps and automatic switches.

Notice:
See Electrical Systems for additional information on bilge pump operation.

Drainage Systems

Dry Bilge Pump System

Your boat is equipped with a dry bilge system. This system consists of a pickup, pump, hull side discharge fitting and a manual switch. The switch is located on the port rim of the forward bilge access opening, below the removable aft cabin countertop. The pump is mounted on the port side of the forward bilge compartment. Press the switch to activate the pump. An LED light in the switch will light to indicate the pump has been turned on. Once activated, the pump will begin removing water from the forward bilge sump to a thru-hull fitting on the aft hull side. Monitor the bilge water level and when the water has been removed, press the button again to turn pump off.



Dry Bilge Pump Switch



CAUTION



ALWAYS MONITOR WATER LEVEL IN THE BILGE WHILE THE DRY BILGE PUMP IS OPERATING. DO NOT ALLOW THE PUMP TO RUN DRY. IT WILL NOT SHUT OFF AUTOMATICALLY IF NO WATER IS AVAILABLE, WHICH CAN RESULT IN DAMAGE TO THE PUMP. ALWAYS TURN THE DRY PUMP SWITCH OFF IMMEDIATELY WHEN THE WATER HAS BEEN REMOVED.

Bilge High Water Alarm

An additional automatic switch in the forward bilge will sound an alarm if the bilge water level rises above the normal operating range of the bilge pump automatic switches. It will also activate the strobe feature on the hardtop light bar if the boat is equipped with the heavy duty bow eye option.

The alarm switch is connected to the batteries. It remains activated when the battery switches are off and the batteries are connected.



Typical High Water Alarm Automatic Switch & Test Recesses

Transom Drain Plug

When the boat is out of the water the bilge can be drained by a garboard drain located in the transom near the bottom of the hull. The plug should be removed whenever the boat is hauled out of the water and installed just prior to launching. It is important to check the drain plug regularly to make sure it is tight.



CAUTION



A LOOSE DRAIN PLUG WILL ALLOW SEAWATER TO ENTER THE BILGE AND COULD CAUSE THE BOAT TO TAKE ON ENOUGH WATER TO DAMAGE EQUIPMENT OR ENDANGER THE CREW. IT IS VERY IMPORTANT TO CHECK THE DRAIN PLUG FREQUENTLY TO ENSURE IT IS PROPERLY TIGHTENED.



Transom Garboard Drain Plug

Drainage Systems

Important:

Any oil spilled in the bilge must be thoroughly removed and properly disposed of before operating the bilge pump. The discharge of oil from the bilge is illegal and subject to a fine.

⚠**CAUTION**⚠

THE FEDERAL WATER POLLUTION CONTROL ACT PROHIBITS THE DISCHARGE OF OIL OR OILY WASTE INTO OR UPON THE NAVIGABLE WATERS OF THE UNITED STATES OR THE WATERS OF THE CONTIGUOUS ZONE IF SUCH DISCHARGE CAUSES A FILM OR SHEEN UPON OR A DISCOLORATION OF THE SURFACE OF THE WATER OR CAUSES A SLUDGE OR EMULSION BENEATH THE SURFACE OF THE WATER. VIOLATORS ARE SUBJECT TO A PENALTY OF \$10,000.

Bilge Pump Operation and Aquatic Invasive Species (AIS) Inspections

Many western U.S. states are now conducting boat inspections for Aquatic Invasive Species like Zebra and Quagga mussels. These have been proven to damage natural aquatic habitats and cause serious issues with your boat's engine cooling system.

Several things can be done to prevent the spread of these invasive species. Keeping the interior compartments clean, drained, and dry after each use, ensuring your trailer is free of aquatic weeds, and removing your boat's garboard drain plug after each use can go a long way towards preventing damage to your boat and the waterways you enjoy. Your boat is fitted with one or more Rule bilge pumps. If you are required to go through an inspection station, your boat may be flushed with 120° Fahrenheit water to ensure any residual organisms are destroyed before launching. Your bilge pumping system can withstand this temperature for up to 130 seconds with no ill effects. Should your bilge pump and associated hoses, clamps, and thru hulls have any damage related to one of these inspections, please take your boat to the nearest Everglades dealer for repair/replacement at no cost to you.

9.5 Cabin Drainage

Shower and Cabin Drain Sump Pump

The sump system is located in the forward bilge below a hatch in the cabin sole. It is equipped with a strainer, centrifugal pump and automatic switch.



Shower & Cabin Drain Sump System

The system is activated whenever the house batteries are connected. A switch in the helm touchscreen display panel overrides the automatic switch and provides a means to manually activate the sump pump. Always make sure the House battery switch is activated before using the shower or cabin sinks.

After showering, it is important to let the cold water flow for a period of time to flush the drainage system of soap residue. Make sure to inspect the sump system regularly and keep the sump components and pump strainer clean.

Head Compartment Sink

The head compartment sink drains by gravity to the cabin drain sump pump system.

Cabin Sole

The cabin sole drains by gravity to the bilge through the bilge access hatch in the cabin sole.

Drainage Systems

Air Conditioner (Optional)

The cabin air conditioning condensation pan is drained by a hose attached to the pan that drains the water to the cabin drain sump system.

9.6 Drainage System Maintenance

It is essential that the following items be done periodically to maintain proper drainage of your boat:

- Clean the cockpit drain rails with a hose to remove debris that can block water drainage.
- Clean the hardtop leg drain holes. This is especially important just before winter lay-up.
- Clean the bilge pump strainers of debris and check the bilge for foreign material that can cause the automatic switch to malfunction.
- Frequently test the automatic bilge pump switches for proper operation. This is accomplished by using a garden hose to flood the bilge until the water level is high enough to activate the pump.
- Frequently test the high water alarm automatic switch for proper operation. This is accomplished by simultaneously holding your fingers on the two recesses on the side of the switch until the alarm is activated.
- Periodically inspect and clean the dry bilge pump pickup strainer located between the aft bilge pumps of debris that may accumulate.
- Clean and inspect the shower and cabin drain sump system. Remove accumulated debris and flush with fresh water. Frequently test the automatic pump switch for proper operation.
- Flush all gravity drains with fresh water to keep them clean and free flowing.



Air Conditioner Condensation Pan

- Flush the air conditioner condensation pans and drain hoses with fresh water at least once each season to remove mold and debris. This is particularly important because mold tends to accumulate in condensation pan drain and, if it is not cleaned regularly, the drain can clog and flood the cabin sole or cockpit when the air conditioner is operating.
- Clean and flush the fishboxes, baitwells, coolers and storage boxes with soap or a bilge cleaner and fresh water after each use to keep them clean and fresh.
- Operate all thru-hull valves at least once a month to keep them operating properly.

Notice:

All drains and pumps must be properly winterized before winter lay-up.



CAUTION



NEVER USE HARSH CHEMICAL DRAIN CLEANERS IN MARINE DRAIN SYSTEMS. PERMANENT DAMAGE TO THE HOSES AND FITTINGS MAY RESULT.

VENTILATION SYSTEM

10.1 Cabin Ventilation

Cabin Door

Ventilation to the cabin is provided by opening the cabin door and cabin window. The door is held in the open position by a spring loaded latch that automatically secures the door when it is opened. Always make sure the door is latched in the open or closed position. Completely close the door and make sure it is latched before operating the boat above idle speed.

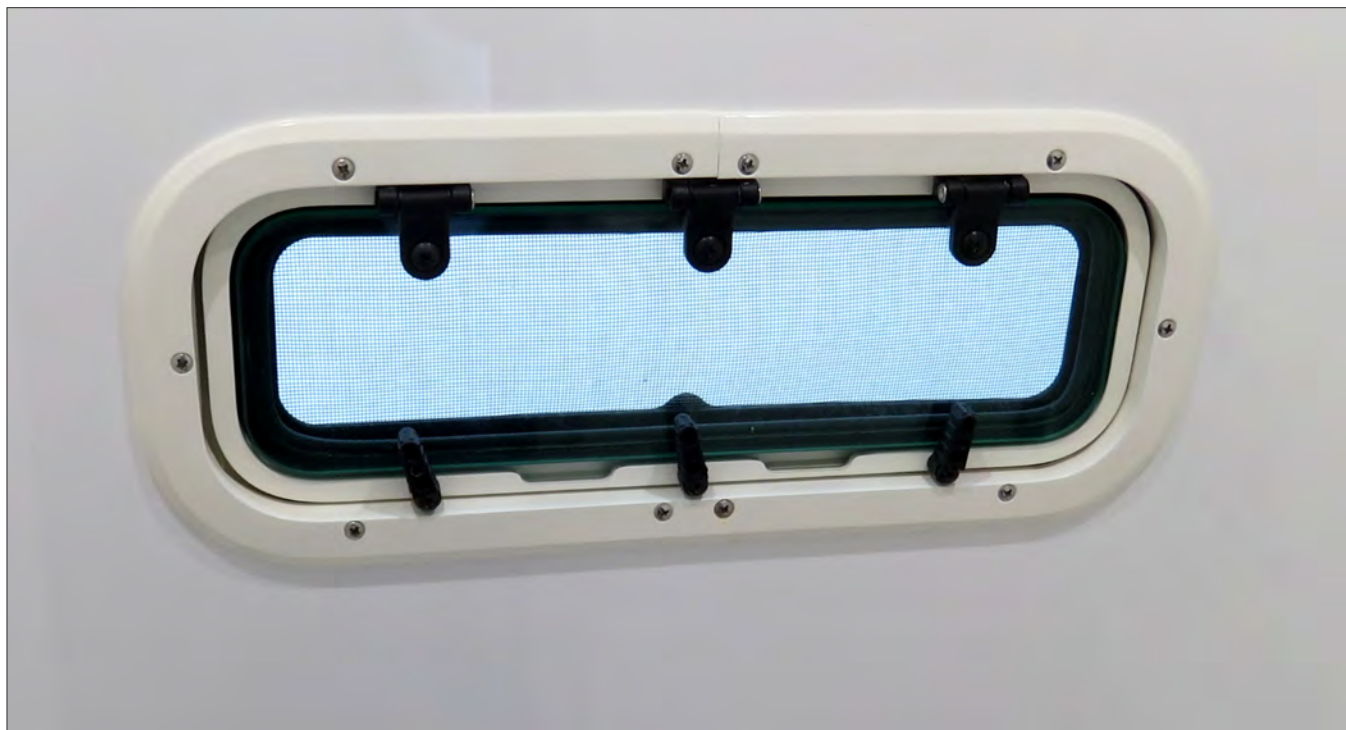
Port Window

An opening window is located on the port side of the cabin. The window is equipped with a screen and secured in the closed position by three twist action locks. The locks should be adjusted so they are tight enough to seal the window in the closed position, but not so tight that they break the plastic.

Always make sure the window is closed and secured with the cam levers whenever the boat is underway. Sea spray could enter the cabin through an open window and damage equipment or items stowed there.



Cabin Door Latched In Open Position



Head Compartment Window

Ventilation System

10.2 Windshield/Helm Ventilation

An acrylic door and opening windshield panel provides access to the bow seating area and ventilation to the helm and cockpit.

The windshield walk-through panel is opened by releasing the latches on the inside of the windshield. A magnetic stop on the side of the cockpit automatically secures the panel in the open position and a gas charged spring helps open or close the panel and prevents it from swinging freely.

To open the windshield panel, rotate the bottom latch to release it. Then hold the panel closed and release the top latch. Slowly swing the panel inboard until it is secured against the side of the cockpit with the magnetic latch. To close the windshield panel, pull on the bottom of the panel firmly until the magnetic latch releases. Then close the panel and secure it with the locks. Make sure the panel is properly secured in the open or closed position before cruising.



Windshield Panel Closed

**CAUTION**

USE CAUTION WHEN OPENING THE WINDSHIELD PANEL. THE MAGNET THAT HOLDS THE PANEL OPEN IS VERY POWERFUL AND COULD CAUSE INJURY OR DAMAGE TO VESSEL IF THE PANEL IS ALLOWED TO SLAM AGAINST THE SIDE OF THE COCKPIT.

TO AVOID INJURY, THE WINDSHIELD PANEL MUST BE SECURED IN THE OPEN OR CLOSED POSITION WHEN VESSEL IS IN MOTION. MAKE SURE TO USE BOTH LATCHES WHEN SECURING THE WINDSHIELD PANEL WHEN IT IS CLOSED.

An acrylic door secured with a flush, push to close latch provides the ability to close off the walk-through area below the opening windshield panel when desired. The door is designed to nest in a recess on the side of the cockpit when it is open. The latch secures the door in the open or closed position.

To secure the door in either position, push the door until the latch catches. Always make the walk-through door is securely latched in the open or close position before operating the boat. Periodically clean and lubricate the latches to protect them from corrosion and help keep them operating properly.



Walk-Through Door & Latch

Ventilation System

10.3 Carbon Monoxide & Proper Ventilation



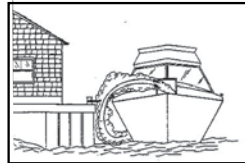
DANGER



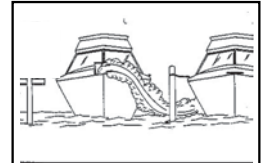
FAILURE TO PROPERLY VENTILATE THE BOAT WHILE THE ENGINES OR GENERATOR ARE RUNNING MAY PERMIT CARBON MONOXIDE TO ACCUMULATE WITHIN THE CABIN AND OPEN AREAS OF YOUR BOAT. CARBON MONOXIDE IS A COLORLESS AND ODORLESS GAS THAT IS LETHAL WHEN INHALED. CARE MUST BE TAKEN TO PROPERLY VENTILATE THE BOAT AND TO AVOID CARBON MONOXIDE FROM ACCUMULATING IN THE BOAT WHENEVER AN ENGINE IS RUNNING.

A by-product of combustion, carbon monoxide (CO) is invisible, tasteless, odorless and is produced by all engines and gas heating and cooking appliances. The most common sources of CO on boats are gasoline engines, auxiliary generators and propane or butane stoves. These produce large amounts of CO and should never be operated while sleeping. The hazard also may be created by a boat nearby whose exhaust fumes are entering your boat. Boats also have a problem due to the "station wagon effect" where engine exhaust fumes are captured in the vacuum or low pressure area, usually the cockpit, bridge deck and cabin, that can be created by the forward speed of the boat. Boats underway should close all aft facing hatches and doors. The cabin window should be open whenever possible to help ventilate the living spaces of the boat. No sleeping in the cabin should be permitted while underway. Proper ventilation should be maintained at the helm by opening the windshield panel to help pressurize the area when the enclosure is installed. Canvas drop or aft curtains must be removed to increase air flow and maintain proper ventilation whenever the engines are running. ***Under no circumstances should the engines be operating with windshield closed and an aft or drop curtain installed.*** Extreme caution must be taken while at anchor or in a slip when an auxiliary power generator is operating. Wind still nights can easily allow exhaust fumes, containing high concentrations of CO, from the generator on your boat or from an adjacent boat's generator to enter the boat. The exhaust fumes may enter your boat through open hatches or windows.

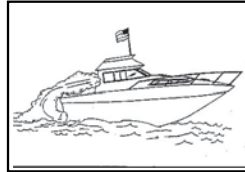
A carbon monoxide detector has been installed in the cabin as standard equipment. While a CO detector enhances your protection from CO poisoning, it does not guarantee it will not occur. Do not use the carbon monoxide detector as a replacement for ordinary precautions or periodic



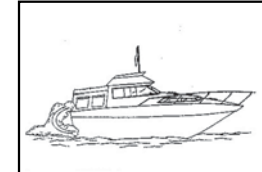
Onboard Generator Exhaust - exhaust accumulates because of bulkhead.



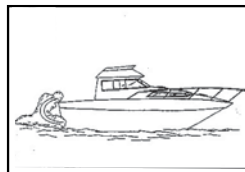
Nearby Generator Exhaust - wind carries exhaust to the other boat



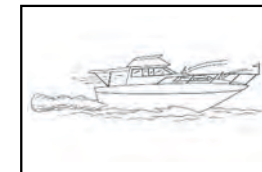
Back Drafting / Station Wagon Effect - at cruising speed with no forward ventilation



Back Drafting / Station Wagon Effect - at cruising speed with canvas closed



Slow Speed or Boat Stopped w/ engines running - CO can accumulate in cabin, cockpit & bridge



Desired Air Flow Through the Boat



Typical Carbon Monoxide Detector & Alarm

inspections of equipment. Never rely on alarm systems to save your life, common sense is still prudent and necessary. Remember, the operator of the boat carries the ultimate responsibility to

Ventilation System

make sure the boat is properly ventilated and the passengers are not exposed to dangerous levels of carbon monoxide. You should always be alert to the symptoms and early warning signs of carbon monoxide poisoning. You should also read the "Carbon Monoxide Monitoring System" in the Safety Equipment chapter of this manual and the owner's manual supplied by the CO detector manufacturer for operation instructions and additional information regarding the hazards and symptoms of carbon monoxide poisoning.



DANGER



ACTIVATION OF THE CARBON MONOXIDE DETECTOR INDICATES THE PRESENCE OF CARBON MONOXIDE (CO) WHICH CAN BE FATAL. EVACUATE THE CABIN IMMEDIATELY. DO A HEAD COUNT TO CHECK THAT ALL PERSONS ARE ACCOUNTED FOR. DO NOT REENTER THE CABIN UNTIL IT HAS BEEN AIRED OUT AND THE PROBLEM FOUND AND CORRECTED.

Periodically test the carbon monoxide alarm per the manufacturer's instructions. Refer to the carbon monoxide alarm manual or contact the manufacturer for more information on maintaining and calibrating the alarm.

10.4 Bilge & Aft Systems Compartment Ventilation

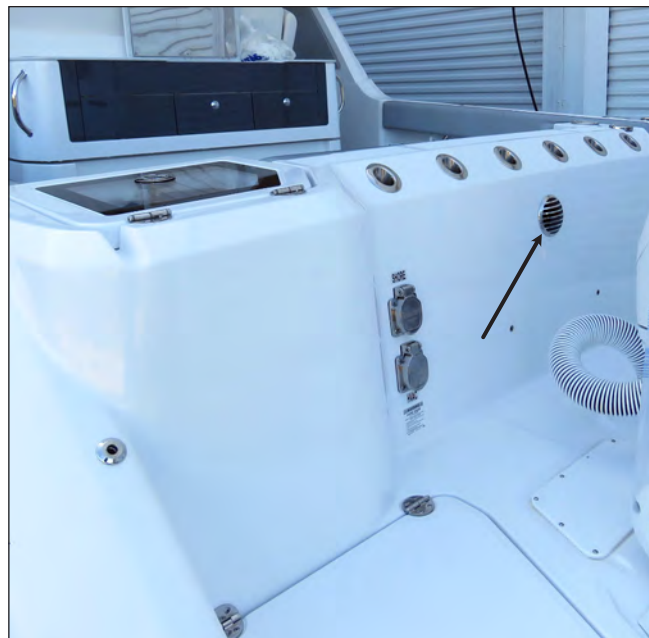
Ventilation to the bilge and aft systems compartment is provided by vents located on each side of the cockpit liner, below the gunnels and aft of the cockpit near the engines. The ventilation system consists of intake ducts, exhaust ducts and an exhaust blower. The system is designed to meet or exceed the requirements of the United States Coast Guard in effect at the time of manufacture to remove fuel vapors and excess heat from the aft systems compartment while the generator is operating. Additionally, the vents provide air circulation to reduce odors and mildew. Make sure to keep these vents clear and unobstructed.

Free Air System

A flow of air that circulates in and out of the bilge and aft systems compartment is provided by the vents located on either side of the cockpit. The pressure differential created at the vents as the wind passes over the cockpit provides adequate air movement while operating at or near cruise speeds.



Typical Free Air Vent Below Gunnels In Cockpit



Aft Systems Compartment Blower Exhaust Vent

Forced Ventilation

Boats equipped with the generator option are equipped with an electric blower connected to a rear vent near the transom that provides forced ventilation to the aft systems compartment prior to generator start up and while it is operating. If your boat is not equipped with a generator, there will not be a rear vent near the transom. The in-line blower is activated by the Blower switch in the cabin electrical panel and is located in the vent hose near the generator. Refer to the Electrical Systems chapter for more information on generator and blower operation.

Ventilation System

10.5 Maintenance

- Periodically lubricate all hinges and latch assemblies with a light oil.
- Periodically clean and coat gasket materials with silicone to help keep them pliable.
- The opening port window is made of acrylic plastic glass. Acrylic glass scratches easily. Never use a dry cloth or glass cleaning solutions on acrylic glass. Use a soft cloth and mild soap and water for routine cleaning. Solvents and products containing ammonia can permanently damage acrylic glass. Refer to the Routine Maintenance chapter for more information on the proper maintenance for acrylic plastic glass.
- Periodic inspection and cleaning of the bilge and aft systems compartment ventilation ducts is necessary to ensure adequate air circulation. A buildup of leaves, twigs or other debris can severely reduce ventilation.
- The bilge blower is permanently lubricated and requires no maintenance. Blower operation can and should be tested by placing a hand over the exhaust vent. Do not rely on the sound of the blower. A substantial amount of air should be exhausted by the blower. Frequently check the intake vents for obstructions and proper blower operation, preferably before each cruise.

Notice:

Should blower noise become excessive, the source of the noise should be found and corrected before operating the boat.



Bilge Blower Switch



WARNING



OBSTRUCTING THE VENTILATION SYSTEM WILL RESTRICT AIR IN AND OUT OF THE AFT SYSTEMS COMPARTMENT. THE AIR FLOW THROUGH THE AFT FORCED AIR VENT IS IMPORTANT FOR PROPER AIR FLOW VOLUME WHILE THE GENERATOR IS RUNNING. MAKE SURE THE AIRFLOW OUT OF THIS VENT IS NOT OBSTRUCTED.

NOTES

EXTERIOR EQUIPMENT

11.1 Deck

Rails and Deck Hardware

The rail system and hardware fittings have been selected and installed to perform specific functions. Hand rails are installed to provide a handhold in certain areas of the boat. You should make sure you keep at least one hand on the handholds as you move about the boat.

Fenders or mooring lines should be secured to the cleats or fender pins and not to rails or stanchions. The cleats on your boat are retractable and flush with the deck when not in use. To use the cleats, pull up on the center of the cleat until it locks in the mooring position.

Be sure a clear lead exists when running dock lines or anchor lines. A line inadvertently run around a stanchion or over the rail could cause damage.

Important:

All fittings must be periodically inspected for loose fit or wear and damage. Any problems should be corrected immediately.



WARNING



EVERGLADES BOATS ARE NOT EQUIPPED WITH HARDWARE DESIGNED FOR TOWING PURPOSES. THE MOORING CLEATS ARE NOT TO BE USED FOR TOWING ANOTHER VESSEL OR HAVING THIS BOAT TOWED.



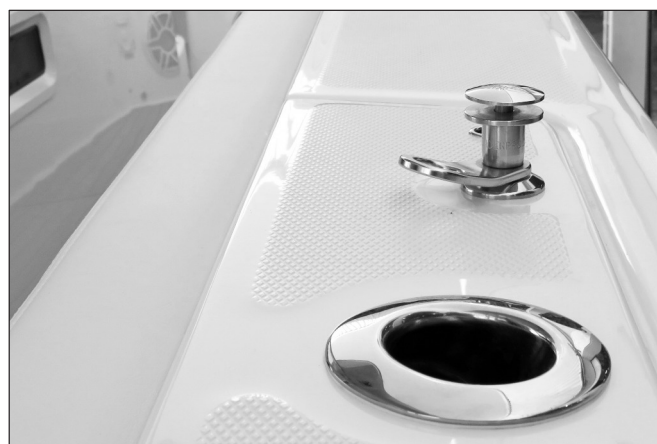
Retractable Cleat Down



Retractable Cleat Up

Fender Pins

Fenders are attached the cleats or to quick release fender pins located on the gunnels. To use the fender pins, tie a line to each fender, then tie the line to a fender pin. Insert the fender pin into the receiver on the gunnel and adjust the line length.



Quick Release Fender Pin

Exterior Equipment

11.2 Rope Locker & Windlass

Bow Roller

The bow roller is built into the hull and equipped with hardware that allows the anchor to be operated and stored at the roller. The roller assembly, windlass, anchor line and chain binder are concealed below a hatch in the deck. The anchor line is stored in the rope locker and routed out the windlass, through the roller and connected to the anchor chain. A chain binder is provided between the windlass and bow roller to secure the anchor. Always make sure the anchor is properly secured by the chain binder when it is in the stored position on the roller.

The chain binder is accessed by opening the hatch and is designed to connect to a link in the anchor chain when the anchor is hauled in. To release the binder, pull the anchor chain in slightly to relieve the tension on the binder, then release the binder from the chain. To secure the anchor in the up and stored position, raise the anchor until it seats firmly in the roller with the chain snug. Attach the chain binder to a link in the chain. Before getting underway after hauling the anchor, always make sure the binder is properly attached to the anchor chain link and the hatch is closed and latched.

Rope Locker

The anchor rope locker, windlass and windlass rocker switch are concealed in a recess below a hatch in the deck. A gas charged spring supports the hatch in the open position. A flush, twist lock latch secures the hatch in the closed position. Always make sure the hatch is closed and latched before operating the boat above idle speed.

The rope locker and anchor line is accessed through an opening next to the windlass. The anchor line is always stored in the rope locker and there is an eye fitting to secure the bitter end of the anchor line.

After the anchor is hauled in and secured with the chain binder, use the raw water washdown in the windlass compartment to rinse the anchor, chain, windlass and hardware. Make sure the Raw Water switch is on before using the washdown hose. Remember to open the hatch and rinse the windlass and all hardware with freshwater when the boat is washed at the end of each day when the anchor hardware has not been rinsed or the raw water washdown has been used to rinse the hardware when the anchor was hauled.



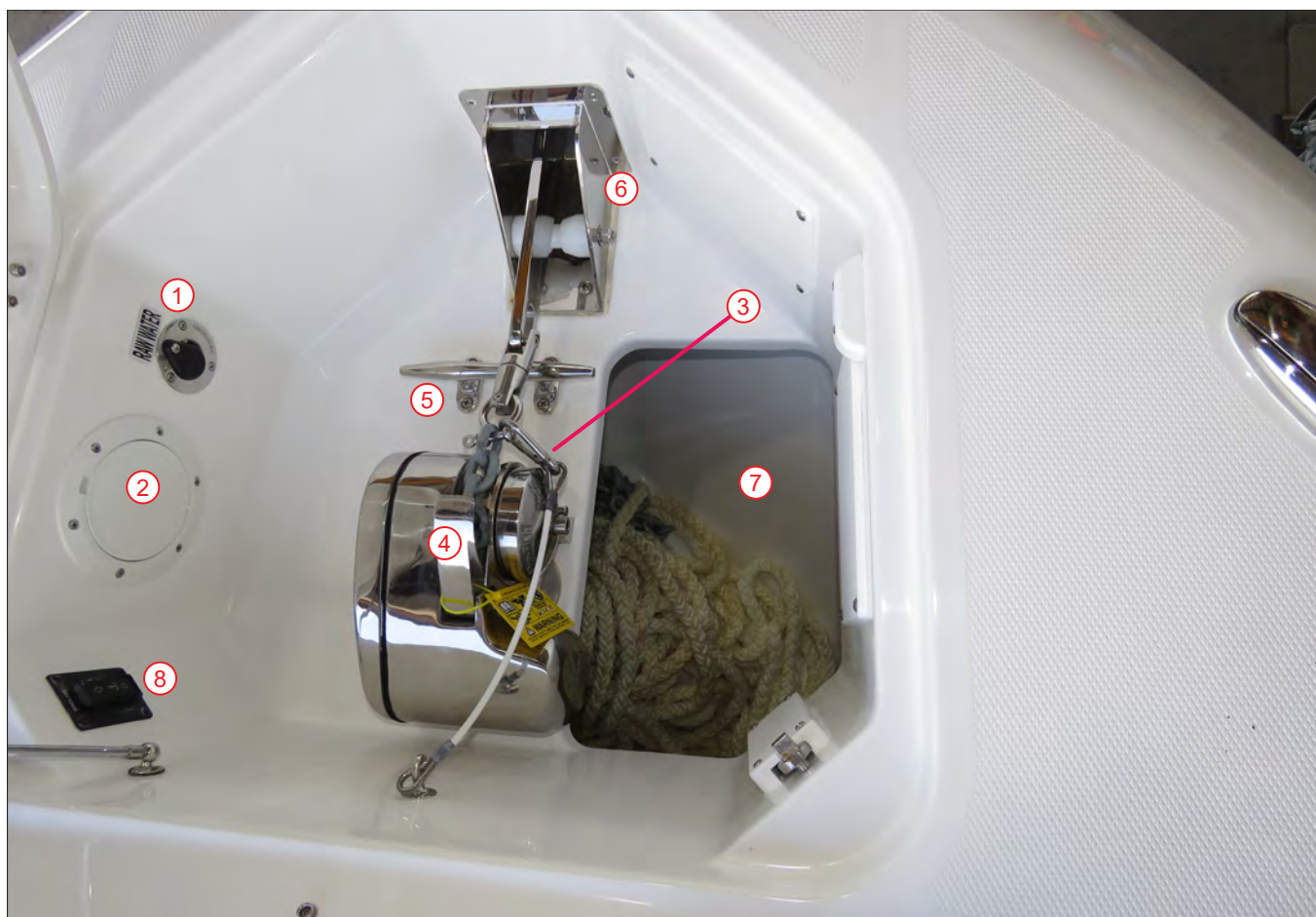
Bow Roller & Anchor

The rope locker is designed for the anchor line and not for storing anchors or additional anchor lines. Do not store anchors or any heavy objects in the locker. Anchors and weights for floating markers will bounce and damage the hull or rope locker if they are stored there. They will also interfere with the operation of the windlass. Always store and secure additional anchors and weights in a storage compartment in the cockpit as far aft as possible.

The rope locker is drained by a fitting in the hull side near the bottom of the locker. It is very important to check the drain frequently to make sure it is clean and free flowing.

Periodically remove the anchor line from the rope locker, rinse it with fresh water and allow it to dry in the sun. Cleaning the anchor line regularly will reduce odors in the rope locker and increase the life of the line.

The line should also be inspected for abrasions or signs of deterioration. Replace the line if it shows any sign of damage or deterioration. It is important to replace the anchor line with a new line of the type recommended or supplied by the windlass manufacturer.



1. Washdown Hose Connection
2. Removable Access Plate
3. Chain Binder
4. Windlass

5. Anchor Line Cleat
6. Bow Roller Assembly
7. Rope Locker
8. Windlass Switch

Windlass

The windlass is mounted in the compartment below the hatch in the deck. The anchor is stored on the roller and is raised and lowered by the windlass. The anchor line is stored in the rope locker and routed out through the windlass to the anchor chain.

