Thank you for choosing Surftek Jet Surfboard! The Surfboard is a dedicated extreme sports device. It is made in full carbon fiber composite and is driven by a high performance two stroke engine. Please read through this manual to learn about all parts and functions. For your own safety, please check the Jet surfboard regularly and perform the maintenance as specified in this manual. It’s important to read and follow our safety instructions and maintenance guide before and after use.

If you have any questions, please send email to us (info@surfteksurfboards.com). We will provide the best-quality service. Please visit our website: www.surfteksurfboards.com for latest news and information.
List of contents

1. User Instructions ...........................................................................................................................................4
2. Safety Instructions .......................................................................................................................................5
3. Specification ..................................................................................................................................................7
4. Exploded View Drawings & Notes ..................................................................................................................8
   Engine Notes ..................................................................................................................................................8
   Crankcase .....................................................................................................................................................9
   Cylinder ......................................................................................................................................................10
   Muffler ........................................................................................................................................................11
   Impeller - Jet unit .......................................................................................................................................12
   Hull ............................................................................................................................................................14
   Jet surfboard Internal .................................................................................................................................15
   Throttle Control Handle ..............................................................................................................................16
   Control System ..........................................................................................................................................18
   Battery Charger .........................................................................................................................................20
Fuel Tank........................................................................................................................................21

5. User Guide ..................................................................................................................................22

6. Common Problems and Troubleshooting ................................................................................29
   Water in Engine...........................................................................................................................30
   Carburetor Tuning .......................................................................................................................31
   Carburetor Cleaning....................................................................................................................32

7. Engine Dis-assembly ..................................................................................................................33

8. Safety Warning ..........................................................................................................................35

9. After-sales Service & Warranty ................................................................................................36

10. Parts List ....................................................................................................................................37
1. User Instructions

The Jet Surfboard is a high performance power unit, IT IS NOT A TOY!

We strongly suggest that the user of the Jet Surfboard is over the age of 16. The Surfboard is not suitable for pregnant women, people with hypertension, heart disease or other disabilities. The Jet Surfboard will give you an unique experience, lots of excitement and a positive challenge as long as you protect yourself and others. Please always wear a helmet and proper safety gear. This manual provides most information about controlling the Jet surfboard, maintenance and safety. It can not cover everything you will experience, but it will help you to correctly use the Jet Surfboard and protect yourself from potential dangers. The drawing section shows the individual components.

As an owner of a Jet Surfboard, you should only surf on a water area that is suitable and where it is permitted by local authorities.

2. Safety Guide

2.1 Collision avoidance

The most common accident is a collision. Collisions cause more casualties than other accidents on the water, so practice your skills to prevent collision accidents. The Jet surfboard doesn’t have a brake, you need to decrease the speed in advance before stopping. The Jet surfboard can be steered at a very low speed, but you need to keep the engine running. If the engine has stopped, you will not be able to steer the Jet surfboard at all.
2.2 Precautions

Becoming familiar with the waterways and aware of people around you will help you to avoid accidents. Always keep a safe distance to people, other boats and any obstacles around you. Remember, if you are on a collision course, you should slow down and make an appropriate change in direction to avoid a collision.

2.3 Wearing a life vest

Always wear a certified life vest of proper size when you use the Jet surfboard. A life vest is the most important life saving insurance on the water. A good life vest should fit properly, be rated for your weight and be bright in color. We also suggest that you wear some basic protective clothing, such as a Neoprene™ swim suit, shoes and gloves to avoid orifice injuries.

2.4 Wearing a helmet

When a collision happens, a helmet can protect your head against impact trauma. But you will need to decide whether to wear a helmet or not, helmets can also cause serious injury to your head at certain angles of impact. Please only use a helmet designed for water sports.

2.5 Surfing at a controllable speed

When you use the Jet surfboard, Do not exceed the designed speed and keep it under positive control at all times. Loosing control of the board
can result in serious injuries. You should never use the Jet surfboard under the following circumstances: Being drunk or under the influence of drugs, being exhausted or having problems to concentrate or keeping your balance.

2.6 Keep your Jet surfboard in good condition

Regular maintenance can keep your Jet surfboard in good condition. Check your Jet surfboard before every engine start. Do not overload it, remove anything or do any modifications to the Jet surfboard, it will negatively change the performance.

