



# **FIREFLY™ INFLATABLE KAYAK**

**OWNER'S MANUAL**  
*MODEL AE1020*

**PATENTED**



## **1 PERSON KAYAK**

### **IMPORTANT!**

PLEASE READ THIS MANUAL CAREFULLY BEFORE PROCEEDING. AFTER READING THIS MANUAL, SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.



INFLATABLE KAYAKS WITH CUTTING  
EDGE TECHNOLOGY

## INTRODUCTION

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Designed in California, our goal at Advanced Elements is to develop new and unique paddlesports products that enhance our customers' outdoor experience. Our focus is on designing and manufacturing "Inflatable kayaks with cutting edge technology" and providing excellent customer service. We are deep rooted in product development with patented technology, striving to develop inflatable kayaks, iSUPs, and paddlesports accessories that excel in performance, quality, and portability. All of our products have been designed to give paddlers the tools they need at the value that they deserve.

We feel that it is extremely important to make sure that our customers are having the best experience possible. One of the ways we do this is by a passionate focus on customer support. It is the feedback from our customers that has allowed us to excel and continue to grow over the years.

Our offices, near San Francisco California, are not only where we conceive of and design our innovative products, but also where you will find our excellent Customer Service team that is ready to answer any questions you might have about our products and offer premier product support.

We hope to see you someday soon, on the water!

Sincerely,  
The Advanced Elements Team



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## 1. CAUTION - SAFETY WARNING

Users of this product agree by their use to accept the inherent risks involved in this paddlesports activity and agree to follow all instructions, cautions, and warnings carefully before using this Kayak.

(PLEASE READ CAUTION STATEMENT CAREFULLY)



### CAUTION

#### SAFETY WARNING

PADDLESPTS CAN BE VERY DANGEROUS AND PHYSICALLY DEMANDING. THE USER OF THIS PRODUCT SHOULD UNDERSTAND THAT PARTICIPATION IN PADDLESPTS MAY INVOLVE SERIOUS INJURY OR DEATH. OBSERVE THE FOLLOWING SAFETY STANDARDS WHENEVER USING THIS PRODUCT.

- GET PADDLESPTS INSTRUCTIONS SPECIFIC TO THIS TYPE OF CRAFT.
- OBTAIN CERTIFIED FIRST AID TRAINING AND CARRY FIRST AID AND RESCUE/SAFETY EQUIPMENT.
- ALWAYS WEAR A NATIONALLY APPROVED PERSONAL FLOTATION DEVICE.
- ALWAYS WEAR A HELMET WHERE APPROPRIATE.
- DRESS APPROPRIATELY FOR WEATHER CONDITIONS; COLD WATER AND/OR COLD WEATHER CAN RESULT IN HYPOTHERMIA. CHECK YOUR EQUIPMENT PRIOR TO EACH USE FOR SIGNS OF WEAR OR FAILURE.
- NEVER PADDLE ALONE.
- DO NOT PADDLE IN FLOOD CONDITIONS.
- BE AWARE OF APPROPRIATE RIVER WATER LEVELS, TIDAL CHANGES, DANGEROUS CURRENTS, WEATHER CHANGES, AND STRONG OFF SHORE WINDS.
- SCOUT UNFAMILIAR WATER; PORTAGE WHERE APPROPRIATE.
- DO NOT EXCEED YOUR PADDLING ABILITY; BE HONEST WITH YOURSELF.
- CONSULT YOUR PHYSICIAN PRIOR TO BEGINNING YOUR PADDLESPTS TRAINING.
- YOU MUST NOT USE ALCOHOL OR MIND ALTERING DRUGS PRIOR TO USING THIS PRODUCT.
- FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR THE USE OF THIS PRODUCT.
- IF ADDITIONAL OUTFITTING IS REQUIRED, USE MANUFACTURER'S APPROVED MATERIALS ONLY; DO NOT IMPAIR ENTRY OR EXIT ACCESS.
- READ OWNER'S INFORMATION PACKET PRIOR TO USING THIS PRODUCT.

THE USER OF THIS PRODUCT ACKNOWLEDGES BOTH AN UNDERSTANDING AND AN ASSUMPTION OF THE RISK INVOLVED IN PADDLESPTS.

