

CONDITIONS OF SALE AND LIMITATION OF WARRANTIES AND REMEDIES

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- a. *Express warranty:* Roll-Aid expressly warrants this product to be free from defects in material, workmanship and title.
- b. *Disclaimer of implied and other warranties:*
THE FORGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER WRITTEN, ORAL OR IMPLIED (INCLUDING WITHOUT LIMITATION A WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE).
- c. *Limitation of Remedies:* In the event any product is found to be defective in workmanship or material, Roll-Aid agrees to repair or replace such product at its option. If the product is to be repaired, Purchaser will bear responsibility for returning such product to Roll-Aid. If Roll-Aid is unable to effect such repair or replacement within 30 days (which time is agreed to be reasonable), Purchaser will have the additional remedy of returning the defective product to Roll-Aid for a full refund of the purchase price. **THESE REMEDIES ARE EXCLUSIVE, AND PURCHASER AGREES THIS SHALL BE THE LIMIT OF ANY LIABILITY ON THE PART OF ROLL-AID.**
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* * * * **CAUTION** * * * *

The BackUP[®] is designed to make kayaking safer. It is simply a tool, not a guarantee. A BackUP[®] can be used to rapidly create a buoyant support . . . installing it and using it are entirely up to you. Do *not* use the safety margin provided by a BackUP[®] as an excuse to challenge dangerous sea conditions, or to avoid learning a reliable paddle-roll!

ATTENTION

Your BackUP is shipped complete, but un-armed.

Before it is ready to use, you must

1. inspect and arm it, and
2. attach it to your kayak.

See the **Installation** section.

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BackUP™ **OWNER'S MANUAL**

You have purchased an innovation in kayaking safety. The BackUP makes it easier for most kayakers to right their kayak after capsizing, while staying seated in the sealed cockpit, so that they and their craft can remain a seaworthy unit.

It is as easy to rescue yourself with a BackUP as it is to right yourself by grabbing the side of a pool or a dock. The BackUP righting procedure is very similar to the "Eskimo rescue", in which you grab the bow of a rescuer's kayak and then sit up. The BackUP can be used to create an "instant rescuer's bow"!

REQUIREMENTS FOR USING A BackUP

Righting yourself with a BackUP is possible only if:

1. **you do not panic upon capsizing,**
2. **you have enough strength and are able to right yourself by leaning on something,**
and
3. **you remain seated in your kayak after capsizing.**

Those are all things that you should check out in a safe setting with qualified supervision, such as a nice warm swimming pool. See the section on PRACTICE for some suggestions.

Furthermore, using a BackUP implies understanding of the *Caution*, and consent to the *Conditions of Sale and Limitation of Warranties and Remedies* (on page 1).

WHY HAVE A BackUP? Because ...

The dangers and difficulties increase enormously if you are ever forced to exit your kayak after a capsize. You risk separation from your boat and face the difficulty of re-entry, possibly while in very cold water and rough seas. Once back in, you will not be seaworthy again until most of the water is removed from your boat, and your sprayskirt is re-sealed around the cockpit rim.

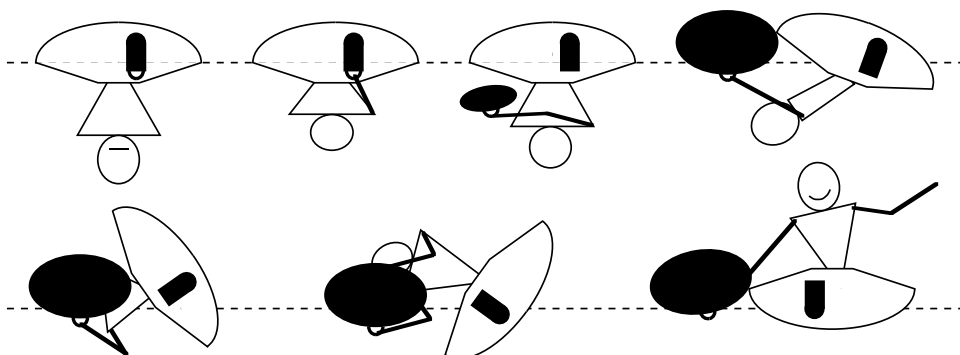
**IT IS VERY IMPORTANT FOR YOUR SAFETY THAT
YOU BE ABLE TO RIGHT YOURSELF AFTER A CAPSIZE
WITHOUT EXITING YOUR BOAT !**