The anchor is lowered by releasing the anchor chain from the chain binder and pressing the WINDLASS DOWN switch at the helm or the down arrow on the rocker switch in the windlass compartment. The windlass control switches are protected by a circuit breaker in the digital switch control module.

After the anchor is set, the windlass must not be left to take the entire force from the anchor line. Boats lying to their anchor in a high swell or heavy weather conditions will snub on the line. This can cause slippage or apply excessive loads to the

windlass. The line should be made fast to the cleat provided to relieve the load on the windlass.

The anchor is hauled in by releasing the line from the cleat and pressing the WINDLASS UP switch at the helm or the up arrow on the rocker switch in the windlass compartment. Always start the engines before hauling the anchor and motor up to the anchor as the line is retrieved to relieve the load on the windlass. Once the anchor is retrieved, independently secure the anchor to the chain binder to prevent it from being accidentally released. This is especially important while the boat is underway.

The windlass manufacturer provides an owner's manual with its product. It is extremely important that you read the manual and become familiar with the proper care and operation of the windlass. Refer to the Operation chapter for tips on anchoring your boat.



WARNING



A WINDLASS MUST BE USED WITH CARE. IT IS EXTREMELY IMPORTANT THAT YOU READ THE OWNER'S MANUAL AND BECOME FAMILIAR WITH THE SAFETY INSTRUCTIONS AND PROPER OPERATION OF THE WINDLASS BEFORE USING IT WITH YOUR BOAT. ALWAYS ENSURE THAT LIMBS, FINGERS, HAIR AND CLOTHING ARE KEPT CLEAR OF THE WINDLASS AND ANCHOR LINE DURING OPERATION.

A PARTIALLY LOWERED AND LOOSE ANCHOR CAN CAUSE CONSIDERABLE DAMAGE TO THE HULL. DO NOT USE A WINDLASS AS A SOLE MEANS OF SECURING AN ANCHOR IN THE BOW ROLLER. ALWAYS SECURE THE ANCHOR TO A CHAIN BINDER BEFORE OPERATING YOUR BOAT.



Windshield

Windshield

Your boat is equipped with heavy duty aluminum windshield with tinted glass and a windshield wiper. The port side windshield panel opens to provide ventilation and access to the bow seating area.

The windshield wiper should only be used when the windshield is wet. The windshield glass can be scratched by activating the wiper when there is dried salt or dirt on the windshield.



WARNING



VISIBILITY FROM THE SEATED POSITION MAY BE LIMITED. OPERATE THE BOAT IN THE STANDING POSITION WITH THE HELM SEATS IN THE LEANING POST POSITION AS NEEDED.

AVOID COLLISIONS OR INJURIES. MAINTAIN A LOOKOUT AS REQUIRED BY USCG NAVIGATION RULES.

The windshield walk-through panel is opened by releasing the latches on the inside of the windshield. A magnetic stop on the side of the cockpit automatically secures the panel in the open position and a gas charged spring helps open or close the panel and prevents it from swinging freely.

To open the windshield panel, rotate the bottom latch to release it. Then hold the panel closed and release the top latch. Slowly swing the panel inboard until it is secured against the side of the cockpit with the magnetic latch. To close the windshield panel, pull on the bottom of the panel firmly until the magnetic latch releases. Then close the panel and secure it with the locks. Make sure the panel is properly secured in the open or closed position before cruising.



CAUTION



USE CAUTION WHEN OPENING THE WINDSHIELD PANEL. THE MAGNET THAT HOLDS THE PANEL OPEN IS VERY POWERFUL AND COULD CAUSE INJURY OR DAMAGE TO VESSEL IF THE PANEL IS ALLOWED TO SLAM AGAINST THE SIDE OF THE COCKPIT.

TO AVOID INJURY, THE WINDSHIELD PANEL MUST BE SECURED IN THE OPEN OR CLOSED POSITION WHEN VESSEL IS IN MOTION. MAKE SURE TO USE BOTH LATCHES WHEN SECURING THE WINDSHIELD PANEL WHEN IT IS CLOSED.

If the boat is operated in saltwater, the windshield should be washed after each use with soap and water to keep it clean. Saltwater allowed to remain on the windshield frame will eventually begin to attack the aluminum and cause corrosion, usually around fasteners and hardware mounted to the windshield. Snaps or any hardware mounted to the windshield must be properly sealed and isolated with caulk or a Teflon sealer to prevent salty moisture and galvanic corrosion from damaging the frame. Poor maintenance or improperly mounted hardware and snaps can void the warranty on the windshield.

Refer to the Routine Maintenance chapter for more information on the care and maintenance of anodized aluminum.

11.3 Hull

Engine Mounting System

Your Everglades is equipped with an engine mounting system that is integrated into the hull and stringer system that is designed to distribute the stresses of engine weight and thrust throughout the entire hull.

The engine hoses and cables or transom gel coat can be damaged by tilting the engines to the full up position with the engines turned to the wrong position

Exterior Equipment

or with fishing rods in the rod holders forward of the engines. You should always remove fishing rods from the stern rod holders and monitor the engines as they tilt to determine best full tilt engine position for your boat.



CAUTION



FISHING RODS IN THE STERN ROD HOLDERS CAN HIT THE ENGINE COWLINGS WHEN THE ENGINES ARE FULLY TILTED. TO ELIMINATE THE POSSIBILITY OF DAMAGE TO THE ENGINE COWLINGS, ALWAYS REMOVE FISHING RODS FROM THE STERN ROD HOLDERS BEFORE FULLY TILTING THE ENGINES.



CAUTION



SOME OUTBOARD ENGINES WITH ELECTRONIC STEERING CAN MOVE SIDE TO SIDE WHILE TILTED DURING TRANSIT. THIS COULD EXPOSE THE ENGINES TO POTENTIAL DAMAGE. ALWAYS INSTALL THE TOW BRACKETS TO SECURE THE ENGINES BEFORE TOWING THE BOAT ON THE HIGHWAY.



Engine Mounting System

A platform built into the engine mounting system with a boarding ladder is standard on your boat.

Swim Platform Storage Compartment

There is a wet storage compartment on the starboard side of the platform that drains overboard to a thru-hull fitting in the side of the hull. A twist lock latch secures the hatch when it is closed and a gas charged spring holds the hatch open. Only store items that will not be damaged by seawater in this compartment.

The latch handle stores flush in the latch in the open or latched position. There is a large red dot in the handle that indicates that the latch is in the open position and the hatch is not secure. Always make sure that the hatch is closed with the latch in the secured position before operating the boat.



Swim Platform Storage Compartment

Swim Platform Hand Rail

A removable stainless steel hand rail can be installed on either side of the swim platform. It provides additional safety while on the platform or an additional grab rail when using the stern boarding ladder.

The rail is stored in special mounting brackets built into the aft system compartment hatch. A twist latch on the upper bracket secures the rail to the hatch. To remove the rail, open the hatch, then hold the rail against the hatch and rotate the latch until it is parallel with the upper bracket. Then rotate the rail down from the upper bracket and remove it from the hatch. Reverse the process to store the rail. Always make sure the rail is properly secured with the rotating latch.



Swim Platform Rail

Exterior Equipment

To install the swim platform rail, slide the stanchions into the receivers in the swim platform and push firmly. Rock the rail slightly if necessary as you push until the stanchions seat it in the receivers.

To remove the rail, pull up on the rail and slide the stanchions out of the receivers. Rock the rail slightly if necessary to work it out of the receivers.

Stern Boarding Ladder

A telescopic boarding ladder is recessed into the starboard side of the swim platform. To use the ladder, turn the steering wheel port to move the starboard engine propeller as far from the ladder as possible. Release the retaining strap, pull the ladder out of the recess and rotate it to the down position. Push down on the bottom step to extend the ladder. The ladder must be retracted and secured in the recess before starting the engines.



WARNING



MOVING PROPELLERS ARE DANGEROUS. THEY CAN CAUSE DEATH, LOSS OF LIMBS OR OTHER SEVERE INJURY. DO NOT USE THE SWIM PLATFORM OR BOARDING LADDER WHILE AN ENGINE IS RUNNING. STOP THE ENGINES IF DIVERS OR SWIMMERS ARE ATTEMPTING TO BOARD. ALWAYS RETRACT AND PROPERLY SECURE THE LADDER BEFORE STARTING THE ENGINES.



Swim Platform Hand Rail Stowed Under Aft Systems Compartment Hatch

Unassisted Boarding Situations

When using the stern ladder in an unassisted boarding situation in deep water, release the retaining strap. Brace yourself by placing both feet against the hull side and pull the ladder out of the recess. Rotate it to the down position and push down on the bottom step to extend the ladder. Use the hand rail and ladder to steady yourself



Stern Boarding Ladder



Stern Boarding Ladder Deployed

while boarding. Remember to retract the ladder and secure it in the recess before starting the engines.

Exterior Equipment

Trim Tabs

The trim tabs are mounted to the hull below the platform. The trim tabs are an important part of the control systems. Refer to the Helm Control Systems chapter for detailed information on the operation of the trim tabs.

Underwater Lights (Optional)

The LED underwater lights are mounted in the transom, below the water line. The multi colored lights are activated by the Underwater Light switch in the touchscreen display and should only be used when the boat is in the water with the lights submerged.

Heavy Duty Bow Eye (Optional)

The heavy duty bow eye is designed for towing the boat. The eye includes a welded stainless steel plate with internal bow reinforcement and backing plates that distribute the force on the bow eye to a larger area of the hull than with the standard bow eye. This feature allows the boat to be towed behind a larger vessel.



Underwater Light & Trim Tab

**DANGER**

TOWING A BOAT BEHIND A LARGER VESSEL REQUIRES SPECIAL KNOWLEDGE AND SKILL. THE USE OF TOW LINES OR HARDWARE NOT INTENDED FOR TOWING OR RATED FOR THE FORCES EXERTED ON EQUIPMENT DURING THE TOW IS EXTREMELY DANGEROUS AND CAN CAUSE SEVERE INJURY OR DEATH TO PASSENGERS IF THAT EQUIPMENT FAILS. NEVER TOW THE BOAT BEHIND A LARGER VESSEL USING A TOW LINE, HARNESS OR OTHER EQUIPMENT NOT RATED FOR THE EXPECTED LOADS EXPERIENCED DURING THE TOW. IF YOU ARE NOT EXPERIENCED IN TOWING A VESSEL, CONSULT WITH AN OPERATOR AND A MARINE FACILITY EXPERIENCED IN TOWING VESSELS FOR HELP SELECTING PROPER EQUIPMENT AND FOR TRAINING.



Heavy Duty Bow Eye

**CAUTION**

BOATS THAT ARE TOWED BEHIND LARGER VESSELS REQUIRE SPECIAL MAINTENANCE. ATTENTION TO THE ALUMINUM AND STAINLESS STEEL HARDWARE IS ESSENTIAL. SALT SPRAY, SALTY STEAM AND CHEMICALS IN EXHAUST GASES ARE PARTICULARLY CORROSIVE AND WILL DAMAGE THE SURFACE OF STAINLESS STEEL OR ANODIZED AND POWDER COATED ALUMINUM. IT IS IMPERATIVE THAT THE BOAT AND HARDWARE ARE CLEANED THOROUGHLY AT THE COMPLETION OF EACH TRIP OR AT THE END OF EACH DAY ON LONG CRUISES TO REDUCE ACCELERATED DETERIORATION AND PREMATURE CORROSION TO ALUMINUM, STAINLESS STEEL AND OTHER COMPONENTS ON THE BOAT.

The Heavy Duty Bow Eye option also includes a strobe light feature which will flash the hardtop mounted light bar when the high water alarm sensor is activated by a high-water condition in the bilge.

Exterior Equipment

11.4 Cockpit Features

General

Most hatches and doors in the cockpit are secured with special cam action, draw or automatic push to close latches. Gas charged springs are used on most hatches in the deck and cockpit that help raise the hatches and hold them in the open position.

Some large hatches in the cockpit sole and deck are secured with special flush mounted, twist lock latches with handles that store flush in the latch in the open or latched position. There is a large red dot in some handles that indicate that the latch is in the open position and the hatch is not secure. Always make sure that all hatches are closed with the latches in the secured position before operating the boat above idle speed.

Access plates located in the sides of the cockpit liner and in the splashwell provide access to engine mounting bolts, fill hoses and fittings. Other access plates in the cockpit sole provide accesses to fuel supply lines, fuel gauge sender and the fuel fill and vent hose connections on the fuel tank.



WARNING



IN CERTAIN CONDITIONS, OPEN EXTERIOR DOORS AND HATCHES THAT ARE NOT SECURED PROPERLY CAN SLAM CLOSED UNEXPECTEDLY AND CAUSE INJURY TO PASSENGERS OR DAMAGE TO THE BOAT. SOME DOORS AND HATCHES ARE EQUIPPED WITH SPECIAL FASTENERS, HATCH LIFTERS, MAGNETIC LATCHES OR SNAPS AND STRAPS TO SECURE THEM IN THE OPEN POSITION. ALWAYS MAKE SURE THAT THESE HATCHES AND DOORS ARE PROPERLY SECURED WHENEVER THEY ARE IN THE OPEN POSITION.

Transom Door

A transom door is incorporated into the starboard side of the transom. A magnetic latch holds the door in the open position and a flush mounted push to close latch secures it when it is closed. When closing the door, make sure you push the door against the door jam with enough pressure to engage the latch and secure the door.

The transom door should only be opened when the boat is not underway. The door must be latched in the closed position whenever the boat is underway. Never leave the transom door unlatched.



Twist Latch Unlatched
Red Dot Showing



Twist Latch latched



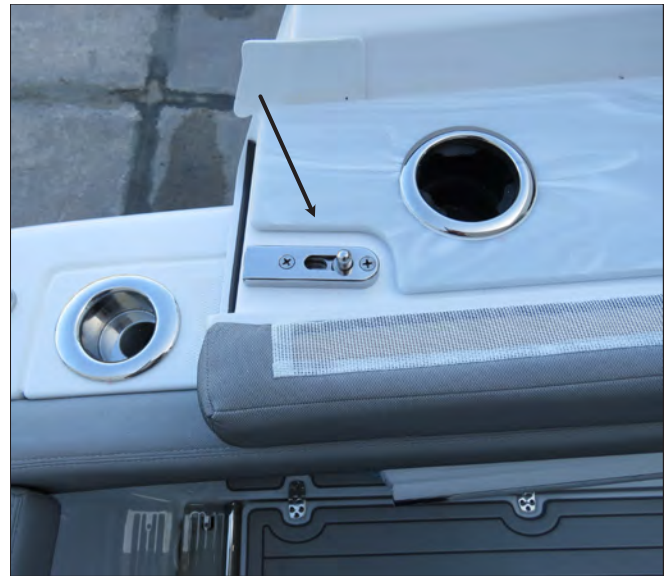
Cockpit Hatches



Transom Door



Typical Side Boarding Door & Gate



Boarding Door Gate Latch

Notice:

Periodically inspect the transom door latch and fittings for wear, damage or loose fit. Any problems should be inspected and corrected immediately.



WARNING



THE TRANSOM DOOR SHOULD BE CLOSED AND PROPERLY LATCHED WHENEVER THE ENGINES ARE RUNNING. NEVER OPEN THE TRANSOM DOOR WHILE UNDERWAY OR IN ROUGH SEA CONDITIONS. IN CERTAIN SITUATIONS, AN OPEN TRANSOM DOOR COULD ALLOW A SUBSTANTIAL AMOUNT OF WATER TO ENTER THE COCKPIT CREATING A POTENTIALLY DANGEROUS CONDITION.



WARNING



OPERATING THE BOAT UNDER POWER WITH THE TRANSOM DOOR OPEN MAY ALLOW PERSONS TO FALL OVERBOARD AND INTO BOAT PROPELLERS OR TO BE LOST IN OPEN WATER. ALWAYS CHECK TO MAKE SURE THE TRANSOM DOOR IS PROPERLY CLOSED AND LATCHED BEFORE STARTING THE ENGINES AND NEVER OPERATE THE BOAT UNDER POWER WITH THE TRANSOM DOOR OPEN.

Side Boarding Door & Gate

A side boarding door and gate is incorporated in the port aft hull side. The door provides divers and swimmers easy, unobstructed access to the water and cockpit. It also makes boarding and exiting the boat much easier in many docking situations.

The gate is hinged and opened by releasing the slide latch at the bottom forward end of the gate and swinging it aft onto the gunnel. The gate latch has a spring loaded safety pin built into the handle that secures the latch when the gate is closed and latched. Press the latch handle and slide the latch to release it. When the gate is closed, make sure the latch is completely engaged and that the safety pin is snapped into place to prevent the latch from opening accidentally.

Exterior Equipment

The side door swings inboard when the gate is open. A magnetic latch holds the door in the open position and a special latch mounted on the inboard side of the door secures it when it is closed. The door latch has a spring loaded safety pin. When the side door is closed, make sure the latch is completely engaged and that the safety pin is snapped into place to prevent the latch from opening accidentally.

The side door and gate should only be opened when the boat is not in motion with the engines shutdown. The door must be secured in either the OPEN position with the magnetic latch or in the CLOSED position with the main latch and safety pin. Never leave the side door unlatched.

Notice:

Periodically inspect the door hinges and hardware for wear, damage or loose fit. Any problems found should be corrected immediately.



Side Door Main Latch



WARNING



THE SIDE BOARDING DOOR AND GATE SHOULD BE CLOSED AND PROPERLY LATCHED WHENEVER THE ENGINES ARE RUNNING. NEVER OPEN THE DOOR WHILE UNDERWAY OR IN ROUGH SEA CONDITIONS. IN CERTAIN SITUATIONS, AN OPEN DOOR COULD ALLOW A SUBSTANTIAL AMOUNT OF WATER TO ENTER THE COCKPIT CREATING A POTENTIALLY DANGEROUS CONDITION.



WARNING



OPERATING THE BOAT UNDER POWER WITH THE SIDE BOARDING DOOR AND GATE OPEN MAY ALLOW PERSONS TO FALL OVERBOARD AND INTO BOAT PROPELLERS OR TO BE LOST IN OPEN WATER. ALWAYS CHECK TO MAKE SURE THE DOOR AND GATE ARE PROPERLY CLOSED AND LATCHED BEFORE STARTING THE ENGINES. NEVER OPERATE THE BOAT UNDER POWER WITH THE SIDE BOARDING DOOR AND GATE OPEN.



Side Door Latch & Safety Pin

Exterior Equipment

Side Telescopic Boarding Ladder

The side boarding ladder is mounted to special brackets in the port aft cockpit storage compartment when it is stored. To use the ladder, remove it from the storage compartment. Open the side door and remove the safety pin from the special bracket on the cockpit below the door and slide the ladder mounting bracket into the cockpit bracket. Secure the ladder to the cockpit bracket with the safety pin, then rotate the ladder out the door to the down position. Release the strap securing the steps and push down on the bottom step to extend the ladder.

To remove the ladder, retract the steps and secure them with the strap. Rotate the ladder into the cockpit, remove the safety pin and slide the ladder bracket down and off the cockpit bracket.

To prevent damage to the ladder, hull side or bracket, the ladder must be removed from the bracket and properly secured in the storage compartment before starting the engines.



WARNING



MOVING PROPELLERS ARE DANGEROUS. THEY CAN CAUSE DEATH, LOSS OF LIMBS, OR OTHER SEVERE INJURY. DO NOT USE ANY PLATFORM OR BOARDING LADDER WHILE AN ENGINE IS RUNNING. STOP THE ENGINES IF DIVERS OR SWIMMERS ARE ATTEMPTING TO BOARD. ALWAYS REMOVE ALL LADDERS AND CLOSE THE SIDE DOOR AND GATE BEFORE STARTING THE ENGINES.



Side Boarding Ladder In Cockpit Storage Compartment



Ladder Bracket Secured To Cockpit Bracket & Secured With Safety Pin



Typical Side Boarding Ladder Steps Secured With Strap



Typical Side Boarding Ladder Deployed

Exterior Equipment

Stern Cooler/Livewell (Optional)

The insulated stern cooler or optional livewell is located at the rear of the cockpit. It is equipped with a hatch that is secured with a rotating compression latch with a handle that stores flush with the hatch when closed.

If the livewell option is selected, the well will be equipped with a light, built in overflow and a supply valve. It drains overboard by gravity to a thru-hull fitting in the hull.

The livewell is supplied seawater by a dedicated centrifugal raw water pump located in the aft systems compartment bilge.

The overflow built into the side of the livewell automatically controls the water level. The well should be drained and rinsed clean with fresh water after each use. Refer to the Raw Water System and Drainage Systems chapters for more information on the operation of the livewell.



Stern Livewell

Aft Cockpit Bench Seat

Your boat is equipped with forward facing bench seat in the rear of the cockpit. The seat is designed to fold flush against the cockpit when it is not in use.

To use the seat, pull the handle near the top of the seat base and pull it out of the recess toward the cockpit. As the seat rotates out, grab the rear and front of the seat cushion and rotate it down to the seat position. The seat automatically stops when the cushion reaches the seating position.

To store the seat, grab the rear and front of the seat cushion and rotate it up until it is almost folded into the recess, then push the seat firmly into the recess. The seat will automatically be secured in the stored position when it is completely folded into the recess.



Aft Cockpit Bench Seat Deployed

Aft systems compartment Access

A hatch in the rear of the cockpit provides access to the pumps, strainers, generator, SeaKeeper and other equipment in the aft systems compartment. The stern bilge pumps, raw water supply supply valves, baitwell pump, air conditioner and raw water pumps are among the equipment in this compartment.

The hatch is held open by gas springs and secured with two twist lock latches with handles that store flush in the latch in the open or latched position. There is a large red dot in each handle that indicates



Aft Systems Compartment Hatch

Exterior Equipment

that the latch is in the open position and the hatch is not secure. Always make sure that the hatch is closed with the latches in the secured position before operating the boat above idle speed.

To open the hatch, release the latches by pulling the handles out and rotating them until the latch releases. Then lift the hatch to the full open position. Close the hatch by pushing it to the closed position. Then rotate the latch handles until they are latched in the closed position and securing the hatch to the cockpit sole.

	WARNING	
TO PREVENT FIRE OR EXPLOSION, DO NOT STORE GASOLINE, DIESEL FUEL OR OTHER FLAMMABLE LIQUIDS IN THE AFT SYSTEMS COMPARTMENT, FISHBOXES OR ANY OTHER STORAGE COMPARTMENTS. THESE COMPARTMENTS ARE NOT DESIGNED WITH VENTILATION ADEQUATE FOR FLAMMABLE LIQUID STORAGE.		



Aft Below Deck Fishbox

Aft Below Deck Fishboxes

Two large below deck fishboxes are located on each side of the aft cockpit. Each fishbox hatch is held open by gas springs and secured with two twist lock latches with handles that store flush in the latch in the open or latched position. There is a large red dot in each handle that indicates that the latch is in the open position and the hatch is not secure. Always make sure that the hatches are closed with the latches in the secured position before operating the boat above idle speed.

Each fishbox is drained by a macerator pump out system located in the aft systems compartment bilge. The pumps are activated by switches in the touchscreen display. Be sure to monitor the water level in the fishbox and turn the pump off as soon as pumping is complete. A pump could be damaged if it is allowed to run dry for more than 30 seconds.

The fishboxes should be drained and cleaned after each use. Refer to the Drainage Systems chapter for more information on fishbox drainage.

Rod Rack

There is a recessed rod storage rack located below the starboard gunnel. It is equipped with stretch cords to secure the rods to the racks. Always make sure the rods are properly secured in the storage rack with the rod tips forward.



Rod Rack

Exterior Equipment

11.5 Mezzanine & Bench Seat

A mezzanine equipped with a bench seat, slide out cooler, fresh water sink, and storage is located aft of the helm seats. The upper section of the mezzanine rotates to provide a forward or aft facing seat.

There are storage drawers on the front and rear. The large starboard drawer on the forward side is equipped with a removable basket. Hinged doors on the port and forward side of the mezzanine base provide access to the House batteries, main fuse panel and accessory fuse panels.

The doors and drawers in the mezzanine are secured in the closed position with special latches that are flush to door or drawer when latched. To open, press and release the knob. The knob will pop out one inch, providing a means to rotate the latch to release the locking mechanism and pull the door or drawer open. To close, make sure the door or drawer is completely closed and push the knob in. The knob will stay in and the locking mechanism will be activated.

Battery Compartment Access

The house batteries and battery charger are installed in the battery compartment below the mezzanine seats. The fuse and breaker panels and house battery switch are also in compartments below the seats.

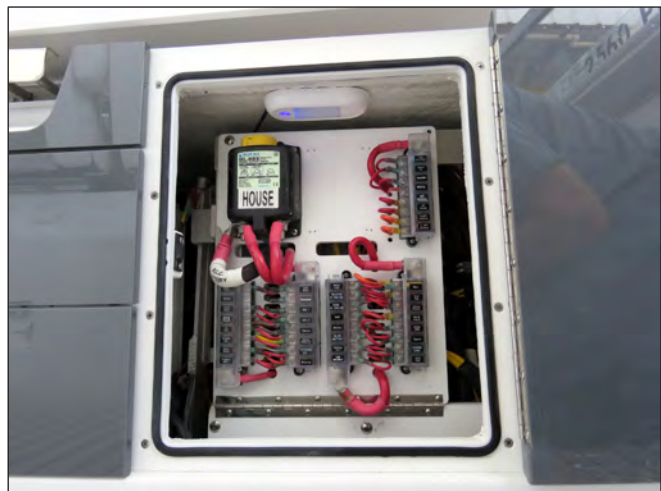
Access to the batteries, fuses, circuit breakers and other equipment in the battery compartment is provided through the port and port front access doors in the seat base. To access the port side of the battery compartment, make sure the battery switches are off. Then open the port front storage compartment door to access the House battery switch and fuse panel. Remove the two screws at the top of the hinged panel and rotate it down. Access to the starboard side of the battery compartment is provided by removing the basket storage drawer on the front starboard side of the base.



Mezzanine



Removable Access Door On Port Side Of Mezzanine



Hinged Access Panel On Forward Port Side Of Mezzanine

Exterior Equipment



Mezzanine Bench Seat Facing Forward



Mezzanine Bench Seat Facing Aft With Cooler Extended

Rotating Mezzanine Seating

There is a forward facing bench seat mounted on the upper section of the mezzanine. Arm rests on each side of the seat provide a more comfortable position.

The entire upper section of the mezzanine rotates to convert the forward facing seat to an aft facing seat. It is secured in the selected position with a spring loaded center latch and two sliding latches, one on each forward side of the mezzanine base.

To rotate the mezzanine, release the sliding latches. Each latch has a spring loaded safety pin built into the handle that secures the latch when it is engaged. Press the latch handle and slide the latch down to release it. With the side latches released and slid completely down, pull the center latch handle to release the latch. Rotate the mezzanine several degrees, then release the latch. Continue rotating the mezzanine slowly until the seat faces directly aft and the center latch automatically engages to hold it in position. Slide the side latches up to secure the mezzanine in the selected position. Make sure each latch is completely engaged and that the safety pin is snapped into place to prevent the latches from opening accidentally.

Notice:

To avoid causing damage to the mezzanine base, always make sure the side sliding latches are completely down when they are released to rotate the mezzanine.



Mezzanine Center Latch



Mezzanine Port Side Sliding Latch & Safety Pin



Cooler Slid Into Mezzanine Compartment



Cooler Slid Out

Slide Out Cooler/Compartment

A cooler is mounted on a special slide track in the compartment in rear of the mezzanine base. It can be used as a cooler or storage compartment and drains by gravity to the cockpit sole. The cooler also provides a footrest for the mezzanine seat when it is rotated to the aft facing position and the cooler is extended.

The cooler lid is secured with two cam latches when it is closed and two gas charged springs hold the lid open. The cooler slide track is secured with a flush mounted spring loaded latch on the starboard rear side of the mezzanine base. The latch automatically secures the cooler slide track when it reaches the fully extended or retracted positions.

To slide the cooler out of the compartment, release and hold the latch, then slide the cooler out slightly and release the latch. When the cooler reaches the extended position, the latch will automatically engage to secure the cooler in that position. To retract the cooler, make sure the lid is closed and latched. Release and hold the latch, then slide the cooler in slightly and release the latch. When the cooler reaches the retracted position in the mezzanine base, the latch will automatically engage to secure the cooler in the compartment.



Cooler Slid Out & Lid Open



Cooler Slide Track Latch

Exterior Equipment

Fresh Water Sink

The sink is located in the countertop behind the mezzanine seats. The faucet is plumbed to the fresh water system and the sink is drained by gravity to a thru-hull fitting in the hull side. To use the sink, make sure the fresh water system is activated. Remove the cutting board/covers and store them in the storage locker on the starboard side of the cockpit. Then rotate the faucet to the operating position. The faucet works like faucets in your home when the fresh water system is activated. Always lower the faucet and cover the sink with the cutting board/covers when it is not being used.



Mezzanine Sink & Optional Grill

Electric Grill (Optional)

An optional electric, stainless steel grill is located next to the sink behind the mezzanine seats. The grill is recessed into the counter top and operates on 120 volt AC power only.

To use the grill, open the hinged countertop panel above the grill. Make sure the Grill circuit breaker in the cabin electrical panel is activated, then use the touch control to activate the burner and control the temperature. After cooking, be sure the burner is turned off and allowed to cool before closing the panel. Never close the panel while the grill is hot. Deactivate the Electric Grill circuit whenever the grill is not being used to ensure it is not activated accidentally.

Refer to the grill operating manual for additional information on the proper operation and maintenance of the grill.



Optional Grill

Refrigerator (Optional)

A dual voltage refrigerator mounted on the starboard side of the mezzanine base is an available option. This unit will operate on 120 volt AC or 12 volt DC power. The refrigerator drawer has a push to close latch that automatically secures the drawer when it is closed. Make sure the door is completely closed and secured whenever the boat is moving.

The refrigerator switches to 12 volt DC automatically when the AC power is disconnected and the refrigerator 12 volt DC circuit is activated. When 120 volt AC current is provided, the refrigerator automatically switches to AC power.

Care should be exercised while operating the refrigerator on 12 volt power without the engines running. It draws a substantial amount of current and can severely drain the house battery bank through extended use. Refer to the refrigerator owner's manual for additional operating and maintenance instructions.



Optional Refrigerator

Exterior Equipment

11.6 Helm Seat Base and Helm Seats

The helm seats are mounted on a base with a storage compartment. If your boat is equipped with optional helm area air conditioning, this compartment will be dedicated to the air conditioning system and there will be no storage.

The helm seats are equipped with a flip up bolster to provide more room between the seats and the helm. The bolsters convert the seats to a leaning post style seat with a backrest, allowing the operator and passengers to sit or stand at the helm. To convert each seat to a leaning post, lift the front of the seat cushion to raise the bolster and push it back above the seat cushion.

Arm rests on each side of the seats provide a more comfortable position. A molded in footrest on the rear of the console makes the helm more comfortable when the bolsters are set to the seat position.

