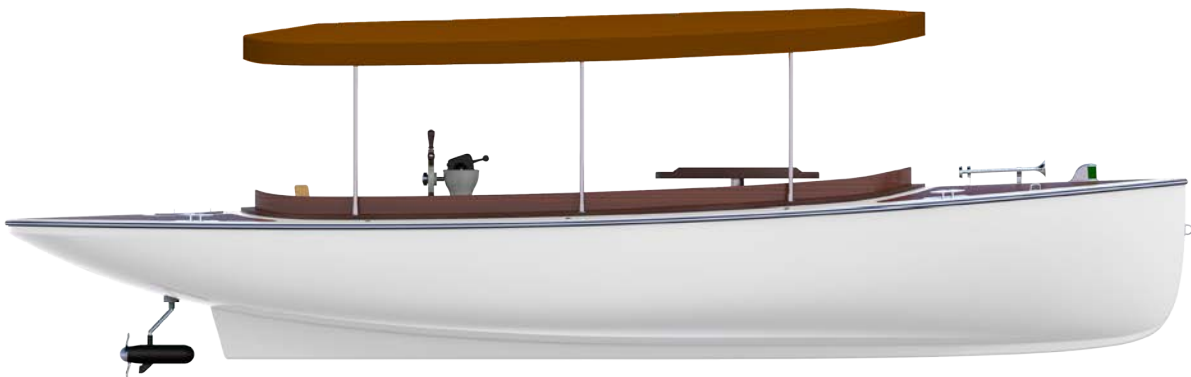


CANADIAN
Electric Boat co.
SINCE 1995

OWNERS MANUAL
GUIDE DE L'UTILISATEUR



Fantail



INTRODUCTION

Please ensure the highest level of safety for yourself and your crew by following safe boating practices. Your on-water experience depends on weather conditions, the state of the sea, the skipper's experience and the physical shape of the crew. The sea or the water is not the natural environment for mankind, and one can only respect its laws and its strength.

Always listen or read a weather forecast or prevision prior to any travel, and ensure that the wind and water conditions will correspond to the design category of your boat, and that you and your crew are able to handle the boat in these conditions.

Always listen to or read a weather forecast before going out on the water, and ensure that the wind and water conditions will be suitable for your vessel and that you and your crew are able to handle the boat in whatever conditions may apply.

The Fantail 217 has been designed for sheltered waters. The boat doesn't exceed 6 knots. Please ensure that environmental conditions – especially winds and currents – don't exceed the strength of your electric engine.

This Owner's Manual contains basic information for properly running the boat, some safety topics, operation and maintenance hints. This Owner's

Manual does not cover all aspects of maintenance or troubleshooting. You should read it carefully, and familiarize yourself with the craft before using it, as the information this manual contains is important.

This Owner's Manual does not comprise a course on boating safety or explain how to navigate, anchor or dock your boat. Your dealer, national boating federation or yacht club will be pleased to advise you on local boating schools, or refer you to competent instructors.

Please always use a trained professional for maintenance, servicing or fixing your boat, or for minor modications, but please ensure that technicians do not significantly modify the aspects of your Fantail 217. When possible, locate a technician that has the written authorization of Canadian Electric

Boat Company, or its legal representative, by contacting Canadian Electric Boat Company at **1-866-479-1099** or **1 (450)-472-5515**.

In many countries a driving licence, authorization or training is required to operate a motorized pleasure craft of any kind.

Please make sure you have this legal authorization before venturing out with your boat.

IMPORTANT INFORMATION

HULL IDENTIFICATION

DATE OF PURCHASE

DEALER NAME

DEALER PHONE NUMBER

REGISTRATION NUMBER

TABLE OF CONTENT

Any boat – no matter how strong it may be – can be severely damaged if handled and treated improperly by unskilled operators. Not only could damage result, but safety would be compromised in this instance.

Always adjust the speed of powerboats to water conditions to avoid excessive slamming.

PLEASE KEEP THIS MANUAL IN A SECURE PLACE, AND HAND IT OVER TO THE NEW OWNER WHEN YOU SELL THE CRAFT.

PICTOGRAMS



WARNING

Please read the warnings carefully. They emphasize security and safety issues of great importance. You can put yourself and your guests in danger if you don't follow warnings.



CAUTION

Please take note of these security and safety practices outlined.



TIP ZONE

Please take advantage of these practical tips and useful insights to maximize your Fantail 217 experience.

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1. OVERVIEW

1. OVERVIEW

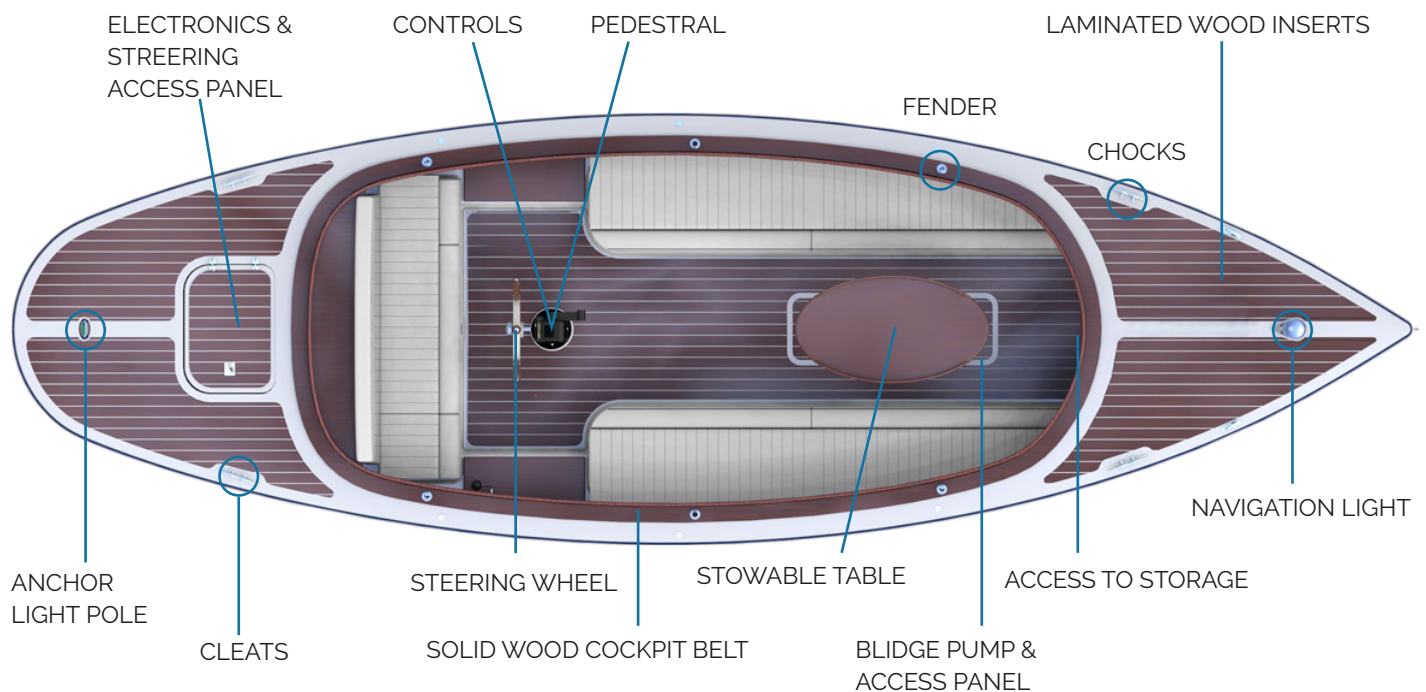
1.1 BOAT SPECIFICATIONS

Maximum speed	9.66 km/h (6 mph)
Cruising speed	8.05 km/h (5 mph)
Autonomy(with 2 batteries)	8-10 hours
Capacity	8-10 places
Weight	775 kg (1,705 lbs)
Hull material	Fiberglass
Length	6.6 m (21' 7")
Width	2.03 m (6' 8")
Draft	0.43 m (20")
Homologation	Canada, USA, Europe
Wood	Mahogany, Synthetic
Boat colors	Various

Type of motor	Pods
Motor manufacturer	Minn-Kota
Motor voltage	48 V
Maximum current	40 A
Thrust	2HP
Battery Type	Lead-Acid
Battery voltage	6 V
Qty of batteries	8
Battery weight	37.2 kg (82 lbs)
Recharge time	8 - 12 hours
Charger voltage	12 V

1.2 GENERAL OVERVIEW

Your safety as well as the safety of others with and around you is a direct result of how you operate and maintain your boat. Read this manual carefully. Make sure that you understand all the controls and operating instructions before attempting to operate the boat. It is important that you read, understand and obey all local, state or provincial, and federal boating laws.



