



Shown with
Optional Skegs



Sea Eagle[®] FoldCat 325fc & 375fc

Instructions and Owner's Manual

October 2006

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INTRODUCTION

Sea Eagle FoldCat 325fc & 375fc

Congratulations, you just bought the finest 1 or 2-person fold up fishing boat on the planet. Before proceeding with assembly and inflation, please check to see that you have all necessary parts:

Sea Eagle FoldCat 325fc Deluxe Package includes:

- 325fc FoldCat inflatable hull
- catamaran carry bag
- repair kit* (small orange canister)
- 2 raised oarlock bases with oarlock pins & hardware
- 2 collapsible rowing oars
- 3 aluminum floorboard slats
- 4 aluminum stabilizer underbars
- front aluminum step rod
- wooden motormount with 2 L-brackets & hardware
- 1 quick release swivel seat mount with hardware
- 1 swivel seat
- 2 rod holders with flushmount adapters & hardware
- A-41 bellows foot pump

**Note: The repair kit includes 2 patches, tube of glue, Halkey Roberts Valve Adapter & Halkey Roberts valve tool.*

Sea Eagle FoldCat 375fc Deluxe Package includes:

- 375fc FoldCat inflatable hull
- catamaran carry bag
- repair kit* (small orange canister)
- 2 raised oarlock bases with oarlock pins & hardware
- 2 collapsible rowing oars
- 5 aluminum floorboard slats
- 4 aluminum stabilizer underbars (2 long & 2 short)
- front aluminum step rod
- wooden motormount with 2 L-brackets & hardware
- 2 quick release swivel seat mounts with hardware
- 2 swivel seats
- 2 rod holders with flushmount adapters & hardware
- A-41 bellows foot pump

**Note: The repair kit includes 2 patches, tube of glue, Halkey Roberts Valve Adapter & Halkey Roberts valve tool.*

Sea Eagle FoldCat 375fc Pro Angler's Package includes:

- 375fc FoldCat inflatable hull
- catamaran carry bag
- repair kit* (small orange canister)
- 2 raised oarlock bases with oarlock pins & hardware
- 2 collapsible rowing oars
- 5 aluminum floorboard slats
- 4 aluminum stabilizer underbars (2 long & 2 short)
- front aluminum step rod
- wooden motormount with 2 L-brackets & hardware
- 2 quick release swivel seat mounts with hardware
- 2 swivel seats
- 4 rod holders with flushmount adapters & hardware
- 1 pedestal for swivel seat with hardware
- 1 aluminum step bench
- nylon storage bag

- A-41 bellows foot pump

**Note: The repair kit includes 2 patches, tube of glue, Halkey Roberts Valve Adapter & Halkey Roberts valve tool.*

ASSEMBLY

The FoldCat 325fc & 375fc requires only one time assembly of optional aluminum step bench (SE 375fc only), front aluminum step rod, adapters for rod holders and quick release swivel seat mounts. These things can be rolled up with the hull for storage. Most people will never fully disassemble their FoldCat.

Unroll the FoldCat hull and lay both the pontoons parallel to each other flat on the floor.

Please note, the ends of pontoons with Halkey-Roberts valves and two grommets for aluminum step rod will form the bow of the FoldCat.

Attaching Aluminum Step Rod

Insert the ends of aluminum step rod into the 2 grommets (1 on each pontoon) in the bow of the FoldCat 375fc in such a way that the 2 bolts going through the step rod lie on the inner side. On the SE 325fc, the step rod already comes attached. It secures to the fabric floor and provides an easy front carry handle. On the SE 375fc the step rod serves as a foot rest for the person sitting in the front and also provides a front carry handle.



Aluminum Step Bench

The aluminum step bench (*included only in the SE 375fc Pro Angler's Package*) is shorter in length than the other 5 aluminum slats. It has only two nylon slotted fittings for attaching it to the 375fc FoldCat hull.



