



# USER MANUAL

**JETSURF ELECTRIC**

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# 1. INTRODUCTION

**Copyright 2020; All rights reserved**

Motorized surfs were designed and manufactured by Motosurf World Cup and Formula 1 engineers to push the limits of motor sports.

JetSurf Electric parts and components are manufactured by MSR Engines, based in the Czech Republic. The company specializes in the development of combustion engines and specialized electronics.

JetSurf motorized surfs are produced in a single factory that uses the highest standards of production technology. Only the finest materials and components currently produced in the European Union are utilized. This comprehensive in-house production allows JetSurf to ensure the maximum precision and efficient production. Since 2017 the manufacturer has been an ISO 9001 certificate holder.

JetSurf motorized surfs were developed with exceptional effort to minimize environmental impact.

The information contained in this User Manual represents the most up-to-date product data available at the time of printing. Because JetSurf is committed to continuous product improvements and advancement of technology, the company reserves the right to change the product, components, specifications or other aspects of the JetSurf motorized surf without advance notice or a requirement to equip previously produced JetSurf motorized surf with these changes. You can find current upgrades on the JetSurf websites ([www.jetsurf.com](http://www.jetsurf.com)). Check this website regularly.

This User Manual for Owners or Operators (hereafter referred to as the "User Manual") cannot anticipate every circumstance involved in owning or operating the motorized surf. JetSurf strongly encourages owners and operators to regularly review the U.S. Coast Guard website ([www.uscg.mil](http://www.uscg.mil)) or the relevant coast guard and/or authority regulating the laws pertaining to the use of personal watercraft with particular attention to information provided for personal watercraft. Also check JetSurf company's website ([www.jetsurf.com](http://www.jetsurf.com)) for updates and product information.

This manual will help you to operate your motorized surf safely and easily. It contains a detailed description of the motorized surf, its supplied or built-in accessories, systems and information about their operation and maintenance. Please read it carefully and learn about the motorized surf before you start using it.

Do not set out on a ride if the conditions (wind force and wave height) do not correspond to the construction category of your motorized surf and make sure you are able to safely control the motorized surf in these conditions.

This user manual does not include detailed maintenance or repair instructions. If you experience any problems, contact the Authorized JETSURF Dealer or manufacturer of the motorized surf. If you have the maintenance manual, please follow it during the motorized surf maintenance.

Maintenance, fixing and adjustments of the motorized surf can only be made by trained and qualified personnel. Any adjustments which might affect the safety characteristics of the motorized surf have to be checked, implemented and documented by authorized person. The manufacturer of the motorized surf cannot be responsible for any adjustments made beyond authorized personnel.

In some countries it is required to have qualification or licence to operate motorized surf. Some other legislation requirements might be required. It is recommended to check the local law where the board is planned to be operated.

Each motorized surf can suffer damage if used incorrectly. It is necessary to check the water surface conditions to keep the safety of rider and motorized surf. Always make sure to adapt the speed and riding to current conditions.

The person controlling the motorized surf must use suitable swimming aids described in the chapter PERSONAL SWIMMING AIDS in this manual. It is necessary to point out that in some countries the law requires wearing swimming aids under all circumstances while using the JetSurf and is therefore necessary to comply with these national legislations.

**PLEASE KEEP THIS MANUAL AT A SAFE PLACE AND HAND IT OVER TO A NEW OWNER IF YOU SELL THE MOTORIZED SURF.**

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## 2. IDENTIFICATION PLATES AND WARNINGS

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### 2 IDENTIFICATION PLATES AND WARNINGS

#### 2.1. CRAFT IDENTIFICATION NUMBER (CIN)

The craft identification number is situated on the starboard near the stern.



CZ-MSR□□□□□□□□  
or  
JSU □□□□□□□□

#### 2.2. IDENTIFICATION PLATE OF HULL

Hull identification number shall be found on the bottom of the motorized surf.



### 3 SAFETY MATTERS

**Before using the motorized board the first time, read this entire owner's manual.**

If any of the information is not clearly understood, contact the Authorized JETSurf Dealer for clarification and further understanding prior to operating the motorized board. Safety is the primary concern of JetSurf, and it needs to be for all owners and operators as well.

The Safety information provided in this User Manual cannot anticipate every circumstance that may arise while maintaining and operating the motorized board. Basic safety information is provided and it is not all-inclusive. JetSurf strongly encourages all owners and operators to regularly review the U.S. Coast Guard safety information ([www.uscg.mil](http://www.uscg.mil) and [www.uscgboating.org](http://www.uscgboating.org))\* and other safety-minded, watercraft websites and authorities which apply to the relevant area/region under which the JetSurf motorized board is to be operated..

#### 3.1. SAFETY WARNING SYMBOLS

**This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow the symbol to avoid possible injury or death.**



##### **Info**

Indicates information with more details or tips.

---



##### **Note**

Notice is used to address practices not related to physical injury. This information could result in damages to the product that are not covered under warranty.

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##### **Caution**

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

---



##### **Warning**

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

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## 3. SAFETY MATTERS

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### 3.2. DEFINITION

Motorized surf is a term in this User Manual, mean a vessel that uses an inboard electric motor, providing power to a water-jet pump as its primary source of propulsion power. It is designed to be operated by a person ("rider" or "operator") sitting, standing or laying on the vessel. Direction of JetSurf Electric is controlled by rider leaning to one side or another, speed is controlled by throttle trigger located on the handle.

### 3.3. GENERAL COMMON SENSE

It is the responsibility of the owner and/or operator to comply with safety-related material provided in this User Manual and to regularly review safety information provided by governmental agencies and local jurisdictions. Common sense should guide owners/operators at all times, regardless of whether the motor is running or not. Failure to do so will result in serious injury or death.



#### **Warning (Risk of Accidents)**

A rider who is not fit to ride poses a danger to him or herself and others.

- Do not operate the vehicle if you are not fit to ride due to alcohol, drugs or medication.
- Do not operate the vehicle if you are physically or mentally impaired.
- Do not use electronic devices such as the mobile phone, ipod, etc., while operating the motorized surf.
- Do not transport JetSurf Electric with battery inside.



#### **Warning (Risk of Accidents)**

- Do not jump with the motorized surf. Damage caused due to incorrect use of your JetSurf Electric is not covered by the guarantee.
-

### 3.4. BATTERY



#### **Warning (Risk of Injury)**

There is a risk of electric shock when working on high-voltage components. Work on high-voltage components requires special training, qualifications and tools.

- Work which has not been described and explained may only be performed by correspondingly trained JetSurf specialists. (Your Authorized JETSURF Dealer will be glad to help you.)
- Do not open the electric motor or the JetSurf Battery Pack.



#### **Warning (Risk of Injury)**

The motorized surf runs very quietly, even when it is ready to operate.

- Ensure that the motorized surf is switched off while any work is being performed on the motorized surf.
- Remove the Battery Pack from the motorized surf before you start any work on the motorized surf.
- Protect the motorized surf against access from unauthorized persons while you are performing work on the motorized surf.



#### **Warning (Fire hazard)**

Damaged rechargeable lithium – ion battery (JetSurf Battery Pack) presents a fire hazard. Major mechanical damage may cause an internal cell short circuit and cause the battery self – ignition.

- Contact the JetSurf Dealer immediately if major damage to the rechargeable lithium – ion battery (JetSurf Battery Pack) has occurred and put it out of danger on health or ignition of other subjects close by.

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### 3.5. PROTECTIVE CLOTHING



#### **Warning (Risk of Injury)**

Missing or wearing poor protective clothing presents an increased safety risk.

- Wear appropriate protective clothing. (Helmets are therefore a mandatory accessory and should be manufactured to wear on the water, fit properly and be relatively lightweight.)
- The use of an arm or leg leash is compulsory and must be used at all times while using JetSurf Electric.
- The long hair should be tied up or secured in some fashion so that the hair cannot become entangled in the motor´s moving JetSurf Electric. Do not operate the motorized surf if you are not fit to ride due to alcohol, drugs or medication.

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## 3. SAFETY MATTERS

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- Do not wear loose clothing when the engine is in operation. It can become entangled in JetSurf Electric moving parts.
- 

### 3.6. PERSONAL FLOTATION DEVICES (PFDs)

It is the responsibility of the owner/operator to comply with any and all laws, statutes and requirements for personal safety. American federal law requires the wearing of a U.S. Coast Guard-approved\* personal flotation device (PFD) under most circumstances. State and local laws and statutes may also vary from federal requirements.

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#### Caution

It is important for all users to check with their relevant local Authorities for all information relating to the use of safety accessories. JetSurf takes no responsibility for failure of users to comply with the relevant laws which apply to the use of personal water craft in any specific location.

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#### Info

Authorized JETSURF Dealers are able to assist owners and operators in ensuring that they are properly outfitted for conditions and to comply with the law of the countries where JetSurf is used.

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### 3.7. LAW ENFORCEMENT

When underway, operators may be required to cease manoeuvres and allow U.S. Coast Guard\* or state law enforcement personnel to come alongside. Some Countries, States and jurisdictions may require a minimum age to operate the motorized board, pass a training course, and/or possess an operator's license. Requirements vary widely. If operating in a location that allows minors, such activity should be done only under adult supervision.

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#### Info

Be sure to check annually regarding requirements for legal and safe operation of the motorized board.

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### 3.8. SPEEDING/NOISE

Some areas have restrictions regarding speed related to creating waves and maximal noise restrictions. Operators of motorized boards are required to adhere to these requirements.

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### 3.9. REGISTRATION

In many jurisdictions, it will not be necessary to register the motorized board with the state of principal use. However, because the motorized board is motorized, registration may be necessary. Verify with the state and local law enforcement entities in the area in which the motorized board will be used most prior to using for the first time.