The center seat is mounted on adjustable slide tracks that allow the seat to be adjusted fore and aft. To adjust the seat, lift the handle below the front of the seat, then slide the seat to the desired position. Release the handle to secure the seat.

All three helm seats swivel to allow the seats to face aft if desired. The seat bases swivel and slide. The center seat slides fore and aft. Each side seat slides port and starboard.

To rotate the side seats, raise the bolster on all three seats, then slide the center seat full forward by lifting the slide track release handle below the front of the seat. Slide each side seat full outboard by lifting the slide track release handle below the outboard side of the seat. Then move the swivel release lever located below the slide track handle to the side to release the swivel lock on the port seat. Rotate the seat slightly and release the swivel lever. Continue rotating the seat until it faces aft and the swivel lock engages to secure the seat. Repeat this process for the starboard and center seats.

11.7 Helm Station

Helm

The steering, engine controls, engine instruments and switches for exterior equipment and navigation lights are located on the helm station. An area for flush mounted electronics is located forward of the steering and engine controls. The helm is equipped with cup holders, inductive phone charging, a grab



Helm Seats With Bolsters In Leaning Post Position



Helm Seats With Bolsters In Seat Position



Center Helm Seat Rotated To Aft Facing Position

Exterior Equipment

rail and storage compartments. There is also a 12 volt accessory plug and USB plug. Ventilation is provided by opening the windshield panel.



WARNING



VISIBILITY FROM THE SEATED POSITION AT THIS HELM IS LIMITED. AVOID SERIOUS INJURY OR DEATH FROM COLLISIONS. OPERATION FROM A STANDING POSITION MAY BE NECESSARY TO MAINTAIN LOOKOUT AS REQUIRED BY RULES OF THE ROAD.



Helm

Access doors and panels in the head compartment and cabin and provide access to the back of the helm panel for servicing helm equipment and installing electronics or other accessories. There are also fuse panels that provide protection for electronics, helm accessories or other equipment added by you or your dealer.

The rear of the helm is hinged at the bottom and can be opened to provide access to service control and steering system components. Four bolts secure the helm to the aft cabin bulkhead in the closed position.

To open the helm station, make sure the engines are not running and all battery switches are off. Have one person hold the helm in the closed position while another person removes the bolts that secure the helm inside the cabin and head compartment. The bolts are located behind the access door in the aft head compartment bulkhead and the electrical panel in the rear cabin bulkhead. After the bolts are removed, carefully lower the helm to the full open position.

Notice:

The helm is heavy and could open unexpectedly when the last bolt is released. This could damage the helm or other components. Make sure you have someone hold the helm closed while the bolts are removed.

Close the helm by having one person push it to the closed position and hold it while another person installs and tightens the bolts. Always make sure that helm is properly closed and secured with all four bolts before operating the boat.



Helm Equipment Access & Bolts in Head Compartment



Hinged Electrical Panel In Aft Cabin Cabinet



WARNING



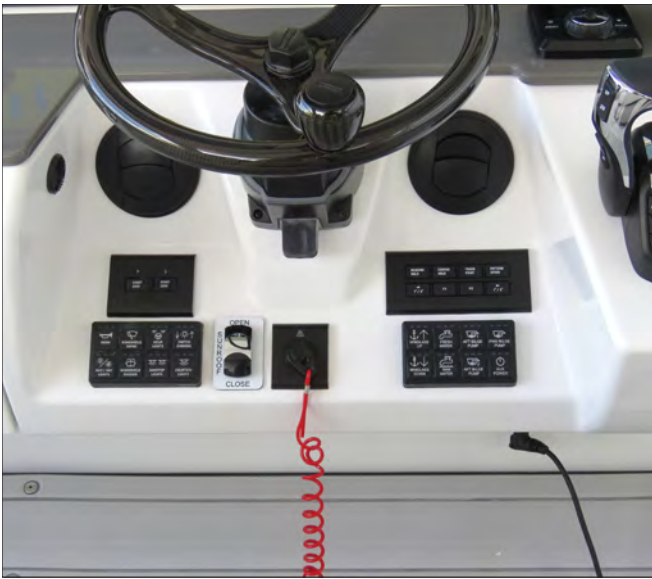
ALWAYS MAKE SURE THE BOLTS THAT SECURE THE HELM STATION ARE TIGHT BEFORE OPERATING OR TRANSPORTING YOUR BOAT. IF THE HELM STATION IS NOT PROPERLY SECURED, IT COULD OPEN UNEXPECTEDLY AND DAMAGE THE BOAT OR CAUSE LOSS OF CONTROL.



WARNING



UNDER NO CIRCUMSTANCES SHOULD THE HELM BE OPENED WHEN THE ENGINES ARE RUNNING. IN SOME SITUATIONS IT IS POSSIBLE TO ACCIDENTALLY ENGAGE THE ENGINE SHIFT CONTROLS INTO GEAR AND ADVANCE THE THROTTLES AS THE HELM IS OPENING. THIS COULD RESULT IN LOSS OF CONTROL, DAMAGE TO THE BOAT AND INJURY TO PASSENGERS.



Helm Air Conditioning Vents



Mezzanine Seating Area Air Conditioning Vents

11.8 Cockpit Air Conditioner (Optional)

The optional helm area air conditioning unit is mounted in the compartment below the helm seats. The compartment is accessed through the large removable vent panels on the front of the base. The panels are secured by friction clips. To remove a panel, carefully pry the top side of each panel out to release the clips.

The air conditioner is powered by the 120 volt AC system or the 12 volt DC system, depending on the options selected. 120 volt AC systems are equipped with reverse cycle heat so it can be operated as a cooling or heating unit. 12 volt DC systems are cooling only.

120 Volt AC Air Conditioner Operation

The 120 volt AC air conditioning unit is the reverse cycle type and operates on AC power. The unit is equipped with reverse cycle heat and can be operated as a cooling or heating unit. It is protected by circuit breakers in the cabin electrical panel.

To operate the system, make sure the thru-hull valve for the air conditioner seawater supply pump is on. The valve, sea strainer and pump are located in the aft systems compartment bilge. Turn the HVAC Unit CABIN and HVAC Pump breakers in the electrical panel on. The air conditioning or heat then will be controlled by the electronic control panel in the cabin. When activated, water should continuously flow from the overboard discharge thru-hull.



Helm Seat Base With Optional Helm Air Conditioning

The air conditioning system produces heat when it is operated in the reverse cycle mode. The ability of the unit to produce heat is affected by the temperature of the seawater. As the seawater temperature lowers, the air conditioner's ability to produce warm air decreases. When seawater temperature drops below 40 - 45 degrees, the unit will not be able to produce heat. You should not operate the air conditioner to produce heat when the water temperature is below 40 degrees.

DC Air Conditioner Operation

The 12 volt DC air conditioning unit is activated and protected by the Air Conditioner breaker in the mezzanine fuse and circuit breaker panel near the batteries. It draws 12 volt DC current from the house battery bank. The air conditioning unit draws a significant amount of current (approximately 30 amps) while operating. To avoid draining the house batteries when operating the system at dockside, make sure the 120 volt AC system is connected to shore power and the battery charger is activated to maintain the batteries.

When operating the system away from the dock, the voltage in the house battery bank must be monitored closely to avoid draining the batteries when the engines are not running. If the house batteries are in good condition and no other DC equipment is operating, the DC air conditioner can typically operate approximately 3 to 4 hours before the batteries become drained. If the stereo, cabin and/or cockpit lights, electronics or other DC electrical equipment is being used, the operating time available for the air conditioner will be significantly less.

While underway at cruise speed, the engine charging systems will provide enough current to maintain the batteries with the DC air conditioner operating. The engines will not provide enough current at idle or trolling speeds to maintain the batteries with the air conditioner operating, particularly with the water heater, stereo and electronics activated.

To operate the system, make sure the seacock valve that supplies the air conditioner seawater pump is on. The pump, valve and sea strainer are located in the aft systems compartment bilge. Then activate the air conditioner with the electronic control panel in the cabin. When activated, water should continuously flow from the overboard drain thru-hull.

General Operation For Both AC and DC Cockpit Air Conditioning Units

The air conditioner creates condensation that drips into the pan at the base of the unit. A hose attached to the pan drains the water to the cabin drain sump where it is pumped overboard. You should monitor the operation of the sump pump system and make sure it is operating properly whenever the cabin air conditioner is activated. The air conditioner can produce enough condensation to flood the cockpit sole if it is allowed to run for extended periods without the sump system operating properly.

It is normal for some water to be in the condensation pan whenever the air conditioner has been used. The pan should be checked periodically to make sure it is draining properly. The drain hoses, condensation pan and sump should be flushed clean if they become restricted by mold or debris.

A seawater pump supplies cooling water for the cabin air conditioning unit. The intake line for the seawater pump is equipped with a sea strainer that must be checked for debris frequently and cleaned as necessary. Refer to the Raw Water System chapter for information on the air conditioning pump and cleaning the sea strainer. You should also refer to the air conditioner owner's manual for additional operating and maintenance instructions.

Notice:

Air conditioners use seawater as a cooling medium. The boat must be in the water and the raw water supply system must be properly activated prior to use. Operation without proper cooling could cause the air conditioning unit to shut down and could cause system damage. Always check for proper water flow out of the air conditioning pump discharge thru-hull when the air conditioner is operating.

Exterior Equipment

11.9 Bow Area & Seats

Bow Seating Area Access

An acrylic door and opening windshield panel provides access to the bow seating area and ventilation to the helm and cockpit.

The windshield walk-through panel is opened by releasing the latches on the inside of the windshield. A magnetic stop on the side of the cockpit automatically secures the panel in the open position and a gas charged spring helps open or close the panel and prevents it from swinging freely.

To open the windshield panel, rotate the bottom latch to release it. Then hold the panel closed and release the top latch. Slowly swing the panel inboard until it is secured against the side of the cockpit with the magnetic latch. To close the windshield panel, pull on the bottom of the panel firmly until the magnetic latch releases. Then close the panel and secure it with the latches. Make sure the panel is properly secured in the open or closed position before cruising.



Bow Area & Opening Windshield Panel

**CAUTION**

USE CAUTION WHEN OPENING THE WINDSHIELD PANEL. THE MAGNET THAT HOLDS THE PANEL OPEN IS VERY POWERFUL AND COULD CAUSE INJURY OR DAMAGE TO VESSEL IF THE PANEL IS ALLOWED TO SLAM AGAINST THE SIDE OF THE COCKPIT.

TO AVOID INJURY, THE WINDSHIELD PANEL MUST BE SECURED IN THE OPEN OR CLOSED POSITION WHEN VESSEL IS IN MOTION. MAKE SURE TO USE BOTH LATCHES WHEN SECURING THE WINDSHIELD PANEL WHEN IT IS CLOSED.

An acrylic door secured with a flush, push to close latch provides the ability to close off the walk-through area below the opening windshield panel when desired. The door is designed to nest in a recess on the side of the cockpit when it is open. The latch secures the door in the open or closed position.

To secure the door in either position, push the door until the latch engages. Always make the walk-through door is securely latched in the open or close position before operating the boat. Periodically clean and lubricate the latches to protect them from corrosion and help keep them operating properly.



Walk-Through Door & Latch

Exterior Equipment



Lounge Seats



Storage Compartment/Cooler

Forward Lounge Seats

Large lounge seats with underside storage is located forward of the windshield. Seats will accommodate three people and have arm rests that fold into the backrest cushions.

The forward cushion is on a hinged hatch that raises to provide access to a compartment that can be used for storage or a cooler. The compartment drains overboard by gravity to a thru-hull fitting in the hull side. Gas charged springs hold the hatch in the open or closed position. Two lift to release latches secure the seat when it is closed.

Cabin Door

The sliding cabin door is on the port side of the cabin. The door is held in the open position by a spring loaded latch that automatically secures the door when it is opened. A flush, push to close latch secures the door when it is closed. Always make sure the door is latched in the open or closed position. Completely close the door and make sure it is latched before operating the boat above idle speed.



Cabin Door



WARNING



NEVER LEAVE THE CABIN DOOR UNLATCHED. THE DOOR IS HEAVY AND SLIDES EASILY. IF THE DOOR IS LEFT UNLATCHED, IT COULD SLAM UNEXPECTEDLY AS THE BOAT ROCKS, DAMAGING THE DOOR OR CAUSING AN INJURY TO A PASSENGER. ALWAYS MAKE SURE THE DOOR IS PROPERLY SECURED IN THE OPEN OR CLOSED POSITION.



11.10 Hardtop

The hardtop consists of a laminated fiberglass top mounted to a welded, powder coated aluminum frame that is bolted to the windshield frame and deck. It is equipped with LED overhead lighting for the helm and a sunroof. Removable access panels in the hardtop liner provide access to wiring and rigging for hardtop accessories. Additionally, it is equipped with a forward mounting pad for a radar antenna or optional LED light bars.

Navigation lights are located on the hardtop. They are intended to keep other vessels informed of your presence and course. All vessels are required to display navigation lights between sunset and sunrise and other periods of reduced visibility. During these times, no other lights that could be mistaken for lights specified in the Rules of the Road can be displayed, nor any lights that impair the visibility or distinctive character of navigation lights, or interfere with the keeping of a proper lookout.

Your boat is equipped with navigation lights required by the U.S. Coast Guard at the time of manufacture and should not be modified. It is up to you to make sure they are operational and turned on when required. Navigation lights should be replaced immediately if they are ever found to be inoperable.

The hardtop is designed to accommodate radio antennas, radar antenna, Starlink antenna, flood lights, navigation lights, rod holders and outriggers. The flood lights, windshield wiper/washer, hardtop lights and retractable windshield are controlled by switches in the helm switch panels.



Sunroof

Hardtops are not designed to support the additional weight of heavy items like a life raft. GPS, VHF, radar and other electronics antennas must be mounted to the top in the proper locations. The starboard front and rear supports are the wire chase for lights and antennas mounted to the top.

Sunroof (Optional)

An electric actuator opens or closes the sunroof. The actuator is controlled by the Sunroof rocker switch at the helm or the Sunroof switch in the touchscreen display.

When using the switch in the helm display, touch the Sunroof switch to open the sunroof. Touch the switch again to stop the sunroof in the current position. Touch the switch again to close the sunroof.

Exterior Equipment

The Sunroof rocker switch is a three-position switch. The center position is OFF. Press and hold the top of the switch to open the sunroof. Press and hold the bottom of the switch to close it. The switch automatically returns to the OFF position when it is released and the sunroof will remain in the current position. Limit switches built into the actuator automatically stop the roof when it is fully open or closed.

Light Bars (Optional)

Your boat could be equipped with one or three LED light bars located on the front of the hardtop, depending on the options selected. Light bars provide lighting forward of the bow while docking or maneuvering in tight quarters at night. The light or lights are activated by the Forward Light Bars switch in the touchscreen display and should only be used during docking, mooring or anchoring situations. If the boat is equipped with the heavy duty bow eye option, the light bar will be equipped with a strobe feature that will flash the light bar if the bilge high water alarm is activated.

Never use the light bars while cruising. It is not legal for night navigation and may obstruct the visibility of the bow navigation lights to oncoming vessels.

The warranty for the hard top will be void if the top is modified in any way or heavy accessories like life rafts are mounted to the top. Additionally, if items like radar antennas, spotlights and other accessories are mounted in the wrong location, the warranty could be void. If you intend to add equipment or make modifications to the hard top, you should contact Everglades Customer Service or your dealer to make sure the equipment you would like to add or the intended modification will not void the warranty on the top.

Retractable Aft Sunshade (Optional)

The optional retractable awning extends to provide shade for the rear cockpit. An electric actuator extends or retracts the awning. The actuator is controlled by the Sunshade switch in the helm touchscreen display or with the Sunshade rocker switch on the rear of the mezzanine.

When using the switch in the touchscreen display, touch the sunshade switch to extend the sunshade. Touch the switch again to stop the sunshade in



Light Bars



Retractable Aft Sunshade

the current position. Touch the switch again to retract the sunshade.

The awning switch in the mezzanine is a three-position rocker switch. The center position is OFF. Press and hold the top of the switch to extend the awning. Press and hold the bottom of the switch to retract it. The switch automatically returns to the OFF position when it is released and the sunshade will remain in the current position. Limit switches built into the actuators automatically stop the awning when it is fully extended or retracted.



Hardtop Receiver & Snap Hook



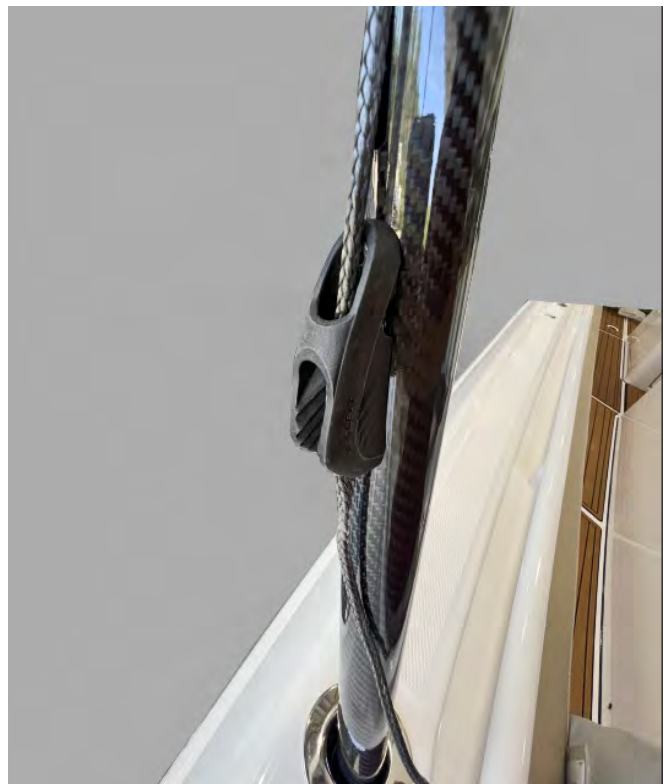
Typical Pole Cinch Cord Snap Hook

11.11 Bow Sunshade (Optional)

The optional bow sunshade provides shade for the forward seating area. There are four receivers located on the gunnels on each side of the bow area. Four carbon fiber Poles and the sunshade are stored in a canvas bag.

To install the sunshade:

- Remove bow sunshade and poles from storage bag.
- Locate bow sunshade pole receivers on the gunnels on each side of the deck, just forward of the windshield and insert the rear poles into the receivers.
- Locate bow sunshade pole receivers on the deck on each side of the windlass hatch and insert the forward poles into the receivers.
- Loosen the cinch cords on the poles all the way.
- Unfold canvas sunshade and attach the rear of the shade to the hardtop receivers.



Cinch Cord & Block

- Pull the canvas toward the bow and attach the rear eyes to the rear pole cinch cords and the forward eyes to the forward pole cinch cords.
- Pull cinch cords to tighten the canvas and secure each cord to the jam cleat at the base of each pole.



WARNING



TO PREVENT DAMAGE TO THE SUNSHADE OR INJURY TO PASSENGERS, THE FOLLOWING PRECAUTIONS MUST BE OBSERVED WHEN USING THE SUNSHADE.

- THE SUNSHADE SHOULD ONLY BE USED WHEN THE BOAT IS AT ANCHOR OR AT THE DOCK. DO NOT USE THE SUNSHADE WHILE THE BOAT IS UNDERWAY.
- DO NOT USE THE SUNSHADE IN THE RAIN OR IN HIGH WINDS. HIGH WINDS AND RAIN CAN COLLAPSE THE SUNSHADE WHICH COULD DAMAGE THE SHADE AND/OR CAUSE INJURY TO PASSENGERS.
- THE POLES ARE MADE OF CARBON FIBER WHICH CONDUCTS ELECTRICITY. CAUTION MUST BE USED WHEN THE POLES ARE NEAR DOCKSIDE POWER AND LIGHTING.

11.12 Aftermarket Hardtop or Tower

Everglades does not recommend installing an aftermarket hardtop or tower. An improperly designed or installed fabrication can cause structural damage to the deck structure and void the Limited Warranty. Additionally, Everglades will not be responsible for any damage resulting from the installation of a fabrication not installed at the Everglades factory. If you intend to install an aftermarket hardtop, upper helm station or tower on your boat, please contact your dealer or Everglades Customer Service.

NOTES

INTERIOR EQUIPMENT

12.1 Head Compartment

General

The head compartment is equipped with storage compartments, marine toilet, fresh water sink and shower. There are also 12 volt LED lights in the headliner that are activated by switches in the head and cabin switch panels. Ventilation is provided by a vent fan in the forward bulkhead activated by a switch in the head switch panel and the cabin air conditioning system, if your boat is equipped with this option.

Head Compartment Storage

Two drawers below the sink, a cabinet above the vanity and a compartment in the aft bulkhead provide storage. Two hinged doors with mirrors provide access to the cabinet above the vanity. It is equipped with shelves and a 120 volt GFI outlet.

The drawers and cabinet doors are secured in the closed position with special latches that are flush to the drawer or door when latched. To open, press and release the knob. The knob will pop out one inch, releasing the locking mechanism and providing a means to pull the drawer or door open. To close, make sure the drawer or door is completely closed and push the knob in. The knob will stay in and the locking mechanism will be activated.

Sink and Shower

The sink faucet has hot and cold water or cold water only, depending on the options selected, and a retractable shower head with an on/off valve.

To use the shower, make sure the Fresh Water pump switch is on. Then pull the shower head out of the faucet and adjust the hot and cold water faucet until the desired temperature is obtained. There is a bracket on the forward head compartment wall to hold the shower head while showering.

Some minor variations in the water temperature may occur as the pressure pump cycles. To conserve water, use the valve on the shower head to turn the water on and off as you shower.

Shower and sink water is drained overboard by the cabin drain sump pump. The pump is controlled by



Head Compartment & Sink



Vanity Storage Drawer



Storage Cabinet Above Vanity



Optional Head Teak Seat Down & Aft Storage Compartment



Optional Head Teak Seat Up & Rotating Bolt Latch

an automatic switch in the sump that is activated whenever the house batteries are connected. After showering, let the cold water flow for a period of time to flush the drainage system of soap residue.

The cabin drain and shower sump system is located in the forward bilge, below the cabin sole. It is essential that the drain pump strainer is cleaned regularly to remove accumulated debris that will clog the shower drain system.

Shower Seat

A hinged seat swings down above the toilet to provide a comfortable place to sit while showering. The seat swings up against the aft head compartment bulkhead and secured with a pivoting bolt latch when you need to use the toilet. Make sure the latch is completely engaged when the seat is up.

Notice:

The standard seat is made of starboard. A teak seat is an available option.

Equipment Access Door

There is an access door in the rear bulkhead above the toilet. The door provides access to the back of the helm station to service components. A push to close latch secures the door when it is closed and friction hinges hold it open.

The fuses that protect some 12 volt helm accessories and electronics and components for the touchscreen displays are located in this compartment. The starboard bolts that secure the opening helm section are also located in this compartment.



Storage Compartment Access Door



Fuse Panel & Touchscreen Components

12.2 Marine Head System

Your boat is equipped with an electric marine toilet (head) and holding tank as standard equipment. A momentary switch in the panel on the head compartment bulkhead controls the filling and flushing of the toilet. Flush water is supplied by the freshwater system. Before using, make sure the freshwater system is activated and press the flush button briefly to wet the inside of the bowl. After use, activate the pump to discharge the waste to the holding tank and empty the bowl.

Refer to the toilet manufacturer owner's manual for more information on the operation and maintenance of the marine head.



Marine Toilet

Holding Tank and Overboard Discharge Pump

The holding tank is located in the bilge below the berth. You should monitor the fluid level in the tank and do not flush the toilet when it is full. The holding tank must either be pumped out by an approved waste dumping station through the waste deck fitting or be pumped overboard with the macerator discharge pump, when legal to do so.

A switch with a key activated lockout is located in the head compartment switch panel. The overboard macerator discharge pump and valve are in the forward bilge below the removable aft cabin countertop. The pump discharges holding tank waste to a thru-hull fitting in the hull below the waterline.



Toilet & Overboard Discharge Control Panel

To operate the overboard discharge pump, make sure the thru-hull valve in the bilge is open. Then turn the key switch in the panel to the ON position. Press and hold the momentary switch to activate the pump.

Monitor the fluid level in the holding tank as it is pumped out. When pumping is complete, release the button, close the pump out thru-hull valve and turn the key switch off. Remove the key from the switch and store in a safe location.

If your boat is equipped with optional electrically activated thru-hull valves, the key switch will have OFF/ON/START positions. To operate the overboard discharge pump, turn the key to the on position to open the valve. Then turn the key to the start position. While holding the key in the start position, press and hold the macerator switch to activate the pump.



Overboard Macerator Discharge Pump & Electrically Activated Discharge Thru-Hull Valve In Forward Bilge

Interior Equipment

Monitor the fluid level in the holding tank as it is pumped out. When pumping is complete, release the switch and turn off the key to close the thru-hull valve and stop the pump. Remove the key from the switch and store in a safe location.

Notice:

Monitor the waste level in the holding tank as the overboard discharge pump drains the tank and turn the pump off immediately when draining is complete. The macerator discharge pump will be damaged if it runs dry for more than 30 seconds.

If the electrically activated thru-hull valve fails to open with the switch, refer to Electrically Controlled Thru-Hull Valves in the Raw Water Systems chapter for instructions to manually open and close the valve.

Notice:

In order to comply with current State, Federal and Coast Guard regulations, the lockout key switch must be off and the key removed whenever the boat is operating in areas in where the discharge of sewage is prohibited.

Maintenance

The head should be cleaned and inspected for leaks regularly.

The holding tank should be pumped out and flushed as needed. Always add chemical to the holding tank to help control odor and to chemically break down the waste. See the head manufacturer owner's manual for additional operating and maintenance information.

To reduce odor in the cabin, never allow waste to remain in the holding tank for more than one week. Make sure to add fresh water to the holding tank and pump the tank several times to flush it out during pump out operations.

Important:

The head system must be properly winterized before winter lay-up. Please refer to the Seasonal Maintenance chapter and the manufacturer owner's manual for winterizing instructions.



CAUTION



IN MANY AREAS IT IS ILLEGAL TO FLUSH HEAD WASTE DIRECTLY OVERBOARD. VIOLATION OF THESE POLLUTION LAWS CAN RESULT IN FINES OR IMPRISONMENT. ALWAYS KNOW THE LAW FOR THE AREAS IN WHICH YOU BOAT. NEVER DUMP HEAD OR HOLDING TANK WASTE OVERBOARD ILLEGALLY.

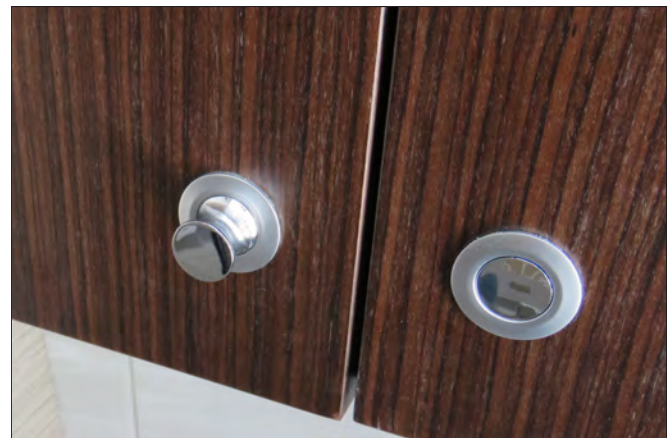


Main Cabin

12.3 Main Cabin

Cabinet Door and Drawer Latches

Most cabinet doors and drawers in the cabin are secured in the closed position with special latches that are flush to door or drawer when latched. To open, press and release the knob. The knob will pop out one inch, releasing the locking mechanism and providing a means to pull the door or drawer open. To close, make sure the door is completely closed and push the knob in. The knob will stay in and the locking mechanism will be activated. Other access doors are held closed by push to close latches that latch automatically when the door is closed.



Typical Cabinet Door & Drawer Latches

Cabin Light Switches

All lights in the cabin are powered by the DC electrical system. The overhead lights for the cabin and head compartment are activated by ON/OFF switches in the aft cabin bulkhead near the door and in the head compartment. Other lights have switches on the light fixture.



Cabin Light Switch Panel



Microwave Oven & Lounge Seat Storage Countertop



Storage Compartment Countertop Open

Cabinets and Storage Compartments

The cabin is equipped with a berth, storage cabinets and a countertop. There is additional storage below the steps and lounge seats. The counter tops are Faux Granite.

Lounge Storage Compartment

There is a large storage compartment behind the lounge seat backrest and below the countertop on the starboard side. Push to close and release latches secure the countertop when it is closed. Gas charged springs hold it in the open and closed positions.

To open the hinged countertop, press down firmly on the port side to release the latches. Lift and open the countertop. Once the countertop is lifted a couple of inches, the gas springs will begin raising it and hold it open. To close the countertop, push down firmly to compress the gas springs. Close it slowly until the gas springs cam over and hold the countertop closed and secure the latches.



Cabin Window

Cabin Window

A window the port side of the cabin provides daylight and ventilation. Additional lighting is provided by overhead lights that are controlled by an ON/OFF switch in the cabin switch panel. There is also a 120 volt GFI outlet below the microwave.

Microwave Oven (Optional)

The optional microwave is built into the starboard upper cabinet. It operates on AC power and is activated and protected by the Microwave breaker in the AC electrical panel. Always make sure the microwave door is closed and latched whenever the boat is underway. Refer to the microwave owner's manual for detailed information on the operation of the microwave oven installed in your boat.



Microwave Oven

Interior Equipment

Cabin Electrical Panel

The cabin electrical panel is built into the cabinet on the aft cabin bulkhead near the door. The circuit 120 volt accessory circuit breakers, generator control panel, blower switch and multimeter are mounted in the this panel.

Refer to the Electrical Systems chapter for more information on the operation of the components in the cabin electrical panel.

Control Module Access Door

An access door below the electrical panel cabinet provides access to control modules and other digital touchscreen components. The door is held open by friction hinges and secured with a flush, push to release latch. Refer to Cabinet Door and Drawer Latches in this section for more information on the latch.

Removable Countertop

The aft cabin countertop below the control module access door is removable to provide access to the forward bilge compartment and the equipment mounted there. The water heater, fresh water pump, air conditioner, overboard macerator pump, high water alarm, dry bilge pump and stereo amplifiers are among the equipment that could be mounted in this compartment.

Notice:

Some of the equipment listed is optional and may not be installed in the forward bilge compartment of your boat.

To remove the countertop, slightly lift the forward edge and slide the countertop forward. When reinstalling the countertop, make sure it is slid completely aft and the forward edge drops behind the cabinet side panel to secure it.

Cabin Step Storage Compartments

The cabin steps are hinged and open to provide access to storage compartments below the steps.

Cabin Sump Pump Access Hatch

A hatch in the cockpit sole provides access to the cabin drain sump system. A hidden pull handle that stores flush in the hatch is used to raise and remove the hatch. Press the end of the latch to raise the handle. Then use the handle to lift the hatch.