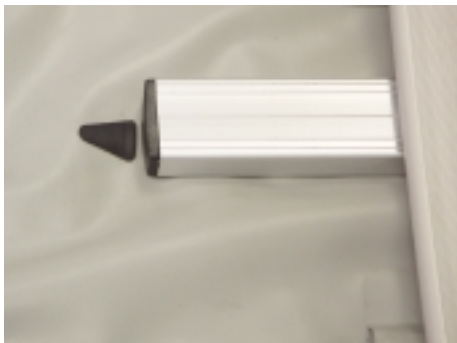
Feed the 2 fabric beads in the bow of the 375fc FoldCat hull through the 2 nylon slotted fittings under the aluminum step bench as shown.

Stabilizer Underbars

The SE 375fc, has 4 aluminum stabilizer underbars - 2 short and 2 long. The SE 325fc has 4 stabilizer bars all short. From the bow of the FoldCat slide the short aluminum underbars under the first and the second aluminum slats between the fabric beads holding the slats along the length of each pontoon.



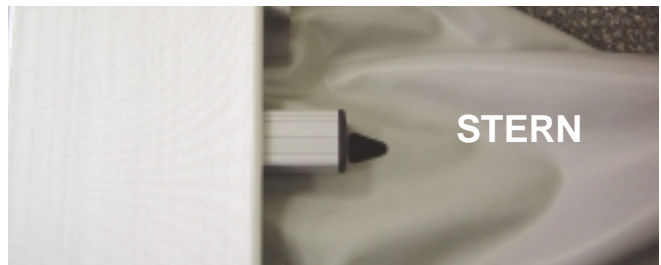
Align the bow end of the stabilizer underbar against the triangular marking on the bow of each pontoon as shown below. Please note, on the SE 325fc, the 2 short stabilizer bars actually are closer to the aluminum board than shown above and they should meet together under the center aluminum board.



Similarly, slide the long stabilizer underbars from the stern of the FoldCat under the rearmost, 2nd rearmost and the 3rd rearmost aluminum slats.



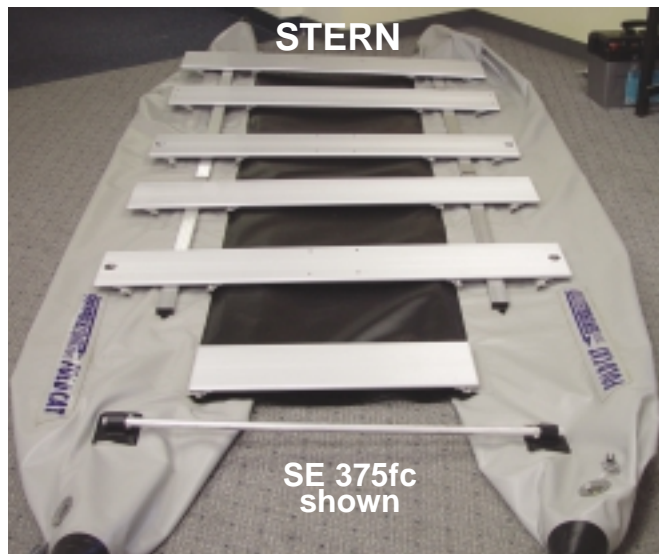
Align the stern ends of these underbars against the triangular markings on each pontoon in the stern.



Also make sure that the long and the short underbars are aligned properly along the length of the pontoon. On the SE 375fc, the aluminum underbars must nearly touch each other (approximately towards the center of the pontoon) between the 2nd aluminum slat from the bow and 3rd rearmost slat as shown below. On the SE 325fc, the aluminum underbars also meet each other but under the aluminum center bench.



The frame of the FoldCat 325fc or 375fc is ready for inflation and looks like this. Please note, on the SE 325fc there are only 3 aluminum cross benches and no aluminum step bench.



Inflation Instructions

The FoldCat 325fc & 375fc have Halkey-Roberts valves on both pontoons.



The valve cap unscrews to reveal the yellow valve stem. **When this stem is in the up position as shown the valve retains air. The valve should be in this position to inflate the boat.**

If the stem is not in the up position, turn the yellow stem counterclockwise with your thumb to bring it in the up position.

A41 Bellows Foot Pump



This pump is used for all our products and is one of the best on the market today. We firmly recommend you always carry your A-41 on board for safety. Attach the hose to the valve on the right side of the pump (as shown in the picture) to inflate.