Perhaps you have yet to develop a reliable Eskimo Roll (paddle-roll). Or perhaps you'd like a backup righting procedure just in case you drop your paddle or dislocate a shoulder. In either case the BackUP makes sense as a **valuable safety tool for helping you to avoid the need to exit and then re-enter your kayak after a capsize.**

HOW TO ROLL WITH A BackUP

1. Upon capsizing, grab the BackUP's handle and pull.
The BackUP will slide out of its shell and immediately inflate.
 2. Lean on the hand holding the BackUP, and sit up.
The buoyancy of the BackUP will hold your hand near the surface of the water.
- That's it! A few things to note:
- o **The CO₂ cartridge must be replaced after each use** of the BackUP — the cartridge is entirely empty after one inflation.

- o Be nice to your shoulders. Keep your elbows as close to your body as possible whenever you lean on anything . . . including your Back^{UP}.
- o Those with a **double kayak**, see the section USING THE Back^{UP} WITH A DOUBLE KAYAK.



This diagram shows the technique for having the Back^{UP} surface to the most comfortable side for this right-hander. It works fine surfacing on the other side, too.

TIPS FOR USING A Back^{UP}

1. It's best to have the Back^{UP} rise to the surface on the side of the boat *opposite* the hand which grabbed it. Imagine. If you were *upright* in your kayak holding onto something floating to the right of your boat with your right hand, and then capsized toward it, once upside down it would be on your left. So have your Back^{UP} bob up there, on the left (if you are right-handed. Lefties, do the opposite.) Everything works fine if the Back^{UP} surfaces on the "wrong" side too, but it feels less natural.
2. Here is an easy way to execute Tip #1 when pulling the Back^{UP} from a location ahead of you, for example, from installation position A (see next page). Grab the Back^{UP} handle with your right hand, pull, and immediately move your fist over to your left shoulder! Lefties, do the opposite.
3. Unless you're very big, or your boat is very loaded, the Back^{UP} will provide ample buoyant support for righting even if held against your boat hull. Holding the Back^{UP} even a small distance away from the boat hull will significantly increase the righting "torque" on your boat.
4. You will probably need to use both hands for leaning on the Back^{UP}! Put your second hand on top of the floating Back^{UP} bag. If that means dropping your paddle, drop it at the last moment to make recovery more likely. Dropping it is safer than wet-exiting, and you have a spare anyway, right?
5. Use your rolling skills to minimize the strength required. When you lean on your Back^{UP}, roll your kayak upright first and raise your body and your head up from the water surface last.

INSTALLATION

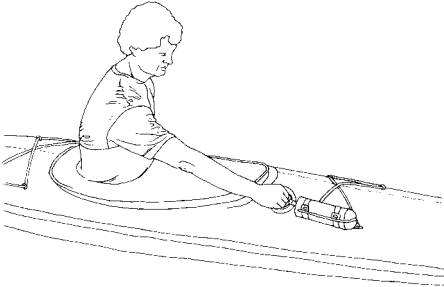
Please consult the drawings under **BackUP ANATOMY** for the names of the components. You may feel more comfortable handling your BackUP if you know how it inflates. See the section **HOW a BackUP INFLATES**.

INSPECTING

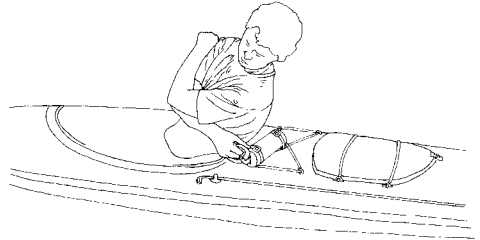
Follow the INSPECTING instructions on page 9 to check out and arm your BackUP.