Aft Electrical Compartment Cabinet, Removable Countertop, Control Module Access Hatch & Steps



Cabin Sump System Access Hatch

Interior Equipment

TV

The optional TV is mounted on the port side of the cabin. It is activated by a circuit breaker in the AC electrical panel. Refer to the TV owner's manual for detailed information on the operation of the TV.

Carbon Monoxide Detector

A carbon monoxide (CO) detector/alarm is installed on the starboard cabin wall. The carbon monoxide detector is battery operated and the power light should be lit to indicate that it is activated. The detector should be tested frequently to ensure the battery doesn't need to be replaced.

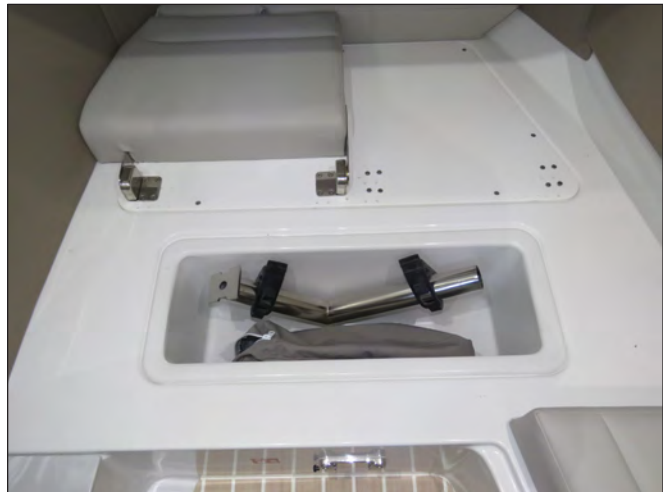
If excess carbon monoxide fumes are detected, an audible beeping will sound indicating the presence of the toxic gas. A green light on the detector indicates that it is activated. Always make sure the green light is on whenever the cabin is occupied.

A by-product of combustion, carbon monoxide is invisible, tasteless, odorless and is produced by all engines and some heating and cooking appliances. The most common sources of CO on boats are the engines, auxiliary generators and propane or butane stoves. These produce large amounts of CO and should never be operated while sleeping.

You should read the owner's manual supplied by the detector manufacturer for operation instructions and additional information regarding the hazards of carbon monoxide gas. Also read more about carbon monoxide, carbon monoxide detectors and proper ventilation in the Ventilation System and Safety Equipment chapters in this manual. This is especially essential if your boat is equipped with an the optional generator. If you did not receive a manual for your carbon monoxide detector, please contact the Everglades Customer Service Department.



Typical Carbon Monoxide Detector



Center Storage Compartment & Removable Access Panel



WARNING



ACTIVATION OF THE CARBON MONOXIDE DETECTOR INDICATES THE PRESENCE OF CARBON MONOXIDE (CO) WHICH CAN BE FATAL. EVACUATE THE CABIN IMMEDIATELY. DO A HEAD COUNT TO CHECK THAT ALL PERSONS ARE ACCOUNTED FOR. DO NOT REENTER THE CABIN UNTIL IT HAS BEEN AIRED OUT AND THE PROBLEM FOUND AND CORRECTED.

Cabin Lounge Seat and Berth

The lounge seat located in the forward section of the cabin converts to a berth. There are hatches below the cushions that provide storage and access to the bow bilge area. A removable panel below the backrest cushions provides access to the optional bow thruster, waste tank and other components in the bow bilge compartment. The other storage compartments below the cushions have removable tubes that provide access to the bilge.

Interior Equipment

The lounge seats are equipped with adjustable backrest cushions that can be folded down to convert the seats to a berth. To convert the lounge seats to a berth, make sure the table is removed and stored, if your boat is equipped with this option. Then rotate each cushion aft until you hear the adjustment ratchet in the backrest hinges release. Then rotate the cushions down flat to the berth. Then place the filler cushion on the center cushion support to complete the conversion.

To convert the berth to a lounge seat, remove the center cushion, Then rotate each backrest cushion up to the desired angle. Ratchets in the backrest hinges will click at each available position.

Cabin Table (Optional)

A removable table is an available option. The table base and table are stowed in a compartment below the berth cushions when the dinette is converted to a berth or while the boat is underway. Special brackets secure the table base in the compartment.

The table mounts to a bracket on the lounge seat base. A spring loaded safety pin in the side of the mounting bracket secures the table base in the bracket and prevents it from working loose.

To use the table, remove the table and base from the storage compartment. Pull the safety pin in the side of the mounting bracket and insert the base firmly in the bracket, then release the pin and make sure it extends into the base to secure it to the bracket. Then install the table on the base.

To remove and store the table, remove the table from the base and set it on the lounge cushion. Pull the safety pin on the side of the table bracket and slide the base up and out of the bracket. Store the base in the brackets in the table storage compartment and put the table in the storage bag and place it in the compartment.

To avoid damage to the table and base, always make sure the table and base are removed and stowed whenever the boat is operating above slow speed. This is particularly important when the boat is being run offshore.



Lounge Seat Backrests Folded Down In Berth Position



Cabin Table



Table Base, Bracket & Safety Pin



Table Base & Table In Storage Compartment Below Berth

Interior Equipment

12.4 Air Conditioner

120 Volt AC Air Conditioner Operation

The optional 120 volt AC air conditioning unit is the reverse cycle type and operates on AC power. The unit is equipped with reverse cycle heat and can be operated as a cooling or heating unit. It is protected by circuit breakers in the AC breaker panel.

To operate the system, make sure the thru-hull valve for the air conditioner seawater supply pump is on. The valve, sea strainer and pump are located in the aft systems compartment bilge. Turn the HVAC Unit CABIN and HVAC Pump breakers in the electrical panel on. The air conditioning or heat then will be controlled by the electronic control panel in the cabin. When activated, water should continuously flow from the overboard discharge thru-hull.

The air conditioning system produces heat when it is operated in the reverse cycle mode. The ability of the unit to produce heat is affected by the temperature of the seawater. As the seawater temperature lowers, the air conditioner's ability to produce warm air decreases. When the seawater temperature drops below 40 - 45 degrees, the unit will not be able to produce heat. You should not operate the air conditioner to produce heat when the water temperature is below 40 degrees.

DC Air Conditioner Operation

The optional 12 volt DC air conditioning unit is activated and protected by the Air Conditioner main breaker in the mezzanine fuse and circuit breaker panel near the batteries. It draws 12 volt DC current from the house battery bank. The air conditioning unit draws a significant amount of current (approximately 30 amps) while operating. To avoid draining the house batteries when operating the system at dockside, make sure the 120 volt AC system is connected to shore power and the battery charger is activated to maintain the batteries.

When operating the system away from the dock, the voltage in the house battery bank must be monitored closely to avoid draining the batteries when the engines are not running. If the house batteries are in good condition and no other DC equipment is operating, the DC air conditioner can typically operate approximately 3 to 4 hours before the batteries become drained. If the stereo, cabin and/or cockpit lights, electronics or other



Air Conditioner Control Panel



Air Conditioner Location Below Removable Countertop



Typical Cabin Air Conditioning Unit & Condensation Pan Drain

DC electrical equipment is being used, the operating time available for the air conditioner will be significantly less.

While underway at cruise speed, the engine charging systems will provide enough current to maintain the batteries with the DC air conditioner operating. The engines will not provide enough current at idle or trolling speeds to maintain the batteries with the cabin air conditioner operating, particularly with the cockpit air conditioner, stereo and electronics activated.

To operate the system, make sure the seacock valve that supplies the air conditioner seawater pump is on. The pump, valve and sea strainer are located in the aft systems compartment bilge. Then activate the air conditioner with the electronic control panel in the cabin. When activated, water should continuously flow from the overboard drain thru-hull.

General Operation For Both AC and DC Cabin Air Conditioning Units

The air conditioner is located below the removable aft cabin countertop. It creates condensation that drips into the pan at the base of the unit. A hose attached to the pan drains the water to the cabin drain sump where it is pumped overboard. You should monitor the operation of the sump pump system and make sure it is operating properly whenever the cabin air conditioner is activated. The air conditioner can produce enough condensation to flood the bilge and activate the pumps if it is allowed to run for extended periods without the sump system operating properly.

It is normal for some water to be in the condensation pan whenever the air conditioner has been used. The pan should be checked periodically to make sure it is draining properly. The drain hoses, condensation pan and sump should be flushed clean if they become restricted by mold or debris.

Always keep the cabin door closed when operating the air conditioner. If the cabin door is left open, it could cause the air conditioner unit to run continuously and not cycle enough to defrost the condenser coils. This could cause the coils to develop enough ice to reduce the unit's ability to cool the boat.

A seawater pump supplies cooling water for the cabin air conditioning unit. The intake line for the seawater pump is equipped with a sea strainer that must be checked for debris frequently and cleaned as necessary. Refer to the Raw Water System chapter for information on the air conditioning pump and cleaning the sea strainer. You should also refer to the air conditioner owner's manual for additional operating and maintenance instructions.

Notice:

Air conditioners use seawater as a cooling medium. The boat must be in the water and the raw water supply system must be properly activated prior to use. Operation without proper cooling could cause the air conditioning unit to shut down and could cause system damage. Always check for proper water flow out of the air conditioning pump discharge thru-hull when the air conditioner is operating.



Cabin Woodwork

12.5 Cabin Woodwork

Cabin Floors

The cabin floor and steps are a simulated wood material with teak image and texture. It is important to avoid tracking sand and dirt on the cabin floor and steps. Sand and dirt acts like sand paper and will eventually damage the finish in the traffic areas.

The floors and steps can be vacuumed and cleaned with a mixture of water and Murphy's Oil Soap. Wipe dry with a clean towel.

Shower Seat and Grate

The shower seat and floor grate are teak. Always rinse soap residue from the seat and grate after each shower. Use a mixture of water and Murphy's Oil Soap or white vinegar and water to clean the wood and wipe it dry with a clean towel as needed. Periodically apply teak oil to add luster and help to preserve the wood.

Walls, Cabinets and Trim

The hardwood used for the cabinet trim moldings is finished with a high quality urethane varnish. The walls and cabinets are made of a laminated



Teak Shower Seat & Floor Grate

wood veneer. The walls, cabinets and molding can be routinely cleaned with a damp cloth. For heavy duty cleaning, use a mixture of water and Murphy's Oil Soap or white vinegar and water to clean the wood or laminate and wipe it dry with a clean towel. Apply a furniture polish to add luster and help to preserve the finish.

ROUTINE MAINTENANCE

13.1 Exterior Hull & Deck

Hull Cleaning-Below The Water Line

When the boat is removed from the water, clean the outer bottom surface immediately. Algae, grass, dirt and other marine growth is easier to remove while the hull is still wet. Use a pressure cleaner or a hard bristle brush to clean the surface.

Bottom Painting

If the boat is to be left in saltwater for extended periods, the hull must be protected from marine growth by antifouling paint. Because of variations in water temperature, marine growth and pollution in different regions, a qualified boat yard in your area should be consulted when deciding what bottom paint system to apply to your hull. This is extremely important as pollution and marine growth can damage fiberglass hulls.

Use only standard antifouling paints and fiberglass wax removers and primers recommended by the antifouling paint manufacturer when preparing the hull for bottom paint. Light sanding, just enough to scuff the gel coat or a skip sand primer system can be used to prepare the hull for bottom paint. The use of a coating other than standard antifouling paint or epoxy barrier coatings are not recommended and will void the hull blister warranty.

Do not allow the hull antifouling paint to contact the outboard motors. Most antifouling paints designed for hull bottoms contain copper and can cause severe galvanic corrosion damage to the motors. Always leave at least a 1" barrier between the hull bottom paint and outboard motors.

**CAUTION**

SANDBLASTING THE HULL BOTTOM WILL DAMAGE THE FIBERGLASS. USE A FIBERGLASS WAX REMOVER AND SAND TO SCUFF THE GELCOAT SURFACE. THE INSTRUCTIONS AND RECOMMENDATIONS OF THE BARRIER COATING AND ANTIFOULING PAINT MANUFACTURERS SHOULD BE FOLLOWED EXACTLY.

**CAUTION**

BARRIER COATINGS AND BOTTOM PAINT SHOULD BE APPLIED ONLY BY QUALIFIED MARINE PROFESSIONALS IN A BOAT YARD OR DEALERSHIP THAT SPECIALIZES IN THEIR APPLICATION. USE ONLY STANDARD, HIGH QUALITY ANTIFOULING PAINTS AND BARRIER COATINGS FROM NAME BRAND MANUFACTURERS SUCH AS INTERLUX AND PETTIT.

DO NOT ALLOW THE HULL ANTIFOULING PAINT TO CONTACT THE OUTBOARD MOTORS. MOST ANTIFOULING PAINTS DESIGNED FOR HULL BOTTOMS CONTAIN COPPER AND CAN CAUSE SEVERE GALVANIC CORROSION DAMAGE TO THE OUTBOARD DRIVE UNIT. USE ONLY ANTIFOULING PAINT DESIGNED FOR OUTBOARD MOTORS IF APPLYING ANTIFOULING PAINT TO THE ENGINES. ALWAYS LEAVE A ONE INCH BARRIER BETWEEN THE HULL BOTTOM PAINT AND OUTBOARD MOTOR.

Most bottom paints require some maintenance. Proper maintenance is especially important when the boat is in saltwater and not used for extended periods or after dry storage. If the hull bottom has been painted with antifouling paint, contact your dealer or local boat yard for the recommended maintenance procedures.

Anodes

Sacrificial anodes are installed on the outboard motors, engine clamp brackets and could be installed on the trim tabs. Your boat is equipped with a large anode on the transom that is connected to the bonding system. The transom anode provides additional protection against galvanic corrosion for the engines, thru-hull fittings and other underwater hardware that is bonded.



Typical Transom Anode

Routine Maintenance

Anodes are less noble than copper based alloys, stainless steel and aluminum. They will deteriorate first, protecting the more noble underwater hardware against galvanic corrosion. They must be monitored if the boat is to be left in the water. Anodes should be checked monthly and changed when they are 75% of their original size. When replacing the anodes, make sure the contact surfaces are clean, shiny metal and free of paint and corrosion. Never paint over the anode.

Boats stored in saltwater will normally need to have the anodes replaced every 6 months to one year. Anodes requiring replacement more frequently may indicate a stray current problem within the boat or at the slip or marina. Anodes that do not need to be replaced after one year may not be providing proper protection. Loose or low quality anodes could be the problem. Contact your dealer or Everglades Customer Service for the proper size and type of anodes to be used and the specific installation procedure.

Fiberglass Gel coat

Normal maintenance requires only washing with mild soap and water. A stiff brush can be used on the nonskid areas. Kerosene or commercially prepared products will remove oil and tar which could be a problem on trailered boats. Harsh abrasive and chemical cleaners are not recommended because they can damage or dull the gel coat, reducing its life and making it more susceptible to stains. When the boat is used in saltwater, it should be washed thoroughly with soap and water after each use.

At least once a season, wash and wax all exposed fiberglass surfaces. Use a high quality automotive or boat wax. Follow the procedure recommended by the wax manufacturer. The washing and waxing of your boat will have the same beneficial effects as they have on an automobile finish. The wax will fill minute scratches and pores thus helping to prevent soiling and will extend the life of the gel coat or paint.

After the boat is exposed to the direct sunlight for a period of time, the gel coat or painted surfaces tend to fade, dull or chalk. A heavier buffing is required to bring the finish back to its original luster. For power cleaning use a light cleaner. To clean the boat by hand, use a heavier automotive cleaner. Before cleaning the surfaces, read the instructions given with the cleaner. After cleaning the surfaces, apply wax and polish all fiberglass surfaces except the nonskid areas.

Avoid the following on gelcoat surfaces:

- Do not use plastic or other nonporous (non-breathable) materials to cover gelcoat surfaces. Trapped moisture from condensation can cause gelcoat damage. Shrink wrap storage covers must be properly ventilated, including hull sides.
- Do not use abrasives, bleaches, ammonia, acids or harsh detergents. See your dealer for special marine formulations. Harsh abrasive and chemical cleaners are not recommended because they can damage or dull the gelcoat, reducing its life and making it more susceptible to stains.
- NEVER apply wax or buffing compound to a gelcoat surface in direct sunlight.

Chalking, stains and minor scratches can be removed in most cases with careful rubbing and polishing with appropriate compounds or chemicals and is best done by a professional - see your dealer.

If the fiberglass should become damaged and need repair, contact your dealer or Everglades Customer Service for assistance in finding an authorized repair person to make the repairs.



CAUTION



DO NOT WAX NONSKID AREAS AS THIS COULD MAKE THEM SLIPPERY AND CONSEQUENTLY INCREASE THE POSSIBILITY OF INJURY.

Stainless Steel Hardware

When using the boat in saltwater, the hardware should be washed with soap and water after each use. When your boat is used in a corrosive environment such as saltwater, water with a high sulfur content or polluted water, the stainless steel will periodically develop surface rust stains. This is perfectly normal under these conditions.

The following guidelines will help keep stainless steel looking good for many years.

- Clean stainless steel frequently (daily in salt or polluted environments) with mild soap and plenty of water. Any cleaner safe for use on glass is usually safe for stainless.

Routine Maintenance

- Remove rust spots (especially around welds) immediately with a brass, silver or chrome cleaner. Irreversible pitting will develop under rust allowed to remain on stainless for any period of time.
- Remove rust stains on gelcoat. See dealer for recommended product.
- Stainless Steel can normally be cleaned and protected by using a high quality boat or automotive wax or a commercial metal cleaner and protectant.

Never do the following on Stainless Steel.

- Do not use coarse abrasives like sandpaper or steel wool which may actually cause rusting.
- Do not use acids or bleaches which may etch the naturally occurring protective coating.
- Do not leave stainless steel in contact with iron, steel or other metals which cause contamination leading to rust or corrosion.

**CAUTION**

UNDER NO CIRCUMSTANCES SHOULD ANY ABRASIVE MATERIALS SUCH AS SANDPAPER, BRONZE WOOL OR STEEL WOOL BE USED ON STAINLESS STEEL. DAMAGE TO THE HARDWARE WILL RESULT.

Anodized Aluminum Surfaces

Anodized aluminum should be washed periodically with soap and water to keep it clean. If the boat is used in saltwater or polluted water, the aluminum should be washed with soap and water after each use. Saltwater allowed to remain on anodized aluminum will penetrate the anodized coating and attack the aluminum.

Hardtops, bimini tops or T-tops with canvas and/or fiberglass tops require special attention to the anodized aluminum just below the top. This area is subject to salt build up from salty condensation and sea spray. It is also frequently overlooked when the boat is washed and will not be rinsed by the rain. Consequently, the aluminum just below the top is more likely to become pitted than the exposed aluminum on the structure. Make sure the aluminum in this area is washed frequently with soap and water and rinsed thoroughly. Pay particular attention to places where the top material or lacing contact the frame. Once a month coat the entire frame with a metal protector made for

anodized aluminum to protect against pitting and corrosion caused by the harsh effects of saltwater. Do not use automotive or boat wax designed for paint or gel coat on anodized aluminum. The wax can contaminate the aluminum and damage the anodized surface.

**CAUTION**

ONE DRAWBACK TO METAL PROTECTORS IS THAT THEY CAN MAKE THE METAL SLIPPERY. THEREFORE, THEY SHOULD BE NOT BE USED ON TOWER LADDERS, STEERING WHEELS AND OTHER AREAS WHERE A GOOD GRIP AND SURE FOOTING IS IMPORTANT.

Stains can be removed with a metal polish or fine polishing compound. To minimize corrosion, use only high quality stainless steel fasteners on aluminum fabrications. Isolate the fasteners from the aluminum by using fiber washers and caulking compound or Tef Gel to bed hardware and fasteners mounted to aluminum fabrications. If the anodized coating is badly scratched, it will require special attention and more frequent cleaning to the damaged area. With proper care, anodized aluminum will provide many years of service.

Powder Coated Aluminum

Powder coated aluminum should be washed periodically with soap and water to keep it clean. If the boat is used in saltwater or polluted water, the aluminum should be washed with soap and water after each use. Saltwater allowed to remain on powder coated aluminum will penetrate the coating and attack the aluminum, usually around fasteners and hardware mounted to the aluminum.

Pay special attention to the area just below the top. This area is subject to salt buildup from salty condensation and sea spray. It is also frequently overlooked when the boat is washed and will not be rinsed by the rain. Consequently, the powder coating near fasteners and hardware mounted just below the top is more likely to be attacked by the salt and become corroded than the exposed areas on the structure. Make sure the aluminum in this area is washed frequently with soap and water and rinsed thoroughly. Pay particular attention to places where the top material or lacing contact the frame.

Once a month check the entire frame for damaged powder coating and corrosion around fasteners and hardware. Nicked or badly scratched powder coating can be sanded and touched up with enamel

Routine Maintenance

paint. Corrosion will have to be sanded, then touched up with paint. Periodically applying automotive or boat wax to the powder coating will provide additional protection from the harsh effects of saltwater.

We recommend that you do not drill into or install any hardware to the aluminum frame. Poor maintenance or hardware and snaps mounted to the fabrication can void the warranty on powder coated frames. If you do install hardware to the frame, the fasteners will require fiber washers and sealing with caulk or Tef Gel to isolate the fastener from the aluminum and reduce damage to the powder coating when the fastener is installed.

Always repair scratches, nicks and corroded areas in powder coating as soon as possible. Corrosion left unaddressed will lift the powder coating allowing moisture to travel between the powder coating and the aluminum causing the corrosion to spread below the coating and damage the aluminum.

If excessive chipping and peeling occurs, it could be an indication of an electrical fault in the boat or aluminum fabrication. You should contact a qualified marine electrician to inspect your boat immediately and correct the problem if you suspect that your boat may have a fault in the aluminum frame. You should also contact your dealer or Everglades Customer Service.

Notice:

Boats that are towed behind larger vessels require special attention to the aluminum hardware. The salt spray, salty steam and chemicals in exhaust gases are particularly corrosive and will damage the surface of anodized or powder coated aluminum. It is imperative that the boat and the aluminum are cleaned thoroughly at the completion of each trip or at the end of each day on long cruises to reduce accelerated deterioration of the anodizing or powder coating and premature corrosion to the aluminum.

Notice:

You should contact Everglades Customer Service before making any modifications to aluminum fabrications. Unauthorized modifications can void the warranty.

Chrome Hardware

Use a good chrome cleaner and polish on all chrome hardware.

Acrylic Plastic Glass

Acrylic glass scratches easily. Never use a dry cloth or glass cleaning solutions on acrylic. Use a soft cloth and mild soap and water for routine cleaning. Solvents and products containing ammonia can permanently damage acrylic plastic glass.

Fine scratches can be removed with a fine automotive clear coat polishing compound. A coat of automotive or boat wax is beneficial to protect the surface.

Do not use the following on acrylic glass:

Abrasive cleaners	Acetone
Solvents	Alcohol
Cleaners containing ammonia	Glass cleaners

13.2 Upholstery, Canvas & Enclosures Vinyl Upholstery

The vinyl upholstery used on the seats, cushions, bolsters and for the headliner in some cabins, should be cleaned periodically with mild soap and water. Any stain, spill or soiling should be cleaned up promptly to prevent the possibility of permanent staining. When cleaning, always rub gently. Avoid using products containing ammonia, powdered abrasive cleaners, steel wool, ink, strong solvents, acetone and lacquer solvents or other harsh chemicals as they can cause permanent damage or shorten the life of vinyl. Never use steam heat, heat guns or hair dryers on vinyl.

Stronger cleaners, detergents and solvents may be effective in stain removal, but can cause either immediate damage or slow deterioration. Lotions, sun tan oil, waxes and polishes, etc., contain oils and dyes that can cause stiffening and staining of vinyls.

- Dry soil, dust and dirt - Remove with a soft cloth.
- Dried on dirt - Wash with a soft cloth dampened with water.
- Variations in surface gloss - Wipe with a water dampened soft cloth and allow to air dry.
- Stubborn dirt - Wash with a soft cloth dampened with Ivory Flakes® and water. Rinse with clean water.
- Stubborn spots and stains - Spray with either Fantastik Cleaner® or Tannery Car Care Cleaner® and rub with a soft cloth. Rinse with clean water.

Routine Maintenance

- Liquid spills - Wipe immediately with a clean absorbent cloth. Rinse with clean water.
- Food grease and oily stains - Spray immediately using either Fantastik Cleaner® or Tannery Car Care Cleaner®, wiping with a soft cloth. Take care not to extend the area of contamination beyond its original boundary. Rinse with clean water.

Acrylic Canvas (Sunbrella)

Modern, bright colored canvas tops are usually fabricated from acrylic fabrics with the trade names like Sunbrella®, Argonaut®, etc. Acrylic fabrics look similar to cotton canvas but are much more durable and color fast.

Acrylic canvas can be cleaned by using Ivory Flakes, Ivory Liquid or another mild soap and water. Scrub lightly and rinse thoroughly to remove the soap. Do not use detergents, as they will deteriorate the waterproofing in the fabric. The underside can be brushed with a soft brush and sprayed with a disinfectant to prevent the accumulation of dirt and mildew. The top or accessories should never be folded or stored wet.

In fresh water areas, the top and curtains should be washed weekly. This is particularly important if the boat is stored near a highway, airport or in a large city. Residue from jet fuel, exhaust fumes and industrial pollution can shorten the life of tops and enclosures.

In saltwater areas, the top and curtains should be rinsed with fresh water after each use and at least weekly if it is stored outside. Saltwater attracts moisture and dirt can shorten the life of fabric tops and enclosures. The salt is also abrasive and can cause premature wear in the fabric and stitching.

After several years, the acrylic canvas may lose some of its ability to shed water. If this occurs, wash the fabric and let it dry thoroughly. Then treat the outside surface with a commercially available waterproofing designed for this purpose. Waterproofing is available in bulk at most canvas shops. One-gallon garden sprayers are excellent for applying waterproofing.

Notice:

Some leakage at the seams is normal and unavoidable with acrylic enclosures.

Laminated Vinyl

Laminated vinyl top material is a lamination of two plies of specially formulated vinyl with an inner reinforcing core fabric. The most common trade names for this fabric is Weblon® or Stamoid®. It is not unusual for the interior ply to be a different color than the exterior. There is a greater tendency for this type of fabric to leak at the seams than with acrylic or vinyl coated polyester. Paraffin wax that matches the top can be used to seal the seams if necessary.

Laminated vinyl fabrics should be cleaned periodically by using Ivory Flakes, Ivory Liquid or another mild soap and water. Scrub lightly and rinse thoroughly to remove the soap. Do not use detergents or harsh cleaners like bleach and ammonia. They will attack the vinyl in the fabric and shorten its life. The top or accessories should never be folded or stored wet.

In fresh water areas, the top and curtains should be washed weekly. This is particularly important if the boat is stored near a highway, airport or in a large city. Residue from jet fuel, exhaust fumes and industrial pollution can shorten the life of tops and enclosures.

In saltwater areas, the top and curtains should be rinsed with fresh water after each use and at least weekly if it is stored outside. Saltwater attracts moisture and dirt which can shorten the life of fabric tops and enclosures. The salt is also abrasive and can cause premature wear in the stitching.

Clear Curtains and Connectors

Side curtains and clear connectors can be cleaned with mild soap and water. They should not be allowed to become badly soiled. Dirt, oil, mildew and cleaning agents containing ammonia, will shorten the life of the vinyl that is used for clear curtains. After cleaning the curtains and allowing them to dry, apply a non-lemon furniture polish or an acrylic glass and clear plastic protector to extend the life of the curtains.

Vinyl curtains should be stored either rolled or flat, without folds or creases. Folding the curtains will make permanent creases that could cause the vinyl to crack.

Notice:

Do not use any polish containing lemon scents or lemon. The lemon juice will attack the vinyl and shorten its life.

Routine Maintenance

Snaps should be lubricated periodically with Teflon or silicone grease or a lubricant designed for snaps. Zippers should be lubricated with silicone spray, paraffin or silicone stick.

Strataglass

Strataglass® is a special coated vinyl that could be used in the curtains for the hardtop enclosure. The coating protects the vinyl glass and resists scratching. Waxes and Plexiglas polishing compounds should not be used on strataglass as the protective coating prevents them from penetrating into the vinyl and they will build up on the surface. These products will create a hazy, greasy appearance that will affect the clarity of the strataglass. Products that repel water, like Rainex®, should not be used as they will not take well to the surface and could appear spotty and may also yellow or dull the Strataglass over time.

Strataglass can be cleaned by rinsing off dirt or salt deposits with fresh water, then washing with a clean cloth and mild soap. Chamois dry to remove water spots and improve clarity. If a polish is accidentally used, use Windex® or its equivalent to remove it. While window cleaners will destroy the standard vinyl normally used in side curtains and clear connectors, it will not harm strataglass. Always roll down the curtains and snap in place at the end of each day so the curtains will maintain their shape and to minimize fold distortions.

Depending upon usage, it is recommended that an occasional application of Aquatech Strataglass Cleaner be done. Treat this like a polish, as opposed to a cleaner - wash and dry curtains first, then apply Aquatech Strataglass Cleaner, actually buffing the surface to a beautiful sheen. This is not just a wipe on/ wipe off product...it needs to be buffed to perform.

Remember, the coating on strataglass is scratch resistant and not scratch proof. Always handle the curtains with care and never roll up curtains that are salty or dirty. If you have any questions about the clear curtains used on your boat, please contact your dealer or Everglades Customer Service.

Notice:

Hardtop enclosures must be removed when trailering. Canvas enclosures are not designed to withstand the extreme wind pressure encountered while trailering and will be damaged. Always remove and properly store the enclosure before trailering your boat.

13.3 Interior

The cabin or head interior can be cleaned just like you would clean a home interior. To preserve woodwork, furniture polish. To maintain carpeting, use a vacuum cleaner. Because air and sunlight are very good cleansers, periodically put cushions, sleeping bags, etc. on deck, in the sun and fresh air, to dry and air out. If cushions or equipment get wet with saltwater, remove and use clean, fresh water to rinse off the salt crystals. Salt retains moisture and will cause damage. Dry thoroughly and reinstall.

Vinyl headliner material should be cleaned periodically as explained in the previous section. Avoid using products containing ammonia, bleach or harsh chemicals as they can shorten the life of vinyl. Fiberglass headliners should be wiped down with a damp towel as necessary to remove dust and dirt.

If you leave the boat for a long period of time, put all cushions on their sides, open all interior cabin and locker doors and hang a commercially available mildew protector in the cabin.

Notice:

Always read the label carefully on mildew protectors. Remove the protector and allow the cabin to ventilate completely before using the cabin.

Counter Tops - Faux Granite

A mild liquid detergent and water or disinfectant cleaners will remove most dirt and stains from Faux Granite. Rinse with a clean cloth moistened with fresh water. Wipe dry with a clean cloth.

Never use granite cleaners, bleaches, ammonia, household cleaners, polishes or scouring pads. Harsh cleaners and scouring pads will damage the polymer surface of Faux Granite.