2. GENERAL SAFETY






THE FANTAIL 217 IS A CATEGORY D CRAFT

D : Sheltered water. Designed for voyages on sheltered coastal waters, small bays, small lakes, rivers and canals when conditions up to, and including wind force 4 and significant wave heights up to, and including, 0,5m may be experienced, with occasional waves of 0,5m maximum height.



READ THE CAPACITY PLATE CAREFULLY

The maximum weight capacity is listed on the certification plate. This maximum weight includes all items added to the boat (persons and gear). Also, proper distribution of weight is critical to the boat's performance. Allocate the load as evenly as possible.

NAME OF MANUFACTURER	CANADIAN ELECTRIC BOATS CO 440 Rue Guindon, Saint-Eustache, QC Canada	MAXIMUM LOAD CAPACITY. OUTLINE THE MAXIMUM LOAD (PASSENGERS + GEAR) THAT CAN BE ADDED TO THE BOAT.
NAME OF BOAT MODEL	FANTAIL 217	
OUTLINE THE MAXIMUM NUMBER OF PASSENGERS THAT CAN BE SECURELY ON BOARD	CE DESIGN CATEGORY : D MAX10  +  = 784 kg	OUTLINE THE MAXIMUM POWER THE MOTOR CAN HAVE FOR THIS TYPE OF BOAT
	2 Kw  MAX	



NEVER EXCEED THE MAXIMUM RECOMMENDED NUMBER OF PERSONS

as marked on the Capacity Plate. The Fantail 217 is approved by the Canadian and US Coast Guard for 8 to 10 adults. Make sure that all the seats are properly in place before departure.



THE MAXIMUM LOAD CAPACITY OF THE FANTAIL 217 IS 818 KG OR 1,800 LBS

Never overload your boat. Make sure that the load is balanced inside the boat in order to keep stability.



MAXIMUM MOTOR POWER

The Fantail 217 has been designed and built for slow speed and environmentally friendly water displacements. The motor is a 4KW or 5HP powered by 8 batteries. The motor should never exceed 10KW or 10HP.



ONLY THE COCKPIT IS DESIGNATED AS PART OF THE WORKING DECK

All other horizontal surfaces should not be stepped on while operating your Fantail 217 electric boat since they do not offer any protection against falling overboard.

2. GENERAL SAFETY

SPEED & RANGE

Speed and range in an electric boat are inversely proportional. At high throttle settings, two factors operate to reduce range. First, hull drag follows roughly a square law function – doubling speed requires four times as much power. Second, available battery capacity decreases approximately linearly as the rate of power draw increases – the faster the battery power is being consumed, the less total energy is available.

SETTING E-DRIVE

Low speed 10 - 12 hours

Medium speed 8 - 10 hours

Top speed 5 - 6 hours

Note: Run time will vary significantly with wind and water conditions.

SAFETY EQUIPMENT

Federal law requires certain safety equipment to be on-board at all times.

Check the local boating authorities for any additional requirements over and above the federal stipulations.

RECOMMENDED EQUIPMENT

To avoid any problems during an outing, the following additional equipment is recommended as a minimum (your CEBC dealer can also assist you with additional recommendations) :

- A manual bailing device for removing water
- A day and night visual distress signal
- A first aid kit and manual
- A waterproof flashlight
- Mooring lines and fenders
- A paddle
- A portable AM/FM radio
- A communication device such as a VHF radio or cellular phone
- A portable fire extinguisher
- Anchor



MINIMUM MANDATORY SAFETY EQUIPMENT

Transport Canada's Office of Boating Safety's Safe Boating Guide outlines the minimum mandatory safety equipment that must be aboard your boat, safety precautions to follow before and while boating, and construction standards for building pleasure craft. (Information about this publication is available online or at a local Transport Canada Centre or call the Boating Safety Infoline at 1-800-267-6687).

CEBC strongly recommends that you get a copy of the Safe Boating Guide, printed by Transport Canada or visit the website at www.boatingsafety.gc.ca.

You are violating the Small Vessel Regulations if you operate a pleasure craft that does not have all the required equipment onboard, or if it is not in good working order.

Federal law requires at least one personal flotation device (PFD) for each person on board. It is advisable that children always wear a PFD (local laws may require that children wear PFDs).



REMEMBER : IT WON'T WORK IF YOU DONT WEAR IT!

For US citizens, we invite you to visit the US Coast Guard Boating Safety web page at : www.uscgboating.org.

2. GENERAL SAFETY

PLEASURE CRAFT OPERATOR CARD (for canadian boaters)

The Competency of Operators of Pleasure Craft Regulations require operators of pleasure craft fitted with a motor and used for recreational purposes to have proof of competency on board at all times.

To learn more about the Pleasure Craft Operator Card, please visit the web site at :
www.theoperatorcard.ca

CRIMINAL CODE OF CANADA

Behaviors that are offences under the Criminal Code of Canada includes :

- Operating a vessel dangerously
- Operating a vessel while impaired
- Failing to stop at the scene of an accident
- Operating an unseaworthy vessel

HIN

The Hull Identification Number can be found at the top right corner of the stern, the back of the boat.



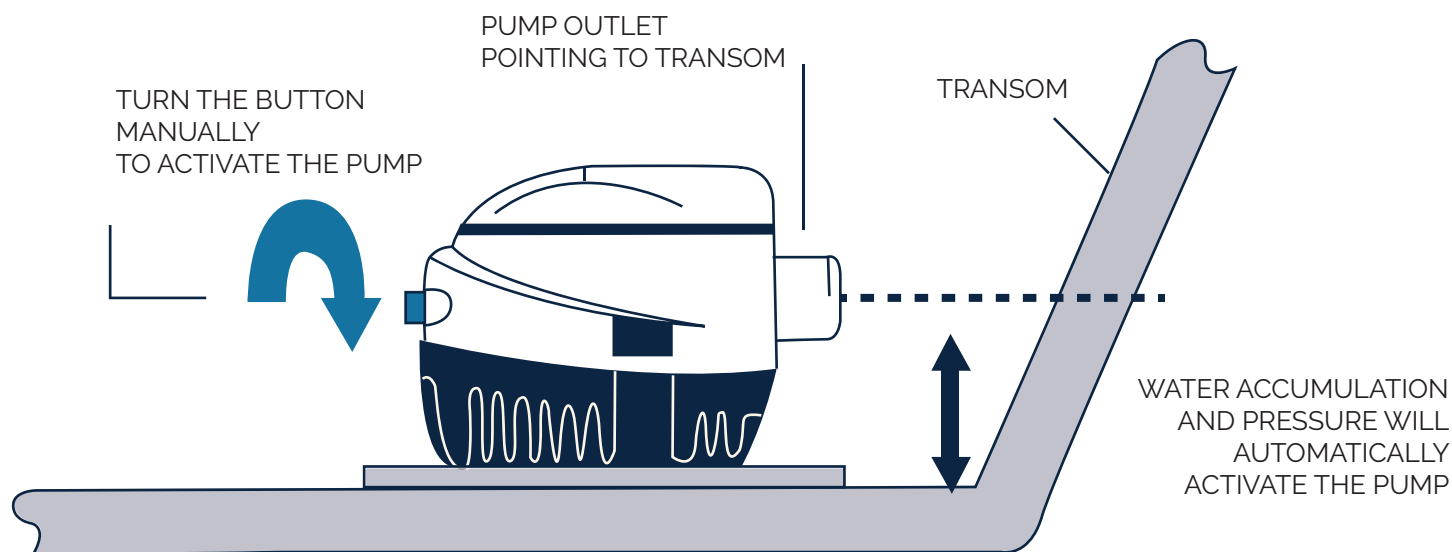
HULL IDENTIFICATION NUMBER

Canadian and US Federal laws prohibit the removal or tampering of the Hull Identification Number in any way.