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### 3.10. REPORTING ACCIDENTS AND INSURANCE

Federal law requires reporting of accidents in which:

- A person dies.
- A person disappears from the motorized surf in what appears to be a situation that could have resulted in death or serious injury.
- A person is injured and requires medical assistance beyond minor first aid.
- Damage to motorized surf and/or property that exceeds the amount stipulated by law. The total may be lower in some jurisdictions and it is the responsibility of the owner/operator to verify.
- The motorized surf is destroyed.

Any instance in which other vessels or persons appear in distress, motorized board operators are required by law to offer assistance unless doing so would result in potential danger to the motorized board operator. Good Samaritan protection is provided to anyone who offers good faith assistance..

Even when others operate the motorized board, the owner is generally responsible for damages or injuries that may occur. Owners must not allow any Third Party to operate the JetSurf without prior instruction in correct use and operational risks. Owners are strongly encouraged to carry sufficient liability and property insurance to provide in anticipation of potential judgments in those instances. Theft and on-shore damage are additional reasons to purchase insurance.

### 3.11. REFUSE AND POLLUTION

The U.S. Coast Guard\* and/or relevant Authority which applies to the region where the JetSurf is used provides detailed information regarding the disposal or refuse. In general, refuse, even bio-degradable, should be disposed properly on-shore. If the user deduces that there are any substances that could pollute waters leaking from the board, it should be presented to an Authorised JETSURF Dealer for repair. Pollution laws and regulations are stringent in most areas.

### 3.12. OTHER SAFETY MATTERS



#### Caution

Riders should:

- Be at least sixteen (16) years old or the minimum age required within the jurisdiction in which the motorized surf is operated. The motorized surf was designed to be operated by adults.
- Ensure the motorized surf is in top conditions before using it. Make sure to charge the battery at least 8 (eight) hours before riding.
- Do not use the motorized surf, if the air temperature is lower than 2°C.
- Avoid operation in water that is too shallow or is brackish.
- Avoid operation of the board in too shallow water.

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## 3. SAFETY MATTERS

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- Maintain a speed and operational method that ensures the rider can avoid collisions with objects (above and below the waterline), buoys, docks, shorelines and other vessels.
  - Know and practice navigational rules and regulations..
  - Maintain an unobstructed view at all times, particularly in the direction the motorized surf is moving.
  - Never exceed the highest loading capacity.
  - It is necessary that rider has a clear way in front when outing on the water. This is important to prevent health damages.
  - Not carry aboard any item. The motorized board requires the rider to maintain control via the control handle. The rider should never be distracted from control of the motorized surf.
  - Always keep the engine shut-off key strapped to your wrist. In case of fall, the engine shut-off key will immediately shut off the motor.
- 

### 3.13. SAFE OPERATION ON THE WATER

Laws, rules, regulations and enforcement have been developed in North America and around the world to ensure safe and proper operation of all watercraft. It is the responsibility of the owner and/or operator to familiarize himself or herself with all applicable ordinances on the body of water upon which the JetSurf motorized surf will be operated.

For operators in the United States, refer to the website:

**[www.uscg.boating.org](http://www.uscg.boating.org)**

In Canada, refer to the website:

**[www.tc.gc.ca/eng/marinesafety/menu.htm](http://www.tc.gc.ca/eng/marinesafety/menu.htm)**

Other countries have their own laws or participate in international rules. Always verify markings and rules as they apply to any body of water on which operations will be conducted..

### 3.14. GENERAL PRUDENTIAL RULE

Rule 2 in the International Rules says, „In obeying and construing these rules due regard shall be had to all dangers of navigation and collision, and to any special circumstances, which may render a departure from the above rules necessary in order to avoid immediate danger.”

### 3.15. GENERAL EXPECTATIONS

Always use common sense when encountering other vessels. The motorized surf is considered a powered watercraft and will be expected to give-way to non-powered vessels that have less maneuverability. The vessel that does not has the duty to take proper and timely action to stay out of the way of the stand-on vessel. Normally, the give-way vessel should not cross in front of the stand-on vessel. Always move in such a way that the stand-on operator can see the operation.

When encountering other powered vessels, there are three (3) main situations that could require avoiding a collision:

- Meeting (approaching another vessel head on);
- Crossing (travelling across the other vessel's path);
- Overtaking (passing or being passed by another vessel).

When meeting another vessel head on with the risk of collision, neither has right of way. Both vessels must alter course to avoid an accident. Keep the other vessel on the port (left) side unless it is possible to clear each other by maintaining course.

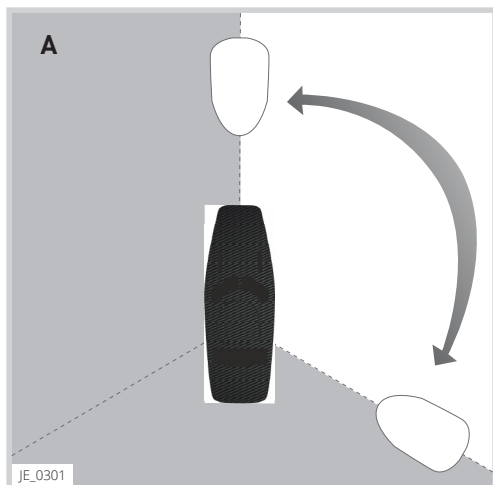
When two (2) power-driven vessels cross paths with risk of collision, the vessel that views the crossing vessel to the starboard (right) side must give way.

When overtaking, you are the give-way vessel. The other vessel is expected to maintain course and speed. Avoid it as you clear it. When being passed by another vessel, maintain speed and direction so that the passing vessel can clear.

Under normal operation situations, stationary fishing and sailing boats (stationary or moving) are given the right of way.

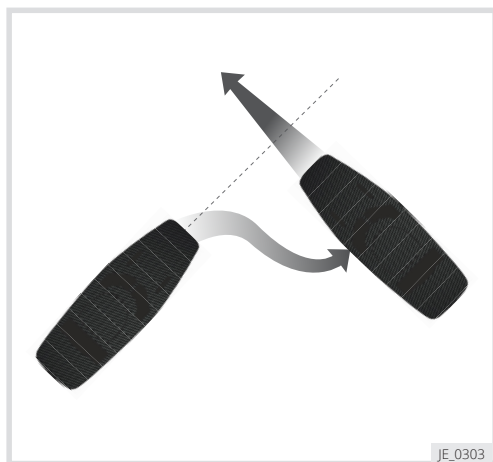
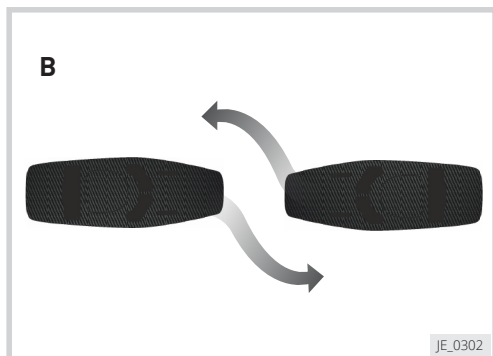
Always learn about and pay attention to buoys and other markers. The Uniform State Waterway Marker System has been devised for interior waterways in the United States\*. Markings may vary by geographic location. Always consult appropriate authorities before using the motorized surf in unfamiliar waters.

### 3. SAFETY MATTERS



#### MEETING

When two boats are approaching each other on the water, one has the right-way and is designated the “stand-on” vessel. The other boat must yield or give way and is designated the “give-way” vessel. In illustration A, you are the JetSurf in the center. You are required to yield to any vessel shown in the white area (you are the “give-way” vessel). Any vessels shown in the shaded area must yield to you (you are the “stand-on” vessel). If both of you are heading directly toward one another, illustration B, you both must give way. You should turn right to keep the approaching vessel to your left or port side. This rule does not apply if both vessels will be clear of each other if you continue on your set course and speed.



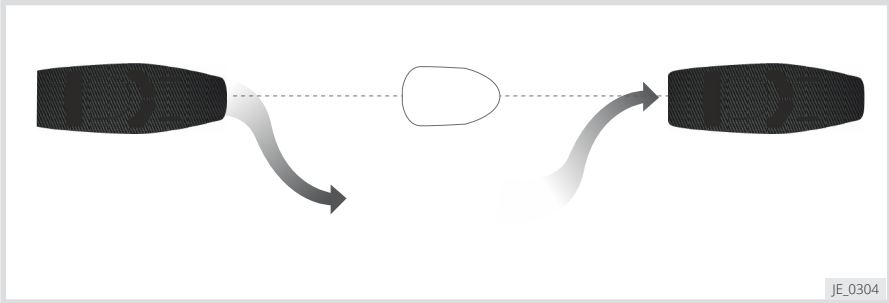
#### CROSSING

If you and another vessel are crossing paths close enough to risk a collision and the other vessel is on your right (starboard) side, you must yield or stay out of its way. If the other vessel is on your left (port) side, you must maintain your course and speed, as long as the other vessel yields the right-a-way to you, as it is required.

### OVERTAKING

**When passing other vessel, you are the “give-way” vessel.**

The other vessel is expected to maintain its course and speed and you are required to stay out of its way until you are clear of it. If another vessel is passing you, you should maintain your course and speed so that the overtaking vessel can steer safely around you.