In most cases, Faux Granite can be repaired if accidentally damaged. Small scratches that do not penetrate the coating can be repaired using an automotive buffing compound. Deep scratches and heavy damage require a professional repair. Contact your dealer or a counter top repair professional for assistance in repairing deep scratches or other damage on your counter tops.

Interior Woodwork

Oiled and varnished woodwork or laminated, simulated wood can be cleaned with a damp cloth. For heavy duty cleaning, use a mixture of water and Murphy's Oil Soap or a solution of 10% white vinegar and water to clean the wood and wipe it dry with a clean towel. Apply a furniture polish to add luster and help to preserve the finish.

13.4 Engines & Fuel

Proper engine maintenance is essential to the proper performance and reliability of your outboard engines. Maintenance schedules and procedures are outlined in your engine owner's manual. They should be followed exactly.

If the boat is used in saltwater, flush the cooling systems after each daily use. To flush the systems when the boat is out of the water, follow the procedure outlined in your engine owner's manual. Proper engine operation requires a good supply of clean, dry fuel. Improper marina fuel storage techniques, limited boat usage, etc. can cause the fuel to become contaminated.

The age of fuel can affect engine performance. Chemical changes occur as the fuel ages that can cause deposits and reduce the octane rating of the fuel. Severely degraded fuel can damage the engines and boat fuel tank and lines. Therefore, if your boat is not being run enough to require at least one full tank of fresh fuel a month, a fuel additive should be added to protect it from degradation. Your dealer or the engine manufacturer can provide additional information on fuel degradation and fuel stabilizers recommended for your engine.

In many states, most gasoline is blended with ethanol alcohol. Ethanol is a strong solvent and can absorb water during periods of storage. You should refer to the engine operating manual for information regarding alcohol blended fuels and how it affects the operation of your marine engine.

13.5 Bilge, Pumps & Components

To keep the bilge clean and fresh, it is recommended that you use a commercial bilge cleaner on a regular basis. Follow the directions carefully. All exposed pumps and metal components in the bilge should be sprayed periodically with a protector to reduce the corrosive effects of the high humidity always present in these areas.

Periodically check the bilge pumps and alarms for proper operation and clean debris from the strainers and automatic switches. Inspect all hoses, clamps and thru-hulls for leaks and tightness on a regular basis. Open and close all thru-hull valves at least once a month to keep them operating properly.

Frequently test the automatic switches for the bilge pumps and alarms for proper operation. Test the bilge pump automatic switches by using a garden hose to flood the bilge until the water level is high enough to activate the pumps. Test the high water alarm switch by simultaneously holding your fingers on the two recesses on the side of the switch until the alarm is activated.

13.6 Generator

The optional generator engine incorporates a pressure-type lubrication system and a fresh water cooled engine block which is thermostatically controlled. It requires regular oil changes as recommended by the manufacturer. The fuel filters should be changed at the same interval as the outboard engine filters.

The seawater cooling system on the generator is equipped with a sacrificial anode to protect cooling system components from galvanic corrosion. The anode should be inspected when the generator is serviced and replaced when it is 75% of its original size or at least once each year.

The most important factors to the generator's longevity are proper ventilation and maintenance of the fuel system, ignition system, cooling system, lubrication system and the AC alternator.

Maintenance schedules and procedures are outlined in your generator owner's manual. They should be followed exactly.

Notice:

The generator charges the house batteries just enough to compensate for the DC electrical current the engine requires to operate. Therefore, it is important to activate the battery charger to maintain the house and engine batteries whenever the generator is running.

13.7 Drainage System

It is essential that the following items be done periodically to maintain proper drainage of your boat:

- Clean the cockpit drains with a hose to remove debris that can block water drainage.
- Clean the hardtop leg drain holes. This is especially important just before winter lay-up.
- Flush all gravity drains with fresh water to keep them clean and free flowing.
- Clean and inspect the shower and cabin drain sump system. Remove accumulated debris and flush with fresh water. Frequently test the automatic pump switch for proper operation.
- Flush air conditioner condensation pans and drain hoses with fresh water at least once each season to remove mold and debris. This is particularly important because mold tends to accumulate in the condensation pan drain and, if it is not cleaned regularly, the drain can clog and flood the cabin or cockpit sole when the air conditioner is operating.
- Clean and flush the fishbox, baitwells, coolers and storage boxes with soap or a bilge cleaner and fresh water after each use to keep them clean and fresh.
- Operate the thru-hull valves once a month and service as required.
- Run all overboard pumps briefly at least once a month to keep them operating properly.

Notice:

All drains and pumps must be properly winterized before winter lay-up.

SEASONAL MAINTENANCE

14.1 Storage & Lay-up

Before Hauling:

- Pump out the head holding tank. Flush the holding tank using clean water, soap and a deodorizer. Pump out the cleaning solution.
- The fuel tank should be left nearly full to reduce condensation that can accumulate in the tank. Allow enough room in each tank for the fuel to expand without leaking out the vents. Moisture from condensation in the fuel tank can reach such concentrations that it becomes heavy enough to settle out of the fuel to the bottom of the tank. Since fuel pickup tubes are located near the bottom of the tank, this accumulated moisture can cause the engines to run poorly or not at all after extended storage.

Chemical changes also occur as the gasoline ages that can cause deposits and varnish in the fuel system as well as reduce the octane rating of the fuel. Severely degraded fuel can damage the engines and boat fuel tank and lines. Therefore, if your boat is not being run enough to require at least one full tank of fresh fuel a month or during winter storage, a fuel stabilizer should be added to the gasoline to help protect

the fuel system from these problems. Operate the boat for at least 15 minutes after adding the stabilizer to allow the treated fuel to reach the engines. Your dealer or the engine manufacturer can provide additional information on fuel degradation and fuel stabilizers recommended for your engines. For more recommendations for your specific area, check with your local Everglades dealer.

- Drain water from the fresh water system.
- Consult the engine owner's manual for detailed information on preparing the engines for storage.

Lifting

It is essential that care be used when lifting your boat. Make sure the spreader bar at each sling is at least as long as the distance across the widest point of the boat that the sling will surround. Put the slings in position. Sling labels on the gunnels just above the rubrail identify the correct position for the lifting slings. The fore and aft slings should be tied together to prevent the slings from sliding on the hull.



Sling Locations



CAUTION



BOATS CAN BE DAMAGED FROM IMPROPER LIFTING AND TRANSPORTING WITH FORK LIFTS. CARE AND CAUTION MUST BE EXERCISED WHEN TRANSPORTING A BOAT WITH A FORK LIFT. NEVER HOIST THE BOAT WITH A SUBSTANTIAL AMOUNT OF WATER IN THE BILGE.

SEVERE GEL COAT CRACKING OR MORE SERIOUS HULL DAMAGE CAN OCCUR DURING HAULING AND LAUNCHING IF PRESSURE IS CREATED ON THE GUNWALES (SHEER) BY THE SLINGS. FLAT, WIDE BELTING SLINGS AND SPREADERS LONG ENOUGH TO KEEP PRESSURE FROM THE GUNWALES ARE ESSENTIAL. DO NOT ALLOW ANYONE TO HAUL YOUR BOAT WHEN THE SPREADERS ON THE LIFT ARE NOT WIDE ENOUGH TO TAKE THE PRESSURE OFF THE GUNWALES.

Supporting The Boat For Storage

A trailer, elevating lift, well-made cradle or proper blocking is the best support for your boat during storage.

When storing the boat on a trailer for a long period:

- Make sure the trailer is large enough to properly support your boat and that it is rated to support the weight.
- Make sure the trailer is on a level surface and the bow is high enough so that water will drain from the bilge and cockpit.
- Make sure the engines are in the down position.
- The trailer must properly support the hull. The bunks and rollers should match the bottom of the hull and should not be putting pressure on the lifting strakes.
- Make sure the hitch is properly supported.
- Check the tires once each season. Add enough air for the correct amount of inflation for the tires as necessary.

Notice:

Read the owner's manual for the trailer for the correct amount of inflation for the tires.

When storing the boat on a lift or cradle:

- The cradle must be specifically for boat storage.
- Make sure the cradle or lift is well supported with the bow high enough to provide proper drainage of the bilge and cockpit.
- Make sure the engines are in the down position.

- The cradle or lift must be in the proper fore and aft position to properly support the hull. When the cradle or lift is in the correct location, the bunks should match the bottom of hull and should not be putting pressure on the lifting strakes.



CAUTION



BOATS HAVE BEEN DAMAGED BY TRAILERS, LIFTS AND CRADLES THAT DON'T PROPERLY SUPPORT THE HULL. ALWAYS MAKE SURE THE BUNKS AND ROLLERS ARE ADJUSTED SO THEY ARE NOT PUTTING PRESSURE ON THE LIFTING STRAKES AND ARE PROVIDING ENOUGH SUPPORT FOR THE HULL. HULL DAMAGE RESULTING FROM IMPROPER CRADLE OR TRAILER SUPPORT IS NOT COVERED BY THE EVERGLADES WARRANTY.

When supporting the boat with blocking:

- Make sure the boat is blocked on a level surface and the bow is high enough so that water will drain from the bilge and cockpit.
- Make sure the keel is supported with large, solid wood blocks in at least three points.
- Use at least three heavy duty jacks on each side of the hull and make sure the boat is level from side to side. The jacks must be on a solid surface like packed gravel, concrete or pavement. All of the supports must be set up properly to prevent the boat from shifting while it is in storage.

Preparing The Boat For Storage:

- Remove the bilge drain plug, if installed.
- Thoroughly wash the fiberglass exterior, especially the antifouling portion of the bottom. Remove as much marine growth as possible. Lightly wax the exterior fiberglass components.
- Remove all oxidation from the exterior hardware and apply a light film of moisture displacing lubricant, wax or a metal protector.
- Remove propellers and grease the propeller shafts using light waterproof grease.
- Remove the batteries and store in a cool place. Clean using clear, clean water. Be sure the batteries have sufficient water and clean terminals. Keep the batteries charged and safe from freezing throughout the storage period.

Notice:

Refer to the Electrical System chapter, for information on the maintenance of the AC and DC electrical systems.

- Coat all faucets and exposed electrical components in the cabin and cockpit with a protecting oil.
- Clean out, totally drain and completely dry the fish boxes, coolers, sinks and baitwells.
- Thoroughly clean the interior of the boat. Vacuum all carpets and dry clean drapes and upholstery.
- Remove cushions and open as many locker doors as possible. Leaving as many of these areas open as possible will improve the boat's ventilation during the storage period.

Notice:

It is recommended that a mildew preventer be hung in the cabin before it is closed for storage.

- Clean the exterior upholstery with a good vinyl cleaner and dry thoroughly. Spray the weather covers and boat upholstery with a spray disinfectant. Enclosed areas such as the shower basin, storage locker areas, etc. should also be sprayed with this disinfectant.

14.2 Winterizing Fresh Water System

The entire fresh water system must be completely drained. Disconnect all hoses, check valves, etc. and blow all the water from the system. Make sure the optional water heater, filters and fresh water tank are completely drained. Use only very low air pressure when doing this to prevent possible system damage. Because of the check valve mechanism built in the pump, blowing the lines will not remove the water from the fresh water pump. Remove the inlet and outlet hoses on the pump. Turn the pump on and allow it to pump out any remaining water....about a cupful.

A recommended alternative to the above-mentioned procedure is the use of commercially available non toxic, fresh water system antifreeze. After draining the fresh water tank, lines, filters and water heater, pour the antifreeze mixture into the fresh water tank, prime and operate the pump until the mixture flows from all fresh water faucets. Be sure to open all hot and cold water faucets,

including the toilet and fresh water sink in the head compartment, aft cockpit shower, cockpit washdown hose and the faucet in the optional mezzanine sink. Make sure antifreeze has flowed through all of the fresh water drains.

The cabin shower/head compartment sole drain system must be properly winterized. Clean debris from the drain and sump and flush for several minutes with fresh clean water. After the system is clean, pump the drain sump as dry as possible. Then pour a potable water antifreeze mixture into the drain until antifreeze has been pumped through the entire system and out of the thru-hull.

For additional information refer to the Fresh Water System and Drainage System chapters.

Raw Water System

Completely drain the raw water systems including the sea strainers in the aft systems compartment bilge. Disconnect all hoses and blow the water from the system. Use only very low air pressure when doing this to prevent possible system damage. Because of the check valve mechanism built in the raw water washdown pump, blowing the lines will not remove the water from the raw water pump. Remove the inlet and outlet hoses on the pump. Turn the pump on and allow it to pump out any remaining water....about a cupful.

A recommended alternative to the above-mentioned procedure is the use of commercially available nontoxic, potable water system antifreeze. If potable water antifreeze is used, pour the mixture into a pail and put the raw water intake lines into the solution. Run the pumps one at a time until the antifreeze solution is visible at all raw water washdown hoses and connectors and discharge fittings and drains. Be sure antifreeze has flowed through all of the raw water drains.

Make sure all the water is removed from the fishboxes, coolers and baitwells. Also make sure the drains are clear and free flowing.

Refer to the Raw Water System chapter for additional information on the raw water system.

Marine Toilet

The marine toilet must be properly winterized by following the manufacturer's winterizing instructions in the marine toilet owner's manual. Drain the intake and discharge hoses completely using low air pressure if necessary. The head holding tank and overboard discharge pump must

Seasonal Maintenance

be pumped dry and one or two gallons of potable water antifreeze poured into the tank through the deck waste pump out fitting. After antifreeze has been added to the holding tank, open the overboard discharge valve and activate the overboard macerator pump until the antifreeze solution is visible at the discharge thru-hull.

Notice:

Make sure you follow the marine toilet manufacturer's winterizing instructions exactly.

Bilge

Coat all metal components, wire busses and connector plugs in the bilge with a protecting oil. It is also important to protect all strainers, seacocks, valves and steering components. The bilge pumps and bilge pump lines must be completely free of water and dried out when the boat is laid-up for the winter in climates where freezing occurs. Compartments in the bilge that will not drain completely should be pumped out and then sponged until completely free of water. Dry the hull bilge and self-bailing cockpit troughs. Water freezing in these areas could cause damage.

Cabin Drain Sump System

The drain sump system must be properly winterized. Clean debris from the drain and sump and flush for several minutes with fresh clean water. After the system is clean, pump the drain sump as dry as possible. Then pour a potable water antifreeze mixture into the air conditioning condensation pan until antifreeze has been pumped through the entire system and out of the thru-hull. The air conditioning system, fresh water shower and cabin sink drains share the same sump system.

Air Conditioners

Disconnect and drain the seawater pump intake and discharge hoses. Remove all water from the sea strainer and thru-hull fitting. Blow the water from the system. Use only very low air pressure when doing this to prevent possible system damage.

The air conditioner components must be properly winterized by following winterizing procedure in the manufacturer's owner's manual.

Notice:

The air conditioning, refrigerator/freezer, marine head and steering systems have specific lay up requirements. Refer to their owner's manuals for recommended winterizing procedures.

SeaKeeper Raw Water Cooling System.

The optional SeaKeeper stabilization system has specific lay up and winterizing procedures. Refer to the SeaKeeper manual and/or contact your Everglades dealer for recommended winterizing procedures.

Generator Raw Water System (Optional)

Drain the sea strainer, heat exchanger and raw water supply and discharge lines for the generator seawater supply pump. Make sure all seawater has drained from the exhaust system. The generator muffler has a drain plug that must be removed to properly drain the muffler. Once this is accomplished, pour a non toxic marine engine antifreeze mixture into a large pail and put the seawater intake line into the solution. Run the generator until the antifreeze solution is visible at the exhaust port, then shut the engine off. You should refer to the generator owner's manual or contact your dealer for specific instructions on winterizing your generator.

Notice:

Properly winterize the engines, generator and fuel system by following the engine manufacturer's winterizing procedures located in your engine owner's manuals or contact an Everglades dealer.

Outboard Engines

The engines should be flushed with fresh water for at least 15 minutes prior to winter storage. This will remove salt, sand and other contaminants that can damage the engine. It is also important to "Fog" the cylinders, change the gear oil and change the oil. Coat each engine with a protector, wax the exterior and properly store and charge the batteries. You should refer to the engine owner's manual or contact your dealer for specific instructions on winterizing your engines.

Notice:

Properly winterize the engines and fuel system by following the engine manufacturer's winterizing procedures located in your engine owner's manuals or contact an Everglades dealer.

Hardtop

It is imperative that all drain holes in the legs are open and that the legs are completely free of water. Remove the canvas and thoroughly clean and store in a safe, dry place. Remove all electronics. Coat all wire connectors and bus bars in the helm compartment with a protecting oil.

Seasonal Maintenance

Clean the aluminum frame with soap and water and dry thoroughly. Apply an aluminum metal protector to the entire frame on anodized aluminum to reduce corrosion and pitting. Apply an automotive or boat wax to powder coated aluminum to protect it during storage periods.

Special Notes Prior To Winter Storage

If the boat will be in outside storage, properly support a storage cover and secure it over the boat. It is best to have a frame built over the boat to support the canvas. It should be a few inches wider than the boat so the canvas will clear the rails and allow passage of air. If this cover is fastened too tightly there will be inadequate ventilation and this can lead to mildew, moisture accumulation, etc. It is essential to fasten the canvas down securely so that the wind cannot remove it or cause chafing of the hull superstructure. Do not store the boat in a damp storage enclosure. Excessive dampness can cause electrical problems, corrosion and excessive mildew.

Whenever possible, do not use the weather enclosure or sunshade in place of the winter storage cover. The life of these canvases may be

significantly shortened if exposed to harsh weather elements for long periods.



CAUTION



PLACING AN ELECTRIC OR FUEL BURNING HEATING UNIT IN THE BILGE AREA CAN BE POTENTIALLY HAZARDOUS AND IS NOT RECOMMENDED.

Proper storage is very important to prevent serious damage to the boat. If the boat is to be stored indoors, make sure the building has enough ventilation. It is very important that there is enough ventilation both inside the boat and around the boat.

Notice:

If the boat is to be stored indoors or outdoors, open all interior drawers, clothes lockers, cabinets and doors a little. If possible, remove the upholstery, mattresses, clothing and rugs. Then hang a commercially available mildew protector in the interior compartments.

14.3 Recommissioning



WARNING



DO NOT OPERATE THE BOAT UNLESS IT IS COMPLETELY ASSEMBLED. KEEP ALL FASTENERS TIGHT. KEEP ADJUSTMENTS ACCORDING TO SPECIFICATIONS.

Notice:

It is important and recommended that the fitting out procedure for the marine gear be done by a qualified service person. Read the engine owner's manual for the recommended procedure.



CAUTION



BEFORE LAUNCHING THE BOAT, MAKE SURE THE HULL DRAIN PLUG IS INSTALLED.



WARNING



IF YOUR BOAT IS EQUIPPED WITH A GENERATOR, MAKE SURE THE MUFFLER HAS NOT BEEN DAMAGED DURING WINTER STORAGE AND THAT THE DRAIN PLUG IS INSTALLED AND PROPERLY TIGHTENED. LOOSE OR MISSING DRAIN PLUGS AND DAMAGED OR LEAKING MUFFLERS OR EXHAUST HOSES WILL ALLOW CARBON MONOXIDE, ENGINE GASES AND WATER INTO THE BILGE CREATING A POTENTIALLY HAZARDOUS CONDITION.

Reactivating The Boat After Storage:

- Charge and install the batteries.
- Install the drain plug in the hull.
- Check the engines for damage and follow the manufacturer's instructions for recommissioning.
- Check the mounting bolts for the engines to make sure they are tight.
- Perform all routine maintenance.
- Check all hose clamps for tightness.
- Pump the antifreeze from the fresh and raw water systems and flush several times with fresh water. Make sure all antifreeze is flushed from the water heater and it is filled with fresh water before it is activated.
- Check and lubricate the steering system.
- Clean and wash the boat.
- Install all upholstery, cushions and canvas.

After Launching:

- Carefully check all water systems and the engine bolts for leaks. Operate each system one at a time checking for leaks and proper operation.
- Check the bilge pump manual and automatic switches.
- When each engine starts, check the cooling system port below the engine cowling for a strong stream of water. This ensures that the cooling pump is operating.
- Carefully monitor the gauges and check for leakage and abnormal noises.
- Operate the boat at slow speeds until the engine temperature stabilizes and all systems are operating normally.
- If your boat is equipped with the optional generator, start the generator and monitor the exhaust port for a steady stream of water. It may take 20 or 30 seconds for the muffler to fill and for water to appear at the port. This ensures that the cooling pump is operating. If no water is visible at the outlet port after 45 seconds there could be a problem with the cooling pump. Shutdown the generator and contact your Everglades dealer for assistance.

Carefully inspect the generator and all hoses for leaks, paying particular attention to the muffler and exhaust hoses. Any leak, no matter how minor must be corrected immediately.

- If the boat is equipped with optional air conditioners activate each air conditioning unit and monitor the outlet port for a steady stream of water. It may take 20 or 30 seconds for the sea strainer and system to fill and for water to appear at the port. This ensures that the cooling pump is properly primed and operating. Carefully inspect all hoses for leaks, paying particular attention to the hoses below the waterline and those connected to the air conditioning system or freezer unit.
- If the pump runs but no water is visible at the outlet port after 45 seconds the cooling pump may be air locked. The intake for the pump is equipped with a scoop and ball valve. Make sure the valve is open and run the boat at or above 15 M.P.H. for several minutes. The water pressure from the scoop will force the trapped air through the pump and allow it to prime. If this procedure doesn't work, contact your Everglades dealer.

GLOSSARY OF TERMS

Aft: In, near or toward the stern of a boat.

Aground: A boat stuck on the bottom.

Amidships: In or toward the part of a boat midway between the bow and stern.

Anchor: A specially shaped heavy metal device designed to dig efficiently into the bottom under a body of water and hold a boat in place.

Anchorage: An area specifically designated by governmental authorities in which boats may anchor.

Ashore: On shore.

Astern: Behind the boat, to move backwards.

Athwartship: At right angles to the center line of the boat.

Barnacles: Small, hard-shelled marine animals which are found in salt water attached to pilings, docks and bottoms of boats.

Beam: The breadth of a boat usually measured at its widest part.

Bearing: The direction of an object from the boat, either relative to the boat's direction or to compass degrees.

Berth: A bunk or a bed on a boat.

Bilge: The bottom of the boat below the flooring.

Bilge Pump: A pump that removes water that collects in the bilge.

Boarding: Entering or climbing into a boat.

Boarding Ladder: Set of steps temporarily fitted over the side of a boat to assist persons coming aboard.

Boat Hook: Short shaft of wood or metal with a hook fitting at one end shaped to aid in extending one's reach from the side of the boat.

Bow: The front end of a boat's hull

Bow Line: A line that leads forward from the bow of the boat.

Bow Rail: Knee high rails of solid tubing to aid in preventing people from falling overboard.

Bridge: The area from which a boat is steered and controlled.

Bridge Deck: A deck forward and usually above the cockpit deck.

Broach: When the boat is sideways to the seas and in danger of capsizing; a very dangerous situation that should be avoided.

Bulkhead: Vertical partition or wall separating compartments of a boat.

Cabin: Enclosed superstructure above the main deck level.

Capsize: When a boat lays on its side or turns over.

Chock: A deck fitting, usually of metal, with inward curving arms through which mooring or anchor lines are passed so as to lead them in the proper direction both on board and off the boat.

Cleat: A deck fitting, usually of metal with projecting arms used for securing anchor and mooring lines.

Closed Cooling System: A separate supply of fresh water that is used to cool the engine and circulates only within the engine.

Coaming: A vertical piece around the edges of cockpit, hatches, etc. to stop water on deck from running below.

Cockpit: An open space, usually in the aft deck, outside of the cabin.

Companionway: Opening in the deck of a boat to provide access below.

Compartment: The interior of a boat divided off by bulkheads.

Cradle: A framework designed to support a boat as she is hauled out or stored.

Cutlass Bearing: A rubber bearing in the strut that supports the propeller shaft.

Glossary of Terms

Deck: The floor-like platform of a boat that covers the hull.

Displacement: The volume of water displaced by the hull. The displacement weight is the weight of this volume of water.

Draft: The depth of water a boat needs to float.

Dry Rot: A fungus attack on wood areas.

Dry-dock: A dock that can be pumped dry during boat construction or repair.

Electrical Ground: A connection between an electrical connector and the earth.

Engine Beds: Sturdy structural members running fore and aft on which the inboard engines are mounted.

EPIRB: Emergency Position Indicating Radio Beacon. Operates as a part of a worldwide satellite distress system.

Even Keel: When a boat floats properly as designed.

Fathom: A measure of depth. One Fathom = 6 feet.

Fender: A soft object of rubber or plastic used to protect the topsides from scarring and rubbing against a dock or another vessel.

Fend off: To push or hold the boat off from the dock or another boat.

Flying Bridge: A control station above the level of the deck or cabin.

Flukes: The broad portions of an anchor which dig into the ground.

Fore: Applies to the forward portions of a boat near the bow.

Foundering: When a boat fills with water and sinks.

Freeboard: The height from the waterline to the lowest part of the deck.

Galley: The kitchen of a boat.

Grab Rail: Hand-hold fittings mounted on cabin tops or sides for personal safety when moving around the boat, both on deck and below.

Ground Tackle: A general term including anchors, lines and other gear used in anchoring.

Grounds: A boat touches the bottom.

Gunwale: The upper edge of a boat's side.

Hand Rail: Rail mounted on the boat, for grabbing with your hand, to steady you while walking about the boat.

Harbor: An anchorage which provides reasonably good protection for a boat, with shelter from wind and sea.

Hatch: An opening in the deck with a door or lid to allow for access down into a compartment of a boat.

Head: A toilet on a boat.

Heat Exchanger: Used to transfer the heat that is picked up by the closed cooling system to the raw cooling water.

Helm: The steering and control area of a boat.

Hull: The part of the boat from the deck down.

Inboard: A boat with the engine mounted within the hull of the boat. Also refers to the center of the boat away from the sides.

Inboard/outboard: Also stern drive or I/O. A boat with an inboard engine attached to an outboard drive unit.

Keel: A plate or timber plate running lengthwise along the center of the bottom of a boat.

Knot: Unit of speed indicating nautical miles per hour. 1 knot = 1 nautical mile per hour (1.15 miles per hour). A nautical mile is equal to one minute of latitude: 6076 feet. Knots times 1.15 equals miles per hour. Miles per hour times .87 equals knots.

Lay-up: To decommission a boat for the winter (usually in northern climates).

Leeward: The direction toward which the wind is blowing.

Glossary of Terms

Length On The Waterline (l.w.l.): A length measurement of a boat at the waterline from the stern to where the hull breaks the water near the bow.

Limber Hole: A passage cut into the lower edges of floors and frames next to the keel to allow bilge water to flow to the lowest point of the hull where it can be pumped overboard.

Line: The term used to describe a rope when it is on a boat.

Lists: A boat that inclines to port or starboard while afloat.

L.O.A.: Boat length overall.

Locker: A closet, chest or box aboard a boat.

Lunch hook: A small light weight anchor typically used instead of the working anchor. Normally used in calm waters with the boat attended.

Midships: The center of the boat.

Marina: A protected facility primarily for recreational small craft.

Marine Ways or Railways: Inclined planes at the water's edge onto which boats are hauled.

Moored: A boat secured with cables, lines or anchors.

Mooring: An anchor permanently embedded in the bottom of a harbor that is used to secure a boat.

Nautical Mile: A unit of measure equal to one minute of latitude. (6076 feet)

Nun Buoy: A red or red-striped buoy of conical shape.

Outboard: A boat designed for an engine to be mounted on the transom. Also a term that refers to objects away from the center line or beyond the hull sides of a boat.

Pad Eye: A deck fitting consisting of a metal eye permanently secured to the boat.

Pier: A structure which projects out from the shoreline.

Pile or Piling: A long column driven into the bottom to which a boat can be tied.

Pitching: The fore and aft rocking motion of a boat as the bow rises and falls.

Pitch: The measure of the angle of a propeller blade. Refers to the theoretical distance the boat travels with each revolution of the propeller.

P.F.D: Personal Flotation Device.

Port: The left side of the boat when facing the bow.

Porthole (port): The opening in the side of a boat to allow the admittance of light and air.

Propeller: A device having two or more blades that is attached to the engine and used for propelling a boat.

Propeller Shaft: Shaft which runs from the back of the engine gear box, aft, through the stuffing box, shaft log, struts and onto which the propeller is attached.

Pyrotechnic Distress Signals: Distress signals that resemble the brilliant display of flares or fireworks.

Raw Water Cooled: Refers to an engine cooling system that draws seawater in through a hull fitting or engine drive unit, circulates the water in the engine and then discharges it overboard.

Reduction Gear: Often combined with the reverse gear so that the propeller turns at a slower rate than the engine.

Reverse Gear: Changes the direction of rotation of the propeller to provide thrust in the opposite direction for stopping the boat or giving it sternway.

Roll: A boat's sideways rotational motion in rough water.

Rope Locker: A locker, usually located in the bow of a boat, used for stowing the anchor line or chain.

Rubrail: Railing (often rubber or hard plastic) that runs along the boat's sheer to protect the hull when coming alongside docks, piers or other boats.

Rudder: A moveable flat surface that is attached vertically at or near the stern for steering.

Glossary of Terms

Sea anchor: An anchor that does not touch the bottom. Provides drag to hold the bow in the most favorable position in heavy seas.

Scupper: An opening in the hull side or transom of the boat through which water on deck or in the cockpit is drained overboard.

Seacock: Safety valves installed just inside the thru-hull fittings and ahead of the piping or hose running from the fittings.

Shaft Log: Pipe through which the propeller shaft passes.

Sheer: The uppermost edge of the hull.

Sling: A strap which will hold the boat securely while being lifted, lowered or carried.

Slip: A boat's berth between two pilings or piers.

Sole: The deck of a cockpit or interior cabin.

Spring Line: A line that leads from the bow aft or from the stern forward to prevent the boat from moving ahead or astern.

Starboard: The right side of a boat when facing the bow.

Steerageway: Sufficient speed to keep the boat responding to the rudder or drive unit.

Stem: The vertical portion of the hull at the bow.

Stern: The rear end of a boat.

Stow: To pack away neatly.

Stringer: Longitudinal members fastened inside the hull for additional structural strength.

Strut: Mounted to the hull which supports the propeller shaft in place.

Strut Bearing: See "cutlass bearing."

Stuffing Box: Prevents water from entering at the point where the propeller shaft passes through the shaft log.

Superstructure: Something built above the main deck level.

Swamps: When a boat fills with water from over the side.

Swimming Ladder: Much the same as the boarding ladder except that it extends down into the water.

Taffrail: Rail around the rear of the cockpit.

Thru-hull: A fitting used to pass fluids (usually water) through the hull surface, either above or below the waterline.

Topsides: The side skin of a boat between the waterline or chine and deck.

Transom: A flat stern at right angles to the keel.

Travel Lift: A machine used at boat yards to hoist boats out of and back into the water.