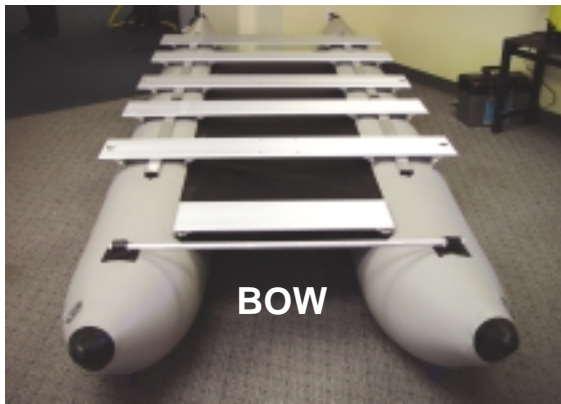
Use the Halkey-Roberts adapter included with your FoldCat (**placed in the repair kit**) to inflate this valve. Insert

the Halkey-Roberts valve adapter into the yellow hose of the A-41 Bellows Foot Pump.



Push the adapter into the Halkey-Roberts valve and turn clockwise to lock it in position.

With our A41 foot pump, inflate each pontoon till you cannot pump any more air into it. At this stage the foot pump will become extremely hard and you will not be able to press it any further. That means the pontoon has reached its optimum pressure. Withdraw the adapter from the valve and close the valve cap. Inflated FoldCat 375fc should look like this.



Inflation with Electric Pumps

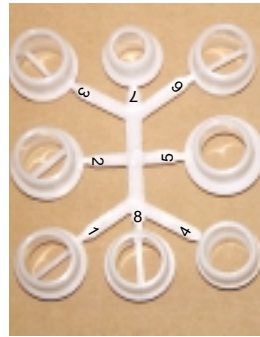


MB-100 High Pressure Electric Pump is specifically designed for higher pressure inflatable boats like our FoldCat 325fc & 375fc. It has a set of alligator clips to hook on to a 12 Volt car battery just like a jump cable.

Make sure your pump is off and hook the red positive alligator clip to the positive terminal of your battery. Hook the negative clip to the negative terminal of your battery.



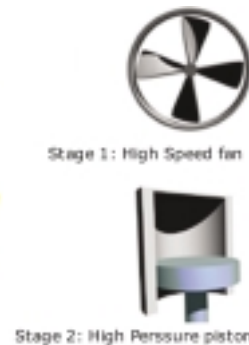
Adjust the pressure dial on the MB-100 pump to 220 milibar, or 3.2 PSI as shown, and plug the hose into the valve opening above the dial for inflation. *The other opening on the other side of the pump is for deflation, which is not required for our boats.*



Please note, the MB-100 Pump comes with a cluster of 8 adapters that are numbered from 1 to 8. (*You do not have to use the Halkey-Roberts valve adapter with the MB-100 pump*). These numbers are written on the arms of the cluster that hold each adapter. You have to carefully read these numbers on the arms of the cluster.

Attach the other end of the hose to the adapter # 1 from the cluster to inflate the FoldCats. Push the adapter in the Halkey-Roberts valve and switch on the pump. It will change gears during inflation and automatically stop once the pontoons is fully inflated at 3.2 psi air pressure.

BST Super Turbo Electric Pump



The BST features a two stage pumping system - a high speed fan to quickly inflate your hull, and a piston pump to achieve the desired pressure our FoldCats needs. Not only is this pump amazingly

fast, but it is portable as well. The high capacity battery can inflate our FoldCats twice between charges. Includes valve adapters, high capacity battery, 110 volt household charger & 12 volt cigarette lighter adapter for car use.

The BST Super Turbo Electric Pump also has an adjustable pressure dial and a cluster of 8 valve adapters like our MB-100 Pump. (*You do not have to use the Halkey-Roberts valve adapter with the BST pump*). Adjust the dial of the BST pump to 220 milibar, or 3.2 PSI. Insert one end of the hose to the opening on the pump that has an arrow pointing outward (for inflation). *The opening on the other side of the pump with an arrow pointing inward is for deflation, which is not required for our boats.*

Attach the other end of the hose to adapter # 1 from the cluster. Push the adapter in the Halkey-Roberts valve on the boat and switch on the pump. The pump will go through the two stage pumping system - a high speed fan to quickly inflate your hull, and a piston pump to achieve the desired pressure our FoldCats needs. It will automatically stop once the pontoon is fully inflated at desired pressure of 3.2 PSI.