ATTACHING TO THE KAYAK

The BackUP is inflated by pulling its handle away from its protective outer shell. Installation involves firmly mounting the outer shell so that it stays put when the handle is pulled. The BackUP should be mounted in a location immediately accessible to you *after capsize*. Two recommendations:



location A (ahead)



location B (behind)

A. Ahead of the cockpit

Mounting the BackUP just ahead of the cockpit is a natural position since that is the direction kayakers are trained to reach after failure to paddle-roll, in order to release the sprayskirt before exit. The BackUP can be easily strapped to the bungy cords there. Be sure the installed BackUP does not interfere with normal operations of your craft.

B. Behind the cockpit

Another good location is on the deck of the kayak just behind the cockpit. Be sure that it is not in the way of your elbow when you paddle. Right-handers should have the BackUP handle on the left, to be grabbed by reaching with your right hand around the left side of your body. This way the inflated bag will pop to the surface on the most convenient side of the kayak for righting (see Tip #1). Be sure that you could find the handle easily if you were upside down, underwater, and surprised!

USING THE BackUP WITH A DOUBLE KAYAK

To right a double kayak (with two paddlers aboard) you'll need to have one BackUP for each paddler. To be successful, **the two BackUPs must surface on the same side of the boat!**

Since the second installation location (B) helps determine the side of the kayak to which the BackUP will surface, it is a good place to install BackUPs on a double kayak: install the BackUPs behind the paddlers, with handles facing to the same side of the kayak.

If you decide to install the BackUPs in other locations, just work out a method that will get both of them to the same side of the kayak for the first couple of seconds after the BackUPs are pulled from their shells. See TIP #2, on page 4, and take into account whether or not both paddlers are right-handed.

PRACTICE!

It's a good idea to practice *any* safety procedure so that you have less to think about when an emergency arises. Following below are some different levels of practice for self-rescue with a BackUP. It is strongly recommended by Roll-Aid that all BackUP users practice up to at least Level 3!

NOVICE PADDLERS should note that an unexpected capsizes is *completely different* from a practice session! The cold water temperatures, the weight of a kayak loaded for a trip, and the surprise factor all make a real-life capsizes more difficult to deal with. So practice as much as possible, and LEARN TO ESKIMO ROLL. The BackUP can be of assistance to a paddler still learning to roll, and to an expert who drops a paddle or has some other unexpected problem, but **a BackUP is no substitute for a reliable paddle-roll.**

Level 1

Be sure you won't panic in a capsizes. If you panic you won't be able to do *anything* methodical, even something as simple as using a BackUP, or safely exiting your boat! In a safe place, and with qualified supervision, practice capsizing — at first without a sprayskirt. Calmly knock on the bottom of your boat 3 times before exiting. When that's easy, try it with your sprayskirt attached to the rim of the cockpit. Calmly knock 3 times before detaching your sprayskirt and exiting. If you have enough "cool" to do this, then you'll be controlled enough to pull the BackUP handle instead, if you choose.

Now, with supervision, grab the side of the pool, or the dock, and carefully (to avoid hitting your head!) capsizes toward it. Are you strong enough to right yourself? Good! Now capsizes again, let go of the dock, re-grab it and right yourself. The BackUP can provide an "instant dock". And **using a BackUP is actually easier** than this kind of practice, because the BackUP is always in the easy-to-grab place where you installed it, and it brings your hand to the surface as it inflates! You don't have to reach way up to the surface, as you must to grab a dock or a poolside.

Level 2

While seated in your upright kayak, with BackUP installed, close your eyes and practice reaching for the handle of the BackUP. *Don't* pull it out of its shell, or it will inflate and you will need another CO₂ cartridge. Be sure you could find the handle if you were upside down in the water.

Level 3

With care, the BackUP can be *orally* inflated for practice in righting using its buoyant support (saving a CO₂ cartridge) . . . so you trust that it floats *really* well! step Follow these steps:

- a. Turn your BackUP over, and **CAREFULLY** pull the handle and slide the bag *almost* all of the way out of its shell.
- b. Unfold the BackUP bag to the sides to reveal the shrouded cartridge, and then open the cartridge shroud by peeling apart the VelcroTM strip.
- c. Completely unscrew the CO₂ cartridge from the gray inflator.