Trim: Refers to the boat's angle or the way it is balanced.

Trough: The area of water between the crests of waves and parallel to them.

Twin-Screw Craft: A boat with two propellers on two separate shafts.

Underway: When a boat moves through the water.

Wake: Disrupted water that a boat leaves astern as a result of its motion.

Wash: The flow of water that results from the action of the propeller or propellers.

Waterline: The plane of a boat where the surface of the water touches the hull when it is afloat on even keel.

Watertight Bulkhead: Bulkheads secured so tightly so as not to let water pass.

Wharf: A structure generally parallel to the shore.

Working Anchor: An anchor carried on a boat for most normal uses. Refers to the anchor used in typical anchoring situations.

Windlass: A winch used to raise and lower the anchor.

Windward: Toward the direction from which the wind is coming.

Yacht Basin: A protected facility primarily for recreational small craft.

Yaw: When a boat runs off her course to either side.

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MAINTENANCE LOG

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MAINTENANCE LOG

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MAINTENANCE LOG

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BOATING ACCIDENT REPORT

DEPARTMENT OF TRANSPORTATION U.S. COAST GUARD CG-3865 (Rev. 9/95)		BOATING ACCIDENT REPORT		FORM APPROVED OMB NO. 2115-0010	
STATE ASSIGNED CASE NO. _____					
THE OPERATOR/OWNER OF A VESSEL USED FOR RECREATIONAL PURPOSES IS REQUIRED TO FILE A REPORT IN WRITING WHENEVER AN ACCIDENT RESULTS IN: LOSS OF LIFE OR DISAPPEARANCE FROM A VESSEL; AN INJURY WHICH REQUIRES MEDICAL TREATMENT BEYOND FIRST AID; OR PROPERTY DAMAGE IN EXCESS OF \$2000 OR COMPLETE LOSS OF THE VESSEL. REPORTS IN DEATH AND INJURY CASES MUST BE SUBMITTED WITHIN 48 HOURS. REPORTS IN OTHER CASES MUST BE SUBMITTED WITHIN 10 DAYS. REPORTS MUST BE SUBMITTED TO THE REPORTING AUTHORITY IN THE STATE WHERE THE ACCIDENT OCCURRED. THIS FORM IS PROVIDED TO ASSIST THE OPERATOR IN FILING THE REQUIRED WRITTEN REPORT.					
COMPLETE ALL BLOCKS (INDICATE THOSE NOT APPLICABLE BY "NA")					
ACCIDENT DATA					
DATE OF ACCIDENT	TIME	AM PM	NAME OF BODY OF WATER	LOCATION (GIVE LOCATION PRECISELY)	
NUMBER OF VESSELS INVOLVED	NEAREST CITY OR TOWN		COUNTY	STATE	ZIP CODE
WEATHER (CHECK ALL APPLICABLE) [] CLEAR [] RAIN [] CLOUDY [] SNOW [] FOG [] HAZY	WATER CONDITIONS [] CALM (WAVES LESS THAN 6") [] CHOPPY (WAVES 6" TO 2') [] ROUGH (WAVES 2' TO 6") [] VERY ROUGH (GREATER THAN 6") [] STRONG CURRENT		TEMPERATURE (ESTIMATE) AIR _____ °F WATER _____ °F	WIND [] NONE [] LIGHT (0-6 MPH) [] MODERATE (7-14 MPH) [] STRONG (15-25 MPH) [] STORM (OVER 25 MPH)	VISIBILITY DAY NIGHT [] GOOD [] [] FAIR [] [] POOR []
NAME OF OPERATOR			OPERATOR ADDRESS		
OPERATOR TELEPHONE NUMBER ()	DATE OF BIRTH MO DAY YR		OPERATOR'S EXPERIENCE [] NONE [] UNDER 100 HOURS [] > 100 HOURS	INSTRUCTION IN BOATING SAFETY [] STATE COURSE [] U.S. POWER SQUADRON [] USCG AUXILIARY [] AMERICAN RED CROSS [] NONE	
[] MALE [] FEMALE					
NAME OF OWNER			OWNER ADDRESS		
OWNER TELEPHONE NUMBER ()	NUMBER OF PEOPLE ON BOARD		NUMBER OF PEOPLE BEING TOWED	RENTED BOAT? [] YES [] NO	
BOAT NO. 1 (THIS VESSEL)					
BOAT REGISTRATION OR DOCUMENTATION NUMBER		STATE	HULL IDENTIFICATION NUMBER		BOAT NAME
BOAT MANUFACTURER		LENGTH	MODEL		YEAR BUILT
TYPE OF BOAT [] OPEN MOTORBOAT [] CABIN MOTORBOAT [] AUXILIARY SAIL [] SAIL (ONLY) [] ROWBOAT [] CANOE/KAYAK [] PERSONAL WATERCRAFT [] PONTOON BOAT [] HOUSEBOAT [] OTHER (SPECIFY)	HULL MATERIAL [] WOOD [] ALUMINUM [] STEEL [] FIBERGLASS [] RUBBER/VINYL/CANVAS [] RIGID HULL INFLATABLE [] OTHER (SPECIFY)		ENGINE [] OUTBOARD [] INBOARD [] INBOARD-STERNDRIIVE (I/O) [] AIRBOAT	PROPULSION [] PROPELLER [] WATER JET [] AIR THRUST [] MANUAL [] SAIL	PERSONAL FLOTATION DEVICES (PFDS): WAS BOAT ADEQUATELY EQUIPPED WITH COAST GUARD APPROVED PFDS? [] YES [] NO WERE PFDS ACCESSIBLE? [] YES [] NO
		FUEL [] GASOLINE [] DIESEL [] ELECTRIC	NUMBER OF ENGINES TOTAL HORSEPOWER	FIRE EXTINGUISHERS ON BOARD? [] YES [] NO USED? [] YES [] NO	
OPERATION AT TIME OF ACCIDENT (CHECK ALL APPLICABLE) [] CRUISING [] CHANGING DIRECTION [] CHANGING SPEED [] DRIFTING [] TOWING [] BEING TOWED [] ROWING/PADDLING [] SAILING [] LAUNCHING [] DOCKING/UNDOCKING [] AT ANCHOR [] TIED TO DOCK/MOORED [] OTHER (SPECIFY)		ACTIVITY AT TIME OF ACCIDENT (CHECK ANY IF APPLICABLE) [] FISHING [] TOURNAMENT [] HUNTING [] SWIMMING/DIVING [] MAKING REPAIRS [] WATERSKIING/TUBING/ETC. [] RACING [] WHITEWATER SPORTS [] FUELING [] STARTING ENGINE [] NON-RECREATIONAL [] OTHER (SPECIFY)	TYPE OF ACCIDENT [] GROUNDING [] CAPSIZING [] FLOODING/SWAMPING [] SINKING [] FIRE OR EXPLOSION (FUEL) [] FIRE OR EXPLOSION (OTHER) [] SKIER MISHAP [] COLLISION WITH VESSEL [] COLLISION WITH FIXED OBJECT [] COLLISION WITH FLOATING OBJ. [] FALLS OVERBOARD [] FALLS IN BOAT [] STRUCK BY BOAT [] STRUCK BY MOTOR/PROPELLER [] STRUCK SUBMERGED OBJECT [] OTHER (SPECIFY)		
ESTIMATED SPEED [] NONE [] UNDER 10 MPH [] 10 - 20 MPH [] 21 - 40 MPH [] OVER 40 MPH		[] HIT AND RUN			
WHAT CONTRIBUTED TO ACCIDENT? (CHECK ALL APPLICABLE) [] WEATHER [] EXCESSIVE SPEED [] IMPROPER LOOKOUT [] RESTRICTED VISION [] OVERLOADING [] IMPROPER LOADING [] HAZARDOUS WATERS [] ALCOHOL USE [] DRUG USE [] HULL FAILURE [] MACHINERY FAILURE [] EQUIPMENT FAILURE [] OPERATOR INEXPERIENCE [] OPERATOR INATTENTION [] CONGESTED WATERS [] PASSENGER/SKIER BEHAVIOR [] DAM/LOCK [] OTHER (SPECIFY)					

Boating Accident Report

ΔΕΧΘΕΙΣΤΕ (ΚΟΜΟΡΕ ΘΑΝ 2 ΦΑΤΑΛΙΕΣ, ΑΤΤΑΧΗ ΑΔΑΠΟΝΑΛ ΦΟΡΜΕ)									
NAME ΟΦ ΔΧΤΙΜ				ΑΔΑΡΕΣΣ ΟΦ ΔΧΤΙΜ				ΩΔΣ ΠΦΔ ΩΟΡΝ? [] ΨΕΣ	
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ΙΝΣΥΡΕΔ (ΚΟΜΟΡΕ ΘΑΝ 2 ΙΝΣΥΡΕΔ, ΑΤΤΑΧΗ ΑΔΑΠΟΝΑΛ ΦΟΡΜΕ)									
NAME ΟΦ ΔΧΤΙΜ				ΑΔΑΡΕΣΣ ΟΦ ΔΧΤΙΜ					
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NAME				ΑΔΑΡΕΣΣ					
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ΒΟΑΤ ΝΟ2 (ΚΟΜΟΡΕ ΘΑΝ 2 ΔΕΣΣΕΔ, ΑΤΤΑΧΗ ΑΔΑΠΟΝΑΛ ΔΕΝΤΡΗΝ ΤΗΝ ΦΟΡΜΕ)									
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ΟΠΕΡΑΤΟΡ ΤΕΛΕΠΗΟΝΕ ΝΥΜΒΕΡ ()				ΒΟΑΤ ΡΕΙΤΣΤΡΑΤΙΟΝ ΟΡ ΔΟΧΥΜΕΝΤΑΤΙΟΝ ΝΥΜΒΕΡ ΣΤΑΤΕ					
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ΕΣΤΙΜΑΤΕΔ ΑΜΟΥΝΤ:		ΤΗΣΒΟΑΤ ΑΝΔ ΧΟΝΤΕΝΤΣ:		ΟΤΗΕΡ ΒΟΑΤ(Σ) ΑΝΔ ΧΟΝΤΕΝΤΣ:		ΟΤΗΕΡ ΠΡΟΠΙΕΡΤΨ:			
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NAME		ΑΔΑΡΕΣΣ				ΤΕΛΕΠΗΟΝΕ ΝΥΜΒΕΡ ()			
NAME		ΑΔΑΡΕΣΣ				ΤΕΛΕΠΗΟΝΕ ΝΥΜΒΕΡ ()			
ΠΕΡΣΟΝ ΧΟΜΠΙΔΕ ΤΗΝ ΡΕΠΟΡΤ									
NAME		ΑΔΑΡΕΣΣ				ΤΕΛΕΠΗΟΝΕ ΝΥΜΒΕΡ ()			
ΣΙΓΝΑΤΥΡΕ		ΘΥΛΑΚΟΧΑΤΙΟΝ [] ΟΠΕΡΑΤΟΡ [] ΟΩ ΝΕΡ [] ΙΝΔΕΠΙΔΑΤΟΡ [] ΟΤΗΕΡ		ΔΑΤΕ ΣΥΒΜΠΙΤΕΔ					
ΦΟΡ ΑΓΕΝΧΨ ΨΕ ΟΝΑΨ									
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NAME ΟΦ ΡΕΔΕΙΟΝΙΝΓ ΟΦΦΙΧΕ		ΔΑΤΕ ΡΕΧΕΙΔΕΔ		ΡΕΧΕΑΤΙΟΝΑΛ ΧΟΜΜΕΡΧΙΑΛ []		NON-ΡΕΠΟΡΤΑΒΑΕ []			
ΠΡΙΜΑΡΨ ΧΑΥΣΕ		ΣΕΧΟΝΔΑΡΨ ΧΑΥΣΕ							

Χαυσε Χαντλιντ Μονε 80-38-5600 Φορ ΑΓΕΝΧΨ Φορ ΑΓΕΝΧΨ Φορ ΑΓΕΝΧΨ

Everglades

NOTES

FLOAT PLAN

Everglades recommends filling out a float plan each time you use your boat for an offshore day trip or a long cruise. Leave this information with a responsible person ashore, like a close friend or relative that you know well.

1. Name of person reporting and telephone number.

2. Description of boat.

Type _____ Color _____ Trim _____

Registration No. _____ Length _____

Name _____ Make _____ Other Info _____

3. Engine type _____ H.P. _____

No. of Engines _____ Fuel Capacity _____

4. Survival equipment: (Check as appropriate)

☐ PFDS

☐ Flares

☐ Mirror

☐ Smoke Signals

☐ Flashlight

☐ Food

☐ Paddles

☐ Water

☐ Others

☐ Anchor

☐ Raft or Dinghy

☐ EPIRB

5. Radio ☐ Yes ☐ No Type _____

6. Automobile license _____

Type _____ Trailer License _____

Color _____ and make of auto _____

7. Persons aboard _____

Name _____ Age _____ Address & telephone No. _____

8. Do any of the persons aboard have a medical problem?

☐ Yes

☐ No

If yes, what? _____

9. Trip Expectations: Leave at _____

From _____ Going to _____

Expect to return by _____ (time)

and no later than _____

10. Any other pertinent info. _____

11. If not returned by _____ (time)
call the COAST GUARD or (Local authority) _____

12. Telephone Numbers.

NOTES

TROUBLESHOOTING GUIDE

PROBLEM	CAUSE AND SOLUTION
CONTROL SYSTEMS	
Hydraulic Steering is slow to respond & erratic and/or the steering wheel feels bumpy.	• Steering system is low on fluid. Fill and bleed system. • Steering system has air in it. Fill and bleed system. • A component in the steering system is binding. Check and adjust or repair binding component. • Engine steering spindle is binding. Grease spindle.
The boat wanders and will not hold a course at cruise speeds with hydraulic steering.	• There could be air in the steering system. Fill & bleed the system. • The engines are not aligned properly. Align engines. • Engine steering spindle is binding. Grease spindle.
Hydraulic Steering is unusually hard.	• The fuse for the power steering circuit has blown. Replace the fuse. • An internal fuse in the power steering pump system has blown. Refer to the steering owners manual for fuse location and replace the fuse or contact your dealer for assistance. • A steering line is kinked or collapsed. Replace kinked or collapsed line.
An engine will not start with the shift control lever in neutral.	• The shift control lever is not in the neutral detent. Try moving the shift lever slightly. • There is a loose wire on the neutral safety switch in the control. Inspect wires and repair loose connections. • The starter or ignition switch is bad. • There is a problem with the electronic control system at the helm control, module or at the engine. Have the system serviced by a qualified marine technician.
PERFORMANCE PROBLEMS	
Boat is sluggish and has lost speed & RPM.	• The boat may be need to have marine growth cleaned from hull and running gear. • Propellers may be damaged & need repair. • Weeds or line around the propellers. Clean propellers. • Boat is overloaded. Reduce load. • Check for excessive water in the bilge. Pump out bilge & find & correct the problem. • One of the throttles is not responding properly and the engine is not getting full throttle. Have the throttle control system checked by a qualified marine technician. • Hull ventilation seacocks in bilge are closed. Open hull ventilation seacocks.
The boat vibrates at cruising speeds.	• Propellers may be damaged & need repair. • A propeller or propeller shaft is bent. Repair or replace damaged components. • The running gear is fouled by marine growth or rope. Clean running gear. • The engines are not trimmed properly. Trim engines.

PROBLEM	CAUSE AND SOLUTION
ENGINE PROBLEMS	
An engine is running too hot.	• The engine raw water pick up strainer is clogged with marine growth. Clean pick up. • The engine raw water pump impeller is worn or damaged. Repair the pump. • The engine thermostat is faulty and needs to be replaced.
An engine alternator is not charging properly.	• The battery cable is loose or corroded. Clean and tighten battery cables. • The alternator is not charging and must be replaced. • The battery is defective. Replace the battery. • A Voltage Sensitive Relay in the charging system is not working properly. Replace defective VSR.
An engine suddenly will not operate over 2000 RPM.	• The engine emergency system has been activated. The on board computer has sensed a problem and has limited the RPM to protect the engine. Find & correct the problem. • The tachometer is bad and needs to be replaced. • A throttle control is not responding properly. Have the throttle setting checked by a qualified technician.
An engine is losing RPM. The boat is not overloaded and the hull bottom and running gear are clean and in good condition.	• The engine may be having a problem with a sticky Anti-siphon valve, located in the fuel line near the fuel tank, that is restricting the fuel flow. Remove & clean or replace the Anti-siphon valve. • The remote gasoline fuel filter could be dirty. Inspect and replace the fuel filter. • The primary fuel filter on the engine may be dirty. Inspect and replace the fuel filter. • The electronic engine control system on the engine is malfunctioning. Repair the engine control system. • The fuel injection system on the engine is malfunctioning. Repair the fuel injection system.

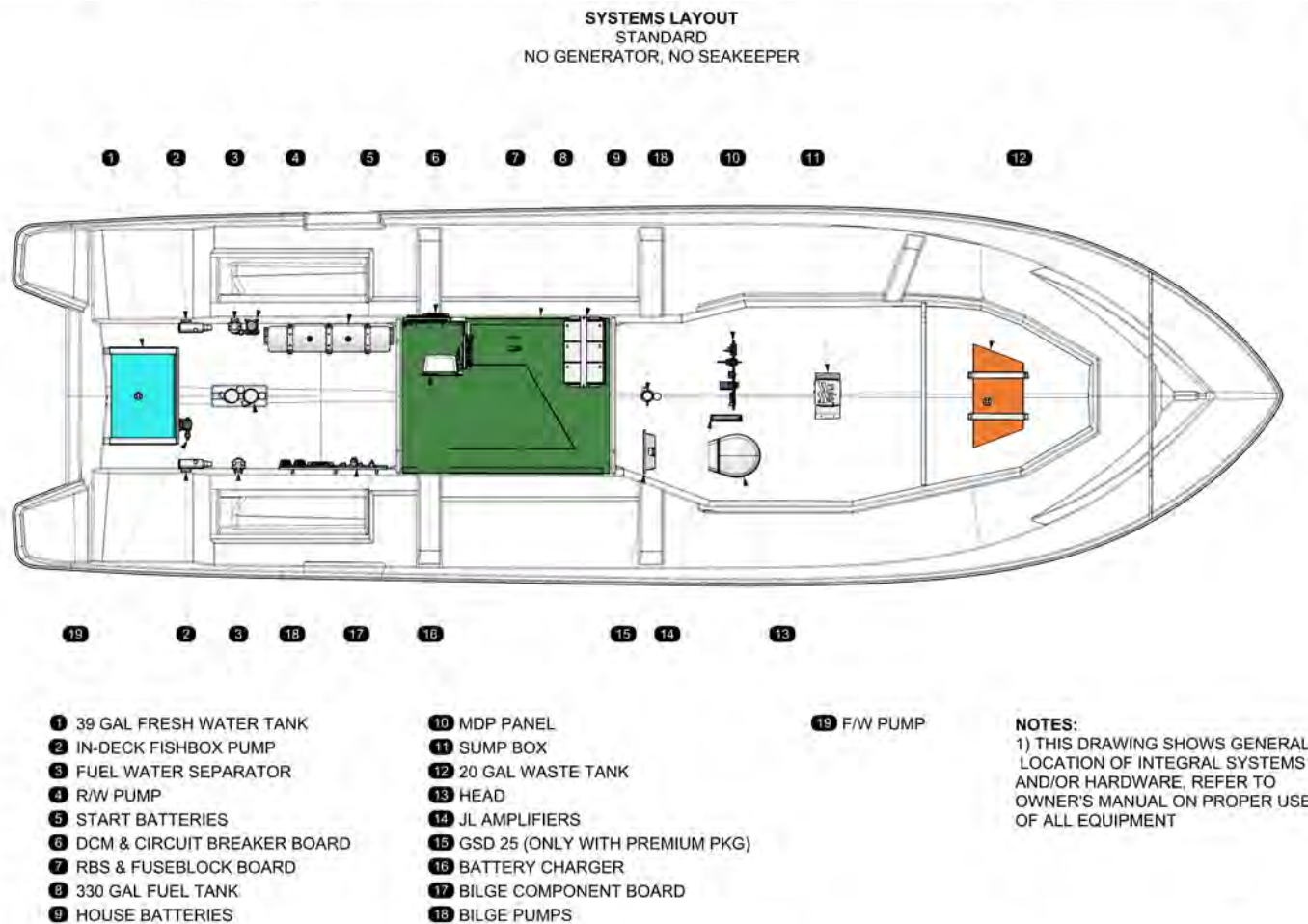
PROBLEM	CAUSE AND SOLUTION
ACCESSORY PROBLEMS	
A baitwell pump runs, but does not pump water.	- The thru-hull valve is not open. Open valve. - The intake scoop strainer for the raw water system is clogged with weeds or debris. Back down the boat to clear debris or clean the scoop strainer. - There is an air lock in the system. Prime the system.
The fresh water pump runs, but will not pump water.	- The water tank is empty. Fill the tank. - The water pump strainer is clogged. Clean strainer. - The intake hose is damaged and sucking air. Replace or repair the hose. - The pump is defective. Repair or replace the pump.
The fresh water pump fails to turn off after all outlets are closed.	- There is a leak in a pressure line or outlet. Repair the leak. - There is an air leak in the intake line. Repair the air leak. - The pressure switch is defective. Replace the pressure switch. - The voltage to the pump is low. Check for corroded or loose wiring connections or low battery. - The strainer is clogged. Clean strainer. - The pump is defective. Repair or replace the pump.
The raw water pump runs, but the pump will not pump water.	- The thru-hull valve is not open. Open valve. - There is an air leak in the intake line. Repair the air leak. - The intake scoop strainer for the raw water system is clogged with weeds or debris. Back down the boat to clear debris or clean the scoop strainer. - The in-line sea strainer for the pump is clogged. Clean the sea strainer.
The raw water or fresh water pump fails to turn off after all outlets are closed.	- The intake hose is damaged and sucking air. Replace hose. - The pump is defective. Repair or replace the pump. - There is a leak in a pressure line or outlet. Repair the leak. - There is an air leak in the intake line. Repair the air leak. - The pressure switch is defective. Replace the pressure switch. - The voltage to the pump is low. Check for corroded or loose wiring connections or low battery.
Reduction in water flow from a bilge pump.	- The pump strainer is clogged. Clean strainer. - The pump is defective. Repair or replace the pump. - The discharge hose is pinched or clogged. Check discharge hose and clean or repair. - Low voltage to the pump. Check the battery and wire connections.

PROBLEM	CAUSE AND SOLUTION
ACCESSORY PROBLEMS	
The automatic switch on the bilge pump does not activate the pump.	• The fuse or circuit breaker for the automatic switch has tripped or blown. Replace the fuse or reset the circuit breaker. • The battery is dead. Charge or replace the battery. • The pump impeller is jammed by debris. Clean pump impeller housing. • The wire connections in the bilge have corroded. Replace connectors and secure above the bilge waterline. • The automatic switch is defective. Replace the switch. • The pump is defective. Replace pump.
The bilge pump will not run when the manual switch is activated.	• The circuit breaker supplying the switch has tripped. Reset the circuit breaker. Replace if defective. • The battery switch is off. Turn on the battery switch. • The pump impeller is jammed by debris. Clean pump impeller housing. • The wire connections in the bilge have corroded. Replace connectors and secure above the bilge waterline. • The switch is defective. Replace the switch. • The pump is defective. Replace pump.
Head will not flush.	• The fuse for the head circuit is blown. Replace the fuse. • The holding tank is full. Pump out the holding tank. • There is bad connection at the head pump or the switch. Repair the connection. • The head pump is defective. Replace the pump.
Excessive odor from marine head.	• Back pressure in the holding tank. Pump out holding tank and clean the vent and vent hose. • No deodorizer in the holding tank. Add deodorizer to the holding tank each time it is pumped out. • The waste in the tank is over two weeks old. Pump the holding tank if it has contained waste for two weeks or more.
Holding tank will not empty.	• Holding tank vent is clogged. Clean the vent and vent hose. • There is a vacuum leak in the hose from the holding tank to the deck pump out fitting. Tighten loose fittings or replace damaged hoses.
The air conditioner runs for a short time & then cuts out.	• The intake scoop strainer for the raw water system is clogged with weeds or debris. Back down the boat to clear debris or clean the scoop strainer. • The air conditioner pump sea strainer is clogged. Clean the strainer. • The raw water supply thru hull valve is closed. Open the valve. • The raw water system is air-bound. Make sure the thru hull valve is open and run the boat above 15 m.p.h. The speed scoop on the thru hull fitting will force the air lock out of the system. • The air conditioner raw water pump is not pumping and needs to be repaired or replaced.

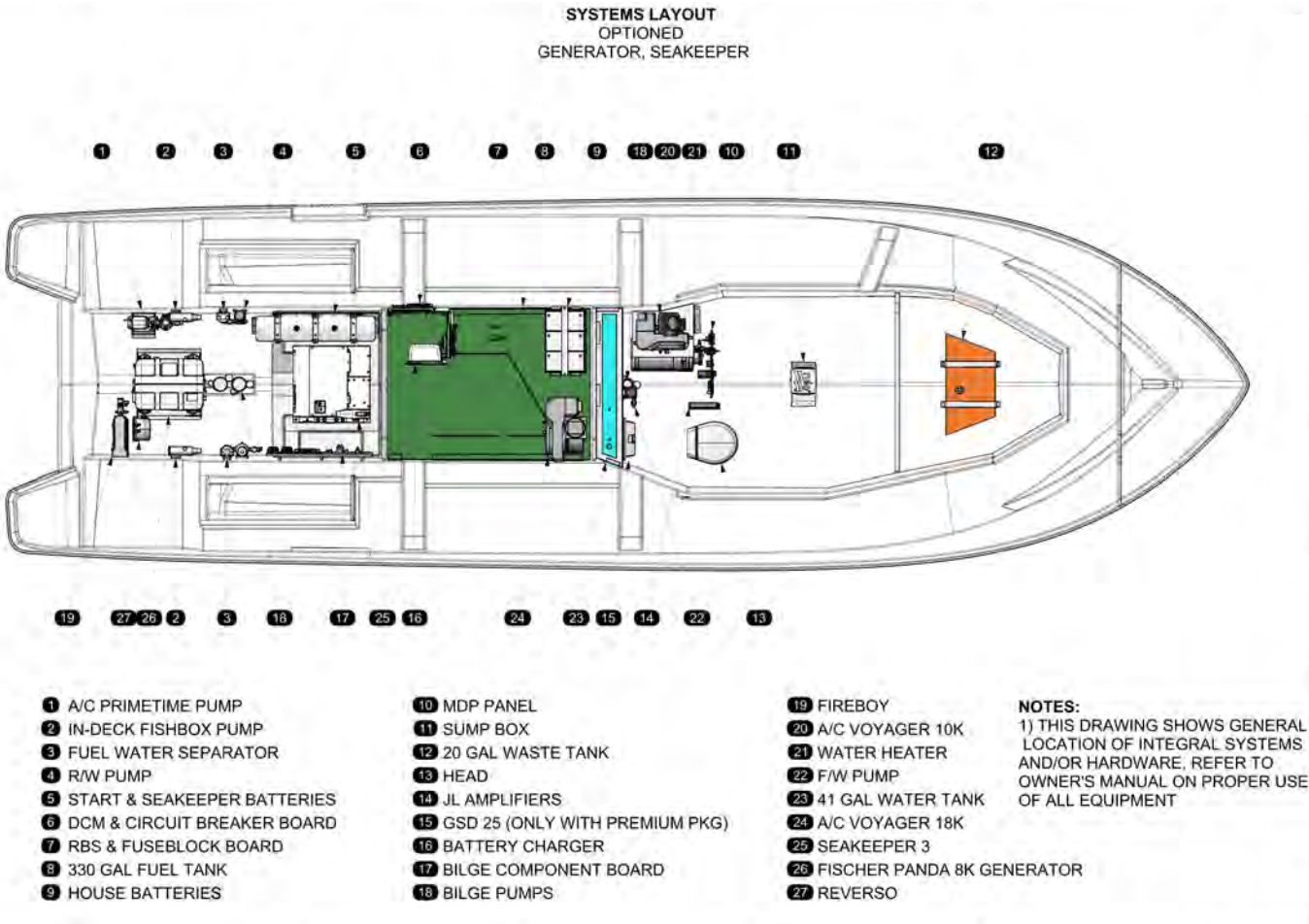
PROBLEM	CAUSE AND SOLUTION
ACCESSORY PROBLEMS	
The carbon monoxide detector sounds the alarm when the engines or generator are running.	- The canvas curtains are up and none of the forward facing vents are open, allowing carbon monoxide to accumulate in the cockpit and cabin. Open the windshield and side curtains to provide proper ventilation. - The boat is operating at slow speed and the wind is on the stern pushing CO into the cockpit and cabin. Increase boat speed or change heading if possible. - The carbon monoxide detector is defective and needs to be calibrated by the manufacturer or replaced. Have the boat checked by a professional before condemning the CO monitor.
No AC power to cabin breaker panel and shore cord is properly connected.	- The breaker at the shore outlet is off. Activate breaker. - The shore power cord is damaged or defective. Replace the cord. - The ELCI at the inlet connection has detected a fault in the electrical system and the breaker has tripped. Contact a qualified marine electrician to find and correct the problem.
The cabin Main Breaker for AC Power trips when activating the system from shore power.	- The AC accessory breakers are on and the power surge is tripping the breaker. Turn off all AC accessory breakers and reactivate main breaker. - The main breaker is defective. Contact a qualified marine electrician to replace the breaker.
The cabin AC main breaker activates the panel but trips while using accessories.	- There are too many AC accessories activated causing excess amperage draw. Manage AC accessory use to reduce excess amperage draw. - Voltage supplied from the shore outlet is low or high. Check the voltage. Contact the marina operator or qualified marine electrician to correct the problem. - The main breaker is defective. Contact a qualified marine electrician to replace the breaker.
No AC power at cabin outlets	- Outlet breaker in cabin AC panel is off. Activate breaker. - Ground fault interrupter has tripped. Push reset button on outlet to reset. - Accessory powered by the outlet has a fault that is tripping the interrupter. Turn the breaker in the cabin AC panel off and contact a qualified marine electrician to repair the defective accessory. Replace defective accessory. - The GFI outlet is defective. Contact a qualified marine electrician to replace the outlet.

PROBLEM	CAUSE AND SOLUTION
ACCESSORY PROBLEMS	
The generator will not start.	- House battery is not charged. Charge or replace battery. - The generator fuel supply valve is off. Turn on fuel supply valve. - The fuel level is too low in the fuel tank. Fill the fuel tank.
The generator runs for a short time and shuts down.	- There is a problem with the generator and the emergency shut down system has activated to shut down the generator. Find and correct the problem, then restart the generator. - The fuel level is too low in the fuel tank that supplies the generator. Fill the fuel tank. - The generator is overloaded. Manage AC accessory use to reduce excess amperage draw. Note: The fuel withdrawal tube for the generator is shorter than the main engine tubes. Therefore, the generator will run out of fuel before the boat engines. This is to prevent the generator from consuming reserve fuel.