**ADVANCED ELEMENTS, INC.**

**TOLL FREE 866-262-9076**

Please read this entire manual for additional safety information. Please pay close attention to items marked **DANGER, WARNING, CAUTION, IMPORTANT, NOTICE, NEVER, and ALWAYS.**



## 1.1 Boating Safety



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

|                   |   |
|-------------------|---|
| <b>! DANGER !</b> | Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury or substantial property damage. |
| <b>! WARNING</b>  | Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury or property damage.            |
| <b>! CAUTION</b>  | Indicates a potentially hazardous situation which, if not avoided, may result in property damage.   |
| <b>CAUTION</b>    | Used without the safety alert symbol indicates a potentially hazardous situation, which, if not avoided, may result in property damage.   |
| <b>NOTICE</b>     | Indicates installation, operation or maintenance information which is important but not hazard-related.                                   |

The precautions listed in this manual and on the craft are not all-inclusive. If a procedure, method, tool or part is not specifically recommended, you must satisfy yourself that it is safe for you and others, and that the craft will not be damaged or made unsafe as a result of your decision. REMEMBER - always use common sense when paddling YOUR KAYAK!

## 2. SPECIFICATION

### Dimensions:

Length: 7'10"

Width: 35"

Weight: 16 lbs (7 kg)

Max. Person Capacity: 250 lbs (113 kg)

Max. Persons & Gear Capacity: 250 lbs (113 kg)

### Recommended Pressure:

Main chambers: 1.5 psi (0.10 bar)

Floor chamber: 1.0 psi (0.07 bar)



### 2.1 Capacity

The person/load capacity is determined by the availability of proper seating on the kayak. Acceptable seating determines the number of passengers, not the overall load capacity.



FireFly™ Kayak Capacity Label

**⚠ WARNING:** Do not exceed the certified maximum capacities under any circumstances. Overloading will reduce freeboard and increase the likelihood of swamping, especially in heavy seas. Overloading causes handling to become sluggish, making it difficult to react quickly.

## 2.2 Features

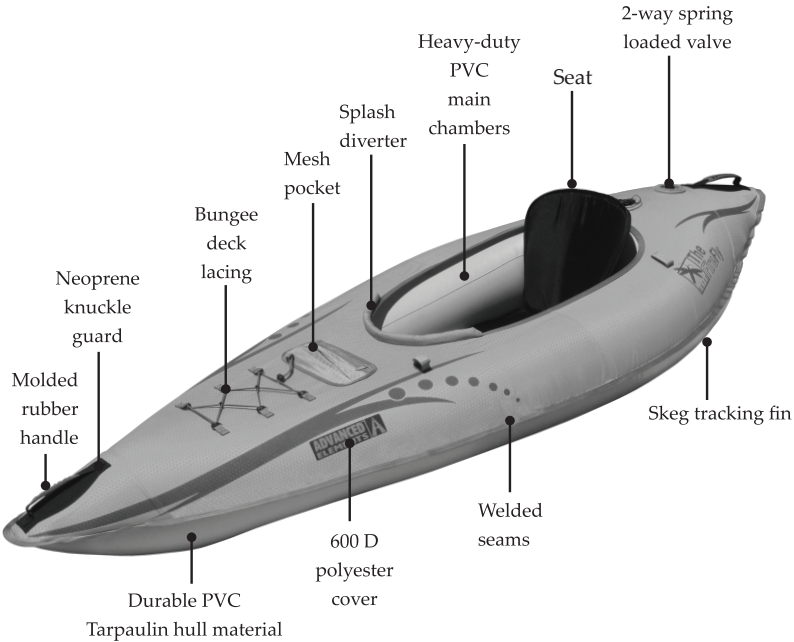
### SPECIAL FEATURES:

*Rigid Bow and Stern:* Built-in rigid panels define the bow and stern and improve tracking.

*Durable and Light:* Unique outer cover provides durability in a lightweight design.

*Easy to Set Up:* Twistlok™ valve and high flow Spring™ Valves allow for quick setup time.

*Hull Design:* Landing plate and tracking fin improve performance.



## 3. ASSEMBLY/INFLATING/DEFLATION INSTRUCTION

The FireFly™ Kayak has a rigid bow and stern that enhances its performance.