- d. Pull the **BackUP** free of its shell. The trigger arm will fall away from the gray inflator.
- e. Put the neck of the CO₂ cartridge through the D-ring and screw the cartridge back into the inflator. This is necessary because the cartridge and its shroud anchor the **BackUP**'s handle.
- f. Close the cartridge shroud.
- g. Push in on the mouthpiece of the oral inflation valve to open it for inflation. It's easiest to bite the mouthpiece to push it in. Blow up the bag.

Now, holding the inflated **BackUP** by its handle, capsizes toward it and allow yourself to get completely upside down before leaning on the **BackUP** to right yourself. Do it a few times to become confident! Note where the **BackUP** is when you are completely upside down. That is where you want it to surface when you have it self-inflate!

- h. After practice, rinse the **BackUP** in fresh water, and then hang to dry. Once it has dried, unscrew the CO₂ cartridge, and deflate the **BackUP** by pushing in on the oral inflation valve and squeezing the **BackUP**. *DO NOT* try to suck out the CO₂!
- i. Follow the **REPLACING THE CO2 CARTRIDGE** instructions under **BackUP MAINTENANCE** to compactly re-fold the bag so it can fit in the shell, and to re-arm the **BackUP** for active safety service.

Level 4

Go for the real thing! Check the cost of a replacement cartridge and compare it with the value of experiencing a full simulation. If it's worth the cost to you, go for it. Instructions for refolding the **BackUP** and replacing the cartridge are in the **BackUP MAINTENANCE** section.

AFTER USING THE BackUP

UP AGAIN BUT STILL IN THE STORM

So, your **BackUP** has just saved you from one wet exit (and the ensuing risks) and you may need it again. Immediately after using the **BackUP** you'll be in the same situation that caused you to capsize in the first place. **GET SAFE!** Call for help and/or get out of the dangerous conditions.

In the meantime, your **BackUP** cannot be as compactly and conveniently stowed once it has been inflated. There are two options:

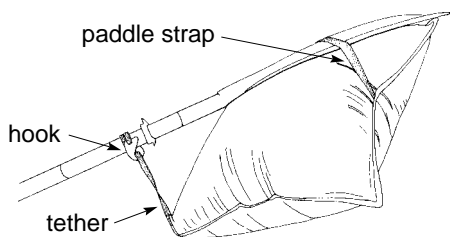
1. Keep the **BackUP** in your hand. It is possible to grasp your paddle shaft while still holding the **BackUP** by its D-shaped handle. This is handy (groan, a pun) if you need it again for righting, but could be awkward because of the **BackUP**'s size, especially in a strong wind.
2. The alternative is to quickly tether the **BackUP** to your kayak, thus freeing your hands. The **BackUP**'s tether and hook can be quickly snapped onto a kayak's deck rigging behind you. If you capsize again and need it for righting, you must feel around for the tether. The **BackUP**'s hook will release from the deck rigging with a twist. This will be more awkward than simply yanking the **BackUP** from its shell by its handle, but is preferable to the troubles that follow a wet exit.

SAFE AGAIN

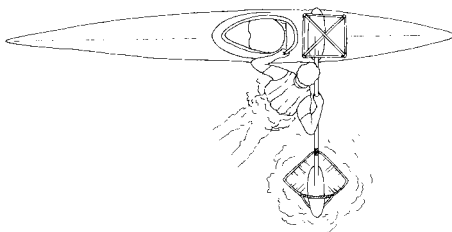
When you are safe again, deflate the BackUP by pushing in on the deflation valve and squeezing. *DO NOT* try to suck out the CO₂! Before unscrewing the used cartridge, rinse the whole thing in fresh water and hang to dry. The reason for leaving the cartridge in is to prevent any water from entering the bag or the inflator. Water in the inflator will freeze during inflation, and can slow inflation. Then follow the instructions under **BackUP MAINTENANCE** for replacing the CO₂ cartridge and re-folding the BackUP bag.