3. BILGE PUMP AND WATER DRAINAGE

The Fantail 217 is equipped with an automatic bilge pump. The pump is located in the bottom of the hull, just underneath the stowable panel.

The pump can be activated manually, by pushing the bilge pump switch located on the control panels or is activated automatically by the accumulation of water and water pressure. See the graphic below.



THERE ARE THREE MAJOR REASONS WATER CAN ACCUMULATE IN THE BOAT:

1. THROUGH CONDENSATION AND EVAPORATION OF WATER

Water can accumulate in the flotation tanks. This happens more frequently in the spring when water is still cold and the air gets warmer. Remove drain plug (1) from the stern flotation tank located behind the rear seat. See picture above.

2. WATER CAN INFILTRATE THE BOAT BOTTOM THROUGH CRACKS IN THE HULL OR THE KEEL

If this occurs, have your boat checked immediately and repairs done at your nearest service centre.

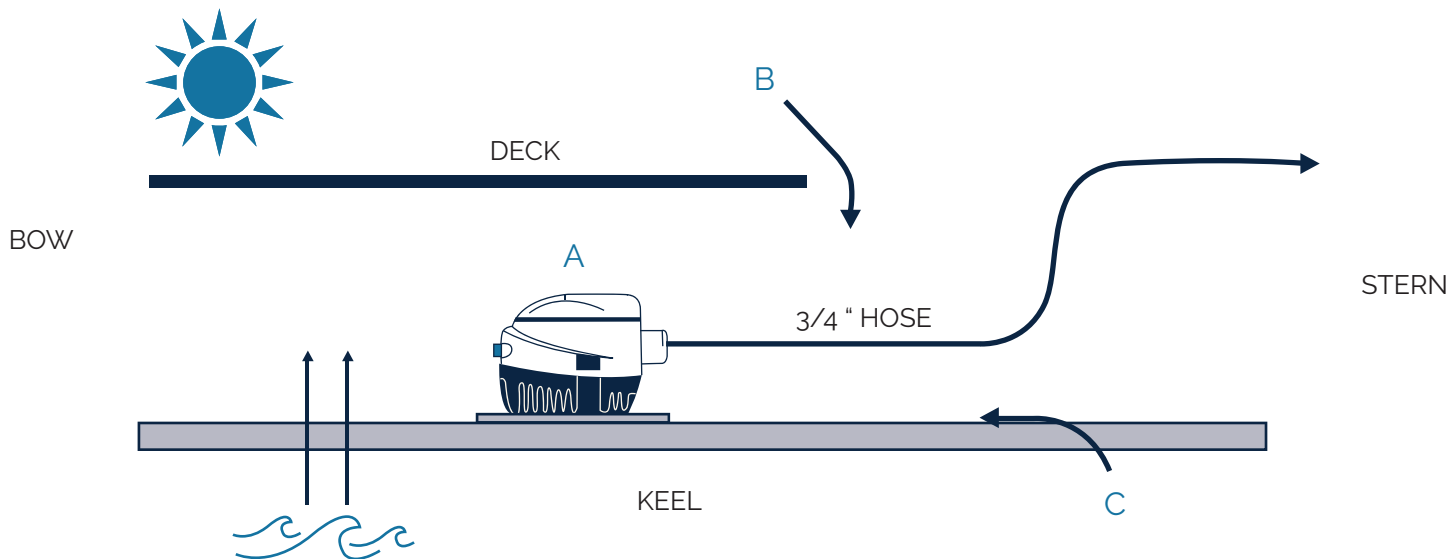
3. HEAVY STORMS CAN FLOOD THE COCKPIT

Always carry a manual bailing device. Even if the bilge pump has a capacity of 1,000 gallons/hr (4,158 litres/hr), storms can sometimes be very powerful and flood the cockpit, even when the pump is pumping out water at full capacity.

The water is expelled by the bilge pump towards the stern through $\frac{3}{4}$ " hose that runs all the way to the tilt compartment. See picture above..

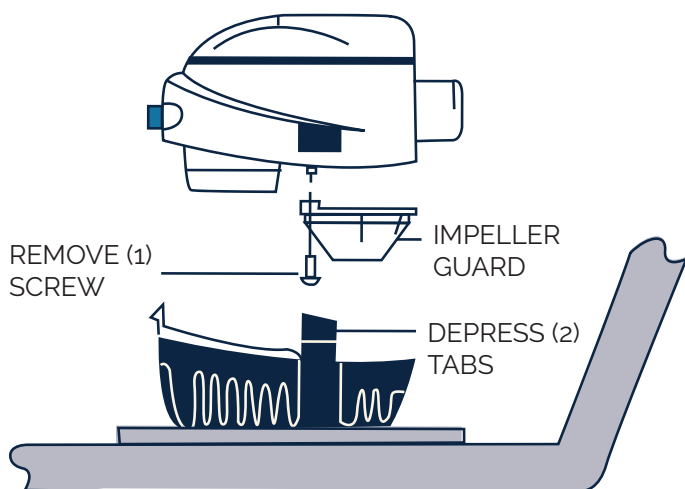
3. BILGE PUMP AND WATER DRAINAGE

DIAGRAM OF BLIGE PUMP AND DRAINAGE SYSTEM



- A - Automatic of 1,100 gallons/hr or 4,158 liters/hr
- B - Heavy storms could easily flood the cockpit
- C - Cracks in the hull will permit water infiltration into bottom

CARE AND MAINTENANCE OF BLIGE PUMP



- Occasionally check your pump to be certain debris is not jamming the impeller and/or float within the housing. Use the test knob by rotating in a clockwise direction. Careful attention will guarantee outstanding pump performance.
- To clean the water chamber, remove pump housing from the mounting base by pressing in tabs on sides. Lift the pump housing away.
- To clean the impeller, remove the impeller guard screw and lift the impeller guard.
- Remove all debris that has accumulated in pump chamber and around the impeller. Ensure that all debris is removed from strainer slots around the pump base.
- Inspect the impeller to ensure that it is firmly attached to shaft and is not cracked or broken.
- Replace impeller guard, screw, and pump housing on base.
- Be certain that all tabs are fully engaged.
- Periodically check the electrical connections to ensure they are water-resistant and mounted high and dry.
- Do not use household cleaners on the pump because many of them may damage the pump materials.

4. ELECTRICAL SYSTEM

GENERAL OVERVIEW

The electrical harness of your Fantail 217 is built to American Boat & Yacht Council (ABYC) standards. It is design for maximum efficiency and security.

Your electric boat is equipped with for or six batteries plugged in series. The outboard electric motor is a 48V, with 36 amps/hr maximum thrust. Therefore, the electrical system of your Fantail 217 is 12 V.

The diagram below shows the location of the various electrical components and the wirings. There are very low risks of possible electric shocks. Only two locations need to be approached with precaution:

1. The batteries. Connect or disconnect your batteries using protective gloves and proper tooling. The batteries weigh +/-80 lbs or +/- 37kg; moving them around necessitates proper tooling, handling and strength. It is recommended this be done at the nearest service centre or with the help of a professional mechanic (who will use the proper tooling and equipment). Check the battery section of this Owner's Manual for further details, or contact your nearest Service Centre for servicing.

2. The connections of the E-Meter (battery gauge) and the ignition switch, located under the front bench, are a possible shocks zone. Don't touch the wiring without wearing insulated gloves and use proper tooling.