Caution

1. Keep a safe speed and proper distance to people, property and other Jet surfboards.

2. Do not surf behind larger boats, as the wake can be very dangerous.

3. Do not surf closes to people or property, as the water jet can injure people.

4. Do not make sudden turns, it will confuse others about your moving direction.

5. Choose a proper water area, avoid diving or swimming areas and areas with shallow underwater objects or vegetation.

6. Prevent collisions and plan in advance. Remember, the Jet surfboard does not have any brakes.
### 3. Specification

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length<em>Width</em>Height</td>
<td>1800<em>600</em>150</td>
<td>Fuel</td>
<td>Unleaded Gasoline #92 or above</td>
</tr>
<tr>
<td>Weight</td>
<td>18KG</td>
<td>Fuel Mix Ratio</td>
<td>30:1</td>
</tr>
<tr>
<td>Engine</td>
<td>Two Stroke Water-cooled Engine</td>
<td>Fuel Tank Capacity</td>
<td>3.0L</td>
</tr>
<tr>
<td>Displacement</td>
<td>106CC</td>
<td>Recommended Lubricant</td>
<td>Full Synthetic 2T</td>
</tr>
<tr>
<td>Power</td>
<td>8KW/7500rpm</td>
<td>Ignition</td>
<td>CDI Ignition</td>
</tr>
<tr>
<td>Recommend RPM band</td>
<td>6700 ~ 7800rpm</td>
<td>Spark Plug</td>
<td>TORCH L6RTC</td>
</tr>
<tr>
<td>Maximum Speed</td>
<td>55km/h</td>
<td>Minimum Water Depth</td>
<td>50CM</td>
</tr>
<tr>
<td>Compression Ratio</td>
<td>13:1</td>
<td>Maximum User Weight</td>
<td>100KG</td>
</tr>
<tr>
<td>Bore*Stroke</td>
<td>52*50</td>
<td>Packing Dimensions</td>
<td>1900<em>700</em>300</td>
</tr>
<tr>
<td>Starting Mode</td>
<td>Electrical Starting</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
4. Exploded Drawings & Notice

Engine Notice:

1. User must be over 16 years of age.
2. Please use clean gasoline. The mixing ratio with lubricant is 30:1; Lubricant from different brands and grades should not be mixed, it will seriously block the carburetor.
3. A long time running at idle will result in carbon build-up on spark plug. 4. Always check pipe line from fuel tank to carburetor, air leakage is not allowed.
5. Clean the filter inside the carburetor regularly, otherwise the dirt might cause rough running of the engine and oil needle will be failed.
6. Start the engine in an open area outdoors, Do not start the engine indoors.
7. Before starting the engine, make sure gasoline is filled and the battery is charged.
8. A new engine should run for 10-20 minutes for breaking-in (low speed). The engine should never run without water cooling for more than 5 seconds, otherwise it will lead to permanent damage to engine and exhaust system.
9. Do not touch the engine while it’s running or try to stop it by hand or with objects.
10. Do not touch the cylinder and muffler till it’s cooled down.
11. When starting the engine, keep audiences 5 meter away from it.
12. Make sure the fuel tank is empty for transportation.
Crankcase
Cylinder
Impeller - Jet unit
**Impeller Notice**

Check and clean if there is any obstacle in the water inlet. The engine should be shutdown immediately if it is powering down by itself or starts vibrating. Check the impeller and bolts, make sure there is no damage from ingested objects or loose or lost bolts.

**Notice :**

1. The outlet hose is RED, the Blue one is the cooling water intake hose. The engine will overheat if the blue hose is disconnected.
2. Clean the one-way valve in the RED line regularly to prevent blocking. The one-way valve must be mounted in the correct direction when you put back after cleaning.
Hull
Jet surfboard Internal View
Throttle Control Handle

Throttle: Always test the throttle before you start the engine, the throttle trigger should have a smooth movement. The engine will move to idle when the trigger is released.

Test Procedures:

1. Press the trigger to the end and release several times. 2. Check if the engine shows a steady idle speed.
3. If the throttle doesn’t move back to idle when the trigger is released please stop using the Jet surfboard and check the throttle wire and do not fold the end of throttle wire on the

Throttle Control Handle maintenance

1. Hold the handle vertically and spray WD-40 to the trigger, press and release trigger several times and keep it vertically for 5 minutes till the throttle wire is fully lubricated.

2. Spray some WD-40 on the throttle wire that connects to the carburetor, and press and release the trigger several times.
Control System Notice:

1. Make sure all wires are in good condition with clean insulation and properly attached connectors.
2. The Control Systems unit should not get soaked in water for a long time. Dry out if necessary.
3. Do not disassemble the control system.