### 3.1 Assembly

Your kayak comes from the factory pre-assembled.

## 3.2 Understanding Your Valves

Advanced Elements FireFly™ kayak uses the following valves. The Advanced Elements spring valve has the function and durability of other military type valves and is compatible with most standard pumps. The lock nut holds the valve in place with the cover for easy inflation. The following figures will have details on how to operate the valves.

**To Inflate:** The valve's plunger stem should be in the up/outward position flush with the valve threading.

**To Deflate:** The valve's plunger stem should be set in the down/inward position recessed in the valve threading.

**In order to switch the valve from inflate to deflate or vice-versa, simply use your finger to press the valve stem down/inward and rotate it a 1/4 turn to either lock it down for deflate, or unlock it (stem will spring up) for inflate.**

### **How the Spring Valve Works:**

When the valve is in the inflate (up/outward) position, the air being pumped in pushes the spring-loaded plunger open, allowing air to enter the air chamber, but not letting it escape. When the valve is in the deflate (down/inward) position, the spring loaded plunger is wide open allowing the air to come rushing out of the air chamber. If the valve is in the inflate position, the valve's plunger stem will be flush with the rim of the valve. If the valve is in the deflate position, the valve's plunger stem will be inside, or lower than, the rim of the valve. To change the valve from the inflate position to the deflate position, simply use your finger to press the valve plunger stem down/inward, and give it a 1/4 turn. This will lock the plunger open and allow the air to rush out. Use the same procedure in reverse to unlock the valve plunger, allowing it to spring up into the inflate position.

**Special Note:** If you are using a 12v inflator, like those that come with most inflatable mattresses or those that plug into car cigarette lighters, you may need to have the valve in the deflate (down/inward) position because these types of pumps typically do not provide enough air pressure to press the plunger open to allow air into the air chamber. Additionally, 12v inflators do not provide enough pressure to fully inflate the kayak, so you will need a secondary pump to finish the job.

### **Using the "Screw-on" Spring Valve Adaptor:**

The screw-on Spring Valve Adaptor was designed to enable the pump hose to securely connect to the Advanced Elements Spring Valve without falling off during inflation, making inflation easier. The valve adaptor also has a semi-circle protrusion that depresses the valve stem, opening the valve slightly to allow pumps with pressure gauges to take a constant reading. When inflating the kayak using the Spring Valve Adaptor, the valve should be in the inflate position.

**Special Note:** The Spring Valve Adaptor comes with all current Advanced Elements pumps, with the exception of the 12v inflator, and will attach to any Advanced Elements pump that does not have the adaptor already included, with the exception of the 12v inflator. The Spring Valve Adaptor will also attach to some other manufacturer's pumps, but you must check the attachment style at the end of the pump hose to be sure it will fit.