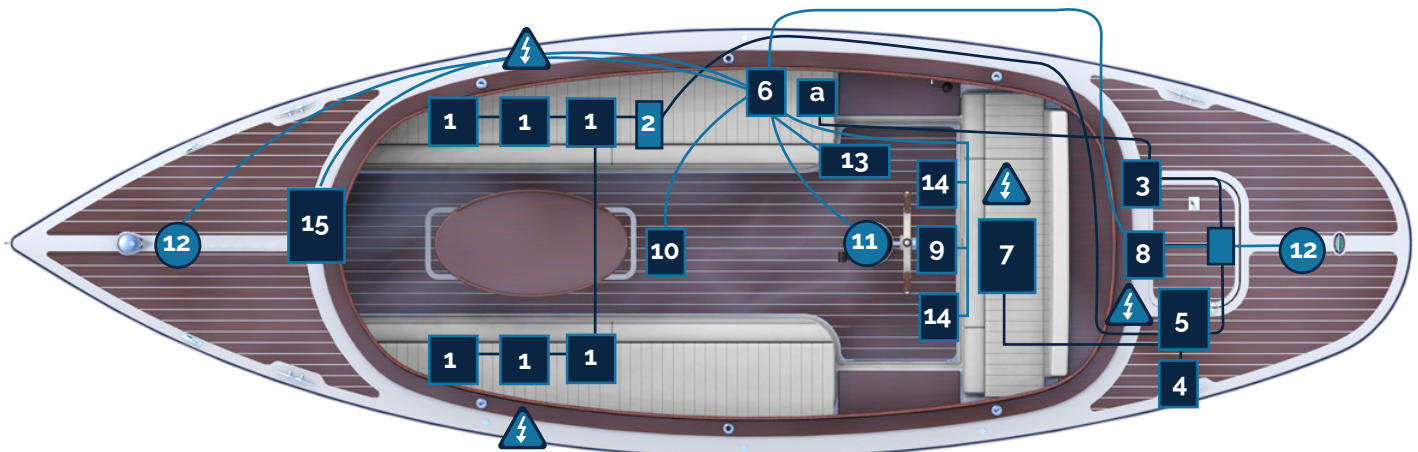


DISCONNECTING BATTERIES

Make sure that the batteries are properly disconnected when working on components of the electrical system. Always make sure that there is no residual water in the boat when working on the batteries or any other component of the electrical system.

For detailed information about the various components, please check the appropriate sections below.

DIAGRAM OF FANTAIL 217 ELECTRICAL SYSTEM



- | | | | |
|-----|--------------------|------|--------------------|
| 1 - | BATTERIES | 9 - | COCKPIT LIGHTS |
| 2 - | MAIN BREAKER | 10 - | BLIGE PUMP |
| 3 - | ONBOARD CHARGER | 11 - | COMPASS |
| 4 - | MOTOR CONTROLLER | | ELECTRONIC CONTROL |
| 5 - | MAIN CONTROL PANEL | | HELM |
| 6 - | CONTROL PANEL | 12 - | NAVIGATION LIGHTS |
| | A- CHARGER INLET | 13 - | RADIO |
| 7 - | MOTOR | 14 - | SPEAKERS |
| 8 - | CONVERTER | 15 - | 12V REFRIGERATOR |



ELECTRIC HAZARD



FUSE

5. HOW TO OPERATE YOUR BOAT

5.1 INSTRUMENTS AND CONTROL

HOW TO OPERATE THE ROTATING SPEED KNOB

Just turn the speed knob down in order to accelerate and turn it up to slow down, and eventually reverse.

THE NAVIGATION/COCKPIT LIGHT AND BILGE PUMP SWITCHES

Simply push the switches in order to activate pump or navigation lights. Navigation lights should be tested before going on the water close to sunset.

The bilge pump is designed to activate itself under water pressure. You should nevertheless test your bilge pump regularly. In case of malfunction, contact your nearest dealer or service centre.



DARKNESS

Do not venture out on the water at sunset or at night if navigation lights are not functioning properly.

5.2 ELECTRIC MOTOR

Your electric boat is equipped with a 2 HP thrust Minn Kota (E-Drive) electric motor. It is recommended to check the motor clamps for tightness periodically. Access to the motor clamps is through the hinged hatch on the rear deck.

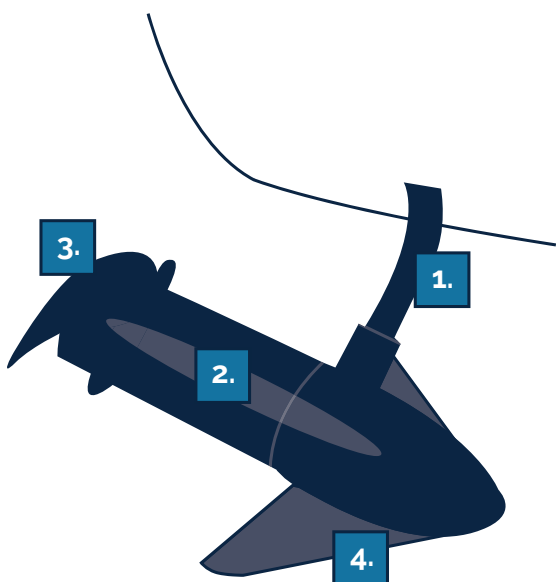


MAXIMUM SPEED

Do not run the Minn Kota's E-Drive for consecutive period of more than 20 minutes outside the water. Running your boat at maximum speed outside the water for a long period of time can damage the motor beyond repair. This is not covered by your warranty.

MINN KOTA RIPTIDE MAIN FEATURES

(1) Indestructible Composite Shaft. Pound for pound, the ultra high-yield composite material has been tested to be three times the strength of steel. Virtually indestructible, it flexes on impact and then returns to its original position. Will not kink, break, rust or corrode.



(2) Cool, Quiet Power. Minn Kota's Riptide larger brushes, windings and commutators generate less heat, less noise and run cooler—extending motor life and conserving battery power. You get greater sustained thrust and more time on the water. A unique bearing system produces low RPM/high torque to cut down on fish-spooking noise—so quiet they'll never hear you coming.



Make sure the motor of your Fantail 217 is designed for use in salt water. If the motor is not designed for use in salt water, we do not recommend putting your boat in the water. The iodine could cause significant damage to the motor and lead to the cancellation of your warranty.

There are electric engines designed for use in a salt water environment. Ask CEBC representative nearest you for additional information on this subject.

5. HOW TO OPERATE YOUR BOAT

MAINTENANCE

1. The design of the E-Drive may require occasional cleaning to remove debris or any build-up that may occur between moving parts. After cleaning wipe down with a cloth dampened with an aqueous based silicone spray such as Armor All.
2. The Propeller must be cleaned of weeds and other debris. Debris like lines (fishing and other) can get behind the prop, wear away the seals and allow water to enter the motor. You should check this after every 30 hours of operation.
3. The composite shaft requires periodic cleaning and lubrication for proper retraction and deployment. A coating of Armor All will provide "like new" operation.
4. The weedless 2 wedge propeller is designed to provide absolute weed free operation with very high efficiency. To maintain top performance, the leading edge of the blades must be kept smooth. If this edge is rough or nicked, restore to smooth by sanding with fine sandpaper.
5. For prolonged storage, lightly coat all metal parts with silicone spray.

TROUBLESHOOTING

1. MOTOR FAILS TO RUN OR LACKS POWER

- Check batteries connections for proper polarity.
- Make sure terminals are clean and corrosion free. Use fine sandpaper or emery water cloth to clean terminals.
- Check propeller for weeds or debris.

2. MOTOR LOSES POWER AFTER A SHORT RUNNING TIME

- Check battery charge, if low, restore to full charge.

3. BATTERIES WON'T REACH FULL CHARGE

- If a battery is drained below 8 volts it will be detected as faulty by the charger. It will then be necessary to recharge this battery by an exterior charger.
- Turn off all accessories before recharging the batteries.