Replace the unit if damaged.
<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Color/Type</th>
<th>Where to connect</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pump connector</td>
<td>Black 4 cores(thin)</td>
<td>Pump</td>
<td>Blue and black are negative, Green and brown are positive</td>
</tr>
<tr>
<td>2</td>
<td>Ignition connector</td>
<td>Black 2 cores(wide)</td>
<td>Ignition 13</td>
<td>Brown is positive, blue is negative</td>
</tr>
<tr>
<td>3</td>
<td>Ground</td>
<td>#12 Black</td>
<td>Engine Hull</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Throttle Control Handle connector</td>
<td>Black 4 cores (thin)</td>
<td>Throttle Control Handle</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Cutoff switch connector</td>
<td>While 3 cores</td>
<td>Cutoff switch</td>
<td>Disconnect this connector for transportation or when the Jet surfboard is not used for a long time.</td>
</tr>
<tr>
<td>6</td>
<td>Start Motor connector</td>
<td>#12 Red</td>
<td>Start up motor</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Charger connector</td>
<td>Black 4 cores (wide)</td>
<td>Charger</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Power LED</td>
<td>Red/Green</td>
<td></td>
<td>Red on(power on); Green on(standby), pump is on</td>
</tr>
<tr>
<td></td>
<td>Low voltage LED</td>
<td>Blinking</td>
<td></td>
<td>Low battery, need to charge asap</td>
</tr>
<tr>
<td>9</td>
<td>Control Box</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Ignition</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Spark plug cap</td>
<td></td>
<td>Spark plug</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Sensor connector</td>
<td></td>
<td>Sensor</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Ignition connector</td>
<td></td>
<td>Control system 2</td>
<td></td>
</tr>
</tbody>
</table>
Charger

How to use:

1. When the charger is powered, all LED indicator lights will flash in order. When the Red led indicator light stops on 1.2A, it means the battery will be charged at 1.2A. (Default 1.2A). You can switch the charge current to 2.0A for fast charge by pressing the button on the side. We recommend to use 1.2A to charge the battery.

2. Before you plug the battery to the charger, you can use the button to choose the charge current. Each time you press the button, the LED indicator light will jump to the next charge current. For example: 1.2A(default)-2.0A-0.5A-1.2A. 3.

   When the battery is fully charged, the LED indicator light will stop blinking and turn to Green.

Notice: At Input DC voltage lower than 10V and higher than 18V, the charger will not work.
**Fuel Mixture**

Please use only **Fuel Tank**

Unleaded Gasoline #92 or above. Gasoline containing Ethanol is not allowed.

We recommend to use FD grade full synthetic 2T lubricant. Lubricant in poor quality will degrade performance or damage the engine.

The Fuel Lubricant Mixture Ratio should be 30:1 to 40:1. The breaking-in ratio is 25:1. For normal use, 30:1 is recommend. (The mixture ratio is in volume ratio, not weight ratio). The fuel consumption is about 1 hour at full throttle with a full tank of fuel.

---

1. Fuel Tank  
2. Fuel tank cap  
3. One-way valve  
4. Fuel nozzle assembly  
5. Fuel Tube  
6. Fuel Filter

**Notice:** The mixed gasoline should not be left in the Jet surfboard for long time. Otherwise it will block the carburetor.
5. Directions for use

Even if you have experience with surfboards or similar Sport equipment, you should spend some time for basic training of our Surfboard. For your own safety, Do not practice the Surfboard too far away from shore until you can fully control the Surfboard.

5.1 First mount the tail fin and make sure the impeller and cooling hoses are mounted properly.(Engine and muffler will be seriously damaged if the cooling pipe is not connected). Then mount the 2 side fins.
5.2 Check the power supply, fuel tank, screws and other parts, make sure they are all in good condition.

5.3 Power up the surfboard, Green light ON means the ignition system is on standby. Then insert the start key, the Red light should switch ON. A Signal light blinking means low battery power. If all signal lights stay off, it indicates a wrong wire connection or that the ignition system is damaged.

5.4 Close the choke, press the trigger fully (full throttle), insert the start key (wait for 3 seconds), the engine will be started, remove the key until popping sound is heard. Then open the choke, release the trigger, insert the start key (wait for 3 seconds), the engine will be started and run at idle. If the engine is not starting, repeat the above steps until it starts. You should wait for a few minutes if the start procedures failed 3 attempts. If you still have a problem to start after few attempts, you need to check if there is water in the engine, or oil overflow in cylinder. Notice: A new engine might take a few attempts to start.
When the engine failed to start:

1. Remove the end cap from the draining tube:

2. Insert the start key for 1 sec, the engine will start draining out of water after 3 sec. Notice: in this situation, the ignition will not work.