USING THE BackUP AS A PADDLE-FLOAT

Although the BackUP is primarily a *righting aid*, it can also function as a *re-entry aid* if the circumstances of a capsized cause you to fall out of your boat. The BackUP is easily attached to the end of a paddle to make an outrigger which can stabilize your kayak for re-entry. Here is how to use the BackUP in the outrigger self-rescue (popularized by Matt and Cam Broze of Seattle):



attached to a paddle



used as an outrigger

1. right the kayak, and get downwind of it (so the kayak will blow toward you rather than away from you!)
2. secure one paddle blade under the deck rigging behind the cockpit. Some well-designed kayaks have deck rigging specially suited to this purpose.
3. attach the BackUP to the other end of the paddle:
 - a. pull the BackUP from its shell to automatically inflate it
 - b. slide your paddle under the paddle strap (on the back of the BackUP cushion) until the strap is *half way* up the blade of the paddle.
 - c. wrap the tether two times around the paddle shaft and hook onto the base of the tether, where it meets the bag.
4. wriggle onto your kayak, face down, head toward the rear, keeping most of your weight on your boat (not your floating paddle), and being sure not to tip your boat *away* from the BackUP (it's unstable in that direction).
5. put one leg into the cockpit, then the other, and then carefully turn face up and sit in the seat.
6. reattach your sprayskirt
7. pump out your boat
8. retrieve your paddle
9. unhook the BackUP from your paddle and then hook it to the deck rigging behind you or keep it in your hand in case you need it again
10. get into a safer situation!!

NOTE: This and any other re-entry procedure is tricky, especially in rough and/or cold water. Do your best to stay in your boat after a capsizing by either performing an Eskimo roll, or righting yourself with the BackUP.

BackUP MAINTENANCE

GENERAL

Never heat the CO₂ cartridge! The contents are at high pressure, and the pressure rises along with the temperature of the cartridge.

All components of the BackUP are made of the highest quality of materials. But no plastic likes sunlight, wet fabrics eventually rot, and salt buildup can physically jam moving parts. So,

1. When not in use, store the BackUP's shell and bag out of direct sunlight.
2. Do not store the bag wet for long periods of time.
3. After use in salt water, rinse the BackUP in fresh water, and hang to dry.

For compactness, the BackUP has no overpressure valve. The bag has a burst pressure of about 25 psi, but why strain it? As the CO₂ inside the bag warms to air temperature (it comes out of the cartridge *very* cold) it expands. If you notice your BackUP becoming rock-hard, give it a break by relieving some pressure through the deflation valve. Once fully inflated, the buoyancy of the bag does *not* increase as the internal pressure rises.

INSPECTING

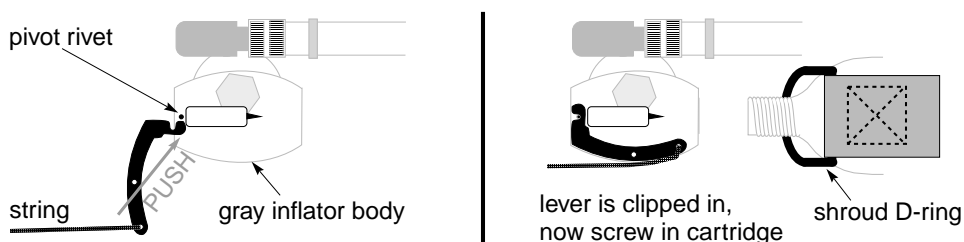
1. Turn your BackUP over so that the writing on the end of the shell is upside down.
2. Grab the body of the BackUP (the *shell*) in one hand and carefully pry off the lid. Slowly pull the handle to slide the "guts" of the BackUP almost all the way out of the shell.
3. Unfold the BackUP bag to the sides to reveal the shrouded cartridge and the deflation tube.
4. Open the cartridge shroud. (It is closed with a VelcroTM strip.)
5. Unscrew the CO₂ cartridge. Look at the smaller, threaded end of the cartridge. If it has a tiny hole in the end seal, the cartridge has been discharged, and you need a replacement.
6. Pull the bag free of the shell. This action should easily pop the inflation lever out of the body of the inflator. (If the BackUP was not armed, then the lever would *already* have been detached from the body of the inflator.) If the lever pops out easily, go to step 4 in REPLACING THE CO₂ CARTRIDGE (next section). If the inflator lever is jammed, contact Roll-Aid Safety Inc. for advice. Since the inflator parts are all stainless steel, the problem is probably salt buildup from lack of maintenance.