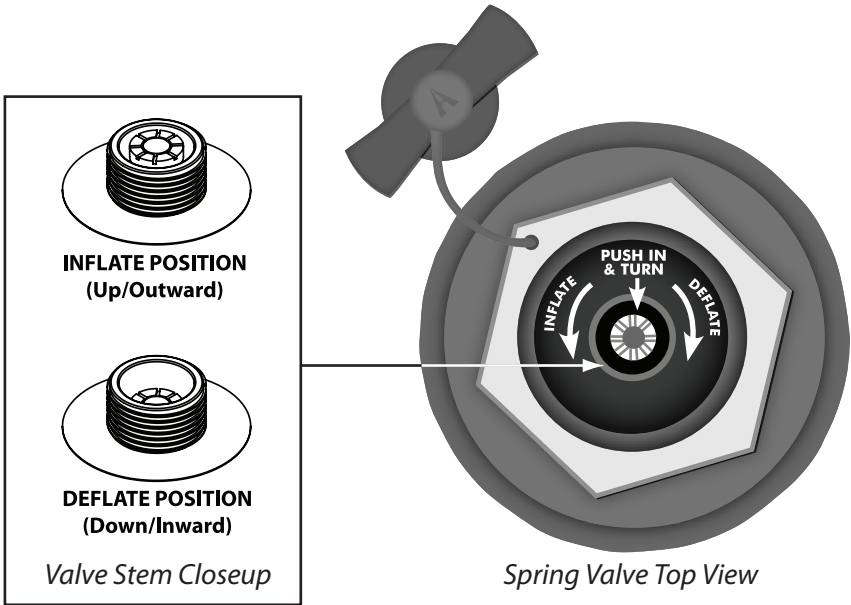


Figure 1. Inflate/Deflate Spring Valve

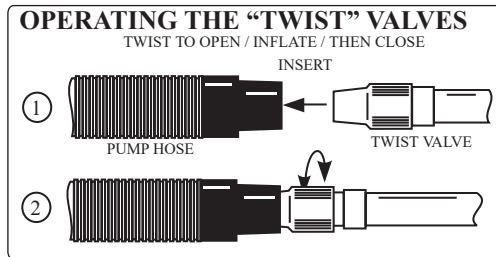
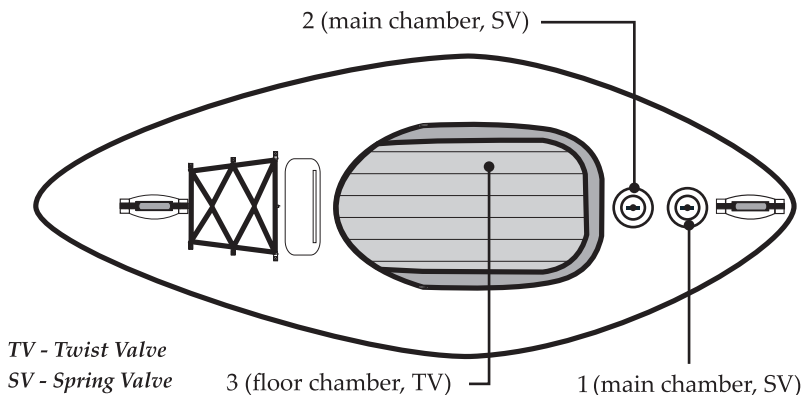


Figure 2. Inflate/Deflate Twist Valve

To begin inflating your kayak, you will need a **Bellows Foot Pump** or a **Double Action Hand Pump**. Never use compressors, CO2 or compressed air as they may damage you kayak.

## FIREFLY™ 3-AIR CHAMBERS



*Diagram of Inflation Chambers*

### 3.3 Inflating

**IMPORTANT:** Inflate your kayak in the following order. **Failure to follow these instructions may cause damage to your kayak. Do not over inflate.** Be sure to read directions on operating the spring valves and twist valves located in the section “*Understanding Your Valves*”.

1. Inflate chamber 1 “main1” until the kayak looks about half way inflated.
2. Inflate chamber 2 “main2” until the kayak feels firm to touch. **(1.5 PSI MAX)**
3. Inflate chamber 3 “floor” until firm. **(1.0 PSI MAX)** Do not over-inflate. If the floor appears to be expanding or stretching let some air out immediately.
4. Make sure all valves are closed tightly and properly.

**NOTE:** Ideally you want to put about half of the air in Chamber 1 and half into chamber 2. This way if you were to loose pressure in one chamber then you would have the other chamber to float the kayak.

### 3.4 Over Inflation

**⚠ CAUTION:** Water temperature and weather will affect the air pressure of the kayak. In cold weather and water your kayak will lose some pressure. If this occurs, you may want to add a bit more air to the kayak to improve performance. In hot weather or prolonged sunlight, the air inside the kayak will expand. You must let some air out of the appropriate chambers to prevent the kayak from failing due to overpressure. You should avoid exposing your kayak to extreme temperatures (hot or cold).

### 3.5 Deflation

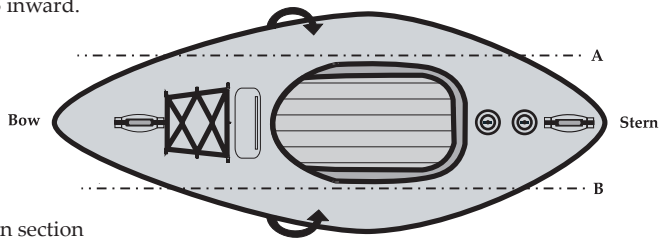
1. Remove the caps from chamber 1 and 2.
2. Push the stem inward and rotate to the deflate position. Do this on both valves.