3. If the problem persists. Remove the spark plug and check if there is fuel overflow, Leaning the surfboard 45 degrees to drain the fuel.
④ Put the spark plug back when it’s dried.

⑤ If the engine still won’t start, Please refer to section 6 (Engine starting problem).

5.5 The start key should be inserted to cutoff switch when not used. You may need repeat start procedures if the engine is cooled down more than 5-10 mins. A longer waiting time after each start attempt will protect the battery and the starter motor.

5.6 The Throttle Control Handle controls the engine speed of the Surfboard, please accelerate/decelerate gently. When you release the trigger, the engine should slow back to idle.

5.7 The start key should be worn around the surfer’s wrist. If the surfer falls off from the board or looses the control handle, the start key will be pulled out from the control handle and the engine will be stopped immediately. To avoid accidents, when the Surfboard is not used, always insert the start key in the cutoff switch. (refer page 14, drawing 3), it will save battery power too.

5.8 Install the cover on top. For first time use, please do the engine break-in in the water. We recommend a breaking-in time of 10-20 minutes at low speed.
5.9 Notice: Before you use the Surfboard, use WD-40 spray on each part of the engine. Always clean the engine after it was used in seawater. After cleaning, drain the water from inside of the board and start the engine to drain all water in the cooling pipes. Spray WD-40 on all engine surface and a little bit in the carburetor intake, then start the engine again for a very short time to make sure the engine is well lubricated.

Remove the top cover after use. Moisture can initiate permanent damage to engine and electronic equipment.
5.11 Please cut off the power if the board will not be used more than 2 days.

5.12 Make sure the fuel tank is empty for transportation.

**Use techniques - proper handling:**

Shallow water: The water must be more than 50cm deep. Stand next to the Surfboard, one knee on the board. One hand grabs the handle on the hull. The other hand inserts the start key. After the engine is started, climb onto the board when the speed is high enough so the Surfboard can support your weight.

Deep water: You should practice in shallow water before you go to deep water. When you fall off in the deep water area, do not try to climb onto the Surfboard immediately. You should float on the side of board, grab the handle, insert the start key and start the engine. You should only climb onto the Surfboard when the speed is high enough so the Surfboard can support your weight. (Always try to climb back to the board as fast as you can when engine started, it will keep the water out of the cabin.)

**Important note**: When you master the skill of steering and throttle, change your position on the Surfboard to achieve the best performance.

When the front end of the board is high, it means you are too far back, you need to bend forward slightly. On the other hand, when you are too far forward it may slow down the Surfboard or make it unstable.
<table>
<thead>
<tr>
<th>Check List</th>
<th>Solution</th>
<th>Check List</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery charged/Fuel filled</td>
<td>Fill the Tank, Charge/Change battery</td>
<td>Engine mounting bolts loose/missing</td>
<td>Change/Repair</td>
</tr>
<tr>
<td>Correct Power connection</td>
<td>Rewire the power connection</td>
<td>Engine damper damaged or missing</td>
<td>Change/Repair</td>
</tr>
<tr>
<td>Spark plug wet or broken</td>
<td>Change/Airing</td>
<td>Coupling damping pad damaged or missing</td>
<td>Change/Repair</td>
</tr>
<tr>
<td>Ignition is not working</td>
<td>Check above three</td>
<td>Bearing is worn or missing</td>
<td>Change/Repair</td>
</tr>
<tr>
<td>Sensor malfunction</td>
<td>Change/Repair</td>
<td>Impeller, thruster bolts loose/missing</td>
<td>Change/Repair</td>
</tr>
<tr>
<td>Water in engine</td>
<td>Draining the water</td>
<td>Impeller bent, damaged</td>
<td>Change</td>
</tr>
<tr>
<td>Startup motor malfunction</td>
<td>Change/Repair</td>
<td>Objects in Jet-unit</td>
<td>Remove obstacles</td>
</tr>
<tr>
<td>One-way bearing failed</td>
<td>Change/Repair</td>
<td>Muffler loose</td>
<td>Repair</td>
</tr>
<tr>
<td>Any obstacles around Impeller</td>
<td>Check and clean</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carburetor is not working</td>
<td>Clean</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Muffler leaking</td>
<td>Change/Repair</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cylinder sized</td>
<td>Change/Repair</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
How to drain water from the engine:

1. Remove the end cap from the draining tube and remove the spark plug. The spark plug cap must contact the engine surface to prevent damage to the control system. Insert the start key for 1 sec, the engine will start draining any water after 3 sec. Notice: in this situation, the ignition will not work, the engine will be stopped after 3 sec.