REPLACING THE CO₂ CARTRIDGE

If you have just used your BackUP, leave the used cartridge screwed in while you rinse the whole BackUP in fresh water and hang it up to dry. Once it has dried, unscrew the CO₂ cartridge, and deflate the BackUP by pushing in on the oral inflation valve and squeezing the bag. *DO NOT* try to suck out the CO₂!

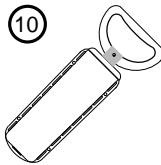
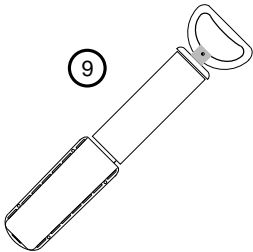
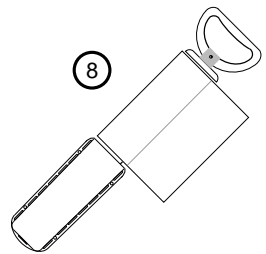
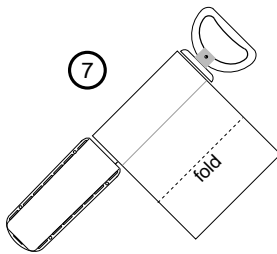
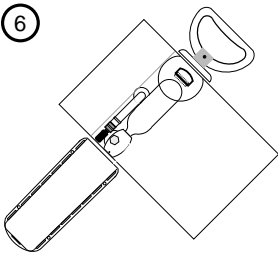
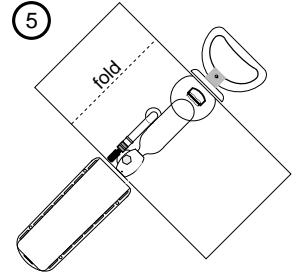
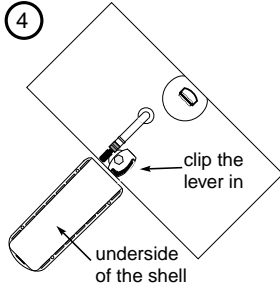
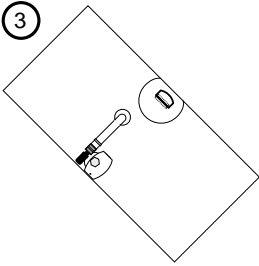
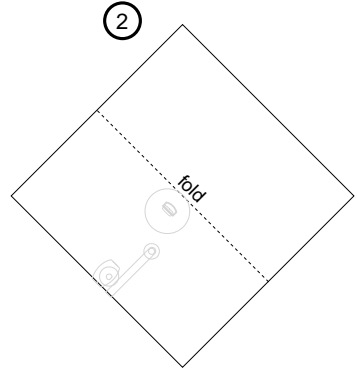
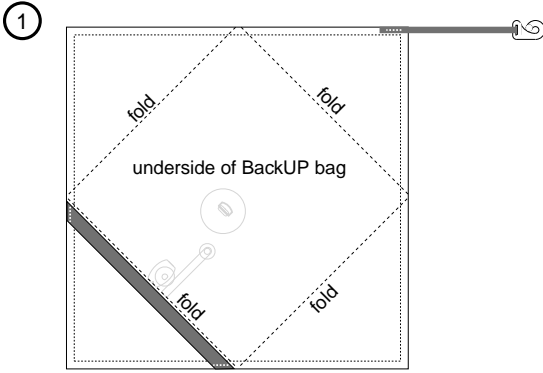
Please note that the steps below match the diagrams on the opposite page.

1. Lie the BackUP bag upside down on a flat, clean surface. Fold in the four corners so they meet in the centre of the bag. Tuck the hook under the corner folded over the inflation tube.
2. Now fold the resulting square in half, and
3. turn everything over so that the bag attachments are on top. Squeeze gas out of the bag whenever possible by squeezing the bag and pushing in on the oral inflation valve.
4. Put the end of the inflator lever into the slot in the side of the gray inflator body, up against the pivot rivet (as shown). Now clip in the lever by pushing in the direction indicated by the gray arrow. It will "click" into position. The lever is in proper position if it fits perfectly into the slot in the gray inflator body. It should not protrude from either the side or the end of the inflator body.