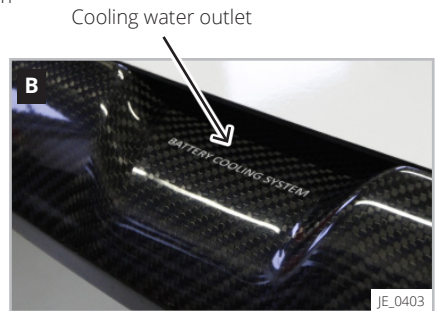
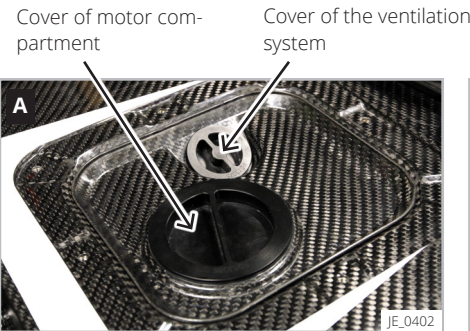
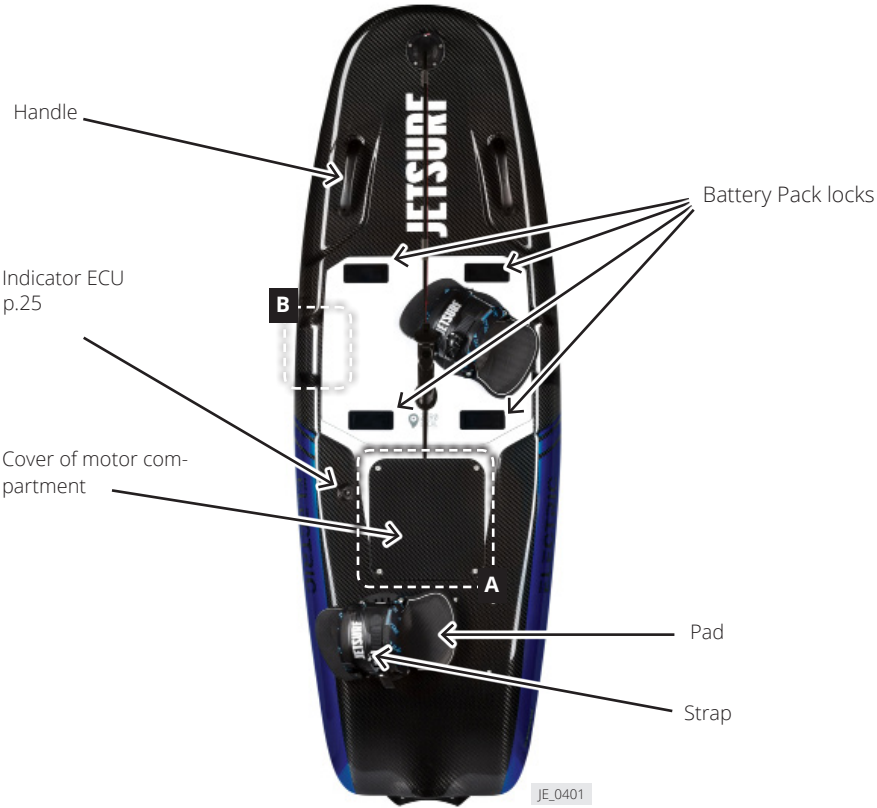
#### Caution

JetSurf cannot anticipate every circumstance that can occur in operating the motorized board. The information provided is general in nature and may not apply to the location in which you will be operating the motorized board. Always perform due diligence in preparation and planning for all outings, with particular attention to doing so in the safest manner possible..

## 4. VIEW OF MOTORIZED SURF

### 4 VIEW OF MOTORIZED SURF

#### 4.1. DESCRIPTION OF JETSURF ELECTRIC



# 4. VIEW OF MOTORIZED SURF

Throttle cable cord

Control Handle

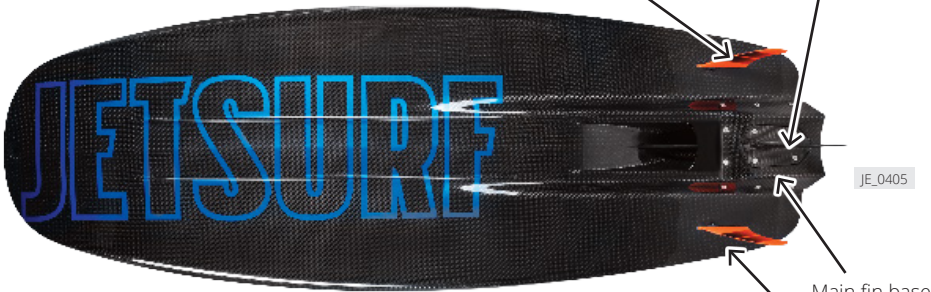
 p. 23



JE\_0404

Left FCS fin  
*remove for transport*

Main fin  
*remove for transport*



JE\_0405

Main fin base

Right FCS fin

Main fin base

Main fin

FCS fins



JE\_0406



JE\_0407



JE\_0408

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## 4. VIEW OF MOTORIZED SURF

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### 4.2. LIST OF ACCESSORIES

ITEM	CODE	NUMBER OF PCS.
User manual	-	1
Main fin	P004463	1
FCS fin (left)	R06Z081	1
FCS fin (right)	R06Z081	1
Stand Electric	A001822	1
Screw M6x12	P006272	4
Battery bag	PO90244	1
Fin protection Set Race	POP0239	1
Main fin base protection	POP0234	1
JetSurf towel	C600012	1
JetSurf Battery Pack Charger	POA1752	1
Wheels for bags	A001346	1
Screw driver (Phillips)	P006292	1
Screw driver (Allen key)	P006291	1
Engine Shut-Off key	A000351	1
Board Bag – Sport Bag	P007803	1
Battery connector cover	P014315	1
O-Ring 58 x 2,5 NBR	P013963	2
Wash extension	P014339	1



## 5 CONTROLS

### 5.1. CONTROL HANDLE

The motorized surf is supplied with the control handle which controls the motor output. The handle is supplied together with the engine shut-off key which is used for the motorized surf activation.



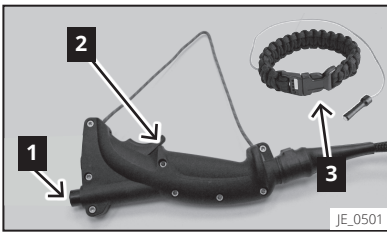
#### Warning (Risk of Injury)

The motor shut-off key must be attached to the rider's wrist during the operation. If the rider falls off or is pushed off the motorized surf, the key will be pulled out of the engine shut-off switch and the motor will switch off automatically.



#### Caution

The engine shut-off key must be securely fastened around the rider's wrist by wrist band on the hand in which the rider holds the handle.



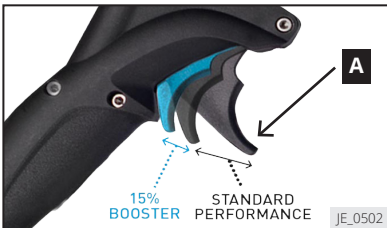
- ① Engine shut-off switch
- ② Throttle trigger
- ③ Engine shut-off key



#### Info

The throttle trigger is situated on the handle, at the end of the throttle cable. JetSurf recommends controlling the throttle with your index finger. When the throttle trigger is pressed, you increase the revs, when it is released, you decrease the revs.

#### 5.1.1. BOOSTER



The control handle of the JetSurf Electric has a function Booster that is activated when the throttle trigger **A** is fully pressed (going a bit against the resistance) and gives the user maximum power of the electric motor.



#### Info

When using this function frequently, it could be temporarily deactivated to prevent overheating off electric motor.

# 5. CONTROLS

## 5.2. INDICATOR

Jetsurf Electric is equipped with an indicator that indicates all the states of the motorized surf, the signaling of which is necessary for the safe operation of this motorized surf.

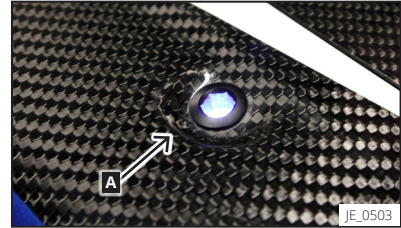
Indicator **A** has these functions :

### SIGNALLING:

- signalling the Battery Pack condition
- signalling the conditions and errors of the ECU

### CONTROLLING:

- By placing the key on the indicator, you will switch off the ECU



### 5.2.1. TABLE OF SIGNALIZATIONS

INDICATION COLOR	SIGNALIZED CONDITION
Flashing red	Too much pressed throttle trigger during the start.
Lights purple	Diagnostics is ok.

### 5.2.2. SIGNALIZATION OF BATTERY CONDITION

The Battery Pack conditions are indicated by indicator color lighting.

INDICATION COLOR	BATTERY CONDITION
Green	100-75% capacity
Blue	75-50% capacity
Orange	50-25% capacity
Red	Under 25% capacity

### 5.2.3. SAFE RETURN MODE

When signalization light turns red, there is about 2 (two) minutes of riding remaining time before the motorized surf turns to Safe Return Mode. Safe Return Mode decreases the motorized surf power for safe return back to the shore. In Safe Return Mode, it is possible to make up to 400m distance (depends on weather and water surface conditions).

## 6 BATTERY PACK

### 6.1. PLATE OF BATTERY PACK



#### Warning (Risk of Injury)

There is a risk of electric shock when working on high-voltage components. Work on high-voltage components requires special training, qualifications and tools.

- Work which has not been described and explained may only be performed by correspondingly trained JetSurf specialists. (Your authorized JETSURF Dealer will be glad to help you.)
- Do not open the JetSurf Battery pack or electric motor.



#### Warning (Environmental hazard)

A lithium battery (JetSurf Battery Pack) contains components and elements that are harmful to the environment

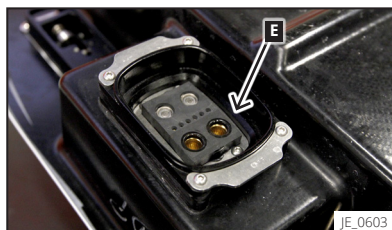
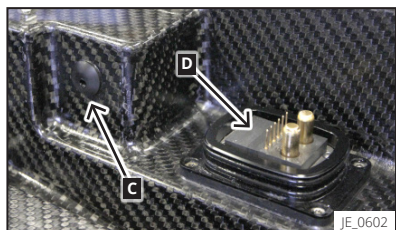
- Never throw a JetSurf Battery pack into the household trash.
- Dispose of the JetSurf Battery Pack properly and in compliance with the applicable regulations.

