

**SEA EAGLE**.com<sup>®</sup>



# Sea Eagle Motormount Boat

Sea Eagle 9 (SE9)

Instruction & Owner's Manual

For video instructions visit [SeaEagle.com/Instructions](https://SeaEagle.com/Instructions) or scan the QR code below!

**Sea Eagle Boats Inc.**  
19 N. Columbia Street, Suite 1  
Port Jefferson, NY 11777  
1-800-748-8066

September 2019



## **Congratulations on purchasing a Sea Eagle!**

With over 50 years of experience in designing, selling and using these quality inflatables, we're confident that you are going to love your Sea Eagle and we're ready to proudly stand behind them.

### **Manufacturer's Certifications**

NMMA (for USA only) certification means that the boat, sold in the United States, has been judged by the National Marine Manufacturer's Association to be in compliance with the U.S. Coast Guard Regulations and American Boat and Yacht Council (ABYC) standards and recommended practices.

### **Sea Eagle Warranty**

All Sea Eagle products come standard with a 3 year warranty against manufacturing defects. The warranty begins the date that your product is delivered.

See complete warranty details at [SeaEagle.com/Warranty](http://SeaEagle.com/Warranty).

If you receive a damaged item, please call the shipping carrier to report the issue. Do not return damaged merchandise until it has been inspected by the carrier. Sea Eagle will be notified by the carrier when they have completed their inspection and if necessary, Sea Eagle will arrange for the repair or replacement of damaged merchandise.

## **Decals, Stickers & Registration**

Always contact your state boating authorities for information on boating registration and regulations. Most states require you to register your boat if you are using a motor.

Upon registration it may be required to provide the Manufacturer's Statement of Origin. Purchases made through an authorized dealer or reseller may require for you to contact them directly in order to obtain this. You may be charged your own state sales tax if you were not charged sales tax at the time of purchase.

Registered boats generally require the registration number to be applied to the boat. We do not recommend the use of decals or stickers as they tend to crack and peel over time with the repeated inflation and deflation of your Sea Eagle. Instead we suggest applying these numbers to a small piece of hard plastic or marine plywood and hanging it from your boat like a license plate if permitted by your state. Another method is to apply the numbers to the hull using either PVC based paint or permanent marker.

## **Contact Us**

Unlike many other companies today we pride ourselves on answering the phone and helping you with any concerns, questions or special ordering needs that you may have! Feel free to give us a call at **1-800-748-8066** and we will be happy to talk with you! Our business hours are Monday to Friday from 9AM to 5PM, EST.

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In a manual of this type it is impossible to give adequate space to the topic of water safety. For further information on boating safety, visit [USCGBoating.org](http://USCGBoating.org) or enroll in a water safety course at a local provider.

It is your responsibility to be aware of and comply with all relevant safety regulations. For all water recreation or sport you should have a reasonable swimming ability. Just as swimmers have a cardinal rule about not swimming alone, it is strongly advised that you should never go boating alone. As a safety reminder, each Sea Eagle hull has a list of suggestions printed on it for you to follow that we call Boating Safety Basics.

## Boating Safety Tips

- Always wear a USCG approved PFD (life vest) at all times while on the water.
- Be aware of your local boating rules and regulations and abide by them accordingly.
- Check inflation levels each time before you go out and inflate your boat for a full 24 hours before undertaking long trips.
- DO NOT allow children to use Sea Eagle unsupervised.
- DO NOT consume alcohol while boating or operating a boat while under the influence of alcohol or drugs.
- DO NOT smoke inside of your Sea Eagle.
- DO NOT drag your Sea Eagle over rocks or gravel if it can be avoided.
- DO NOT exceed the certified maximum capacities of this boat under any circumstance.
- DO NOT go boating alone. Always tell someone where you are going to be boating and what time you plan to return.
- DO NOT use compressors, CO<sub>2</sub> or compressed air for inflation, only use Sea Eagle recommended pumps.
- DO NOT use your Sea Eagle Boat as a personal flotation device as they are designed for leisure/recreation in mind.
- DO NOT sleep inside of your Sea Eagle while on the water.