3. Twist the valve body open on chamber 3 to release the air.
4. Once the chambers are deflated you can use your pump to vacuum out any additional air for improved folding.

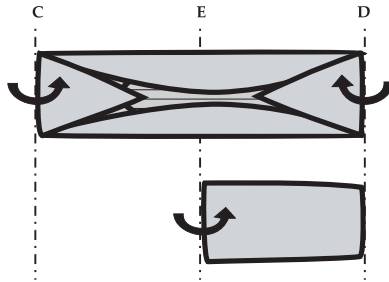
### 3.6 Folding

**NOTICE:** Reverse your pump to completely deflate all chambers.

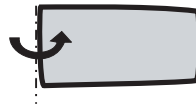
1. Completely deflate all air chambers and thoroughly dry the kayak.
2. Fold sides A and B inward.



3. Fold Bow and Stern section inward (C and D).



4. Fold again at line (E).
5. Place into duffel bag.



## 4. GUIDELINES FOR USAGE

Paddlesports can be very dangerous and physically demanding. The user of this product should understand that participation in paddlesports may involve serious injury or death. Observe the following safety standards whenever using this product. The user of this product acknowledges both an understanding and an assumption of the risk involved in paddlesports.

After you have inflated your kayak and before you put it in the water, inspect your equipment for obvious signs of wear or failure. Review local rules and regulations and read again the “CAUTION” statement.

Most areas have local laws and regulations about the use and equipment of small boats. Usually a phone call to the local authorities will provide you with the needed information. Some areas may require that you register and display a registration number on the front of your kayak. Once you have been issued a number, it is best to affix it to the kayak by printing it on the material with a permanent ink marker. If you are required to display a sticker or vinyl letters, an inflatable boat ID kit can be purchased at most marine stores.

Your kayak is designed to be paddled with a double bladed kayak paddle. Paddle with short and even strokes. Keep the blade close to the kayak and the paddle almost vertical. Pull with your lower hand and push with your upper hand. To reduce the amount of swaying at the front of the kayak, ease off on the force of your stroke. Paddling with a backward stroke can sometimes offer quick maneuverability.

**ALWAYS** practice safety and take the time to learn about the area where you are paddling. Get official information about the local tides and currents before paddling there. Be careful that you do not over estimate your strength, your endurance or your skill. Be careful never to underestimate weather conditions. Be aware of the dangers before you begin. Be aware of your skill level. Be sure you understand and accept the risk of these dangers. There are many paddling clubs all over the world. These can be a great source of information on places to paddle, people to paddle with and most importantly, continued safety practices.

## 5. PROPER CARE AND STORAGE

Your inflatable kayak is made of very durable materials. However, like anything else, proper use and care will increase the life of your kayak. Before storing your kayak, make sure it is both **CLEAN** and **DRY**. You may clean your kayak with a mild soap and water. **NEVER** use strong solvents to clean your kayak as they will destroy the material.

If your kayak has been used in salt water, rinse it off with fresh water and allow it to dry before storing. Use a dry towel to wipe up all moisture. It should be deflated and kept out of direct sunlight when stored. Avoid exposure to extreme temperatures (hot or cold). If your boat is exposed to freezing temperatures while storing, allow it to warm up before unfolding.

## 6. REPAIRS

All kayaks come with a repair kit that includes a glueless peel-and-stick patch. For more significant repairs, we include a selection of material patches that can be glued on. Simply acquire a PVC glue at your local marine or outdoor store or contact our Customer Service for assistance via email at [info@advancedelements.com](mailto:info@advancedelements.com) or 1-866-262-9076.

### 6.1 Repairing Small Punctures and Cuts Using the Peel-And-Stick Patch

1. Cut a patch to size (approx. 1/2" larger than the hole or damaged area).
2. Carefully clean the area where patch will be placed with water and/or mild soap.
3. Make sure all surfaces are completely dry before proceeding.
4. Carefully peel back the paper liner on the glueless patch and carefully apply the patch over the hole-taking care to avoid any bubbles in the patch. Rub all edges to seal.
5. As a rule of thumb, the patch will start to cure immediately with approx. immediate adhesion of 50% with full 100% adhesion 24 hours after application.