## 6. BATTERY PACK

### 6.2. DESCRIPTION OF BATTERY PACK



- A 4 (four) battery pack locks
- B Cooling water outlet
- C Cooling system outlet
- D Battery plug
- E Battery socket



### 6.3. BATTERY PACK INSTALLATION



#### Caution

Make sure that nobody is pinched when the Battery Pack is removed or installed.



#### Note (Material damage)

- Before installing the Battery Pack, check that the battery socket on JetSurf Electric and the battery plug on Battery Pack are clean.
- Clean the battery plug and the battery socket without using water or compressed air if they are dirty.

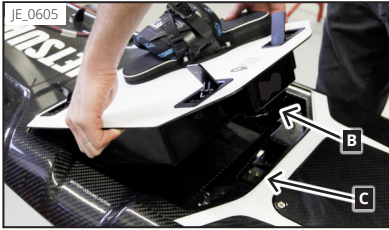


- Make sure, that all 4 (four) locks on Battery Pack ● A are opened.

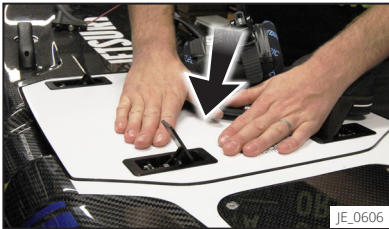
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## 6. BATTERY PACK

---



- Place the battery pack in the Jetsurf Electric so that the battery plug (B) and battery socket (C) are against each other (see the figure JE\_0605).



- Press the battery pack downwards.



- Secure the battery pack using all 4 (four) locks (A).



### Caution (Risk of Injury)

Never insert the engine shut-off key in the engine shut-off switch if all the locks on the battery pack are not secured.

---

### 6.4. BATTERY PACK REMOVAL

---



### Note (Material damage)

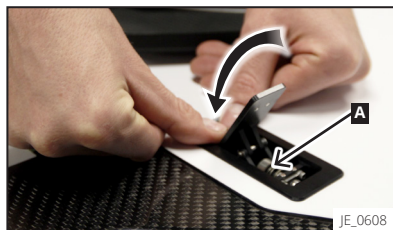
Before removing the Battery Pack after the ride, do not forget to let all the remaining water out of the cooling system (p. 52). The presence of the water in the cooling system can result in permanent damage to the battery, connector and regulator.

---

---

## 6. BATTERY PACK

---



- Unlock all (four) locks **A** on the battery Pack.



- Remove the Battery Pack.



### Info

Battery Pack is very heavy. You can consider assistance of another person when manipulating with it.

---

### 6.5. BATTERY CONNECTION PROTECTION AGAINST DAMAGES

---



#### Note (Material damage)

Do not touch the battery plug and the battery socket.

---

#### 6.5.1. BATTERY CONNECTOR COVER



- Put the battery connector cover on (P014145).

#### 6.5.2. BATTERY CONNECTOR MAINTENANCE

Connector always has to be dry and clean. In case of any mechanical impurity, it is necessary to blow and dry out the connector and clean it with soft brush or Hoover.

If there is water, especially salt water, it is necessary to blow out, clean and dry out the dirt/water immediately.

For transportation, connector has to be covered. In case of storage in environment with low air humidity, it is recommended to uncover the connector.

In case the connector is not handled properly, it might be easily damaged and improper handling may cause discharge of internal battery inside the control unit which is necessary for the JetSurf Electric operation.

### 6.5.3. BATTERY IN ECU

ECU (Electronic control unit) contains a small non-rechargeable battery which needs to be replaced every two years.

## 6.6. BATTERY TRANSPORTATION PREPARATION

It is recommended to keep and transport the battery pack in battery bag. This bag is designed for safe transportation, storage and charging.

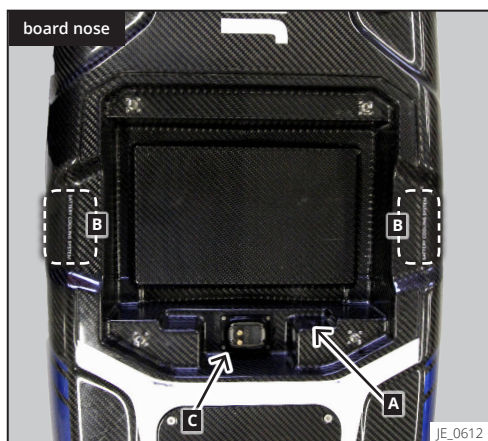
### 6.6.1. BATTERY BAG DESCRIPTION



Battery Bag is designed for safe transportation, storage and charging. It is important to always charge the battery when the battery is in the bag.

The Battery Bag is divided into several compartments. It is mandatory to keep the main compartment open during the charging process. For transportation, it is necessary to keep all the Battery Bag compartments closed. It is recommended to keep the battery pack inside the Battery Bag for any manipulation of the battery pack.

## 6.7. COOLING SYSTEM OF THE BATTERY PACK



- A** Battery cooling nozzle
- B** Cooling system outlet
- C** Plug of the Battery Pack

---

## 6. BATTERY PACK

---



### Note (Material damage)

Battery Pack is cooled with water flowing round the battery. It is important to check if the cooling system outlet **B** is clean.

When riding the JetSurf Electric, check visually the correct operation of the cooling system. Water should be running out of the cooling system outlet **B** continuously.

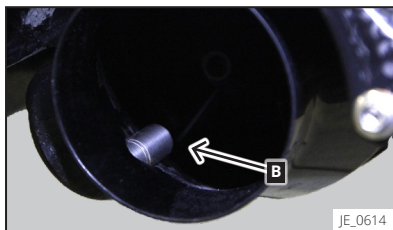
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## 6.8. COOLING SYSTEM MAINTENANCE

### 6.8.1. COOLING SYSTEM CLEANING



- If the motorized surf was operated in seawater or brackish water, place a garden hose to the motor cooling outlet and rinse it with fresh water.



- After a while, water starts coming out of the outlet **B**, situated at the jet pump.



### Note (Material damage)

Before rinsing the battery compartment, never forget to place the battery pack connector cover on JetSurf Electric.

---

## 6.9. CHARGING



### Warning (Risk of Injury)

In a wet environment, there is a danger of an electrical injury. The charger is not waterproof.

- Only use the charger in dry conditions.
  - Make sure no liquid leaks or drips onto the charger.
-





### **Warning (Risk of Injury)**

If the battery charger is used incorrectly, its intrinsic safety cannot be guaranteed. The battery charger is only suitable for use with a JetSurf Battery Pack.

- Only use the battery charger with a JetSurf Battery Pack.
- Only operate the battery charger using household sockets with ground wire conductor.
- Do not use any additional adapters or extensions.
- In the USA and countries with 110V power grid, make sure the circuit breaker is dimensioned for 1 500 W ( 14 A breaker).
- Follow the applicable safety instructions of the power connection.



### **Warning (Risk of Injury)**

There is a risk of electric shock if the battery charger or the cables have been manipulated or damaged. The battery does not contain any parts which require maintenance.

- Do not modify the battery charger or the cables.
- Under no circumstances open the battery charger housing.
- Do not insert any objects into the battery charger housing from the outside.
- Do not use the battery charger if cables, plug or parts of the battery charger have been damaged or are soiled.



### **Warning (Risk of Injury)**

The intrinsic safety of the JetSurf Battery Pack can only be guaranteed if the original battery charger is used. The JetSurf Battery Pack may only be charged with the original battery charger.



### **Note (Material damage)**

Charging at temperatures above 35 ° C may cause the overheat and damage of the battery.



### **Info**

The battery charger contains sensitive electronics and must be handled with appropriate care.

The battery charger may be damaged or destroyed if it is dropped, knocked or otherwise subject to mechanical overload.

When transporting the battery charger, ensure appropriate means of securing the cargo.

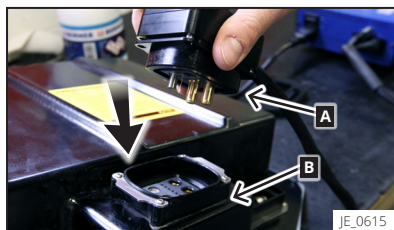
Damage caused due to improper handling or improper transport is excluded from the manufacturer warranty.

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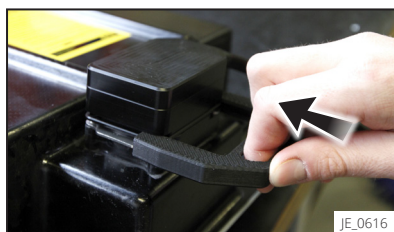
## 6. BATTERY PACK

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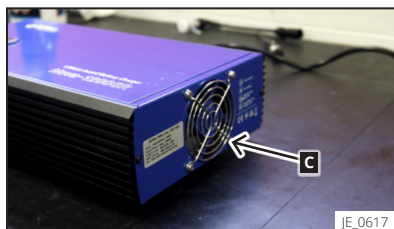
### 6.9.1. CONNECTING THE CHARGER



- Insert the plug of the charger (A) in the battery discharge socket (B).



- Use buckle to secure the connector.



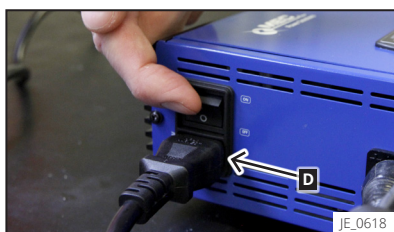
- Check that there are no obstacles at the charger cooling outlet (C).



#### **Note (Material damage)**

If the heat is removed insufficiently during charging, the charger can overheat and get damaged.

- Connect the charger to the charging cable for 110/220 V.



- Turn the charger on by switching button (D) to ON.



- By touching the bottom part of the display, you can change the type of the information shown on the charger display.