5. While holding the lever against the side of the inflator body, put the neck of the CO₂ cartridge **through the shroud D-ring** and screw the cartridge hand tight into the inflator. It is **VERY IMPORTANT** that the neck of the cartridge go through the shroud D-ring, because the shroud D-ring anchors the BackUP handle! Close the shroud by sealing the VelcroTM strip.
6. Fold one end of the bag in to lie beside the deflation tube, and then wrap that side of the bag tightly over the cartridge.
7. Now do the same with the other side of the bag: fold the outer edge in to lie beside the cartridge, and
8. then tightly wrap it over the cartridge.
9. Now stuff the works half way into the shell. Fit the lid around the bag, and then push on the lid until it clips into the shell.
10. For good measure, hold the BackUP in one hand and smack the closed end of the shell into the palm of your other hand, to settle everything in.

You're done! That hassle is the price of compactness!



COMMONLY ASKED QUESTIONS

Q. *Does the (un-inflated) BackUP float?*

A. Yes! Very well. It even floats with the handle slightly upward, so it's easy to grab if you drop it off the dock.

Q. *How quickly can it be deflated?*

A. About 90 seconds. If you can't afford this time, clip the BackUP cushion to your deck rigging (using its hook) and wait until you do have the time. When we find a reliable and compact dump valve with a higher flow rate, we'll use it!

Q. *Why is the BackUP not shipped armed and ready-to-go?*

A. People browsing in stores are naturally curious, and often handle products. If a BackUP were ever accidentally inflated, and then repacked, it would be very dangerous for a buyer who expected it to work the first time they really needed it. By forcing an inspection before installation, we avoid this worst-case scenario.

Q. *When I pull the BackUP out of its shell, is it still attached to the boat somehow?*

A. No. When you grab the BackUP it comes totally free in your hand.

Q. *What if I let go?*

A. Unfortunately, if you let go of your BackUP after you've pulled it from its shell . . . it floats away! If you let go of your perfectly good righting tool, it's back to the procedures you would follow without your BackUP tool. BE SURE that you can self-rescue in several different ways! You are risking your life if you do not know several ways to rescue yourself after a capsized. Do not trust your life to *any* single piece of equipment.

Q. *Why not put a tether on the BackUP handle?*

A. **Do NOT rig a tether to your BackUP.** A tether long enough to let you use the BackUP for righting would be long enough to entangle you. Besides, it's unlikely that you'll let go of something that floats so well!

Q. *What is the purpose of that awkward cartridge shroud?*

A. The shroud (cover) over the CO₂ cartridge is there to protect your hand from the extreme cold of the cartridge for the first few seconds after inflation.