4. MOTOR IS HARD TO STEER

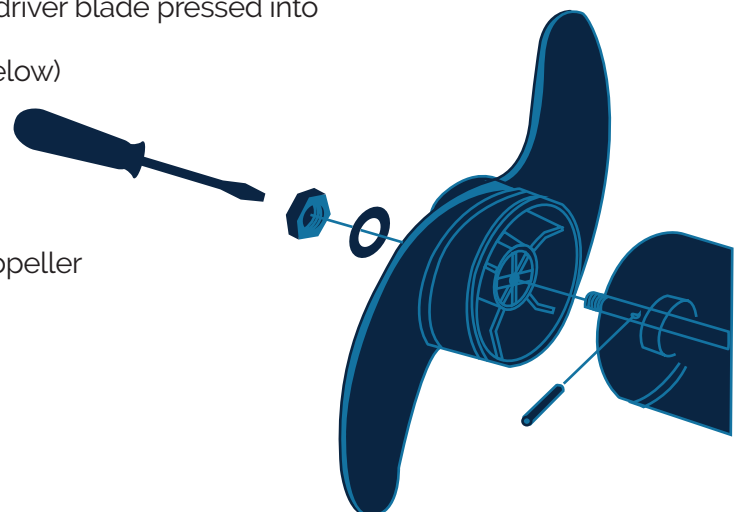
- Check the steering cable
- Check for accumulation of weeds or debris on the shaft
- Check if motor is not block up by sand, rocks or vegetation

5. PROPELLER VIBRATION DURING NORMAL OPERATION

- Check for scratches or breaks on propeller
 - Remove debris stuck on propeller
 - Remove and rotate the propeller 180°

PROPELLER REPLACEMENT

1. Hold the propeller and loosen the prop nut with a pliers or a wrench.
2. Remove prop nut and washer. If the drive pin is sheared/broken, you will need to hold the shaft steady with a screwdriver blade pressed into the slot on the end of the shaft.
3. Turn the old prop to horizontal (as illustrated below) and pull it straight off. If drive pin falls out, push it back in.
4. Align new propeller with drive pin.
5. Install prop washer and prop nut
6. Tighten prop nut $\frac{1}{4}$ turn past snug. Be careful, over tightening can damage the propeller



5. HOW TO OPERATE YOUR BOAT

TROUBLESHOOTING

PROBLEM

POSSIBLE CAUSE

NO DISPLAY
STAYS AT FULL
WILL NOT RESET

Terminals not connected or improper voltage
Indicator voltage different than batteries voltage
Indicator voltage different than batteries voltage or batteries not fully charged

RESET WITHOUT CHARGING BATTERIES
EMPTY TOO SOON

Not connected directly to batteries terminals
Indicator voltage different than batteries voltage or terminals not connected directly to batteries



DEFFECTIVE POWER LEVEL INDICATOR

If your battery power level indicator is defective, contact your nearest CEBC representative as soon as possible. We do not recommend using your Fantail 217 without a completely functional battery power level indicator. You risk becoming stranded in the middle of a body of water without power.

5.3 MAIN BREAKER

The main function of the Fantail 217 breaker is to protect the motor and the accessories, including the bilge pump and the navigation and cockpit lights, from electrical overload. To make a comparison with the computer world, we can say that the main breaker acts as a firewall, and protects the vital elements from overloading and burning out.

The breaker allows the operator to cut the energy to the motor. Your motor will not operate if the motor breaker switch is in the OFF mode.



BREAKER SWITCHES AND MOTOR BREAKER

Always turn the motor breaker switches OFF after docking your boat. Always make sure that the motor breaker switches are on the ON mode when you go out on the water. Please check your bilge pump and the navigation lights. If pump doesn't work, have it fixed before leaving. If navigation lights don't work, don't venture out at dark.

5.4 IGNITION SWITCH

Your Fantail 217 comes equipped with 1 ignition key that work like most other conventional propulsion systems. Insert the ignition key into the ignition switch and turn the key to the right. Your engine is then fed with electricity. The battery power level indicator will turn on automatically.

If the battery power level indicator does not turn on, consult the appropriate section of the Fantail 217 manual for the possible causes. Make sure that the Main Breaker is in the "ON" position.



SPARE SET OF KEYS

Keep one set of keys in a safe place. Purchase a floating key chain to make sure that you do not lose your ignition key in the water. If you lose both sets of ignition keys, a new ignition switch will have to be installed. Your warranty does not cover this type of mishap.

5. HOW TO OPERATE YOUR BOAT

5.5 THE HELM

The helm is located in the vertical face beneath the rear bench. Moving the arm to the left steers the boat to the left, moving the arm to the right steers the boat to the right.



TROUBLESHOOTING

VIBRATIONS

If the handle vibrates in a strange way. Verify that weeds, or any other substance, are not lodged on the propeller shaft, the motor or propellers. You can check for obstructions on any of the components of the propulsion system. If obstructions are present, remove them carefully. If the problem persists, contact the dealer nearest you.

REDUCED MANOEUVRABILITY

The helm offers a strong, unexpected resistance. Verify that the motor, propeller or propeller shaft are not obstructed by weeds, rocks or sand. Never force the helm; this could result in damage to the steering or one of the components of the propulsion system.

NO MANOEUVRABILITY

The helm turns very easily and the boat fails to respond. Verify that the steering or one of its components is not severed, damaged or missing. This operation can be undertaken by raising the hatch, located on the back deck and the motor control panel (photo above), located at the stern of the boat.

5.6 BATTERY GAGE (E-Meter)

The Fantail 217 is equipped with a battery power level indicator located on the top consol of the helm. The indicator is automatically activated when the ignition key is inserted in the starter. You will then be able to read the battery power level at any time while your boat is in use.

HOW TO READ YOUR E-METER

Take a close look at the diagram below. It shows how the e-meter "reads" the energy reserve of your batteries.



MINIMUM BATTERY CHARGE

You should never sail at more than 20% of charge. When the battery indicator LED alternately flash in RED, it indicates that the batteries are at less than 20% of charge. You are about to run out of power. Sailing at lower than 20% of charge could seriously damage your batteries.

5. HOW TO OPERATE YOUR BOAT

5.7 BATTERIES

The Fantail is equipped with 8 state of the art 6V marine batterie which has been designed to provide both starting and reserve power for marine applications.



DO NOT TOUCH THE BATTERIES WHILE OPERATING

Never touch the batteries while out on the boat. If you need to remove the batteries or access the battery compartment, please make sure that the ignition switch is OFF and that the main breaker switch is OFF too.



BATTERIES ARE HEAVY

Batteries are heavy and weigh +/- 80lbs or +/- 37kg. When installing or removing batteries, you should always be careful not to hurt your back. It is recommended this be done at the nearest service centre or with the help of a professional mechanic that will use the proper tooling and equipment.



BATTERY LIFE

Minimising the use of the highest speed setting will significantly extend your run-time before the batteries need to be recharged. It also extends the life of the motor itself.

Battery lifetime will also be extended by plugging into the charger as often as possible. Once the charger has fully charged the batteries, it will safely maintain a full charge if left plugged in.

5.8 CHARGING BATTERIES

The battery charger inlet is located on the dashboard.



SMART CHARGER

The integrated charger in the Fantail 217 adjusts the exit voltage to ensure that the batteries reach their gas formation threshold and receive a full charge. In high temperatures, the charger will protect the batteries from boiling as a result of overloading. A red signal indicates a problem in the electrical circuit. The charger is also submersible.



When connected to AC power, the green POWER ON LED (A) should illuminate. While the batteries are charging, the charger shows a yellow indicator light. When the POWER ON LED is showing a yellow light, the charger is connected properly and is charging the batteries. If the green light comes on, the batteries are over 90% charged and are being maintained.

5. HOW TO OPERATE YOUR BOAT

5.9 SHORE POWER

The battery charging system operates automatically to charge and maintain the batteries. It is recommended to plug in the battery charger whenever the boat is dockside. After fully discharged (at 80% depth of discharge), the charger should be plugged in for at least 12 hours whenever possible.