### Info

Battery is fully charged when the led light „FULL“lights up.

---

### 6.9.2. INFORMATION SHOWN ON THE CHARGER DISPLAY



- **Battery status** % value is just informative and does not match exact amount of energy in the battery. Charge the battery until the led light „FULL“ lights up.

### 6.9.3. DISCONNECTING THE CHARGER

- Turn the charger off by switching the button to OFF and wait until the battery display is not lit any more.
  - Disconnect the charger from the power supply.
- 



### Note (Material damage)

Never disconnect the connector if the charger is still connected to the power supply.

---

- Remove buckle from the connector **A**.
- Disconnect the connector.

## 7. TABLE OF PERIODIC MAINTENANCE

Item	Operation	Before every ride
<b>Hull and motor compartment</b>		
Cooling	Check (📖 page 44)	X
	Cleaning (📖 page 30)	
Hull	Cleaning/ rinsing (📖 page 53)	
Motor compartment	Check (📖 page 43)	X
Screws tight check	Check / Tightening	
<b>Propulsion system</b>		
Jet Pump	Check (📖 page 44)	
Drive shaft central bearing	Lubrication (📖 page 53)	
<b>Battery</b>		
Battery Pack	Check	X
ECU Battery	(📖 page 29)	
<b>Ventilation system</b>		
Balancing valve	Check (📖 page 43)	
	Replace (📖 page 56)	
<b>Preventive check in servis</b>		
JetSurf Electric	Check	

---

After every ride	Every 10 MTH	Every 25MTH	Every 60 MTH / 1 year
------------------	--------------	-------------	-----------------------

		X	
X			
X			
		X	


X			
X			


	X		
		X	

			X
--	--	--	---

# 8. BEFORE THE RIDE






## 8 BEFORE THE RIDE




**Warning (Risk of Accidents)**

- Before your first ride without being supervised by an Authorized JETSURF Dealer or a coach of JetSurf, please make sure that you have read and understood the manual supplied together with the motorized board.
- Familiarize yourself with the laws valid for the water bodies where you intend to use your motorized surf .

### 8.1 A BRIEF LIST OF TASKS TO BE DONE BEFORE THE RIDE

LIST OF TASKS BEFORE THE RIDE		
1.	Charge the battery to its 100% capacity (at least 8 (eight) hours before riding.	 p. 30
2.	Fasten all fins.	
3.	Adjust the straps.	
4.	Check for water presence in the motor compartment	 p. 43
5.	Check of the balancing valve.	 p. 43
6.	Check for water presence in the ventilation compartment.	 p. 43
7.	Jet Pump check.	 p. 44

### 8.2. STAND

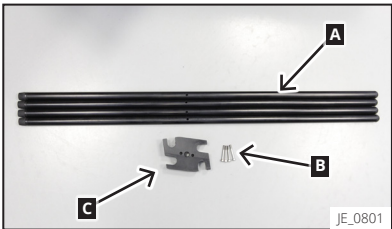


**Info**

Every JetSurf Electric is supplied with a light stand. Use of the JetSurf stand is strongly recommended to keep the motorized surf above the ground, it is intended as an aid for preparation, maintenance and cleaning of the motorized motorized board..

Make sure that the stand is situated on the solid surface and that the motorized board rests on the stand correctly.

#### 8.2.1. ASSEMBLING THE STAND

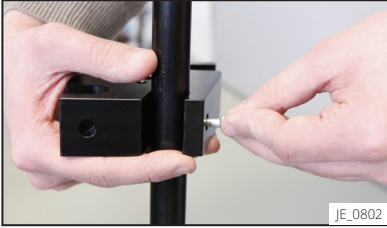


- A** 4 (four) stand rods
- B** 4 (four) allen screws
- C** stand support

---

## 8. BEFORE THE RIDE

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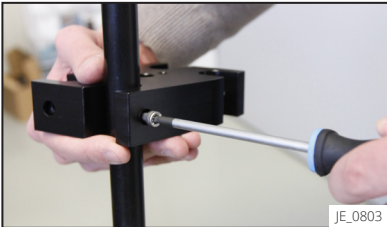


- Insert the rod in the groove in the stand support so that the rubber end of the bar is oriented upwards and secure the bar with a screw.



### Info

When assembling the stand, it is necessary to pay attention to the correct orientation of the base and ends of the bars (see figure JE\_0804) so that the correct function is ensured.



- Tighten the screw.

**Tightening torque**

**3,5 N.m**



### Info

The screw should be tightened using the Allen key supplied with the JetSurf Electric.



This procedure is repeated for the other 3 (three) rods.

---

## 8. BEFORE THE RIDE

---

### 8.2.2. PUTTING UP THE STAND



- Place the stand so that the ends of the rods **A** covered with hard plastic are oriented upwards and level all four (4) rods parallel to each other.



- Gently turn clockwise the ends of the rods which are most distant from the clamp of the stand.



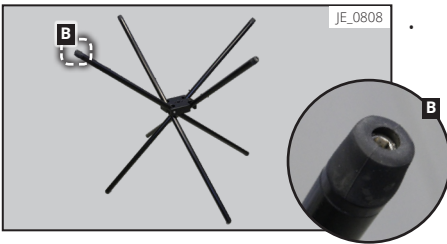
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## 8. BEFORE THE RIDE

---



- Grasp the opposite ends of the two rods which are less distant from the clamp of the stand and pull them apart.



- In the end turn the stand 180° so that the ends of the bards **B**, covered with rubber were oriented upwards.



### Note

Make sure the stand is placed on a solid surface and that the motorised surf is placed correctly on the stand. .

---

### 8.3. FINS

Every JetSurf Electric is supplied together with 3 (three) fins - 2 (two) small side ones and one (1) big main one.

#### 8.3.1. FASTENING OF SIDE (SMALL) FINS



- Insert the fin in the plug and place the front tab of the fin inside the front slot of the plug so that the hook in the fin tabs hits the horizontal bar in the groove.

---

## 8. BEFORE THE RIDE

---



### Info

The side fins have a flat surface on the inside and a convex foil on the outside. The convex or curved side of the fin always points outwards.

---



Then, lower the rear tab into the rear slot of the plug until the mechanism engages the tab.

- Check the tight fit, the fin should not move.
  - Repeat this procedure for the second side fin.
- 



### Info

This mechanism will hold the fin in place until removal.

---



### Warning (Risk of Accidents)

It is strongly recommended to use all fins under all circumstances. This ensures maximum control of motorized surf.

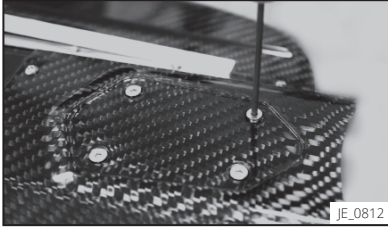
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### 8.3.2. THE SIDE FIN REMOVAL



To remove the fin, grasp the fin and pull upwards.

### 8.3.3. MAIN FIN FASTENING



- Unscrew 4 (four) screws from the Main fin base.

4 x screw

M6x12



#### Info

Use the screwdriver provided with the JetSurf Electric.

---

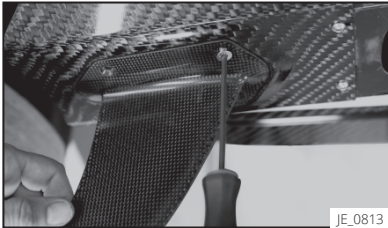
- Place the main fin on the Main fin base.



#### Note

Make sure the fin is oriented correctly.

---



- Insert the removed screws in the openings on the main fin and tighten the fin.

Tightening torque

3,5 N.m



#### Note (Material damage)

Tighten gently. If too tight, the fin can be damaged.

---



#### Info

The fin should not allow any movement.

---



#### Note (Material damage)

- Do not transport a motorized surf with fins attached. The fins are fragile and are not designed to bear the weight of a surfboard on a hard surface.
  - Keep all the screws openings for attaching fins clean, without sand and other impurities which might damage the thread.
  - We recommend screwing the main fin screws into the base even without the fin.
-

---

## 8. BEFORE THE RIDE

---

### 8.4. STRAPS

JetSurf Electric has fully adjustable straps which can be tightened or loosened. Make sure that the straps fit comfortably and are not too loose or too tight. The binding is tightened with screws M6x20 DIN 912 with washer.

Tightening torque
-------------------

8 N.m
-------



#### Note (Material damage)

Always use screws M6x20 DIN 912. Using a different screw may cause an irreversible damage to the battery and straps.

With every extra battery, one strap is delivered.

### 8.5. BASIC CHECK OF THE BOARD BEFORE THE RIDE

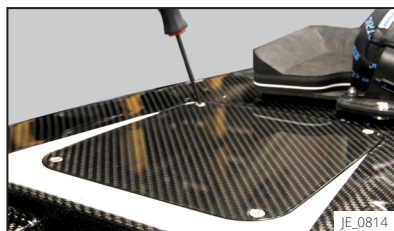
#### 8.5.1 CHECK OF THE BATTERY CAPACITY

The JetSurf Electric indicates the battery status after the emergency mode is activated by lighting the indicator in the colour corresponding to the current battery status (☐ p. 24). To check out the battery status, it is therefore always necessary to activate the stand by mode of the JetSurf (☐ p. 45) or connect the battery of the JetSurf Electric to the charger which indicates the battery status on the in-built display. Make sure to charge the battery at least 8 (eight) hours before the ride.



#### Caution

Always check the battery status before the ride.



Remove 4 (four) socket head screws from the motor cover.