## Safety Equipment

The type of water conditions you are on should determine the type of safety equipment that you should have on board. For all types of boating we strongly recommend that every passenger wear a USCG approved PFD (personal flotation device) like a life vest. In most places this is a requirement by law, but from our point of view it is also an exercise of good judgment to have a PFD for all passengers

## Important Safety Items

**Drinking Water & Snacks:** Bring a good amount of drinking water for all passengers to prevent dehydration, especially on warm and hot days.

**First Aid-Kit:** Be sure to carry a kit that reflects the possible dangers for the conditions you are in.

**Manual Pump/Repair Kit:** Although our boats are both durable and rugged, it may be possible that you need to make a repair while on the water in which case you'll need the repair kit and a manual pump to re-inflate the boat. If this is your first repair, you may also want to bring this instruction manual with you.

**Sun/Rain Protection:** A hat can protect both your face and head from the rain or sun. You may also want to carry sunscreen with you as both the sun and the sun's reflection from the water can do serious damage to your skin. If you are out for prolonged periods of time you may need to reapply sunscreen as needed. It is also a good idea to store extra clothes and layers in a dry bag so that they're not damp in case of an emergency or if weather conditions change at a moments notice.

**Whistle:** Having a whistle readily available in case of emergency is a great way to attract the attention of others if assistance is needed.

**Float Plan:** Similar to a pilot's Flight Plan, consider having a Float Plan ([www.floatplancentral.org](http://www.floatplancentral.org)). Always tell someone where you are going to be boating and what time you plan to return. Keep a cell phone in a waterproof container that will float if it falls in the water.

## OPERATING YOUR SEA EAGLE

### Rating

The SE-9 is rated for 4 persons or 645 lbs maximum, and a combined 1200 lbs or persons, gear and motor. The maximum motor size is 3 horsepower (3 hp).

### Motor Selection

The SE9 can take an electric trolling motor or small gas motor up to 3 hp. It works best with a small electric trolling motor such as the Watersnake Venom 34 or Minn Kota Endura 30.

### Gas Powered

Some of the advantages of gas motors over electric trolling motors include; their greatly increased range, power against a headwind, and they do not require a heavy marine deep cell battery. Disadvantages include; high initial cost, maintenance costs and gasoline or LP storage. Long shaft works best (20"). Short shaft (15") is sufficient but the motor mount must be set as low as possible.

The SE-9 is a "displacement hull" that does not plane, it pushes up a wave at the bow and cannot overcome the wave. A gas motor can provide more power than the SE-9 can take advantage of. In calm conditions, the speed of the boat is limited to its hull speed of approximately 4 mph. Beyond a certain setting, approximately ¼ throttle, the motor may shake, ventilate (pull air down to the propeller), or the sound may change to a deep rumbling with no increase in speed (lugging). The weight and thrust of a gas motor will cause the back of the boat to bend downward in the water. For these reasons, using more than a small motor like a Honda 2.3 hp is not needed for the SE-9.

Torqeedo electric motors are powerful like gas motors and perform similarly.

### Electric Trolling Motor

Some advantages of trolling motors are; their low cost, light weight, ease of storage, low maintenance requirements, quiet operation, and usability in bodies of water that prohibit gas motors.

There are some basic parameters to know in order to understand electric motors. The thrust rating of a motor is also its maximum electrical draw in amps. A 30 lb thrust motor draws about 30 amps on the highest setting. To extend range, operate the motor on a lower setting. For example, the Watersnake Venom has five settings, and draws approximately 12 amps on the #3 power setting. Watersnake and Minn Kota trolling motors can easily push the SE-9 to its hull speed. According to Minn Kota, their trolling motor propellers are pitched to push a boat at approximately 4 mph. A larger thrust motor will not appreciably raise the speed of the boat, but could help in a strong headwind.