### 6.2 Repairing Pinholes

1. Inflate the PVC tube. Locate the pinhole by sponging soapy water over the tube until you see air bubbles. Mark the location of the pinhole.
2. Deflate the tube and dry the affected area. Apply a drop of glue to the pinhole.
3. Allow glue to dry completely.
4. Do not inflate the kayak for at least twelve hours.



## 7. TROUBLESHOOTING

### **PROBLEM**

### **SOLUTION**

**Does not hold air while inflating**

The spring valve uses a plunger system. The only time the plunger should be in the open position is when you are deflating. Make sure that the plunger is closed to inflate. Push the plunger in and rotate counter-clockwise.

**The kayak is sagging.**

Be sure that the right pump is being used. You need a bellows foot pump or a double action hand pump. A 12-V electric does not supply enough pressure to fully inflate the kayak. The 12-V can be used to partially inflate the kayak but one of the other pumps is needed to top it off.

**The kayak will not hold full pressure for more than couple of hours.**

Make sure that the plunger is in the closed position. It should only be open when deflating. If it is open, the only seal is the black rubber gasket inside the cap. Even then, a little air may still leak out.

**The kayak still loses air.**

If you have checked all the previous possible reasons for the kayak losing air, then there may be a pinhole or hole somewhere on the tube. Pull tube from outer covers. Inflate. If you cannot see or hear where a leak may be, take a clean rag with soapy water and begin rubbing the tube. If a hole is present, bubbles will continually form. Repair using repair kit. If it is a very small pinhole, a dab of the glue may be sufficient.

**The tube is kinked or bent.**

The tube just needs to be adjusted. When kayak is fully deflated try adjusting the position of the tube inside of the outer shell.

**The kayak is too tight.**

This is more than likely due to the fact that the kayak is over inflated. The widest point should be no less than fourteen inches across.

**The fin is bent.**

After inflating the kayak, turn upside down and leave out in sun for approximately ten minutes. Fin will conform to its original shape. Even if it is slightly bent, it will not affect the kayaks performance.

**The floor has formed a large bubble.**

If two of the ridges in the floor have formed one large one, the I-beam has come apart. This is caused by over inflation. It cannot be fixed. You need a new tube.

**There is water in the kayak.**

Water will drip into the kayak off of your paddle. Do not be alarmed. Simply dry it off before putting kayak away. You can also get a spray skirt from our accessories list from a dealer. This will help keep the inside of the kayak dry as well as you.

**The kayak drifts to one side.**

A kayak will always head in the direction of your last stroke. If the tube is not aligned inside of the cover, this will also cause drift.

## PADDLING NOTES:

It is always a good idea to keep notes of your paddling experiences. Your notes can serve as a reminder of what to look out for, as well as what gear to bring along, and what conditions are like.

| DATE | TIME | LOCATION | NOTES |
|------|------|----------|-------|
|      |      |          |       |

## NOTES:

## NOTES:

**Note: If your state requires the licensing of this boat, please use the form below. If you need any assistance filling out this form, please contact Advanced Elements Customer Service Department.**

**MANUFACTURER'S STATEMENT OF ORIGIN**  
**FOR A VESSEL SOLD IN THE STATE OF \_\_\_\_\_**

The undersigned manufacturer hereby certifies that the new boat described below, the property of said manufacturer, has been transferred this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ on Invoice# \_\_\_\_\_ to:

Owner's/Dealer's Name \_\_\_\_\_  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_

Model Name \_\_\_\_\_ Model Year \_\_\_\_\_ Manufacturer's Hull Identification# \_\_\_\_\_  
☐ FireFly™ Kayak (AE1020) \_\_\_\_\_ HIN# \_\_\_\_\_

Type: Kayak \_\_\_\_\_ Hull Material: PVC/Polyester \_\_\_\_\_  
Length Overall: 7'10" \_\_\_\_\_ Beam: 35" \_\_\_\_\_

U. S. Coast Guard Capacity Plate Information (where applicable):  
Maximum persons capacity in whole persons: 250 lbs (113 kg)  
Maximum weight capacity (persons & gear): 250 lbs (113 kg)