4 x screw
-----------

M6x12
-------

Tightening torque
-------------------

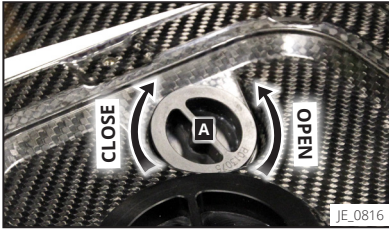
3,5 N.m
---------



#### Caution (Risk of Injury)

Before checking the motor compartment, always remove the battery from your JetSurf Electric. You will thus avoid a possible electrical injury. (☐ p. 27)

### 8.5.2. CHECK OF THE BALANCING VALVE & CHECK WATER PRESENCE IN THE VENTILATION SYSTEM



- Remove the cover of the ventilation system **A** by turning it anticlockwise.

- When cover of the ventilation system is removed, check for water presence



- Check if the balancing valve **B** is clean.

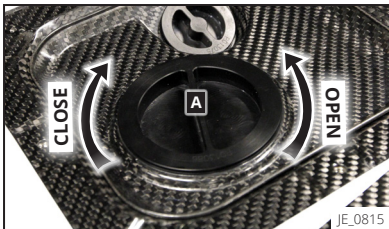


#### Note (Material damage)

If the balancing valve is clogged, replace it ( p. 56).

---

### 8.5.3. CHECK FOR WATER PRESENCE IN THE MOTOR COMPARTMENT



- Remove the inspection cover **A** by turning it anticlockwise.

- Check whether there is not any water at the bottom of the motor compartment.



#### Note (Material damage)

If you see little amount of water in the motor compartment, it is condensed water. However, water volume higher than 30 ml may damage the motorized surf and it is recommended to contact the nearest service as soon as possible. Make sure you dry out the motor compartment immediately after every ride. Check the water level carefully to make sure the board operates properly.

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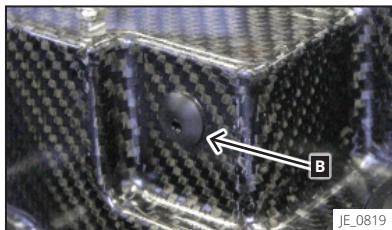
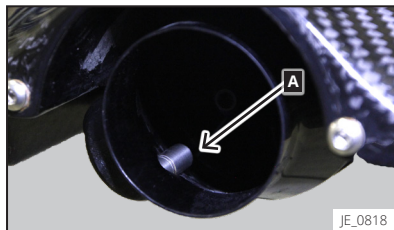
## 8. BEFORE THE RIDE

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### 8.5.4. CHECK IF THE COOLING SYSTEM INLET AND OUTLET ARE CLEAN

During the ride it is very important that the heat produced by the motor, battery and regulator is removed efficiently and there is no overheating.

- Before the ride therefore always check if the cooling system inlet (A) and outlet (B) are clean.

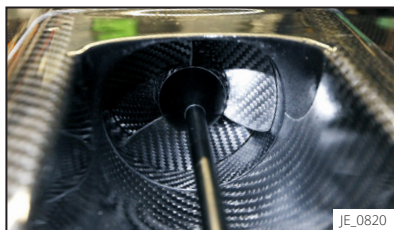


#### Note (Material damage)

If the cooling system inlet / outlet are not clear, they have to be cleaned and the whole cooling system has to be rinsed with fresh water (☑ p. 30).

---

### 8.5.5. JET PUMP CHECK



- Before the ride, always check also the condition of the jet pump.



#### Info

If they are dirty, it can influence the performance of JetSurf Electric.

---

## 9. RIDING INSTRUCTIONS

### 9.1. ACTIVATION AND THE FIRST RIDE

---



#### Warning (Risk of Accidents)

- Never insert the engine shut-off key into the engine shut-off switch unless all of the Battery Pack locks are ensured.
  - Keep your arms, legs and other body part away from all the jet inlets when the motor is in operation. It could result in a serious injury or death.
  - When starting the JetSurf Electric, make sure that people (especially children) are at least 10 meters/33feet away from water-jet pump.
  - It is absolutely necessary for the rider to release the control handle when he/she loses full control of the motorized surf or balance during the ride. Pulling the engine shut-off key from the engine shut-off switch will stop the motor immediately.
- 



#### Note (Material damage)

- Do not leave JetSurf Electric in direct sunlight or anywhere that would allow its surface to rise to a temperature in excess of 65°C/149°F. Excessive temperatures can cause damage to the engine.
  - Do not leave motorized surf unattended.
- 



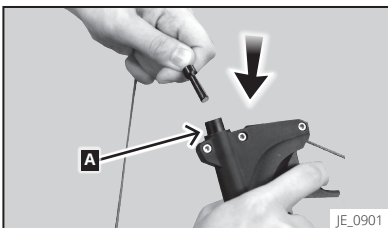
#### Warning (Risk of Injury)

- Be aware that the JetSurf motorized surf are not intended or designed as swimming aids.
  - It is necessary to use all the protective aids all the time. They include helmet, life jacket, safety leash on the leg or arm.
- 

If the JetSurf Electric is ready (📖 p. 36 - Chapter 8.1), you can start using it.

### 9.2. JETSURF ACTIVATION

#### 9.2.1. STAGE ONE



- Insert the engine shut-off key **A** in the engine shut-off switch placed on the upper part of the control handle for minimum 4 seconds (the indicator turns blue color), then take the key out.

---

## 9. RIDING INSTRUCTIONS

---



### Info

The electronic control unit (ECU) will switch on. (Indicator lights blue.)

---



### Note

The ECU will stay in this state for 5 minutes from the last time the engine shut-off key was pulled out of the engine shut-off switch. Then it will switch off automatically and in order to start the motorized surf you will have to repeat this step.

---



### Caution (Risk of Injury)

Never insert the engine shut off key into the engine shut off switch unless all battery locks are locked.

---

### 9.2.2. STAGE TWO

- Insert the key in the engine shut-off switch on the control handle the second time.
  - Indicator lights up purple.
- 



### Info

If the indicator is lit in purple, a diagnostic status is indicated (📖 p. 24).

---

- When the diagnostic is complete, the battery is displayed according to its capacity (📖 p. 24) and JetSurf Electric is ready to run.
- 



### Caution

Do not pull the throttle trigger when starting the board. The engine starts automatically when the shut-off key is inserted in engine shut off switch.

---



### Info

Pulling the shut-off key out of the switch socket disables driving mode.

---



### Warning (Risk of Injury)

The motorized surf runs very quietly , even when it is ready to operate.

- Ensure that the motorized surf is switched off while any work is being performed on the motorized surf.
- Remove the Battery Pack from the motorized surf before you start any work on the motorized surf.

Protect the motorized surf against access from unauthorized persons while you are performing work on the motorized surf.

---



### 9.3. BRIEF DESCRIPTION OF STARTING

---



#### Caution

The rider prepared to use the JetSurf Electric must wear a life jacket, safety helmet and must have the original JetSurf wrist band with the engine shut-off key attached to his/her wrist and it must be connected with the motorized motorized board by means of the safety leash.

For sharp start from water it is necessary to find a suitable place where to start riding. First it is necessary to have a sufficient depth from which we can start safely without damaging the bottom fins of the motorized surf.

---



#### Note

The minimum depth is 50 cm. Keep in mind that after starting the engine, the rear part of the board may sink by 10-20 cm.

---



#### Warning (Risk of Accidents)

- Never start JetSurf Electric in swimming area.
  - Make sure that you have sufficient space for manoeuvring, mainly if you are a beginner. The ideal area is 300x300 m without obstacles and with smooth water surface.
  - Always check water (the dirt and litter in the water) to avoid damage of JetSurf Electric.
- 

#### 1. STAGE ONE

Inserting the shut-off key into the shut off switch for 5 seconds

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Removing the shut-off key from the shut-off switch

1. The ECU waits 5 minutes for the second key insertion
2. The indicator flashes blue

#### 2. STAGE TWO

Second insertion of the shut-off key into the shut-off switch

1. Indicator lights violet - diagnostics
2. Activation of driving mode
3. Indication of battery pack capacity

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## 9. RIDING INSTRUCTIONS

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### 9.4. STARTING FROM THE BANK (IN SHALLOW WATER)



- The following picture shows the correct position of the rider when starting from shallow water.



- The rider holds his/her JetSurf Electric with both hands in such a way that with his/her more dextrous hand he/she is able to hold the motorized surf and control the throttle trigger at the same time.



#### Warning (Risk of Accidents)

Always hold the control handle in the same hand on which you have the wrist band to prevent accidental deactivation of the driving mode and at the same time so that in the event of a fall the engine shut off key can be pulled out immediately.



#### Caution

Rider stands on the side of the motorized surf, does not lay on the motorized surf.



- When the rider is in the correct position for starting, with his/her free hand in which he/she does not have control handle he/she can insert the engine shut-off key in the engine shut-off switch.



### Info

The engine shut off key can be inserted by the rider into the engine shut off switch assuming that the ECU is activated. (📖 p. 45)

---

- After activation of JetSurf Electric and its subsequent acceleration, the rider must jump into the JetSurf with his/her full weight.
- 



### Info

For comfortable ride and correct functionality of the equipment it is necessary to hold the throttle for the whole ride. It is not necessary to keep the full speed but when the speed is not sufficient, the motorized surf becomes unstable and more difficult to control.

---

## 9.5. STARTING IN DEEP WATER OR AFTER FALLING DOWN

Starting in deep water happens similar to start from the bank.

- If after falling down the rider manages to insert the engine shut-off key in the engine shut-off switch within 5 (five) minutes, the JetSurf Electric activates.
- 



### Note

The rider does not get on the board until the JetSurf Electric is activated.

---



- After the JetSurf Electric activates, it is necessary to use the engine power and pull yourself back onto the JetSurf Electric.

---

## 9. RIDING INSTRUCTIONS

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### 9.6. JETSURF ELECTRIC CONTROL - THROTTLE

During the very first ride, the rider should learn how to operate the control handle and accelerate. This skill is crucial for JetSurf Electric.

The rider can stay in the lying or kneeling position. Only when he/she knows how to control the throttle, he/she can stand up.