In a river or tidal current, the SE-9 cannot make progress against a current that is more than its hull speed or the speed of the trolling motor. Forward speed will vary depending on conditions, but if the current is moving faster than the boat can go, it cannot make headway and may go backwards relative to land and adding a larger motor will not be effective.

# OPERATING YOUR SEA EAGLE

## Battery Selection

A wide range of acceptable batteries are available. The battery must be 12 volt (unless otherwise stated by the manufacturer) and between about 20 and 120 Amp Hours (Ah). Amp hours is a very important number, if the battery you are looking at doesn't clearly state the amp hours, it is probably not suitable. A 12v deep cycle marine lead-acid battery, lithium ion battery, personal watercraft battery or electric vehicle (wheelchair) battery is acceptable. A Group 24 lead-acid battery or smaller is recommended for the SE-9 because of its weight. Group 24 batteries weigh approximately 50 lbs and hold 75 Ah charge. Heavier batteries can be difficult to safely manage in a small inflatable boat.

## Battery Features and Safety

- Positive (+) red wire connects to positive (+) battery terminal. Black wire to negative terminal (-).
- To determine a battery's charge life, divide the amp hour rating by the motor amperage. For example, a battery rated at 60 Ah connected to a 30 amp motor will last approximately two hours at full speed. Note: this number will vary depending on conditions.
- Running the battery all the way down will shorten its life. Not more than 85% discharge is recommended. Multiply the above by 0.85 to get best run time.
- Charge battery after each use. Lead acid batteries like to be kept charged.
- Exposure to excessive heat will shorten battery life.
- Cold Cranking Amps (CCA) and starting power are not a consideration.
- 12v automobile, lawn tractor and motorcycle batteries can be used but are not designed for deep discharge and will wear out more quickly.
- A battery box like the Minn Kota Power Center is recommended, especially around aluminum paddle shafts which could cause an electrical short. It has a built-in circuit breaker. It will keep bare skin and clothes protected if any acid leaks from the battery.
- A circuit breaker or fuse is required by the Coast Guard. Check the trolling motor manual for the size circuit interrupter needed. Some of these conveniently bolt to the battery terminal. They are intended to protect against reverse polarity and shorts.
- In the event the motor wires are placed on the wrong terminals, reversing the polarity, the wires heat up and can melt the insulation and cut through the boat.
- A 12v battery charger will be needed. Chargers are widely available and prices range widely. Inexpensive chargers are usually sufficient.
- Choose gel cell over wet cell. Gel will be less leak likely to leak acid if the case seal is broken.
- Lithium or AGM batteries can be a good choice even if they are more expensive. They are generally lighter, discharge evenly for longer run times, and charge evenly for a longer life.
- For some, two small batteries are better than one large, heavy one. A small backup battery can be helpful too.

More technical and safety information is available from battery and motor manufacturer's, boating organizations and publications.

## Capacity Ratings and Dimensions

**Persons:** 4

**Total Weight Capacity:** 1200 lbs.

**Maximum Engine Rating:** 3hp, 20" shaft, 45 lbs. max. weight

**Chambers:** 4

**Length:** 11'

**Width:** 4' 8"

**Boat Weight:** 35 lbs.

### Motor Safety and Reboarding

Spinning propellers and carbon monoxide produced by gas engines can cause serious injury or death.

- Do not approach a running motor from the water.
- If you or a passenger falls overboard, do not attempt to reboard in the motor mount area. A grab line is provided on the sides and front for reboarding.
- Turn engine off at a safe distance when approaching a swimmer in the water.
- A propeller safety guard is recommended for gas motors.