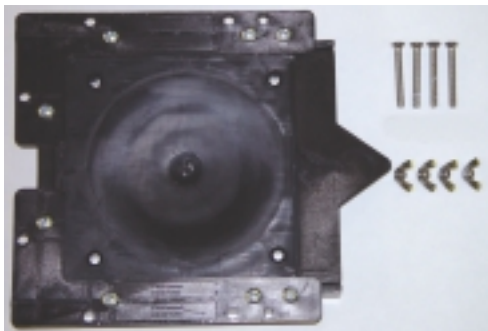
Deflation



To deflate a chamber, simply turn the yellow valve stem clockwise with your thumb to secure it in the down position. This will let the air out of your boat. Our boats do not require a pump for deflation.

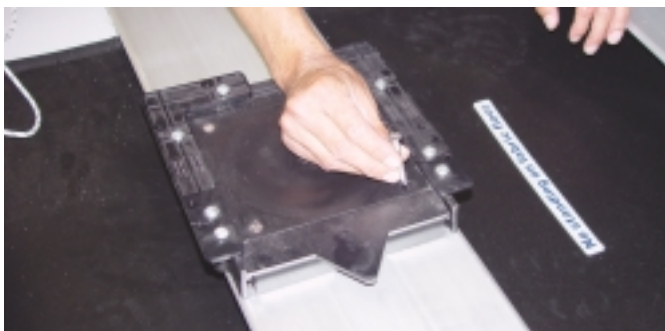
Swivel Seat Attachment for FoldCat 325fc & 375fc

The quick release swivel seat mount comes with 4 bolts, 4 wing nuts as shown below.



There are two sets of quick release swivel seat mounts included in any of our SE375fc packages and one in the SE 325fc package.

On the SE 325fc, bolt the quick release swivel seat mount in the center aluminum slat bench through the 4 predrilled 3/8" holes using the included bolts & wingnuts. On the SE 375fc, bolt the quick release swivel seat mounts in the center of the 3rd rearmost aluminum slat and the first slat from the bow through the 4 predrilled 3/8" holes using the included bolts & wingnuts as shown below. *Please note, the quick release seat mount(s) can stay attached to the slat bench of the SE 325fc or SE375fc and never again need to be disassembled.*



Now slide the swivel seat(s) into the quick release swivel seat mounts and **make sure that the spring loaded lever mechanisms locks in place.**



Pedestal for Swivel Seat

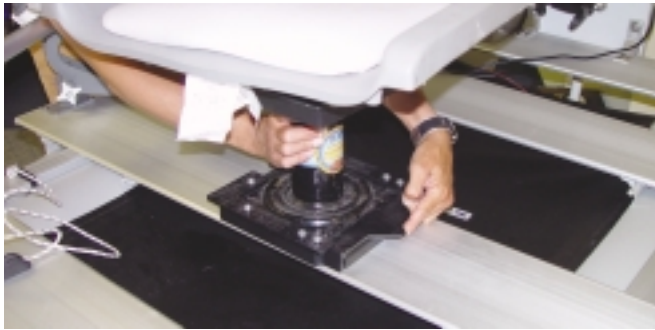
(For 375fc Pro Angler's Package. Optional for 325fc). The Pedestal comes with four bolts and nuts to attach it to the Swivel Seat.



Bolt the upper end of the pedestal to the swivel seat as shown above. And then slide the other end of the pedestal into the quick release swivel seat mounts and **make sure that the spring loaded lever mechanisms locks in place.**



Please note, for disassembly it is very easy to detach the swivel seat or the pedestal from the quick release seatmount by sliding them out while lifting up the spring loaded quick release lever mechanism on the swivel seat mount with your finger as shown below.