SCHEMATICS



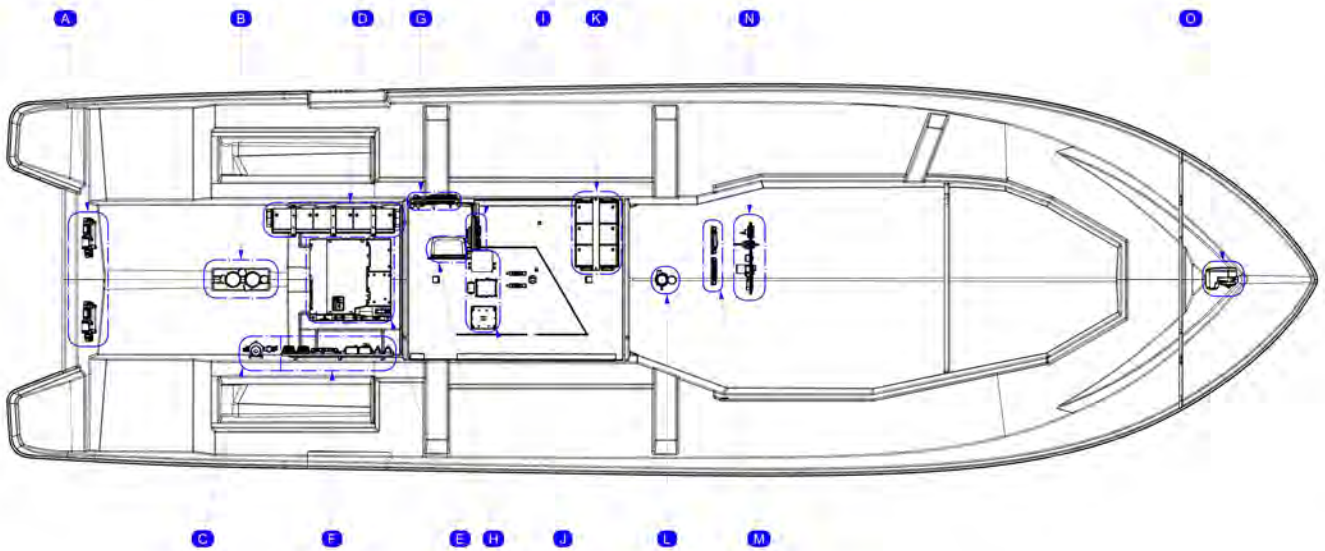
System Layout Standard - No Generator - No SeaKeeper



Systems Layout With Optional Generator & SeaKeeper

ELECTRICAL SYSTEMS

STANDARD (NO GENSET)
DETAIL VIEW

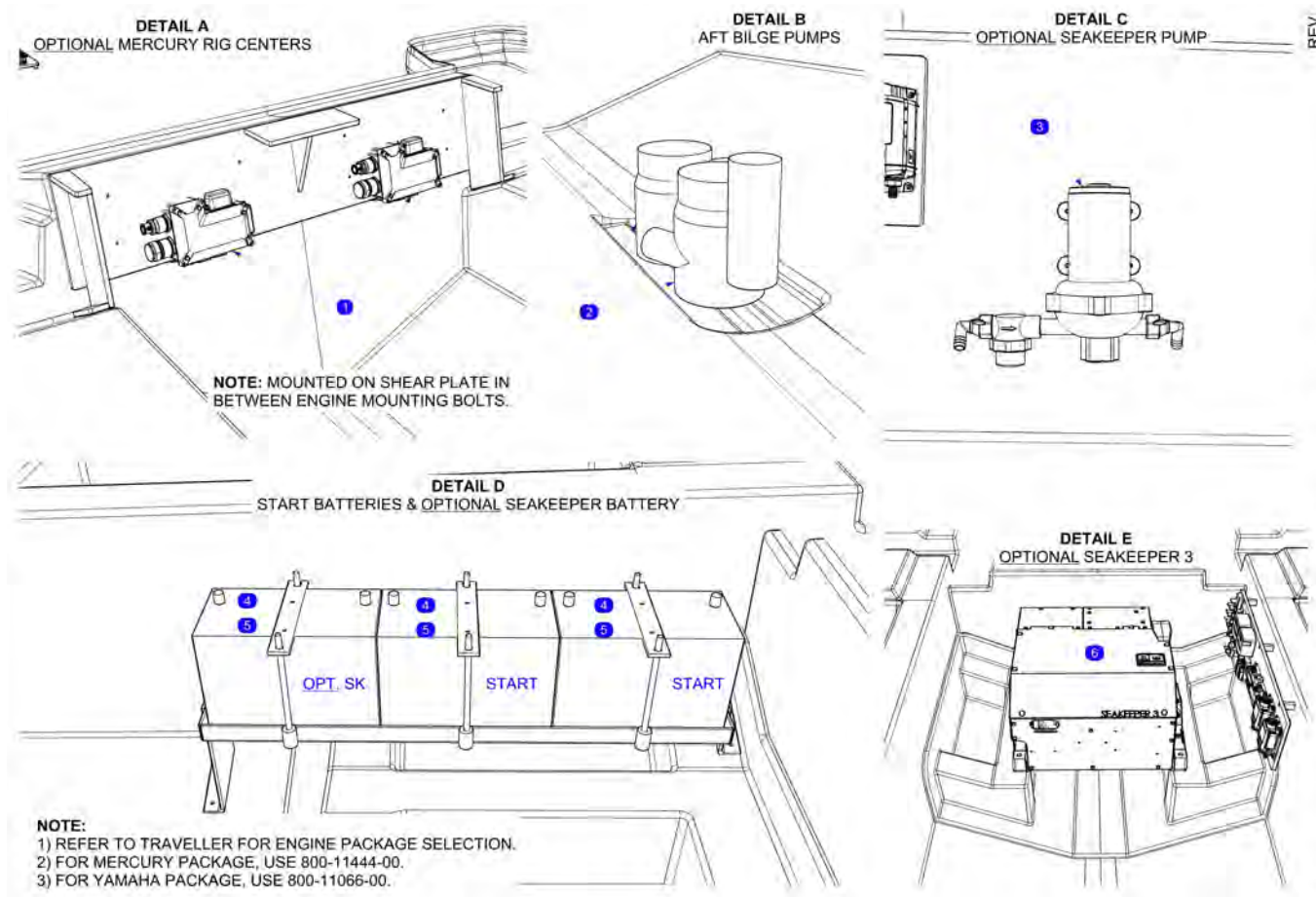


NOTES:

- 1) HULL AND LINER SHOWN, SOME HARDWARE ARE LOCATED ABOVE DECK LEVEL.
- 2) SOME HARDWARE ARE PART OF OPTIONS.
- 3) THIS DRAWING PROVIDES AN OVERVIEW OF LOCATION OF SPECIFIC ELECTRICAL SYSTEMS, REFER TO HARDWARE DRAWINGS FOR SPECIFIC INSTRUCTIONS FOR INSTALLATION.

#	PART NUMBER	QTY	DESCRIPTION
1	400-10685-00	2 OPT.	MERCURY RIG CENTER
2	415-10006-00	2	3700 GPH BILGE PUMP
3	750-10884-00	1 OPT.	SEAKEEPER PUMP
4	800-11444-00	5 OPT.	AGM BATTERY (MERCURY)
5	800-11066-00	3 OPT.	DEEP CYCLE LEAD ACID INTERSTATE BATTERY (YAMAHA)
6	720-20128-00	1 OPT.	SEAKEEPER 3 GYROSTABILIZER
7	800-11108-00	1	FUSE BLOCK
8	800-11068-00	1	SOLENOID
9	800-11469-00	2 OPT.	YAMAHA ENGINE CIRCUIT BREAKER
10	810-10838-00	4	DCM
11	800-10828-00	3 ST.	BATTERY SWITCH
12	800-11491-00	1 OPT.	MERCURY DISTRIBUTION BLOCK
13	800-11369-00	2 OPT.	MERCURY ACR
14	800-10837-00	4	50 AMP BREAKER
15	800-11180-00	2 ST.	100 AMP BREAKER
16	800-10830-00	3	40 AMP BREAKER
17	800-10916-00	1	70 AMP BREAKER
18	800-11322-00	1	FUSE BLOCK
19	810-10904-00	1	PICO C4 MODULE
20	800-11499-00	1	BATTERY CHARGER
21	800-11178-00	4	FUSE BLOCK FOR 24 HR. PWR OR SWITCHED
22	810-10768-00	1	VHF RADIO
23	810-10779-00	1 OPT.	AIS 800 MODULE
24	800-11504-00	1 OPT.	STROBE MODULE
25	N/A	1 OPT.	MAKEFAST SHADE CONTROL MODULE
26	415-10007-00	1	2000 GPH BILGE PUMP
27	810-10839-00	1	DIGITAL SWITCHING MCU MODULE
28	810-10922-00	1	DIGITAL SWITCHING WDU MODULE
29	800-11492-00	1	AC MULTIMETER
30	800-10417-00	1	SHORE POWER BREAKER
31	820-10233-00	1	BREAKER 20 AMP
32	800-11235-00	1	BREAKER 15 AMP
33	905-30584-00	2 OPT.	MERCURY KEY SWITCHES
34	905-30580-00	1 OPT.	MERCURY DIAGNOSTIC PORT
35	420-10016-00	3	BATTERY SWITCH
36	810-10902-00	1	GARMIN CARD READER
37	840-10113-00	1 OPT.	FISCHER PANDA 8K GENERATOR
38	750-10952-00	1 OPT.	ELECTRICALLY ACTUATED VALVE GENERATOR
39	750-10953-00	1 OPT.	ELECTRICALLY ACTUATED VALVE GENERATOR
40	750-10955-00	1 OPT.	ELECTRICALLY ACTUATED VALVE WASTE
41	700-11602-00	1 OPT.	HELMSEAT A/C UNIT
42	700-11601-00	1 OPT.	CABIN A/C UNIT
43	840-10113-00	1 OPT.	GENERATOR DISPLAY
44	820-11325-00	1 OPT.	SHORE POWER / GENSET ROTARY SWITCH
45	820-11492-00	1 OPT.	MULTIMETER
46	820-10233-00	3 OPT.	20 AMP BREAKER
47	800-11235-00	7 OPT.	15 AMP BREAKER
48	700-10444-00	1	WINDLASS
49	800-11520-00	1	MARLIN GROUND BUSS

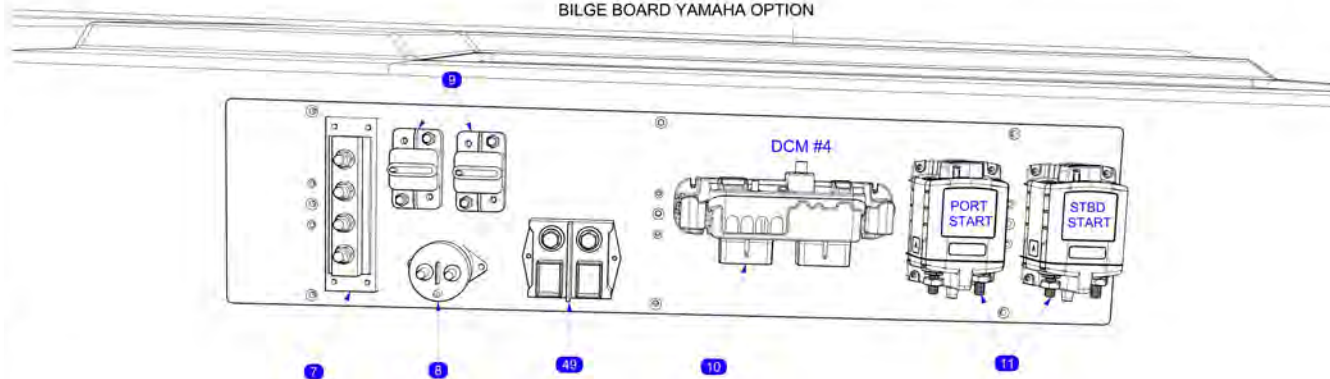
Electrical Systems Overview -1 - Standard - No Generator



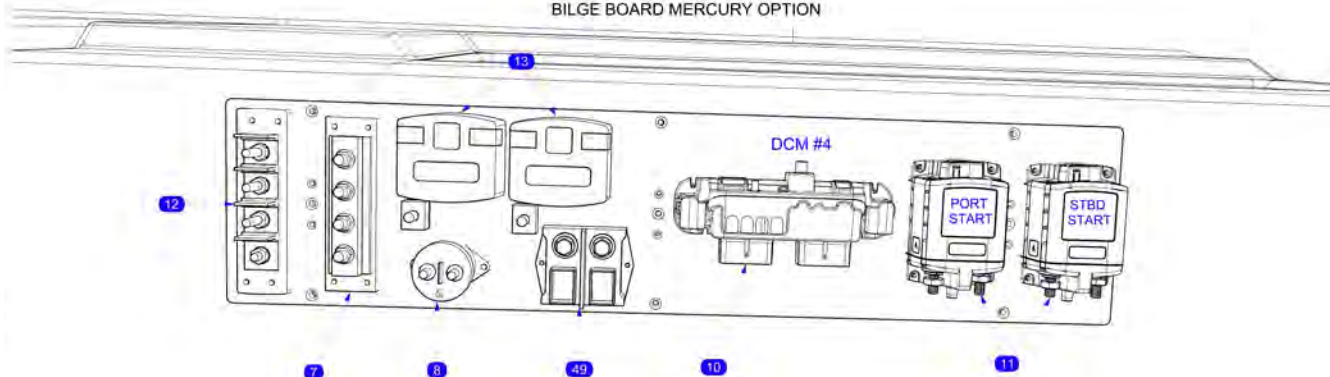
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7	800-11108-00	1	FUSE BLOCK
8	800-11068-00	1	SOLENOID
9	800-11469-00	2 OPT.	YAMAHA ENGINE CIRCUIT BREAKER
10	810-10838-00	4	DCM
11	800-10828-00	3 ST.	BATTERY SWITCH
12	800-11491-00	1 OPT.	MERCURY DISTRIBUTION BLOCK
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17	800-10916-00	1	70 AMP BREAKER
18	800-11322-00	1	FUSE BLOCK
19	810-10904-00	1	PICO C4 MODULE
20	800-11499-00	1	BATTERY CHARGER
21	800-11178-00	4	FUSE BLOCK FOR 24 HR. PWR OR SWITCHED
22	810-10768-00	1	VHF RADIO
23	810-10779-00	1 OPT.	AIS 800 MODULE
24	800-11504-00	1 OPT.	STROBE MODULE
25	N/A	1 OPT.	MAKEFAST SHADE CONTROL MODULE
26	415-10007-00	1	2000 GPH BILGE PUMP
27	810-10839-00	1	DIGITAL SWITCHING MCU MODULE
28	810-10922-00	1	DIGITAL SWITCHING WDU MODULE
29	800-11492-00	1	AC MULTIMETER
30	800-10417-00	1	SHORE POWER BREAKER
31	820-10233-00	1	BREAKER 20 AMP
32	800-11235-00	1	BREAKER 15 AMP
33	905-30584-00	2 OPT.	MERCURY KEY SWITCHES
34	905-30580-00	1 OPT.	MERCURY DIAGNOSTIC PORT
35	420-10016-00	3	BATTERY SWITCH
36	810-10902-00	1	GARMIN CARD READER
37	840-10113-00	1 OPT.	FISCHER PANDA 8K GENERATOR
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49	800-11520-00	1	MARLIN GROUND BUSS

Electrical System Overview - 2

DETAIL F
BILGE BOARD YAMAHA OPTION



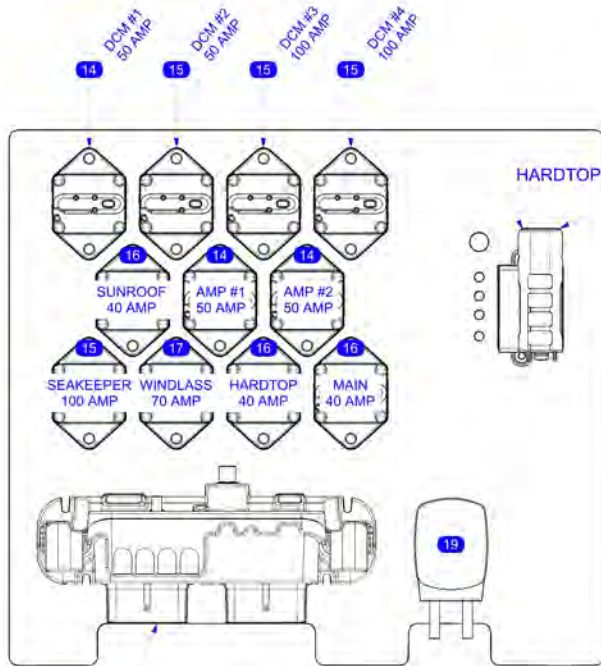
DETAIL F
BILGE BOARD MERCURY OPTION



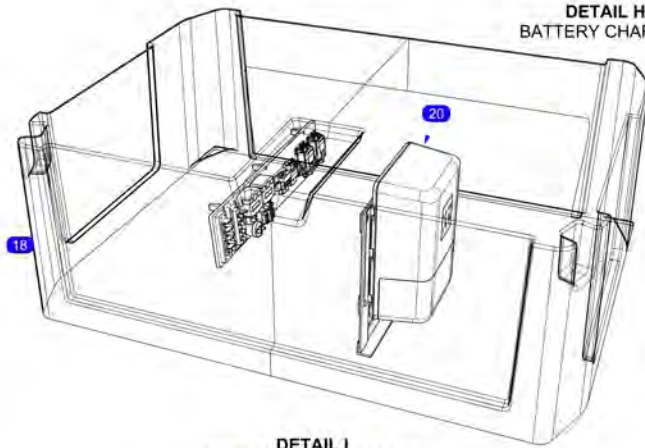
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5	800-11066-00	1 OPT.	DEEP CYCLE LEAD ACID INTERSTATE BATTERY (YAMAHA)
6	720-20128-00	1 OPT.	SEAKEEPER 3 GYROSTABILIZER
7	800-11108-00	1	FUSE BLOCK
8	800-11068-00	1	SOLENOID
9	800-11469-00	2 OPT.	YAMAHA ENGINE CIRCUIT BREAKER
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44	820-11325-00	1 OPT.	SHORE POWER / GENSET ROTARY SWITCH
45	820-11492-00	1 OPT.	MULTIMETER
46	820-10233-00	3 OPT.	20 AMP BREAKER
47	800-11235-00	7 OPT.	15 AMP BREAKER
48	700-10444-00	1	WINDLASS
49	800-11520-00	1	MARLIN GROUND BUSS

Electrical System Overview -3

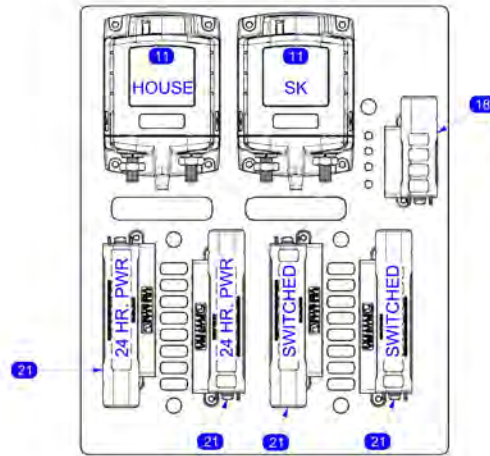
DETAIL G
MEZZANINE DCM BOARD



DETAIL H
BATTERY CHARGER

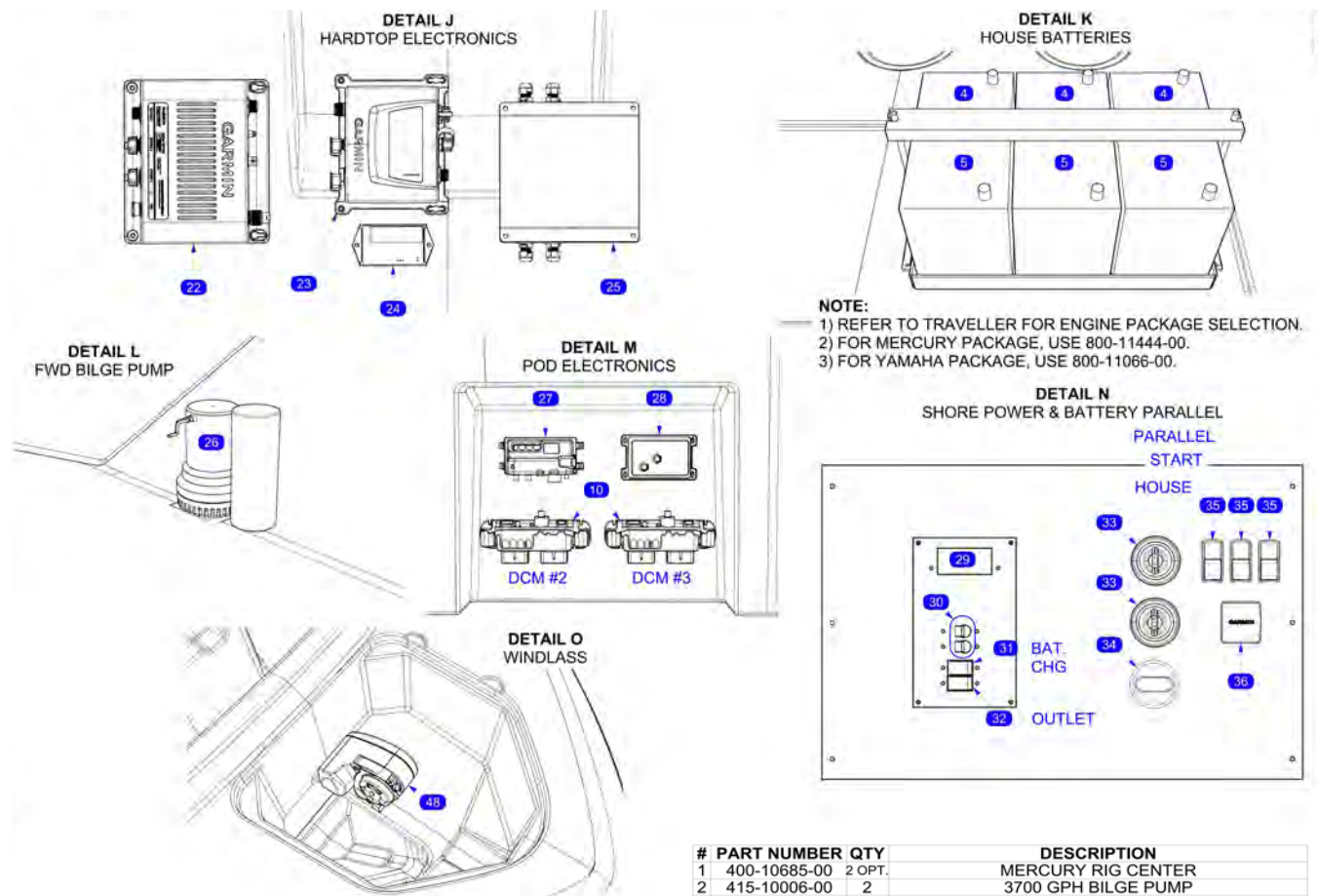


DETAIL I
BATTERY SWITCH BOARD



DCM #1 10
MASTER

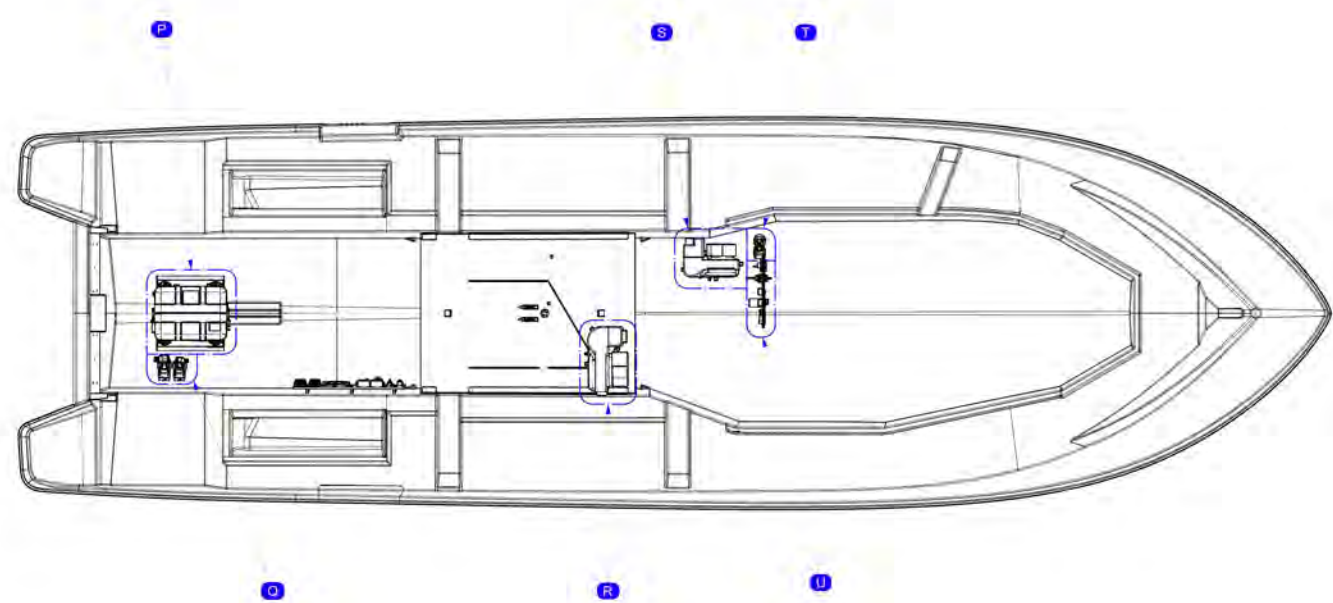
#	PART NUMBER	QTY	DESCRIPTION
1	400-10685-00	2 OPT.	MERCURY RIG CENTER
2	415-10006-00	2	3700 GPH BILGE PUMP
3	750-10884-00	1 OPT.	SEAKEEPER PUMP
4	800-11444-00	5 OPT.	AGM BATTERY (MERCURY)
5	800-11066-00	1 OPT.	DEEP CYCLE LEAD ACID INTERSTATE BATTERY (YAMAHA)
6	720-20128-00	1 OPT.	SEAKEEPER 3 GYROSTABILIZER
7	800-11108-00	1	FUSE BLOCK
8	800-11068-00	1	SOLENOID
9	800-11469-00	2 OPT.	YAMAHA ENGINE CIRCUIT BREAKER
10	810-10838-00	4	DCM
11	800-10828-00	3 ST.	BATTERY SWITCH
12	800-11491-00	1 OPT.	MERCURY DISTRIBUTION BLOCK
13	800-11369-00	2 OPT.	MERCURY ACR
14	800-10837-00	4	50 AMP BREAKER
15	800-11180-00	2 ST.	100 AMP BREAKER
16	800-10830-00	3	40 AMP BREAKER
17	800-10916-00	1	70 AMP BREAKER
18	800-11322-00	1	FUSE BLOCK
19	810-10904-00	1	PICO C4 MODULE
20	800-11499-00	1	BATTERY CHARGER
21	800-11178-00	4	FUSE BLOCK FOR 24 HR. PWR OR SWITCHED
22	810-10768-00	1	VHF RADIO
23	810-10779-00	1 OPT.	AIS 800 MODULE
24	800-11504-00	1 OPT.	STROBE MODULE
25	N/A	1 OPT.	MAKEFAST SHADE CONTROL MODULE
26	415-10007-00	1	2000 GPH BILGE PUMP
27	810-10839-00	1	DIGITAL SWITCHING MCU MODULE
28	810-10922-00	1	DIGITAL SWITCHING WDU MODULE
29	800-11492-00	1	AC MULTIMETER
30	800-10417-00	1	SHORE POWER BREAKER
31	820-10233-00	1	BREAKER 20 AMP
32	800-11235-00	1	BREAKER 15 AMP
33	905-30584-00	2 OPT.	MERCURY KEY SWITCHES
34	905-30580-00	1 OPT.	MERCURY DIAGNOSTIC PORT
35	420-10016-00	3	BATTERY SWITCH
36	810-10902-00	1	GARMIN CARD READER
37	840-10113-00	1 OPT.	FISCHER PANDA 8K GENERATOR
38	750-10952-00	1 OPT.	ELECTRICALLY ACTUATED VALVE GENERATOR
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Electrical System Overview - 5

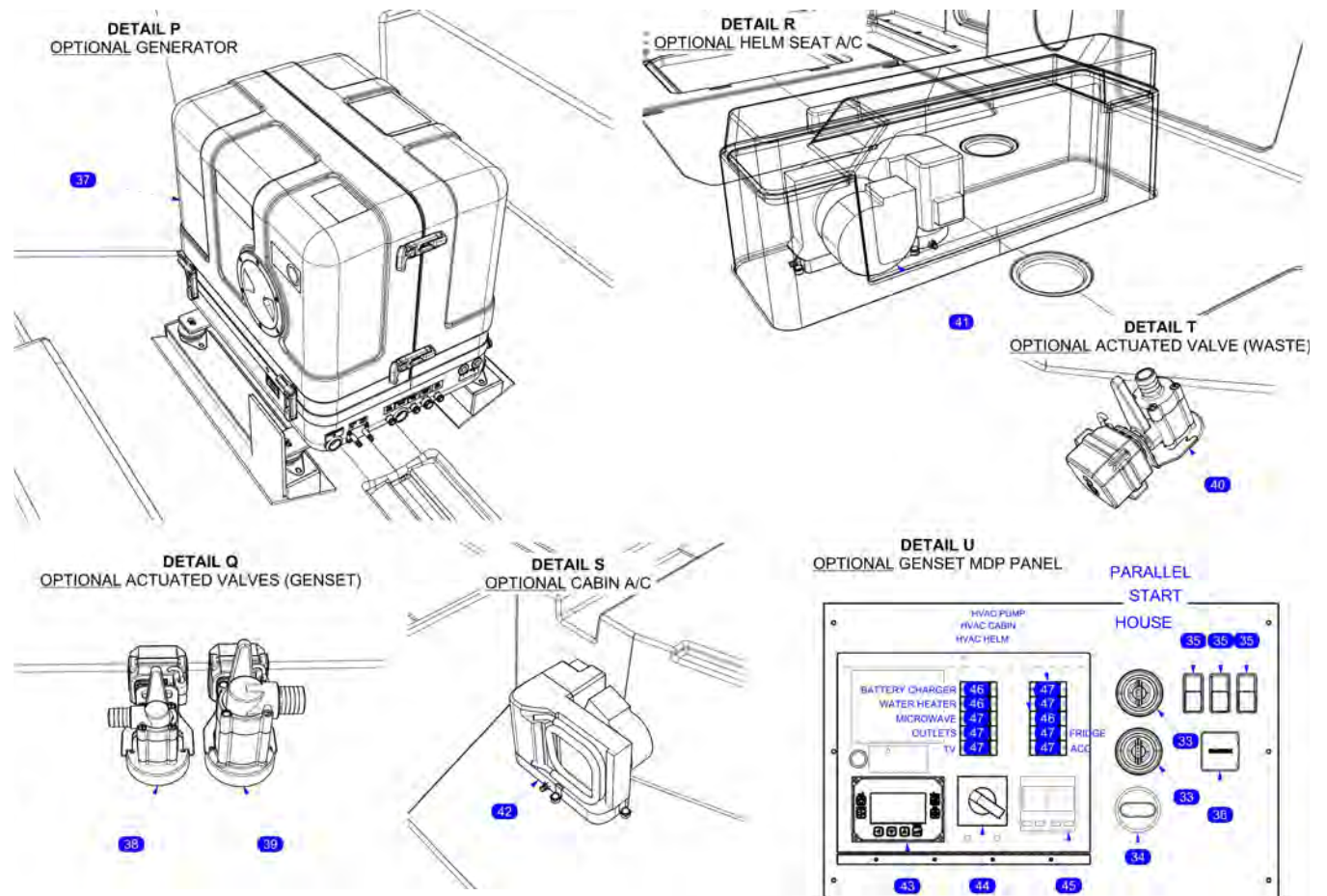
ELECTRICAL SYSTEMS
GENERATOR PACKAGE
DETAIL VIEW



NOTES:
1) HULL AND LINER SHOWN, SOME HARDWARE ARE LOCATED ABOVE DECK LEVEL.
2) SOME HARDWARE ARE PART OF OPTIONS.
3) THIS DRAWING PROVIDES AN OVERVIEW OF LOCATION OF SPECIFIC ELECTRICAL SYSTEMS, REFER TO HARDWARE DRAWINGS FOR SPECIFIC INSTRUCTIONS FOR INSTALLATION.