If the motor is equipped with an engine safety kill switch, the driver must attach the cable to themselves, either around the thigh or wrist, or to clothing (preferably a life jacket). In addition:

- Test regularly to ensure that the engine stops when the kill cord is pulled from the switch.
- Make sure that the kill cord is in good condition.
- Always attach the kill cord securely to the driver, ideally before the engine is started, but certainly before the boat is put in gear.
- Stop the engine before transferring the kill cord to another driver.
- Wireless kill switches are available and each passenger can wear one.

Boating is challenging and inherently dangerous. Follow safe boating practices, be physically fit enough to meet the challenges, prepare for any weather conditions that might be anticipated, and follow the Sea Eagle Boating Safety Basics.

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**One-Way Air Valve**  
 Locate the four white valves that come in a bag packed with the boat. This bag also contains the Inflation Monitor which will be needed later.



Insert the larger end of the wide end adapter into the hose and twist it to lock in place.



There are 4 air chambers on the boat - 1 for the floor and 3 for the sides which are numbered 1-3. Both seats have 1 chamber each.



Insert the hose into the "INFLATE" port.

**Note:** Use the "DEFLATE" port when packing the kayak as compactly as possible is needed.



**Tip:** The wide ended adapter works on every valve on the SE9 and the seats.



Install valves to each valve base. Stretch the retainer ring over the valve base then screw the valve cape into the base. Unscrew the outer cap to reveal the inflation port.

**Tip:** Stretch the retainer ring with your fingers for easier installation.

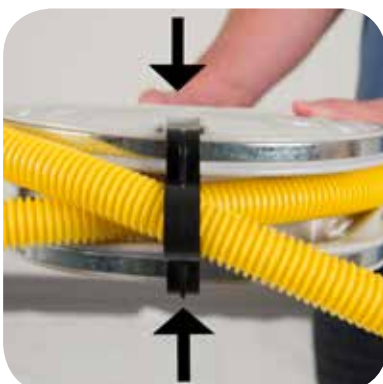
A clear plastic "Inflation Monitor" gauge is included for chambers 1 and 3. These chambers are fully inflated when the 1-10 numbered lines printed on the boat in blue, match the black 1-10 lines on the Inflation Monitor.



- The boat material (PVC) stretches as it is inflated
- Avoid over-stretching, always use the monitor
- Do not use the circular lines, match

the scale lines 0 through 10.

- A 10 cm (4") ruler can be used as a substitute.



**A42 Foot Pump.**  
 Unravel the hose and push down on the top & bottom to release the black clip.



## Motormount Boat SE9 | SETUP: VALVES & PUMP



**Warning:**  
Air compressors that are designed for other uses, like tire inflation (usually around 32 PSI) can easily harm your Sea Eagle which works at a much lower pressure of 1 PSI. For this reason we recommend only using Sea Eagle pumps.

## Motormount Boat SE9 | INFLATION & ASSEMBLY



**Motor Mount Set (OPTIONAL)**  
Includes 2 rods with retainer pins, motor mount block and hardware (4 black knobs, 2 brackets, 4 bolts, 4 washers).

## Motormount Boat SE9 | INFLATION & ASSEMBLY



Locate an area large enough to unfold the boat, avoiding hazards that could damage the boat or injure you.



Insert the long part of rod through the grommets on top of boat. Push the short part of the rod into the grommet under boat. Press the button and push rod through grommet until it pops up on other side.



If not already installed, insert the inflatable floor with the valve facing up. Tuck the edges under the sides of the boat.



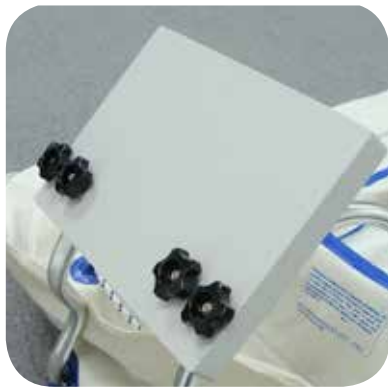
Place the brackets on the rods and adjust them so they are parallel.