Rod Holders

Each rod holder includes the plastic flush mount adapter and hardware as shown below.



Please note, the Deluxe Package includes 2 rod holders and the Pro Angler's Package includes 4 rod holders.

On the 375fc, attach the flush mount adapters for rod holders at the ends of the 3rd rearmost aluminum slat and/or the first aluminum slat from the bow. Each of these ends on the aluminum slats have 1 big 1 1/2" hole & 4 1/8" holes surrounding the big hole as shown below.



Use four 3/4" screws to attach each flush mount adapter to the aluminum slat with a phillips head screw driver. Please note, the adapters can stay attached to the slats and never need to be disassembled.



Now place the rod holders in the adapters as shown.



For disassembly, you only need to detach the rod holders from the flush mount adapters.

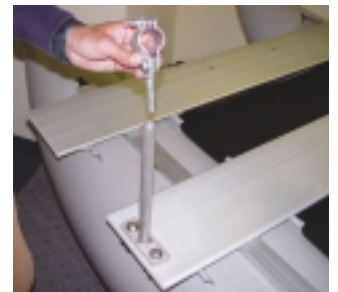
On the 325fc, install the rod holders at the end of the middle aluminum slat.

Oar Locks & Oars



There are 2 oars and 2 oarlocks included in any of our FoldCat packages. Each oarlock includes a raised oarlock base, an oarlock pin, two bolts attached and 2 knurled nuts.

On the 375fc, bolt the raised oarlock bases at both ends of the 2nd rearmost aluminum slat through the 4 pre-drilled 3/8" holes (2 at each end) using knurled nuts. And then place the oarlock pins into the raised oarlock rods as shown.

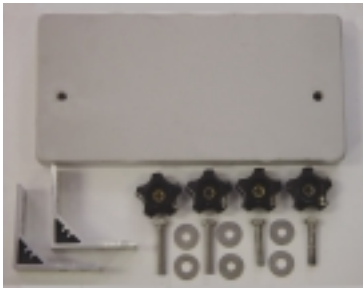


Now snap the two 8' sectional oars together and inset each oar into the oarlock pins and tighten the wingnuts to secure the oars as shown below.



On the 325fc, the raised oarlock bases are installed on the first aluminum slat in the bow. And then attach the oarlock pins and oars as explained above for 375fc.

Motormount



Parts for the motormount include wooden motormount plate, 2 aluminum L-brackets, four bolts, 4 washers and 4 knurled nuts.

This rearmost slat has 2 pre-drilled 3/8" holes for placement of motormount. Bolt the aluminum L-brackets through these 2 holes by inserting the 2 bolts down through the front holes in the L-brackets and securing with knurled nuts below as shown.



Secure the wooden motormount plate to the L-brackets by running the other 2 bolts through the top holes in the L-brackets and the 2 holes in the motormount plate itself. Tighten all knurled nuts and bolts.



Your motormount assembly is now complete.

Fully assembled Deluxe Package looks like this:

SE 375fc shown



Fully assembled FoldCat 375fc Pro Angler's Package looks like this:

SE 375fc shown



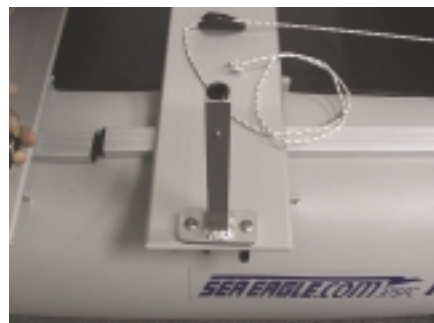
Please note, after first time assembly of the FoldCat 325fc or 375fc, for disassembly all you have to do is deflate the air chambers, remove the underbars, swivel seats, rodholders, oars and unscrew the oarlocks. For transportation, simply roll-up the hull along with the aluminum slats & motormount and place it in the FoldCat carry bag.