### 9.7. JETSURF ELECTRIC CONTROL - TURNING

The next important step is turning. You turn the board by tilting the whole motorized surf to one or the other side.

### 9.8. JETSURF ELECTRIC CONTROL - RIDING



#### Caution

If you want to stand up, make sure you have sufficient space for manoeuvring, you are not crossing the path of any other motorized surf and there is no swimmer or obstacle near your JetSurf.

---

The way how to stand up from kneeling down is individual.

- For beginners we recommend placing first one foot in the rear strap.



#### Info

Left foot if you hold the control handle in your right hand or left foot if you hold the handle in your left hand.

- 
- If you have your foot firmly in the rear strap, place the other foot in the front strap.
  - When standing up, it is necessary to keep a constant speed, stand up gradually and not to stop halfway through.



#### Note

In case of a fall during standing up, repeat the whole procedure step by step.



#### Warning (Risk of Accidents)

Always check the time for which you are riding in water. With fully charged battery, you can ride for 30 minutes. Do not forget to have some reserve to be able to get back to the bank. When returning back to land, please keep in mind any potential swimmers near the bank and sufficient depth of water.

### 9.9. JETSURF ELECTRIC CONTROL – STOPPING/FALLING

If the rider wants to stop, first he/she has to slow the JetSurf Electric down before reaching the place of stopping. As soon as the rider is sufficiently close to the place of stopping, he/she will release the throttle trigger. JetSur Electric will slow down and the rider can leave the board.



#### **Warning (Risk of Accidents)**

If you fall down, drop the throttle control handle immediately! It is necessary to pull the engine shut-off key from the handle to stop the JetSurf Electric safely.

---

### 9.10. PERFORMANCE LIMITATIONS WHILE DRIVING

Performance limitations while driving may occur:

- if the battery is low
- if the electric motor controller is overheated,
- if the electric motor is overheated



#### **Note**

The riding time is also influenced by the temperature of the water and the surrounding area, so it is not possible to ride at full power without limitation.

---

### 9.11. SAFE RETURN

When the battery voltage falls below the level defining the safe return limit, the power is immediately reduced so that the board can be pulled to the shore.



#### **Info**

Switching to “safe return” mode occurs while riding when the indicator is lit red.

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# 9. RIDING INSTRUCTIONS

## 9.12. AFTER THE RIDE

### 9.12.1. A BRIEF LIST OF THE TASKS TO BE DONE AFTER THE RIDE

LIST OF THE TASKS AFTER THE RIDE	
1. Tilt the JetSurf Electric so that the cooling water outlet is oriented downwards and let all the water out.	
2. Check whether there is water at the bottom of the motor compartment .	(📖 p. 43)
3. Check for water presence in the ventilation system.	(📖 p. 43)
4. Rinse the whole JetSurf with fresh water, including the battery compartment with battery pack cover on.	(📖 p. 53)
5. Let the JetSurf Electric dry.	
6. Lubricate the shaft bearings.	(📖 p. 53)
7. Do not charge the battery before transportation.	
8. Store the JetSurf with the battery removed.	

### 9.12.2. GETTING THE REMAINING WATER OUT OF THE COOLING SYSTEM



- After the ride is finished, you have to turn the board 90° sideways and wait for a while until most of the water gets out of the cooling water outlet



- Then place the board on the stand.



#### Info

In this way you will remove the remaining water from the cooling system of the JetSurf Electric.



### Note (Material damage)

Never forget to get all the remaining water out of the cooling system after the ride. Otherwise there is a risk of permanent damage to the battery, connector and regulator.

---

### 9.12.3. CHECK FOR WATER PRESENCE IN THE MOTOR COMPARTMENT

- Check out through the inspection cover whether there is not any water at the bottom of the motor compartment . ( p.43)
- 



### Info

If it is the case, contact your authorised JetSurf sales representative as soon as possible.

---



### Caution (Risk of Injury)

Before the check, always make sure that the battery has been removed from the JetSurf Electric You will thus avoid a possible electrical injury.

---

### 9.12.4. RINSING

If you want to store the board overnight, find a source of fresh water, e.g. a garden hose, and rinse:

- the top part of the board, straps, control handle and jet pump
  - after removing the battery and putting the battery connector cover on the JetSurf Electric, rinse the battery compartment area as well.
- 



### Note (Material damage)

If the motorized surf was used in seawater or brackish water, rinse the cooling system with fresh water ( p. 30).

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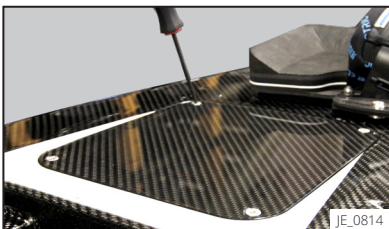


### Note (Material damage)

Never forget to place the connector cover on the Jetsurf Electric before rinsing the battery compartment

---

### 9.12.5. LUBRICATING OF THE CENTRAL BEARING OF THE JET PUMP



- Remove 4 (four) socket head screws on the motor cover.

4 x screw	M6x12
Tightening torque	3,5 N.m

---

## 9. RIDING INSTRUCTIONS

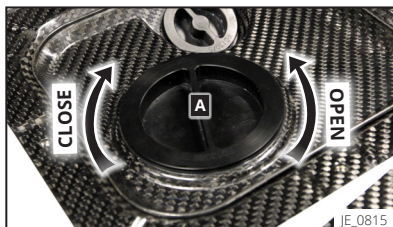
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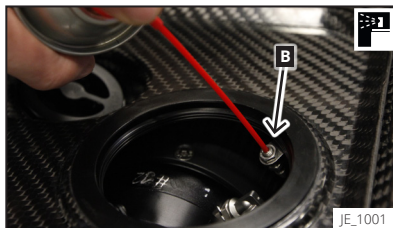
### Caution (Risk of Injury)

Before checking the motor compartment, always remove the battery from your JetSurf Electric. You will thus avoid a possible electrical current injury.

---



Remove the inspection cover (A) by turning it anticlockwise.



Apply the grease in the opening (B) for 5 seconds.

Universal  
oil spray

MOTOREX INTACT MX50



### Info

The opening (B) is used for greasing of the central bearing of the drive shaft.

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### 9.13. SWITCHING OFF

The motorised surf will switch off:

- whenever the battery is removed,
- 



### Note (Material damage)

Never remove the battery from the JetSurf Electric when the motor is rotating, it could result in its damage.

---

- if the shut-off key is removed from the switch for longer than 5 minutes.
- 



### Warning (Danger of accidents)

Never leave the shut-off key in the switch after the ride.

---



## 10. STORAGE

### 10.1. SHORT-TERM STORAGE

For short-term storage, for example between the individual days of riding, it is sufficient to follow the steps described in (📖 p.52). After these steps have been performed, store the JetSurf in a dry place. Never leave the battery inside the motorized surf.

### 10.2. LONG-TERM STORAGE

If the break is longer than one week, it is necessary to perform other tasks. Never leave the battery inside the motorized surf.



#### Info

Do not underestimate these steps. Keep in mind that if you look after the JetSurf properly, you will increase the life of all its parts.

- Remove the battery from the board and install the connector cover on the JetSurf Electric.

**Storage Temperature:**

**+5°C ~ 35°C**



#### Note (Material damage)

- Discharge the battery to less than 25% charge before storing for a long time.
- When finishing the ride, make sure you discharge the battery to red light signalization. The discharge is made by riding. Do not charge the battery for transportation. For storage, keep the battery in dry place in recommended temperature range. Make sure to charge the battery every 45 (fourty-five) days of storage for 20 (twenty) minutes.
- The battery should not be stored in higher temperature. Storing in higher temperature might significantly decrease lifetime of the battery.

- Clean JetSurf Electric.
- Store the motorized surf in a dry place that is not subject to high temperature fluctuations.
- Always once in every 6 months, grease all the engine parts with MOTOREX INTACT MX 50 spray. (📖 p. 53)



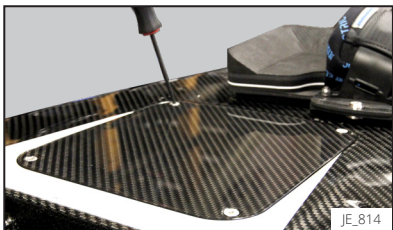
#### Note (Material damage)

We strongly recommend performing all these steps. Not performing these steps leads to significant shortening of the product life or in extreme cases to irreversible damage to motorized surf.

## 11. MAINTENANCE PERFORMED BY THE USER

### 11. MAINTENANCE PERFORMED BY THE USER

#### 11.1. BALANCING VALVE REPLACEMENT



- Remove 4 (four) socket head screws on the motor cover.

4 x screw

M6x12

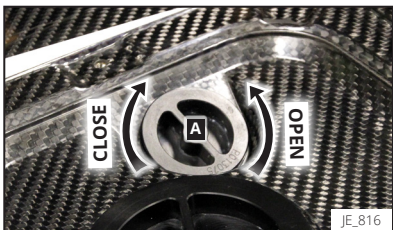
Tightening torque

3,5 N.m

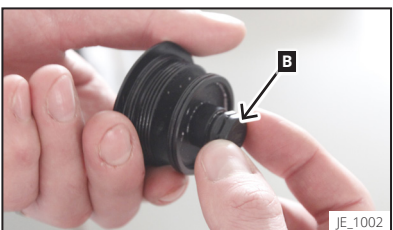


#### Caution (Risk of Injury)

Before checking the motor compartment, always remove the battery from your JetSurf Electric. You will thus avoid a possible electrical injury. (📖 p. 27)



- Remove the cover of the ventilation system **A** by turning it anticlockwise.



- Remove the balancing valve **B**, with your hand by turning it anticlockwise.