2. Lean the Surfboard 45 degrees and repeat step 1 for 2-3 times till water is fully drained.

3. Put the spark plug back and the end cap to the draining tube.

4. Start the engine again, if the engine still won’t start, repeat steps above.
Carburetor Tuning:

Factory Setting: L (low speed) 0.75 turn CCW, H (high speed) 1.25 turn CCW.

“L” needle is for tuning the fuel supply at low speed, “H” is for tuning the fuel supply at high engine speeds. The fuel delivery is a very precise part, please tune it gently. The default setting will work in most conditions, only change the settings if required. Because of altitude or temperature differences, a slight tuning might be required sometimes. When the engine shows poor acceleration from low to high speed, slightly open the L needle to increase the fuel supply. Too much fuel at low speed causes engine shut off at idle. When the engine reaches the maximum speed, open the H needle 0.2-0.3 turn to keep the engine running at slightly rich.

Start the engine on the water, set full throttle for 20sec. Stop the engine while it’s running at full throttle, remove the spark plug and check the color. Brown: correct mixture; Black: too rich; White: too lean.

A Lean fuel mixture will make the engine overheat and burn the cylinder and piston.

Carburetor Tuning should only be done by experienced and skilled personal. (The engine can be damaged because of incorrect fuel mixture and this will not be covered by the warranty)
How to clean the Carburetor:

1. Remove the 4 screws on the back plate of the carburetor.

2. Use carburetor cleaner to clean the filter. Do not loose the filter, or the dirt from gasoline will block the carburetor.

3. Put the back plate back, check the correct installation orientation of the diaphragm.

Notice:

Please use clean gasoline, mixing ratio with lubricant is 30:1; Lubricants from different brands and grades should not be mixed, it will seriously block the carburetor. Note: Clean the filter inside the carburetor regularly, otherwise the dirt might cause rough engine running and oil needle will be failed.
7、Disassembling the Engine

1. Remove 8 screws at the tail fin (picture 1), then remove 2 screws at side of thruster (picture 2). Disconnect the cooling hoses, loosen up the coupling lock screw. (picture 3).

2. Remove all wires and hoses to the engine. (Blue is the cooling inlet pipe, Red is the cooling outlet pipe, Yellow is the fuel supply, White is the cooling hose for the muffler).
3. Remove the engine mounting bolts

Notice: Always use screw sealant (Loctite 242) on the engine mounting bolts when you put the engine back. The four bolts should be tightened in a diagonal way. The engine is a gasketless design, so when you put the it back, clean the contact surfaces and use Loctite 519 to seal it as a gasket.
8. Warning:

If the cooling hoses are disconnected, critical parts of the engine will overheat and get damaged. Check and clean the water or fuel in the Surfboard, to avoid any potential risks.

Check the bolts on critical parts to avoid potential risks, check the cooling and fuel hoses to avoid hoses leaking or becoming disconnected.

Damaged parts should be removed and replaced immediately, otherwise it may cause more problems to the Powered Surfboard.

Important Notice!

Even though we did some waterproofing to the board, it is not 100% sealed. Users should always clean out any water inside of the Jet Surfboard before and after use. The board should not be used as a raft, lying down on the board for long time is not recommended, as the engine will be flooded. We will not take any responsibility for water damage to the engine and costs related to repairing those damages are not covered by the warranty.
9. After-sale Service

If you have any questions about our product, please do not hesitate to contact your local distributor or us directly. Please provide your name, address, contact phone number and detailed problem description, recommendations or compliments to us. We will provide you the best-quality service.

Please call our technical support. Or send your request to our email: info@surfteksurfboards.com. Please visit our website: www.surfteksurfboards.com for latest news and information.

Warranty policy

1. We provide 1 year warranty from date of purchase.

2. Spark plug, starter motor and other consumables are not covered under warranty.

3. Warranty will be void if the board is modified, none-original parts are used and for unwarrantable damages. 4. Engine damage from using a wrong mixing ratio or low quality lubricant will void the Warranty.

4. Engine/parts damaged because of violent operation or the impeller ingesting foreign matter during use will void the Warranty. 6. Please keep the warranty card and in case of a warranty request send it with the returned parts, for warranty recording.
If there is any mistake or omission in the manual, please contact us, thank you.

Contact:

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