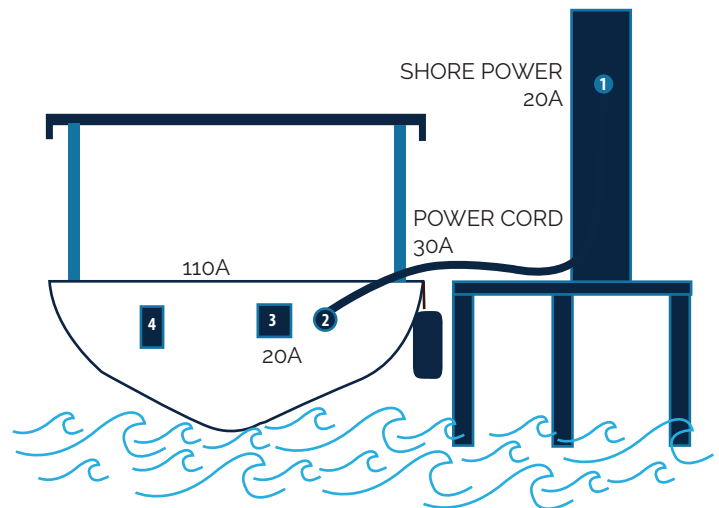
When in storage, it is recommended to either leave the charger plugged in all the times, or for at least 8 hours monthly to maintain a full charge.

Shore Power should be standard 125 Volt AC 20 ampere or 220V - 2- ampere service. The Shore Power cable should always be plugged in with dockside power disconnected by assuring the dock side circuit breaker is turned OFF. After the Shore power cord is connected to the boat, the shore power circuit breaker can be turned on.

To ensure that the charger is operating properly, check that the green indicator light located on the charger is on. During charging, your E-Meter should display a positive number to indicate that current is flowing to the batteries.

DIAGRAM OF SHORE POWER CIRCUIT

1. SHORE POWER INLET WITH BREAKER
2. ONBOARD INLET CHARGER
3. ONBOARD BATTERY CHARGER OF 20A
4. MAIN BREAKER



Make sure that shore power circuit is equipped with a breaker unit when you dock your boat.

If power cord falls into water, the shore power breaker should automatically cut the flow of electricity. Don't take any risk: never swim close to a boat when the batteries are charging.

The shore power main breaker should also protect your boat from overcharge. It may happen that a failure in the circuit will permit the flow of overloaded electricity into the boat. The boat's main breaker will protect the vital components like the motor, the navigation lights and the bilge pump, but not the charger and the batteries. They could be affected by the overload, or even be damaged beyond repair.



FIRE HAZARD

Small power cord with less than 20A of capacity will likely overheat, increasing the risk of causing a fire. Never use a power cord of less than 20A capacity.



RECOMMENDED POWER CORD

Recommended shore power cord : Marincor 30A 125V 50' Power Cord Plus or 30A 240V - 50' Power cord. CEBC recommends that you use a waterproof power cord of at least 30A of capacity. New 30 amp 125 volt 50' cordset features Ergo Grip- molded ends contoured to the grip of the boaters hand. The LED indicator light molded into the female end of the cord confirms connection.

6. ACCESSORIES

6.1 CANOPY

The canopy roof consists of a light-weight aluminum frame with a Sunbrella covering that is supported by four stainless steel posts. The roof has two zippered openings to make getting in and out of the boat easier. The zippers are functional from inside or outside the boat.



1. With the roof in its lowered position, install the Sunbrella covering onto the aluminium frame using the covering's Velcro attachments.
2. Install the covering as tautly as possible to prevent sagging.
3. Install the 6 support posts into the base brackets on the wooden coming.
4. Insert the quick release pins.
5. Install the roof frame onto the support posts, making sure that the stainless steel buttons click into the holes at the top of the support tubes.

Roof installation is easier with 2 people.

For storage and trailering, reverse the assembly process to remove the support tubes and lower the roof frame down onto the base brackets, thereby using the roof as a cover, and lower seats backs.



TRAILERING

It is not recommended to trailer the boat at highway speeds without a boat full cover to protect the roof material, since there is a possibility of it getting frayed by the wind.

6.2 SEATS AND STORAGE COMPARTMENTS

The Fantail Electric Boat has been designed to offer plenty of storage space under the front and back seats. You should use this storage space to store all your safety equipment, including the anchor and the fenders. Never forget to have your PDF's nearby.



SEATS

Always make sure that the seats are properly in place before departure.

6.3 LIFTING THE BOAT



When the boat is hoisted from the water, use the lifting eyes located in the bow (1) and rear (2) of the boat, or a sling for easy, damage free lifting.

6. ACCESSORIES

6.4 STOWABLE TABLE



The Fantail 217 comes equipped with a stowable table. The table post fits into the base plate inserted into floor, and the table itself fits into the table post making it easy to install or store away.

6.5 COCKPIT AND FULL BOAT COVERS



CEBC uses only the finest and strongest products on the market. The Fantail 217 canopy, and cockpit and full boat covers are made with Sunbrella fabrics. Made from solution-dyed acrylic yarns, these fabrics are fade-resistant and stand up easily to all kinds of weather including salty air. Plus, all Sunbrella's fabrics are woven, which makes them breathable, so it doesn't trap heat and moisture like vinyl. Nor will the fabrics tear, shrink or mildew.

6.7 MARINE RADIO, 2 SPEAKERS, CD MP3 (with iPod plug)



CEBC only uses the finest product on the market. The Marine AM/FM radio and CD player is waterproof . If such a radio as been installed in your boat, we strongly suggest that you read the manufacturer owner's manual carefully. CEBC cannot be held responsible for misuse of this accessory.



DISCONNECT THE RADIO

It is important to disconnect the radio when not in use. Keeping the radio connected over a long period of time will damage the batteries.

7. HOW TO CARE FOR YOUR BOAT

Proper care and maintenance will help extend the service life of your electric boat. For spare parts, please contact your local dealer or call toll free 1-866-479-1099 to join CEBC's Consumer Service and Assistance.

Your Fantail 217 Electric Boat has been designed to provide you with years of trouble-free service if you perform some basic maintenance.

7.1 HULL

The hull of your electric boat is constructed of gel coated fiberglass, which generally requires similar maintenance as an automobile body. That is to say a waxing from time to time is all that is required in order to keep your electric boat looking good.

7.2 CLASSIC DECK AND COCKPIT BELT (Classic edition)

To maintain a classic finish on mahogany or fiber glass for rental edition. Make sure the wood does not become dry or grey. If the wood is damaged, sand the affected area with fine sandpaper (280 grit dry) before oiling it with a marine grade teck and tung oil such as Circa 1850. Then apply a special wax for furnitures such as Antiquax wax polish. The wood will be restored to its natural color.



HEAVY WEIGHTS ON DECK

Do not walk or place heavy weights on the deck surface. It is advisable to install the full boat cover when the boat is exposed to direct sunlight for extended periods.



WOOD MAINTENANCE

Never oil your Fantail 217 in direct sunlight. The wood may become marked and sanding may then be required.

7.3 BATTERIES AND MOTOR

Have your motor checked at your local dealer at least once a year. Have the electric system and batteries tested at the beginning of the season before use and at the end of the season before storage.

Refer to the motor (5.2) and the battery (5.7) sections for details on maintenance.

7. HOW TO CARE FOR YOUR BOAT

7.4 UPHOLSTERY (Marine Seats)

NORMAL CLEANING

In general, most common stains using warm, soapy water and clear water rinses. Moderate scrubbing with a medium bristle brush will help loosen soiling materials from the depressions of embossed surfaces. For more stubborn stains, use the following commonly available mild detergents in accordance with the manufacturer's instructions: Fantastic or Mr. Clean.

Note: Detergents should never be used on a regular or repeated basis for normal cleaning

Full strength rubbing alcohol or mineral spirits may be tried cautiously as a last resort on very stubborn stains, if the above suggestions do not work. Indiscriminate use of any solvent, or cleaner containing solvent can severely damage or discolor vinyl's.

Certain stains may become permanently set unless removed immediately. The procedure for removing of more severe staining agents are outlined below.

BALLPOINT INK & PERMANENT MARKER

Ink spots will stain marine vinyl permanently. Immediate wiping with rubbing alcohol in a well ventilated area will remove such stains.

OIL BASE PAINT

The use of turpentine in a well ventilated area will remove any fresh paints. Dried paint must be moistened carefully with a semi-solid gel-type stripper so that the softened paint can be gently scraped away. Rinse with soap and water.



PAINT STRIPPER

Direct contact with paint strippers will remove the print pattern from vinyl. Paint strippers are very corrosive. Take care to avoid skin contact by wearing proper protection.

LATEX PAINT

Fresh paint can be wiped off with a damp cloth. Hot, soapy water will remove dried latex paint.