Canopy (for FoldCat 375fc only)

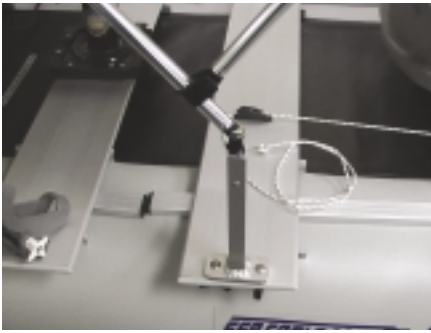
Install 1 Sea Tie on the aluminum step rod in the bow of the FoldCat 375fc.



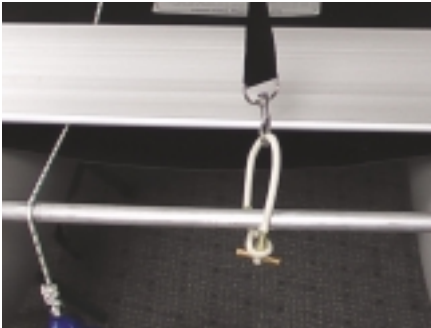
Then install the other 2 Sea Ties to the last slat in the stern of the FolCat as shown.



Install the two raised oarlock bases on the sides of the second wide aluminum slat from the bow as shown.



Insert the canopy rods with preassembled pins into the raised oar lock rod bases as shown.



The center black strap on the canopy should be attached to the sea tie on the aluminum step rod in the bow.



Attach the other two black straps to the two sea ties on the last aluminum slat in the stern as shown.



(2) Now insert the snaplock bracket at this end as shown.



(3) Push the snaplock bracket so that the pin is snapped in position.

Attach the base to the other side of the FoldCat in the same way.



(4) Now raise the other ends in the vertical position so that the snaplock pin at the elbow joint snaps in place.



(5) Now attach the upper part of the casting bar to the raised ends till the snaplock button locks in place. You may adjust the height of the casting bar to the position that is comfortable to you.

Fully assembled canopy should look like this



Casting Bar

A) Installation for FoldCat 375fc



(1) Partially deflate both pontoons and insert the base arm of the casting bar under the first slat in the bow of the FoldCat as shown. Place the other end of the base under the step

rod so that the step rod fits in the notch as shown in the next picture.

B) Installation for FoldCat 325fc

Partially deflate both pontoons and insert the base arm of the casting bar under the first slat in the bow of the FoldCat. **Unlike the 375fc, on the 325fc do not attach the other end of the base to the step rod and follow steps (1), (4) & (5) only explained above for FoldCat 375fc.** The reason why the casting bar is not attached to the step rod on a 325fc is because it will be too far from the person standing on the first slat. Casting bar on the 325fc should look this this:



Basic Motoring Instructions



The Sea Eagle FoldCat 325fc and 375fc are a very light weight catamarans. Since only the pontoons are in touch with water, there is less drag and so they motor very well even with small outboard motors. They take only up to 3 HP gas engines. You can also use up to 74 lb. thrust electric motors. As with any boat, while motoring you need to be keenly aware of the wind and water conditions around you - especially while using an electric motor, you don't want to be caught with a 4 knot boat trying to fight a 5 knot tidal current. As with all boating, a little planning goes a long way. However, you will be surprised at the fine maneuverability of the FoldCat 325fc or 375fc even with an electric motor.

Basic Rowing Instructions



You will be surprised how easy it is to row your FoldCat 325fc or 375fc boat. If you have never rowed a boat of any kind, there are some fundamental concepts that you will have to grasp.

Before embarking on the water, you should realize one fundamental truth: when you row forwards, you face backwards. This means that you will have a great view of where you have been, but almost no view of where you are going. If you want to alter this you may get one or two rear view mirrors. Some traditional rowers will consider this immoral, but it is nice to have a view of where you are going.

As in any boating situation, it is vital to carry a life jacket and to be aware of the conditions of the water you are rowing in. You should be aware of any and all obstacles and dangers that you might encounter (i.e. sailboats, motorboats, moored boats, bouys, docks, rocks, winds, waves, lightning, rain, etc.). When rowing backward it is important to realize that if you are not using a mirror you will have to periodically twist your neck and look where you are

going. Please remember to give way to both sailboats and motorboats, as they have the right of way.