**Tip:** Turn the bracket to one side, slip it onto the rod then turn the bracket to face forward.

If a motor mount (optional) is not to be installed, please skip the next 7 steps.

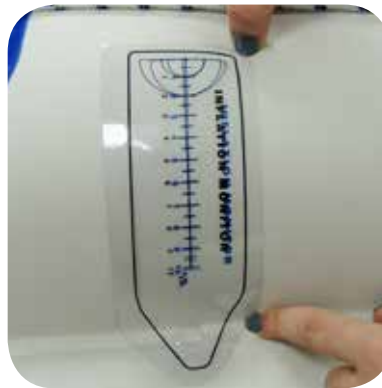


Attach the wooden motor mount block to the brackets using the hardware provided. Insert the bolts through the bracket, then through the block. Put 1 washer on the end of each bolt.



Secure the bolts with the black knobs.

Do not tighten the knobs until all the bolts are through the block.



Use the Inflation Monitor to check the progress. The blue scale printed on the boat and the black scale on the Inflation Monitor will match when the chamber is properly inflated.

**Note:** The blue Inflation Monitor for Chamber 1 will stretch: do not let air out. Chamber 1 will keep boat afloat if pressure is lost in main Chamber 3.



The heads of the bolts should be aligned in the channel to keep the bolt from turning.



When done, chamber 1 should look like this. This is the backup chamber in the event that the main chamber leaks.



Insert the pins through the holes at the end of the top bars to secure in place. Loop the end of the string over the bar to secure the pin to the bar.



Inflate chamber #2 until it is firm.

Inflate chamber #3 while monitoring progress with the Inflation Monitor.

Inflate high pressure floor. Pump until it is very firm. The cover and I-beam construction will prevent floor from over-stretching. Bladder cover may need to be repositioned if valve does not show through opening. If necessary, open zipper on the underside to adjust cover.



Inflate chamber #1. Insert the hose with the adapter into the valve. Pump with one foot at a comfortable pace until significant resistance is felt.



### Inflatable Seats

Attach a valve to each seat and inflate as described in the previous steps.



**13" Fishing Inflatable Seat**  
Optimized for operating a motor or for fishing, place in the aft position. D-rings can be used to secure seat in place by running a line or strap under the floor and tying off.



To row use the blue carry handles as oar locks.  
The handle is a snug fit for the shaft of the oar, slide the drip ring on the inside of the boat to act as a stopper to keep the shaft in the oarlock.



**4" Rowing Inflatable Seat**  
Sit comfortably & lower in the boat. Perfect height for rowing.

**Your Sea Eagle SE9 is ready to go!**

Start Up



Fisherman's Dream



**AB254 Oar Set**  
Push down on the button located on the blade portion, and insert into the shaft. The button will lock into corresponding hole in shaft.

WaterSnake Motor



The oars conveniently stow on the sides of the boat.

## Motormount Boat SE9 | DEFLATION & FOLDING

WaterSnake  
Motor Canopy



Deflation is as easy as 3, 2, 1. Deflate in the reverse order chamber 3, then 2, then 1, and finally, the floor! If the order is reversed, air will be trapped in chamber 3, and chamber 1 will then have to be re-inflated.

Fish-n-Troll



Allow most of the air to escape and pull one side completely over the other.

Honda Motor



Pull the other side over the first until it overlaps the boat as shown.



**A)** Fold the aft end over approximately a third of the way up the boat.

**B)** Fold the front of the boat over the last fold.

**C)** Fold in half.

## Motormount Boat SE9 | STORAGE

If you're planning to leave your Sea Eagle outside, keep it raised off the ground and covered so it is not exposed to sunlight, rain, leaves, berries, bird droppings, etc.