TAR/ASPHALT

Remove immediately, as prolonged contact will result in a permanent stain. Use a cloth lightly dampened with mineral spirits and rub the stain gently, working from the outer edge of the stain towards the center in order to prevent spreading. Rinse with soap and water.

CRAYON, MUSTARD, KETCHUP

Sponge with mild soap water. For stubborn stains that may have set, use a cloth soaked with diluted mild detergent with gentle rubbing.

CHEWING GUM

Scrape off as much as possible with a dull knife. Rubbing with an ice cube will assist and make it easier to remove when scraping. The remaining gum should then be removed in a well ventilated area using a cloth saturated with mineral spirits. Use light rubbing, and rinse thoroughly with water.

LIPSTICK, GREASE, OIL, EYE SHADOW, SHOE POLISH

Apply a small quantity of mineral spirits by means of a cloth with gentle rubbing. Take care not to spread the stain by smearing it beyond its original source. No time should be lost when removing shoe polish since it contains a dye which will cause permanent staining. Rinse thoroughly with water.

CANDY, ICE CREAM, COFFEE, TEA, FRUIT STAINS, LIQUOR, WINE, SUNTAN LOTION, SOFT DRINKS

Use clear, lukewarm water and a sponge repeatedly. Any loose material should be gently scraped with a dull knife. Any soiled area remaining after drying should be gently rubbed with a cloth spotted with a mild detergent solution. Rinse thoroughly with water.

7. HOW TO CARE FOR YOUR BOAT

7.4 UPHOLSTERY (suite)

BLOOD OR LEAF RESIDUE

Rub any spot with a clean cloth soaked in cool water. If stubborn spots remain, use household ammonia and rinse repeatedly with a clean, wet cloth. Do not use hot water or soapsuds, as this will set the stain.

BIRD EXCRETA AND NAUSEA STAINS

Sponge the stained area with soapy water containing diluted bleach until the stain is removed. Rinse thoroughly with water.



POWDERED ABRASIVES

Powdered abrasives, cleaners containing abrasives, and industrial strength cleaners are not recommended for Morbern Vinyls.

Any lacquer solvent will cause immediate, irreparable damage to the vinyl.

Wax should never be used on any vinyl upholstery, as it will cause premature embrittlement and cracking

7.5 CANOPY AND BOAT COVERS

One of the best ways to keep Sunbrella brand fabrics looking good and to delay the need for deep or vigorous cleanings is to hose fabrics off on a monthly basis with clear water. This practice will help prevent dirt from becoming deeply imbedded in the fabric and eliminate the need for more frequent vigorous cleanings. In most environments, a thorough cleaning will be needed every two to three years.

When it's time for a thorough cleaning, Sunbrella fabrics can be cleaned while still on an awning frame or a boat or, size permitting, they can be removed for cleaning in a washing machine.

WHEN CLEANING SUNBRELLA FABRICS, IT IS IMPORTANT TO OBSERVE THE FOLLOWING:

- Always use a mild soap i.e. Ivory Snow, Dreft or Woolite. Never detergent.
- Water should be cold to lukewarm. Never more than 100 degrees.
- Air dry only. Never apply heat to Sunbrella fabrics.

IF YOU ARE CLEANING SUNBRELLA WHILE STILL ON AN A BOAT, FOLLOW THESE SIMPLE STEPS:

- Brush off loose dirt.
- Hose down.
- Prepare a cleaning mixture of water and mild soap (no detergents).
- Use a soft bristle brush to clean.
- Allow soap to soak in.
- Rinse thoroughly.
- Air dry.

If stubborn stains persist, you can use a diluted chlorine bleach/soap mixture for spot cleaning of mildew, roof run-off or other similar stains.

PREPARE A SPECIAL CLEANING MIXTURE:

- Eight ounces (one cup) of chlorine bleach.
- Two ounces (one-fourth cup) of mild soap.
- One gallon of water.
- Clean with soft bristle brush.
- Allow mixture to soak for up to 20 minutes.
- Rinse thoroughly.
- Air dry.
- Repeat if necessary.

7. HOW TO CARE FOR YOUR BOAT

Remember to protect the area around your Sunbrella if using a bleach solution. Carpet or other fabrics that are not Sunbrella may have an adverse reaction to the bleach.

IF A BOAT COVER IS SUITABLE IN SIZE FOR A WASHING MACHINE, THESE STEPS SHOULD BE FOLLOWED:

- Use only mild soaps. No detergent.
- Wash and rinse in cold water.
- Air dry. Never put Sunbrella fabrics in your dryer.

RE-TREATING THE FABRIC

As part of the finishing process, Sunbrella fabrics are treated with a fluorocarbon finish, which enhances water repellency. This finish is designed to last for several years, but must be replenished after a thorough cleaning. Based on test results, Glen Raven recommends 303 High Tech Fabric Guard™ as the preferred re-treatment product for Sunbrella fabrics. Fabrics should be retreated after thorough cleaning or after five years of use. Check with your local Sunbrella dealer or distributor for more information.

APPLYING 303 HIGH TECH FABRIC GUARD™

303 should be applied to Sunbrella fabrics after each thorough cleaning, which typically removes the original fluorocarbon finish and reduces the fabric's water repellency. After cleaning the fabric, allow it to air dry completely and then apply 303 in a thin, even coat. After allowing the first coat of 303 to air dry, apply a second thin, even coating of 303. Two light coatings are more effective in restoring fabric water resistance than a single heavy coating. A 15-ounce bottle provides coverage of up to 50 square feet of lightweight fabric. Always apply 303 to clean fabric.

PROFESSIONAL AWNING CLEANERS

You may have access to professional cleaning firms that service awnings. In evaluating the services of a professional firm, you should inquire about a firm's experience in working with Sunbrella fabrics and knowledge of cleaning and retreatment requirements.

7.6 STORAGE

To prepare your electric boat for outdoor storage make sure that there is no residual water in the hull. Drain any water out of the front and rear flotation tanks by removing drain plugs. Lower roof assembly and install a boat cover.

During winter storage or extended storage, it is recommended to remove the batteries and keep them in a dry area where the temperature does not drop below freezing point. Keep the batteries fully charged by periodically putting them on trickle charge.

8. TRAILERING

For proper trailering, we strongly suggest that you use the special trailers made especially for CEBC's boats. These trailers have been designed to trailer the Quietude 156 and the Fantail 217 for short and long distances. CEBC can not cover under warranty damage to a product caused by improper trailering.

8.1 HOW TO PROPERLY TRAILER YOUR BOAT



Carefully read the manufacturer instructions and warnings located in the front of your trailer.

Tie the front bow eye of the boat tightly to your trailer. The bow keel should slowly slide on the rubber cushion located at the bottom of the trailer. The rubber cushion protects the keel from the metal of the trailer. If the rubber cushion is worn out or missing, install a temporary soft interface like foam or a towel. Always make sure that the bow eye is hooked to the trailer tie down strap and that the security hook is also attached to the bow eye.



POWDERED ABRASIVES ARE NOT RECOMMENDED
Never trailer your boat without the rubber cushion properly in place or with at least some kind of protective equipment installed on the front bottom of the trailer. Trailering without some kind of protective equipment or rubber cushion properly installed will damage the keel. CEBC doesn't warranty such damages.



Tie the rear of the boat to the trailer using tie down straps. Each rear bow eye should be tied down to one end of the trailer. Check that keel is centered on the trailer. Make sure that the motor shaft is properly attached to reduce the risk of loosening up parts due to road bumps and vibrations.