Before getting in, you should adjust the oarlock pins so the handles of the oars almost touch as they come together. Please note, at some point in the future, when you become more proficient with rowing, you may want to use longer oars which will crossover each other and give you greater reach and coverage. You also may want to switch to traditional oarlocks that allow you to feather your blades on their retrieves. Using longer oars that crossover and/or oars that feather takes practice. You may want to consult some books on rowing before before considering these future options.

If this is truly your first time rowing, we recommend that you practice rowing for several hours near the shore before venturing out further on open waters. Practice not only makes perfect, it makes safe.

Please note, when pulling your oars through the water you should try to keep the blades fully immersed, but as close to the surface as possible. This will give you greater rowing leverage. You should continually practice your rowing strokes, trying to make them as fluid and smooth as possible.

Storage

The Sea Eagle FoldCats can be stored inflated for an indefinite period of time as long as the temperature remains warmer than -20° fahrenheit. For outdoor storage, cover the FoldCat with a tarp and keep it off the ground.

For indoor storage it is best to find a dry, relatively cool location. Avoid attics or other locations with temperatures above 120 degrees fahrenheit.

Troubleshooting

Leakage of air: If your boat appears a bit soft, it might not be because of a leak. If the boat was inflated late in the day with 90 degree air, that air might cool 20 degrees overnight. The cooler air exerts less pressure on the hull, so it could appear soft the next morning.

If there has been no temperature variation, you need to start looking for a leak. Below are the three best methods.

1) Visual inspection. Get a good look at your boat from just a few feet away. Flip it over and closely check over the outside. Any large leaks should be clearly visible.

2) Listening. If you have a rough idea where your leak is, you can sometimes hear it in a quiet room.

3) Soapy water. Use a mix of dishwashing liquid & water in a spray bottle, and spray over suspicious areas. Any leak will produce bubbles that will pinpoint the location of the leak.

4) Check your valves: Look, listen, and if necessary, spray soapy water around your valve and the valve base. If you do find that it is leaking at the valve please call our service

department to get a replacement valve.

Repairs

Through use you may occasionally puncture your boat. Most leaks only take a few minutes to repair. Your boat comes with a repair kit, and additional repair supplies can be ordered from our website.

Small Repairs: Deflate your boat. Thoroughly clean and dry area to be repaired. For a small puncture (less than 1/8th") apply a small drop of glue. Let dry 12 hours. If you need to get on the water sooner, let dry 30 minutes and then inflate the boat, inflating the compartment with the repair only 3/4 full. Be sure to make a permanent repair later.

Patches: Leaks larger than a pinhole can be patched. Most patches can be done in a few minutes, but we do offer a repair service for more complex jobs out of warranty. Our minimum repair fee is \$75. and you will be responsible for freight expenses to our facility in Port Jefferson and return freight to your destination.



First locate the leak by the methods above. Soapy water will bubble out from the source of the leak.



Thoroughly clean the area surrounding the leak to remove any dirt or grime.



Cut a piece of repair material large enough to overlap the damaged area by approximately 1/2". Round off the edges, and place over the damaged area. Using a ball point pen, trace the outline of the patch. Angle the pen inward a bit so that the ink will be covered by the patch later.



Apply adhesive to the underneath side of patch and around the area to be repaired. Coat the affected area lightly but completely with glue.



Let the glue sit for 2-4 minutes until it appears tacky.



Place the patch on the damaged area and press down firmly. Place a 3-5 pound weight over the patch and allow 12 hours for repair to dry. After patch dries, apply glue around the edges for a complete seal (dry 4 hours).

Halkey-Roberts Valves

Over the years the Halkey-Roberts valves can loosen a bit which will produce a slow leak. If you are seeing this, first try to tighten the valve using the the black Halkey Roberts valve replacement tool in your repair kit. If this does not reduce the slow leak, and you have ruled out a puncture, you might need replacement valves.



To replace your valve, use the aforementioned Halkey-Roberts tool to remove the old valve. Turn in a counterclockwise manner to remove the outer valve



The inner valve is loose, so make sure you hold the hull so that it does not move.



Put the new outer valve in place and tighten by hand until secure. Use the black Halkey-Roberts valve replacement tool to tighten completely.



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