**Storage Tips:** "The best way to store a Sea Eagle is folded up in it's bag". - Cecil Hoge, Jr., Sea Eagle President

- Check for water in the chambers. Water will leak out of open valves when it is rolled up.
- Water left inside can leak out and cause a lot of mold. Dry thoroughly to prevent mold.
- Rodent-proof the storage area. Mice, squirrels and other small rodents can do a lot of damage.
- Avoid excess heat. Do not store in direct sunlight, in an attic or a metal shed.
- In temperatures below freezing, do not drop, strike or unroll until it is brought to room temperature.
- It can be stored inflated. If hung, support it along its length.
- After storage, inspect for loose items, damage and leaks. Avoid excess heat. Do not store in direct sunlight, in an attic or a metal shed.

## Motormount Boat SE9 | TROUBLESHOOTING

If your Sea Eagle has lost pressure, it does not necessarily mean it is leaking. If it is inflated during the heat of the day and the temperature drops during the night it will be softer in the morning. If launching in very cold water, the air inside may contract and cause a loss of pressure. Add more air to restore to full pressure. If temperature is not a factor and your boat is losing air pressure, it's time to look for a leak.

### Step #1. LOOK

Visually inspect the boat close up and if necessary, flip it over and closely check the outside. Any large leaks when your boat loses a considerable amount of air should be clearly visible.

### Step #2. LISTEN

If you have a rough idea of where your leak is but can't see it, you may want to try listening for it as you may be able to hear the air escaping and pinpoint the leak.

### Step #3. Check for Crossed Threads

Make sure that both the inner valve and the outer cap are firmly screwed together. If threads are crossed on either part, a slow leak could result. A good way to avoid this is to first turn the outer cap back 1/4 turn.

## Motormount Boat SE9 | TROUBLESHOOTING

### Step #3. Check for Denting

Check the O-Ring base for dents. Denting can occur when the valve body lies across the O-Ring during storage. Heat the O-Ring with a hairdryer for about a minute or so until the dent eases itself out.



### Step #4. Check the Diaphragm

Check the black diaphragm at the bottom of the inner valve for grains of sand and other debris. Also check the threads on the inner valve, boat hull and outer cap for any dirt or sand which might break the seal.



### Step #5. SOAPY WATER TEST

You'll need a bucket and liquid dish washing soap. Fill the bucket with clear water, and add a good squirt of soap (couple of tablespoons) to the water. Inflate the leaking chamber to full pressure. Spread lots of soapy water on the leaking chamber with a hand towel or large sponge. Don't assume the leak is coming from the valve or seams. The leak may produce bubbles, make hissing or sputtering noises, or spray water. Spray bottles are not effective at locating many leaks.



## Motormount Boat SE9 | REPAIRS

Even though Sea Eagles are very rugged and tough, you may still experience the occasional puncture. Fortunately most repairs are fairly easy and only take a few minutes. For extensive repairs, please contact us directly to provide you with further assistance. The best way to do this is to e-mail us a digital photo of the area in question along with your hull identification number to [staff@seaeagle.com](mailto:staff@seaeagle.com).

You can also call us directly at **1-800-748-8066 ex. 314** and ask to speak with Technical Support for further assistance or a quote for having your boat mailed to our facilities for our professional repair services.

Sea Eagle repair fees start at \$75.00 and does not include return shipping charges. Please note that Sea Eagle does not service any other brand other than our own. All items sent to our repair facilities must have prior authorization in the form of a Return Authorization Number.



### Repair Kit

All Sea Eagles come standard with a repair kit that includes patching material and tubes of PVC glue.

To patch your Sea Eagle, use an adhesive for PVC boats.

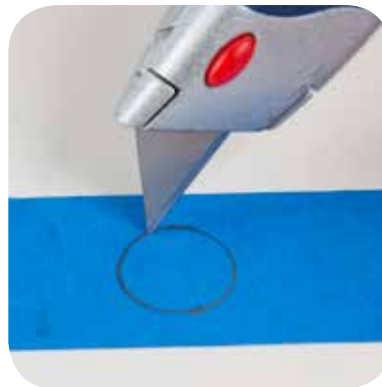
Plumber's cement, epoxy, Flex Seal, water-proofing sprays and Gorilla Glue *do not* work.