7. HOW TO CARE FOR YOUR BOAT

8.2 CHECK LIST BEFORE DEPARTURE

1. Wash your trailer after dipping in saltwater. Saltwater is incredibly corrosive. Rinsing off the trailer will greatly prolong your trailer's useful life.
2. Check your tire pressure. Trailer tires are different from car tires so check the tire sidewall for correct tire pressure (often 50-65 psi - much higher than your tow vehicle).
3. Check your tire tread.
4. Check the lights. Have someone depress the brake pedal and use the turn signal while you stand behind the vehicle and ensure the correct lights illuminate.
5. Use tie down straps. These inexpensive straps help secure your boat to the trailer. Every boat should be secured with several tie-down straps. Your winch strap is not a tie down strap.
6. Check to make sure all of your fasteners are tight.
7. If you are storing your boat be sure to block and cover your trailer tires. Remember rubber degrades when exposed to sunlight and also rots when exposed to the ground. You may wish to shade your tires. Moving your trailer periodically or jacking your trailer off the ground will help reduce dry rotting of your tires.
8. Use safety chains correctly. Chris-cross the chains below the tongue.
9. Do not put too much weight on your trailer. Gear can add a lot of weight - even if your boat can handle all of the gear, look at the weight rating on your trailer and do not exceed the maximum weight.
10. Grease your bearings. If you do not have good grease in your hubs, your trailer cannot roll.



EMERGENCY TRAILER REPAIR KIT

We strongly encourage trailer owners to carry some equipment in the event of an emergency. You should assemble an emergency trailer repair kit. Contents can include a spare wheel and tire, lug wrench, wheel chocks, bearing grease, extra hub assembly, extra line (for the winch and tie-down straps), replacement light bulbs, wheel bearings and road flares (or road markers).

8.3 TRAILER TROUBLESHOOTING GUIDE

BOAT LOADING - BOAT IS DIFFICULT TO LOAD

- Verify that your trailer is partially submerged. You should not be using your winch to forcefully pull your boat onto your trailer.
- Check for obstructions on your boat (hull or equipment).
- Check for obstructions on your trailer.

BOAT UNLOADING - BOAT IS DIFFICULT TO UNLOAD

- Verify that your trailer is partially submerged - your boat should partially float off your trailer.
- Verify you have unhooked winch strap and tie-down straps.
- Verify your motor is not impacting the ramp and / or ground.

OVERWEIGHT - TRAILER IS OVERLOADED

- Remove excess gear while towing your boat.
- Verify that the hull is structurally sound as this may be the first sign that the water has entered into the hull lining or is trapped in one of the holds.

COUPLER - IMPROPER COUPLER FIT

- Verify the hitch ball and coupler are the same size.
- Verify the coupler is free from debris.
- Verify that the hitch ball is securely fastened to the tow vehicle.
- For hand-wheel coupler only, verify operation of hand-wheel and attached pawl.
- See your dealer - You should not attempt additional adjustments to the hitch.

8. TRAILERING

8.3 TRAILER TROUBLESHOOTING GUIDE (SUITE)

WINCH - FAILS TO OPERATE

- Verify handle is securely fasten to winch and engaged.
- Extend cable, rope or strap completely and verify that it is securely fastened to the winch barrel.
- Visually inspect gears for signs of wear and replace gears as necessary.

WHEELS / HUBS - EXCESSIVE HEAT



HEAT WARNING

You should never attempt to touch any vehicle's hubs - all hubs get warm during operation. Only test with an appropriate tester (e.g. temple stick).

AFTER THE HUB HAS COOLED

- Try adding grease via Posi-Lube or Buddy Bearing.
- Have your dealer inspect and repack your bearings.
- Free spinning / cross-threaded / damaged lugs.
- Have your dealer replace damaged lugs and lug nuts.

TIRES - TIRE WEAR / UNEVEN TIRE WEAR

- Check tire pressure.
- Check to see if an object (such as the fender) is rubbing against the tire when the boat is on the trailer.
- Check to see that the hubs do not have excessive wobble. This could indicate improperly packed hubs or wear on hub components.
- Check trailer capacity versus towing load.
- Check trailer alignment.

ELECTRICAL - LIGHTS DON'T WORK

- Verify wire harnesses are free of dirt, debris and water and are properly attached.
- Verify that the two harnesses properly mate - are the same type.
- Check vehicle, that towing vehicle lights work
- Check ground on trailer and and ground on tail lights (if equipped with separate tail light ground circuit).
- Look for any pinched, frays or cut wires and replace as necessary. Before replacing, disconnect the trailer from the tow vehicle and verify that there is no charge in the trailer circuitry.
- Check bulbs and replace as necessary.

9. SALTWATER OUTBOARD MOTOR

The Fantail 217 comes originally equipped with a saltwater outboard electric motor. This motor is recommended for saltwater use. Always make sure the sacrificial anode is in good condition. Replace the anode if required by visual inspection.



SALT WATER OPERATION

It is not recommended to use the Fantail 217 in a saltwater environment unless the outboard motor is saltwater proof. Using the freshwater version of the Fantail 217 in a saltwater environment will cause premature fatigue of the outboard motor.

SACRIFICIAL ANODE



10. GENERAL TROUBLESHOOTING

Your electric boat can occasionally have some minor mechanical or electrical problems. The following charts will assist you in finding and correcting them. If you suspect a problem not addressed here, please contact your CEBC Dealer.

PROBLEM

SOLUTIONS

THE ENGINE WILL NOT START

- Check to see if the ignition key is well inside the ignition switch and turned in the right position.
- Check if Main Breaker Motor Connector is « ON ».
- Check to see if the batteries are properly connected.
- Check to see if the batteries are charged (voltmeter).
- Make sure the motor switch is at the « forward » position.

If the motor still does not start, have the batteries checked by your local CEBC dealer.

THERE IS WATER ACCUMULATION IN THE BOAT

- Remove the drain plug.
- Start the bilge pump to remove excess water.
- Check for cracks in the hull

POOR BOAT PERFORMANCE

- Recharge the batteries as soon as possible.
- Drain the accumulated condensation water.
- Check the propeller for damages and remove any foreign objects impairing proper functioning.

NAVIGATIONAL LIGHTS DO NOT WORK PROPERLY

- Pull the light switch up.
- Change the light bulb (12 volt bulbs only).

POOR BATTERY CHARGING PERFORMANCE

- Use only a good quality, grounded electrical extension cord (waterproof).
- Have your local dealer test the voltage output of your extension cord (the length of the cord can impair electricity output).
- Have the batteries tested by your local dealer.

MOTOR DOES NOT STEER

- Verify that all the cables attached to the motor are at their proper place.
- Check for seaweeds accumulation on the shaft
- Check if engine is not blocked by underwater object

11. CHECKLISTS

BEFORE DEPARTURE

- Check exterior of the vessel for damage, cleanliness and correct waterline
- Ensure that hatches, seats and bow storage doors are in place and secure
- Inspect lines for wear
- Ensure that proper navigational charts and safety equipment is in order
- Make sure that there are enough flotation devices of appropriate size for everyone on board
- Test steering by opening the aft deck hatch, and turning the wheel while inspecting the linkage under the hatch to ensure it is connected and operational
- Check your E-Meter to ensure that the batteries are fully charged.
- Ensure navigation lights are operational
- Check bilge pump operation
- Verify the load of your boat is well distributed
- Check the weather forecast
- Check for local hazards or boating restrictions
- Let someone know where you are going, when to expect you back and what your boat looks like

DURING OPERATION

- Observe E-Meter and instrument panel periodically to ensure proper functioning of the electrical system.
- Listen for unusual noises or vibration
- Feel for changes in maneuverability
- Feel for changes in speed
- Always follow local laws and regulations

AFTER OPERATION

- Maneuver the vessel onto dock, and secure before recharging the batteries
- Put the ignition switch OFF
- Don't leave the keys in the boat
- Shore power cord plugged into the on-board charger
- Visual check that the charger light is green
- Clean vessel and remove dirt and debris
- Inspect bilge water level, and remove any foreign objects
- Stow PFD's and other safety gear for next use

Owners and operators of pleasure craft should brief all guests and future operators about safe operation before heading out. Guests should be told where the safety equipment is kept and how to use it.

12. CUSTOMER SUPPORT & ASSISTANCE

Should you ever need parts, technical assistance or information on your electric boat, before going back to your local dealer, you can contact CEBC's consumer support and assistance department by telephone, mail or e-mail.

In order to give you the best service, please have the following information available:

- Hull identification number of your boat or the Manufacturer Statement of Origin or MSO
- Date and place of purchase

CONSUMER SUPPORT AND ASSISTANCE : 1.866.479.1099

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