The manufacturer further certifies that this was the first transfer of such new boat and that all information given herein is true and accurate to the best of their knowledge



P.O. Box 5128 Concord, CA 94524

Signature \_\_\_\_\_

**FIRST ASSIGNMENT**

FOR VALUE RECEIVED, in the amount of \$ \_\_\_\_\_,  
the undersigned hereby transfers the Certificate of Origin and the boat described therein  
to \_\_\_\_\_

Address \_\_\_\_\_

and certifies that the boat is new and has not been registered in this or any other state; Advanced Elements, Inc. also warrants the title of said boat at time of delivery, subject only to the liens and encumbrances as set out below:

| Amount of Lien | Date  | To whom Due | Address |
|----------------|-------|-------------|---------|
| _____          | _____ | _____       | _____   |

Dates \_\_\_\_\_ 20\_\_\_\_, at \_\_\_\_\_  
By: \_\_\_\_\_

Transferrer (Firm name) Sign Here \_\_\_\_\_

Before me personally appeared \_\_\_\_\_ who by me being duty sworn under oath says the statements set forth above are true and correct. Subscribed and sworn to me before this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

\_\_\_\_\_  
Notary Public Date commission expires \_\_\_\_\_

(SEAL)

## ***Declaration of Conformity***

(according to ISO/IEC Guide 22 and EN 45014)

**Manufacturer's Name:** Advanced Elements, Inc.

**Manufacturer's Address:** P.O. Box 5128  
Concord, CA 94524

*declares, that the product:*

**Product Name:** FireFly™ Kayak

**Model Number (s):** AE1020

to which this declaration relates, **meets the essential health and safety requirements** and is in conformity with the relevant EU Directives listed below:

General Product Safety Directive

using the relevant section of the following EU standards and other normative documents:

EN ISO 6185-1 : 2001

ABYC H-29: 2012

Date: January 1, 2016

A handwritten signature in black ink, appearing to read 'g & k h .', is written over the printed name.

Clay Haller, President

This product complies with European directives for recreational vessels as published by the International Organization for Standardization (ISO).

## OUR GUARANTEE

It is very important to us that you are 100% satisfied with your Advanced Elements product. If you are not satisfied for any reason at all please call us immediately Toll Free at 866-262-9076. Please use the Warranty Registration Form at: [www.advancedelements.com/warranty](http://www.advancedelements.com/warranty) to register your Advanced Elements Product.

## LIMITED WARRANTY

Advanced Elements, Inc. warrants this product to be free from defects in material or workmanship for a period of one year from the date of purchase. Products that prove to be defective under conditions of normal and proper use during the warranty period because of defective workmanship or faulty material will be replaced or repaired without charge. For warranty service, contact Advanced Elements, Inc.

Advanced Elements, Inc shall inspect all warranty claims and in the event of a defect, repair or replace the defective part or entire item, at its option. The purchaser must, before return of a defective product, obtain from Advanced Elements, Inc, a return authorization number and return center address. Please write or call as listed below. Once an authorization number is obtained, the purchaser must ship the product, POSTAGE PREPAID, to Advanced Elements, Inc for repair. Do not ship to P.O. Box address as it may be sent back.

This warranty does NOT cover:

Products used for rental, for hire or in professionally guided tours and other uses not considered normal recreational purposes; and punctures, cuts and abrasions sustained in normal use; and items involved in accidents; and items damaged in white water mishaps, and other unreasonable uses or improper storage.

Advanced Elements, Inc shall within (30) days from receipt of an authorized return from purchaser, perform its responsibilities in conformance with this warranty.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.  
ADVANCED ELEMENTS SHALL NOT BE HELD LIABLE FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES.

THIS WARRANTY IS INCLUSIVE IN LIEU OF ALL OTHER WARRANTIES.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

Advanced Elements, Inc.

P.O. Box 5128, Concord, CA 94524

Toll Free - 866-262-9076 - email [info@advancedelements.com](mailto:info@advancedelements.com) - [www.advancedelements.com](http://www.advancedelements.com)

## **IMPORTANT!**

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**If you would like a catalog of our latest products please  
visit our website at  
[www.advancedelements.com](http://www.advancedelements.com)  
or call Toll Free 866-262-9076**