Trace the outline of a penny on the patch material and on the boat. If a larger patch is needed, use a larger item as a template.



Cut patch along the outline with scissors.



Pro Tip: Trace the outline of the penny on masking tape and cut with a utility knife. Apply tape to the boat instead of tracing on the boat.



### Pinholes

Deflate the boat and thoroughly clean and dry the area that is to be repaired.

For small punctures less than 1/8" apply a small drop of glue and allow 24 hours to cure.



### Patching

The most common repairs are a puncture or small cut. A penny size patch is sufficient for repairs of this type.

**Note:** A small paint brush (not included) can come in handy for spreading glue.



Apply glue to the patch and boat. Allow to dry 15 minutes. Glue must be dry to the touch. If glue layer is thin, apply second coat, allow to dry 15 minutes.



Apply patch to the boat. Smooth with finger or a smoothing tool such as a spoon, handle of a utility knife, or screwdriver. For best results, heat patch with a hair dryer 10-20 seconds and smooth with tool.

### Patching Tips:

- The chamber must be deflated or the air will force a path through the glue.
- Keep the patch size to a minimum, the bigger the patch, the harder it is to seal. The most common repair failures occur because the patch is too big.
- For repairs larger than a puncture, overlap the damage area by about ½" on each side.
- Do not apply the patch while the glue is wet.
- Covering a leaking patch with another patch rarely fixes the problem. To remove a patch, heat it with a hair dryer and peel it off.
- For field repairs, allow at least an hour to cure. Other repairs, allow to cure overnight.
- Patches can be removed by heating with a hairdryer.
- **Never** use a heat gun on your boat.
- Clamps and weights are not needed.

For a demonstration of good patching technique, please view the **How to Repair** video on the instruction page of our web site. There is a link at the bottom of every page at [SeaEagle.com](http://SeaEagle.com) or type "instructions" into the search box.



### DO NOT USE GLUE ON ACCESSORIES

The SE9 is manufactured with a type of (stretchable) PVC material that cannot accommodate the use or application of gluing on D-Rings, Scotty™ Glue On Mounts or other glue on accessories that can cause stress and damage the boat.

## Accessories (OPTIONAL)



We offer a wide variety of accessories to use with your Sea Eagle Motormount Boat.



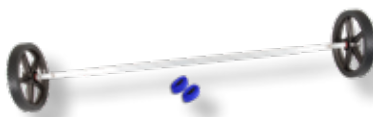
**WaterSnake Venom 34 (OPTIONAL)**  
A great trolling motor for fresh and salt water.



**Personal Flotation Devices (OPTIONAL)**  
U.S.C.G. approved. Life jackets, paddling vest, PFD Belts available in various sizes.



**3M Marine Cleaner & Restorer (OPTIONAL)**  
Cleans, shines, conditions and protects vinyl, rubber and plastic surfaces. Deep cleans dirt & grime, enhances appearance. Restores natural sheen. Fresh lemon scent.



**EZ Cart Wide- (OPTIONAL)**  
Transport the SE9 from your car to the water and back with ease. Quickly assembles & disassembles.



**See-me Safety Light (OPTIONAL)**  
Coast Guard approved LED personal safety light emits a 360° light visible up to 3.4 miles. It also attaches to a PFD!



**Honda 2.3L Gas Motor (OPTIONAL)**  
The light weight, long shaft Honda 2.3 includes a built in gas tank and will motor the SE9 through wind, waves & current.

## Contact Us

Unlike many other companies today we pride ourselves on answering the phone and helping you with any concerns, questions or special ordering needs that you may have! Feel free to give us a call at **1-800-748-8066** and we will be happy to talk with you! Our business hours are Monday to Friday from 9AM to 5PM, EST.

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