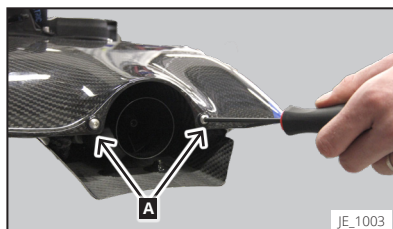
- Fit a new valve and gently screw it in clockwise with your hand until the O-ring touches the sealing seat.
- From this moment, tighten the valve with your hand by 180°.

## 11. MAINTENANCE PERFORMED BY THE USER

### 11.2. DRAINING WATER OUT OF THE HULL

Water can get into the area of the outer airbox due to the air condensation or if the float waterproofness is damaged.

If you detect presence of water in the float when manipulating with your Jetsurf Electric (audibly), first check the motor compartment (📖 p. 43) and if there is no water in the motor compartment, follow the instructions below:



- Unscrew outlet screws **A** and remove them together with nuts.

2 x screw

M6x12



- Place the board vertically and let the water drain out of the motorized surf.



#### Note (Material damage)

Check the amount of the removed water. If the amount of the removed water exceeds 30 ml, contact your JetSurf sales representative and do not start another ride on your JetSurf Electric.

- Screw the outlet screws back in together with their washers.

Tightening torque

1 N.m



#### Note (Material damage)

Never start to ride without the outlet screws in.

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## 12. TRANSPORTATION

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### 12. TRANSPORTATION

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**Warning (Danger of accidents)**

- Never transport JetSurf Electric with JetSurf Battery Pack inside.
  - Battery transportation can be dangerous and, in some jurisdictions, may be illegal.
  - Discharge the Battery Pack before transportation.
- 

**Note (Material damage)**

- Always take out all fins before transportation.
  - Carbon fibre is a fragile material despite its strength, so it is not enough to pack the board in the original JetSurf Electric bag, but you must add additional protective layers.
- 

#### 12.1. AIR TRANSPORTATION

Batteries are subject to dangerous goods regulations. When transported by third parties (eg by air or mail order service) special packaging and labeling requirements must be observed.

[www.iata.org/dgr](http://www.iata.org/dgr), [www.iata.org/lbgs](http://www.iata.org/lbgs).

---

**Caution**

The battery must not be carried in the aircraft as hand luggage.

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#### 12.2. TRANSPORT TO SERVICE

Before transportation, place the motorized surf in the original board bag and add further protection layers (for example wrap the board bag with the motorized board in bubble wrap and wrap it all in stretch foil or insert the bag in a carton box).

---

**Info**

Apart from a name tag and contact details, we recommend enclosing a detailed description of the problem when sending the JetSurf for service.

---

**Note (Material damage)**

When sending your JetSurf Electric for a service back to your Authorized JETSURF Dealer or directly to the manufacturer, you do not have to send all the accessories together with the motorized board (e.g. fins or charger...).

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**WE RECOMMEND TO CONTACT AND COMMUNICATE WITH A SERVICE POINT FIRST!**

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## 13. TECHNICAL SPECIFICATIONS

SPECIFICATIONS	
Overall lenght (mm)	1 800
Overall width (mm)	600
Overall height (mm)	150
Weight without pad (kg)	33,5
Passenger capacity	One operator
Max Rider weight (kg)	120
Category*	D
CONSTRUCTION OF VESSEL	
Hull	100% carbon fibre
BATTERY	
Nominal voltage (V)	50,4
Capacity (kWh)	2,9
Weight (kg)	17,8
DRIVE SYSTEM	
Propulsion system	Direct Jet pump; Axial flow, single stage
Impeller material	Carbon fibre
Nozzle material	Carbon fibre
Jet pump trust	570 N
Manufacturer	MSR Engines s.r.o.

\* – EU DIRECTIVE 2013/53/EU – The definition of Boat Design Category D:

"D. Sheltered waters — 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, 0.3 m may be experienced, with occasional waves of 0.5 m maximum height, for example from passing vessels."

I have read and understand these terms and conditions and I am aware that taking ANY of the above steps will void and nullify the JetSurf™ warranty.

I have completed training conducted by an Authorized JetSurf™ representative and understand what steps must be undertaken to ensure the JetSurf™ board(s) are maintained, cared for, serviced and stored.

During this training no imperfections were found on the JetSurf™ product.

MOTORIZED SURF MODEL: JETSURF ELECTRIC

Hull Identification Number (HIN):
Serial Number (SN):
Seller:

Board Owner Name:			
Address:			
City, State/Province, Code:			
E-mail:			
Purchase Date:	Year:	Month:	Day:

Signature of Board Owner:	Signature of Seller:
-----	-----
	Person:
	-----
	Handover date:
	-----
	Handover place:
	-----



# JETSURF OWNER'S AGREEMENT ORIGINAL

Print First and Last Name

I agree **NOT** to undertake any of the following actions and understand that doing so will void and nullify the JetSurf™ Warranty.

## I WILL NOT

- 1) Transport the motorized surf with connected battery pack
- 2) Store the motorized surf with connected battery pack
- 3) Go to the water WITHOUT checking the board for integrity, scratches, holes to the hull. In case any of previously mentioned, the motorized surf must not be used.
- 4) Go to the water WITHOUT checking water presence and corrosion in the motor compartment
- 5) Go to the water WITHOUT checking that drip compensation tray is dry
- 6) Go to the water WITHOUT checking that drip compensation tray lid is tightened.
- 7) Go to the water WITHOUT checking that outlet screws are properly tightened.
- 8) Go to the water WITHOUT 100% battery level.w
- 9) Go to the water WITHOUT reading owner's manual. If I did not understand anything, I contacted my nearest reseller.
- 10) Go to the water WITHOUT checking my board works according to my expectations and owner's manual description.
- 11) Leave the motorized board without checking I drained the water out of the battery pack area.
- 12) Leave any kind of dirt on the motorized board or battery pack after taking the board out of the water. Just after that, I will remove the battery from the board.
- 13) Leave the battery connector inside the hull uncovered. I will always cover the connection with delivered cover with air pressure compensation.
- 14) Leave the connector on the battery pack uncovered. I will always make sure to put the delivered cover on the battery pack connector.
- 15) Leave the board WITHOUT covering the battery pack connector and cleaning (by fresh water) of cooling system with garden hose extension.
- 16) Leave the board WITHOUT check of drip tray. I will make sure the drip tray is dry and the lid will remain open.
- 17) Leave the board WITHOUT checking the water level inside the motor compartment. In case there is water level higher than 5 cm, the board has to be serviced at nearest authorized reseller immediately. Leave the board open for ventilation.
- 18) Leave the board WITHOUT checking the outlet screws. (Small amount of draining water is accepted. Volume higher than 400 ml required immediate service at nearest authorized reseller).
- 19) Leave the battery pack connection inside the battery compartment unclean. If the connector is unclean, I will immediately clean the dirt with for example. Tooth brush, and will lubricate it with contact cleaner.
- 20) Store the battery pack outside the Battery Pack Travel Bag in temperature level different than 10 – 30 °C.
- 21) Leave the board on direct sunshine.
- 22) Store the Battery Pack in environment with freezing temperature danger.
- 23) End riding session WITHOUT putting the battery pack to the Battery Pack Travel Bag with maximum care of mechanical damage.
- 24) Use a Battery Pack with mechanical damage (case crack, scratches, damaged connector pins.)
- 25) Store and transport the battery with pressure compensation valve on.
- 26) Try to charge the battery pack immediately after the ride. For longer battery pack lifetime, I will leave the battery to cool down before I start charging.
- 27) Charge the battery pack in hot conditions with direct sunshine.
- 28) Charge the battery close to flammable objects. I will always make sure there is at least 2m distance.
- 29) Never leave the charging battery pack unattended.
- 30) Leave the battery pack connected uncovered after charging.
- 31) Transport the Battery pack fully charged. I will discharge the battery before transportation.
- 32) Use Safe Return mode for other purposes than safe return back to the shore.

## THE WARRANTY DOES NOT APPLY TO:

- Normal operational wear and tear.
- Damage caused by accidents.
- Damage caused by using low-quality, incorrect or improperly mixed fuel.
- Damage caused by use of non-original spare parts and accessories.
- Damage caused by foreign objects, debris, sand, mud, dirt or other objects or large particles
- Damage caused by improper use, for example jumps.





# JETSURF OWNER'S AGREEMENT COPY

Print First and Last Name

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- 4) Go to the water WITHOUT checking water presence and corrosion in the motor compartment
- 5) Go to the water WITHOUT checking that drip compensation tray is dry
- 6) Go to the water WITHOUT checking that drip compensation tray lid is tightened.
- 7) Go to the water WITHOUT checking that outlet screws are properly tightened.
- 8) Go to the water WITHOUT 100% battery level.w
- 9) Go to the water WITHOUT reading owner's manual. If I did not understand anything, I contacted my nearest reseller.
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- 13) Leave the battery connector inside the hull uncovered. I will always cover the connection with delivered cover with air pressure compensation.
- 14) Leave the connector on the battery pack uncovered. I will always make sure to put the delivered cover on the battery pack connector.
- 15) Leave the board WITHOUT covering the battery pack connector and cleaning (by fresh water) of cooling system with garden hose extension.
- 16) Leave the board WITHOUT check of drip tray. I will make sure the drip tray is dry and the lid will remain open.
- 17) Leave the board WITHOUT checking the water level inside the motor compartment. In case there is water level higher than 5 cm, the board has to be serviced at nearest authorized reseller immediately. Leave the board open for ventilation.
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- Damage caused by foreign objects, debris, sand, mud, dirt or other objects or large particles
- Damage caused by improper use, for example jumps.





## NOTES

Handwriting practice lines consisting of 20 sets of three horizontal lines (top solid, middle dashed, bottom solid).

## NOTES

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**BORN**<sup>FOR</sup>**FUN**

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[www.jetsurf.com](http://www.jetsurf.com)