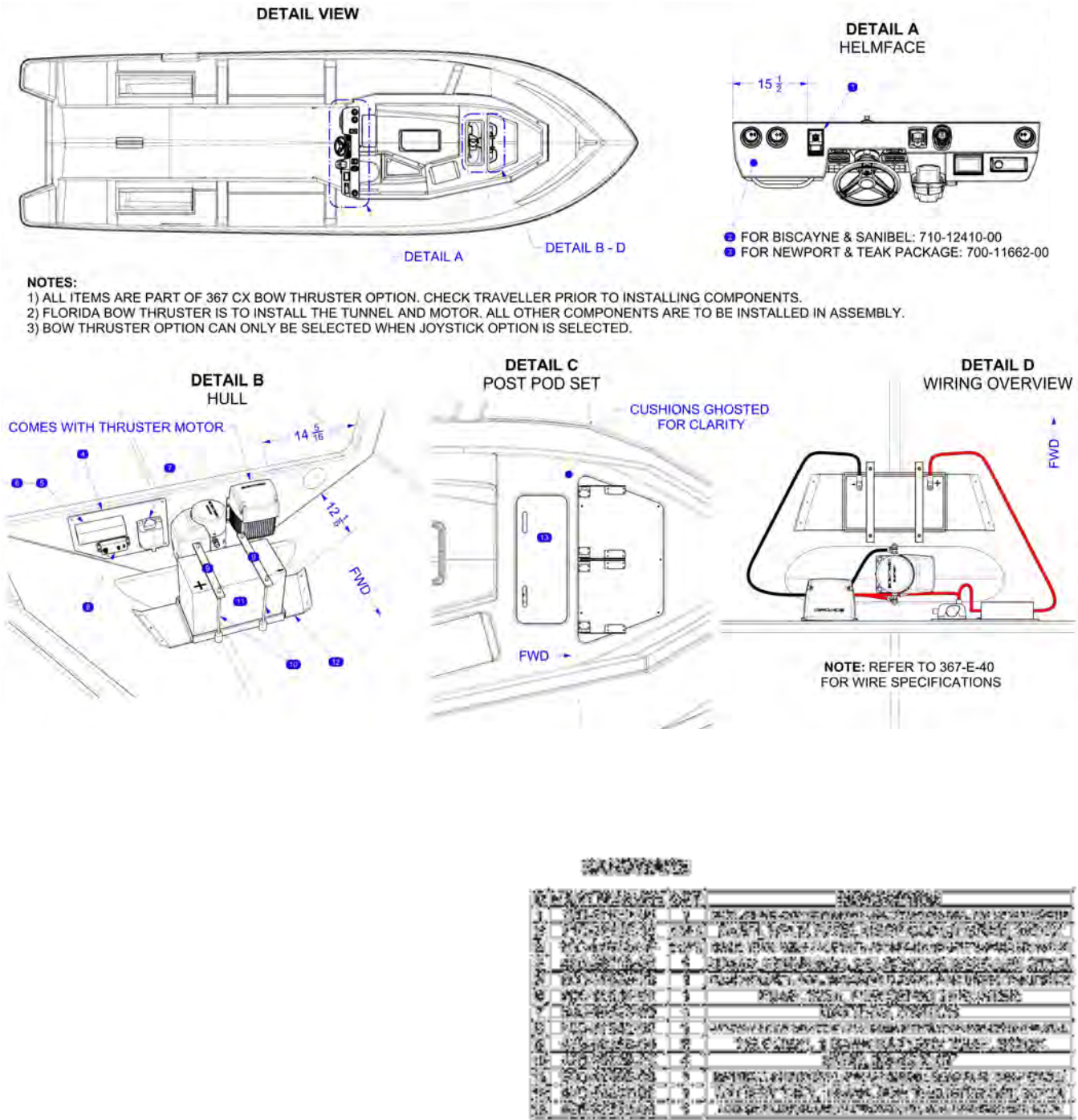
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Electrical System - 6

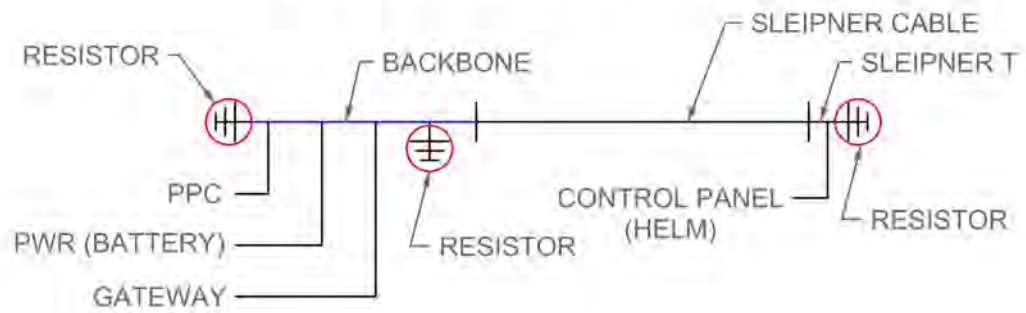


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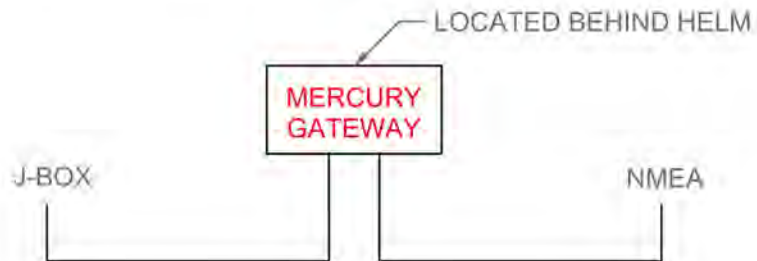
Electrical System - 7



SLEIPNER S-LINK SCHEMATIC



MERCURY JPO SCHEMATIC FOR BOW THRUSTERS



367CX DIGITAL CONTROL REFERENCE CHART

Channel	Description / Function	Channel	Description / Function	Channel	Description / Function	Channel	Description / Function
DCM #1 MEZZANINE SEAT	X1-1 Navigation Lights (Underway)	DCM #2 CABIN	X1-1 Blank	DCM #3 CABIN	X1-1 Aux 1	DCM #4 AFT BILGE	X1-1 Port Fishbox Pump (Relay)
	X1-2 Hardtop Lights		X1-2 Blank		X1-2 Aux 2		X1-2 STBD Fishbox Pump (Relay)
	X1-3 Helm Light		X1-3 Vent Windows Close (1A-9.5A)		X1-3 Battery Parallel		X1-3 Water Tank Sender
	X1-4 Blank		X1-4 Vent Windows Open (1A-9.5A)		X1-4 Windlass up signal		X1-4 Waste Tank Sender
	X1-5 Aft Spreader Lights		X1-5 Wiper Park Positive (Constant)		X1-5 Windlass dn signal		X1-5 Underwater Lights (Power)
	X1-6 Blank		X1-6 Blank		X1-6 Sunroof Close		X1-6 Underwater Lights (Signal)
	X1-7 Blank		X1-7 Wiper Park (Feedback)		X1-7 FWD Bilge Light		X1-7 High Water Alarm Input
	X1-8 Blank		X1-8 Cabin Temperature Probe		X1-8 Cabin Accent Lights		X1-8 Fresh Water Pump
	XQ1-9 Hardtop Accent Lights		X1-9 Aux Power		X2-1 Head Overhead Lights		X2-1 Raw Water Pump
	X1-10 Anchor Light		X1-10 Windshield Washer (Solenoid)		X2-2 Deck Courtesy Lights		X2-2 Aft Bilge Pump 1 Float Switch
	X1-11 Anchor Light Actuator		X1-11 Wiper Low Speed		X2-3 FWD Bilge Pump Float Switch Input		X2-3 Aft Bilge Pump 2 Float Switch
	X1-12 Makefast (Retract)		X1-12 Wiper High Speed		X2-4 Cabin Overhead Lights		X2-4 Livewell Light
	X1-13 Horn		X1-13 Blank		X2-5 Head Fan		X2-5 Livewell Pump
	X1-14 Shade Retract Tactile Switch Input		X1-14 Cabin Overhead Light Tactile Switch		X2-6 Sunroof Open		X2-6 Bilge Light
	X1-15 Shade Extend Tactile Switch Input		X1-15 Cabin Accent Light Tactile Switch		X2-7 Overboard Discharge Pump		X2-7 Aft Bilge Pump 1 (Manual)
	X1-16 Blank		X1-16 Head Overhead Light Tactile Switch		X2-8 FWD Bilge Pump (Manual)		X2-8 Aft Bilge Pump 2 (Manual)
DCM #1 MEZZANINE SEAT	X2-1 Shade Switch Power	DCM #2 CABIN	X2-1 Blank	DCM #3 CABIN	X2-1 Blank	DCM #4 AFT BILGE	X2-1 Raw Water Pump
	X2-2 Blank		X2-2 Blank		X2-2 Blank		X2-2 Aft Bilge Pump 1 Float Switch
	X2-3 Blank		X2-3 Blank		X2-3 Blank		X2-3 Aft Bilge Pump 2 Float Switch
	X2-4 Blank		X2-4 Cabin Wall Switch Power		X2-4 SP8 Network Power (Red)		X2-4 Livewell Light
	X2-5 Blank		X2-5 SP8 Network Power (Red)		X2-5 Blank		X2-5 Livewell Pump
	X2-6 Blank		X2-6 Blank		X2-6 SP8 Connection 1 (White)		X2-6 Bilge Light
	X2-7 Blank		X2-7 SP8 Connection 1 (White)		X2-7 SP8 Connection 2 (Blue)		X2-7 Aft Bilge Pump 1 (Manual)
	X2-8 Blank		X2-8 SP8 Connection 2 (Blue)		X2-8 Blank		X2-8 Aft Bilge Pump 2 (Manual)
	X2-9 Blank		X2-9 Blank		X2-9 Blank		
	X2-10 Blank		X2-10 Blank		X2-10 Blank		
	X2-11 Port Light Bar		X2-11 Blank		X2-11 Blank		
	X2-12 STBD Light Bar		X2-12 Blank		X2-12 Blank		
	X2-13 Center Light Bar		X2-13 Compass Light (Dims with SP8)		X2-13 Blank		
	X2-14 Blank		X2-14 Blank		X2-14 Blank		
	X2-15 Blank		X2-15 Blank		X2-15 Blank		
	X2-16 SP8 Network Ground (Black)		X2-16 SP8 Network Ground (Black)		X2-16 SP8 Network Ground (Black)		

MANUAL CIRCUIT/CHANNEL OPERATION AT GARMIN CONTROL BOXES

- WHEN A COMPONENT WILL NOT OPERATE FROM THE GARMIN SCREEN OR SWITCH PANELS

TO MANUALLY TURN OFF A COMPONENT

- 1 Press the right arrow button. "SEL" will be shown on the display
- 2 Use the right arrow button to step to the desired channel - SEE REFERENCE CHART ABOVE
- 3 Press and hold MAN ON/MAN OFF for three seconds.
- 4 Press the left arrow until the message "SEL" appears in the display
- 5 The channel switched off will now have a flashing red led indication

TO MANUALLY TURN ON A COMPONENT

- 1 Press the right arrow button. "SEL" will be shown on the display
- 2 Use the right arrow button to step to the desired channel - SEE REFERENCE CHART ABOVE
- 3 Press and hold MAN ON/MAN OFF for three seconds.
note, if LED continues to flash red, repeat press and hold for 3 seconds
- 4 Press the left arrow until the message "SEL" appears in the display
- 5 The channel manually switched ON will now have a flashing green led.

If a channel has been changed via the MANUAL operation, it will not reset to auto operation unless the following steps are performed

TO RESET A CHANNEL TO AUTOMATIC OPERATION

- 1 Press the right arrow button. "SEL" will be shown on the display
- 2 Use the right arrow button to step to the desired channel - FLASHING RED OR GREEN
- 3 Press and hold RESET/AUTO for two seconds.
- 4 Press the left arrow until the message "SEL" appears in the display
note, LED indication should no longer be flashing

MANUAL CIRCUIT RESET (TRIPPED BREAKER) AT GARMIN CONTROL BOXES

- THE LED CHANNEL WILL BE ILLUMINATED RED

TO RESET CHANNEL

- 1 Press the right arrow button. "SEL" will be shown on the display
- 2 Use the right arrow button to step to the desired channel - red led
- 3 Press and hold RESET/AUTO for two seconds. The circuit will now reset and the led will chg to green or off indication
- 4 Press the left arrow until the message "SEL" appears in the display





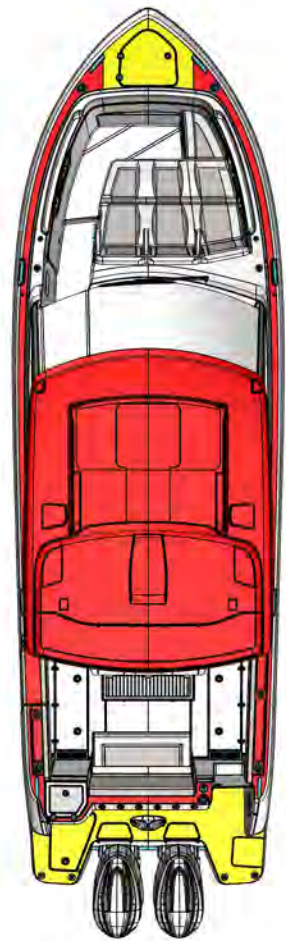
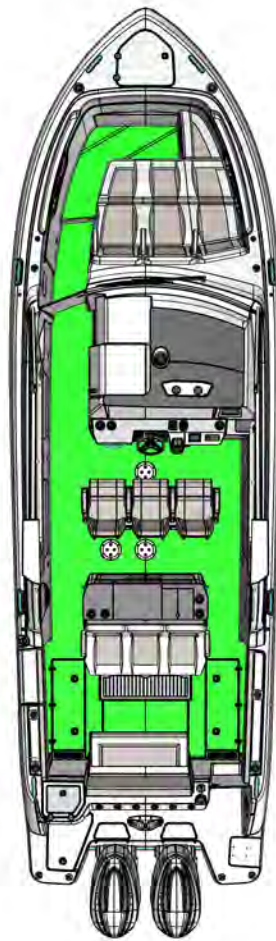
THESE AREAS NOT INTENDED TO BE OCCUPIED. DO NOT SIT, STAND OR OTHER OCCUPY THESE AREAS.



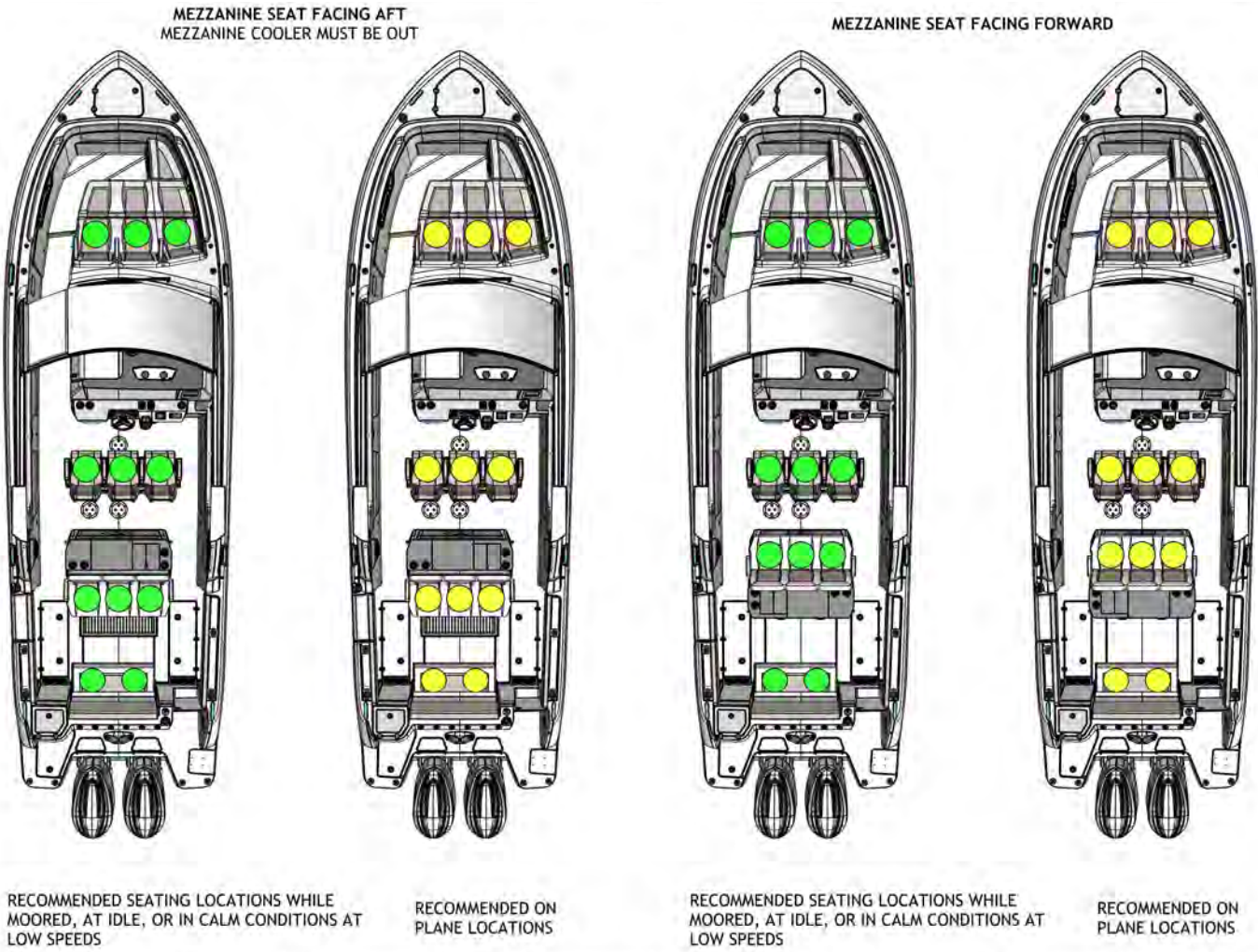
THESE AREAS ARE A WORKING DECK AND ARE NOT INTENDED TO BE OCCUPIED WHILE THE ENGINES ARE ON. DO NOT SIT, STAND OR OTHERWISE OCCUPY THESE AREAS IF THE ENGINES ARE ON. USE CAUTION WHEN OCCUPYING THESE WORKING DECKS.



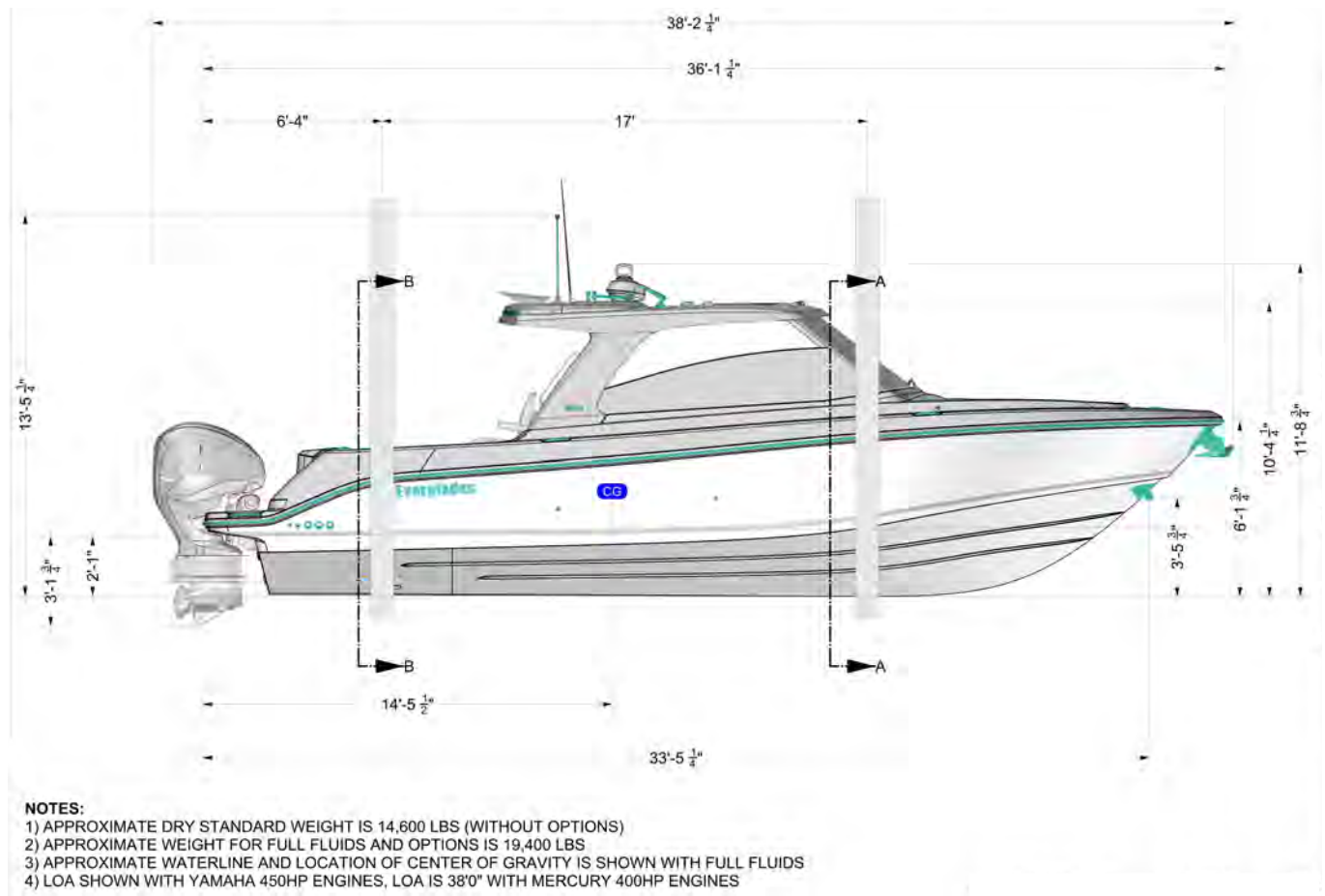
THE ACCOMMODATIONS DECK IS WITHIN THE COCKPIT AND INCLUDES THE HELM SEATING. USE CAUTION WHEN MOVING IN THESE AREAS WHILE UNDERWAY.



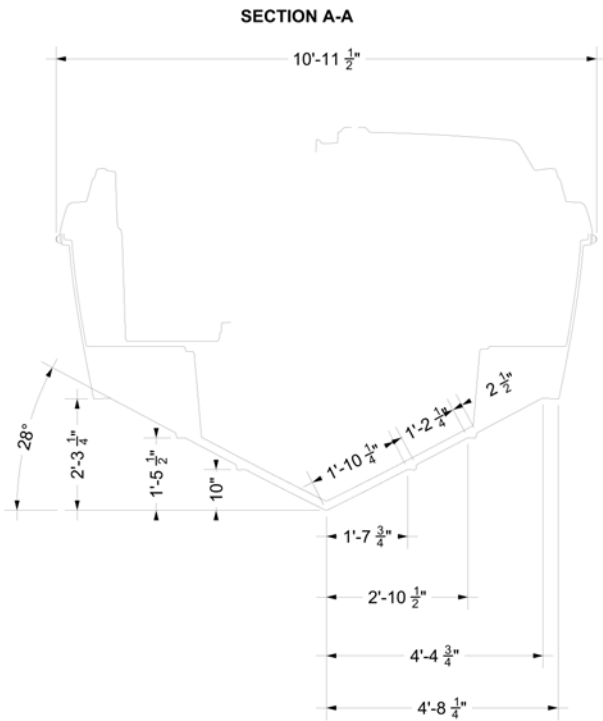
Seating Arrangements -1



Seating Arrangements - 2

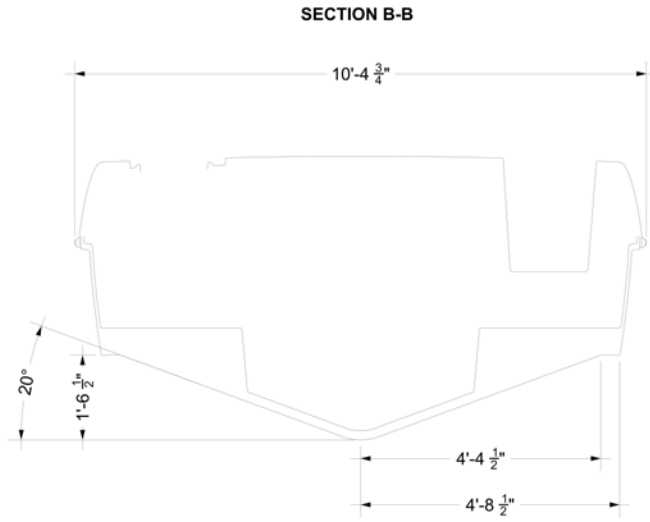


Graving Plan – 1



NOTES:

- 4) SECTION A-A IS SHOWN AT THE FRONT OF THE HARDTOP
- 5) SECTION B-B IS SHOWN AT THE AFT END OF THE COCKPIT WALL

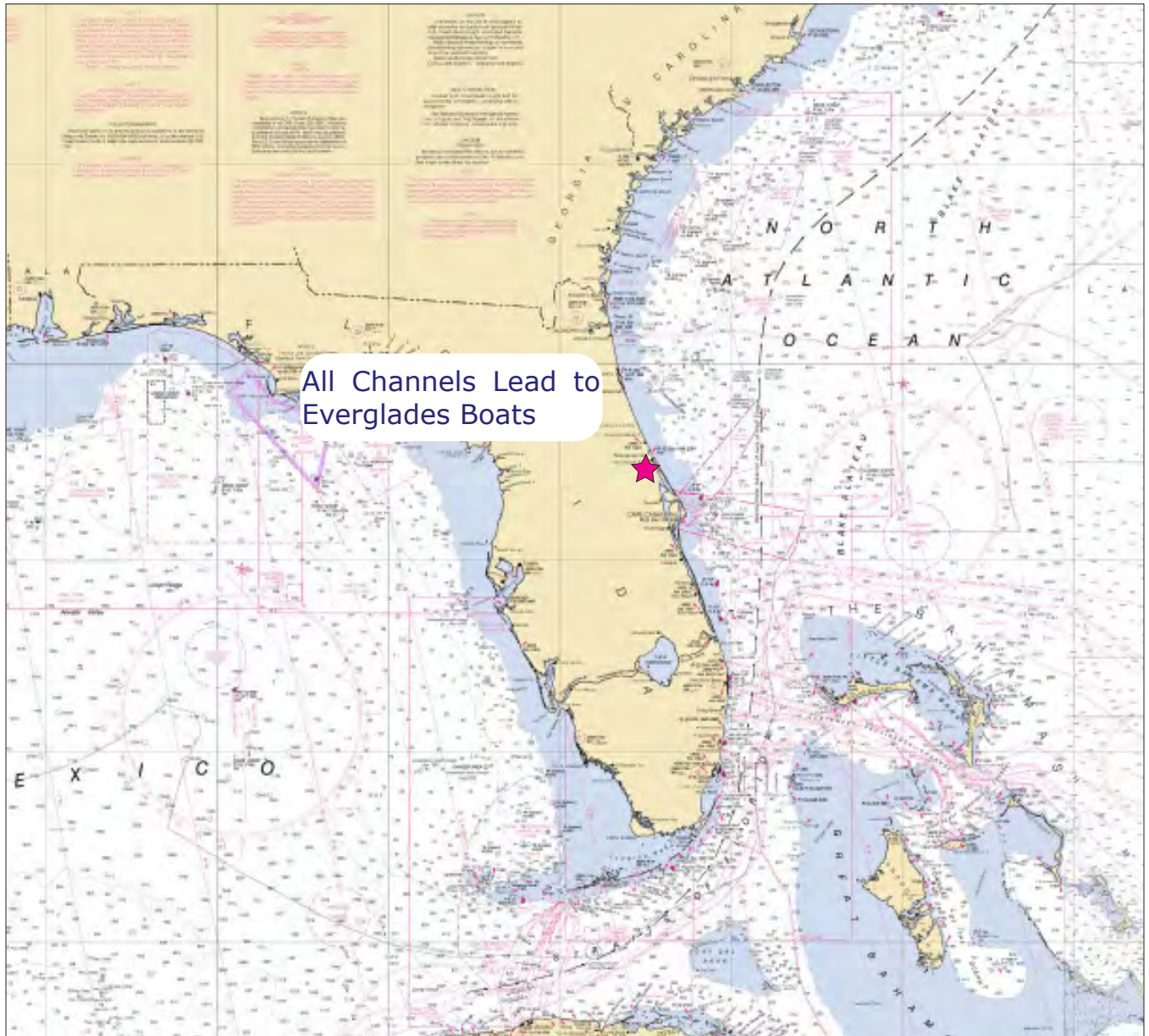


VERTICAL CLEARANCE



Graving Plan - 3

Everglades



Everglades Boats
544 Air Park Road
Edgewater, Florida 32132