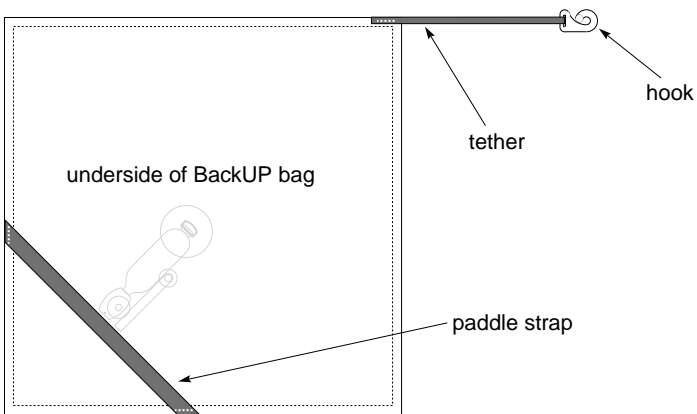
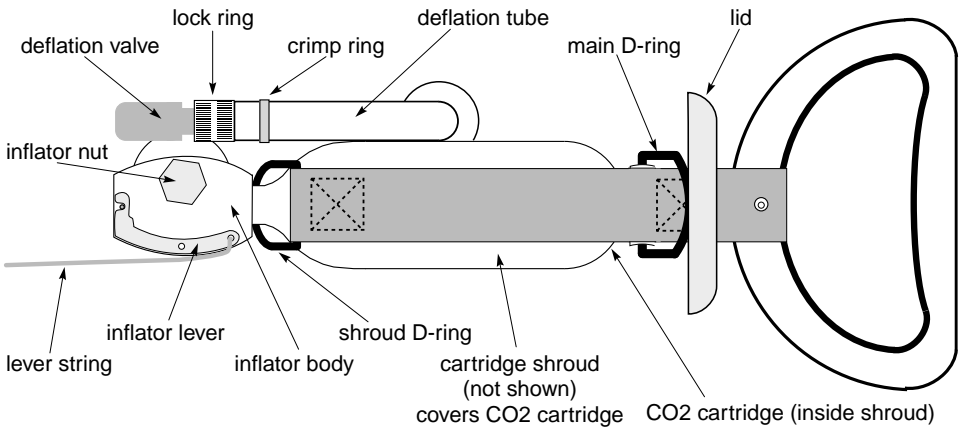
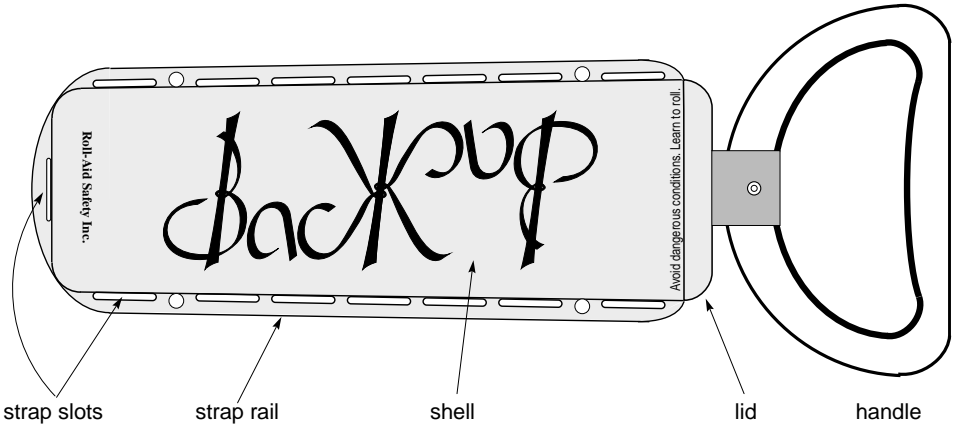
Q. *When I test-fired my BackUP out of the water it inflated soft, and took many seconds to reach full volume. Is that normal?*

A. Yes. The BackUP inflates better in the water because the expanding CO₂ gas can draw heat from water (even cold water) better than it can from air. The BackUP was designed for inflation while in water. Note also that the BackUP has more volume than necessary, so you can right yourself even in the few seconds before it reaches full volume!

Q. *Why do you say not to suck out the CO₂?*

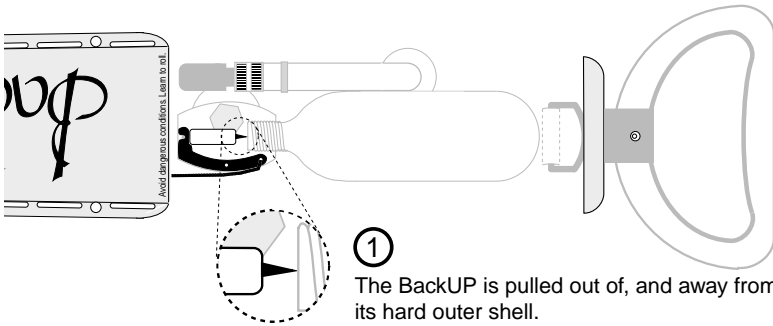
A. Because it tastes *incredibly* bad! Have you ever had CO₂ go up your nose while drinking a softdrink out of a glass? Sucking some CO₂ into your mouth from the BackUP or a lifevest is many many times worse. For those of you without the softdrink experience . . . just don't do it!

ANATOMY OF A BackUP

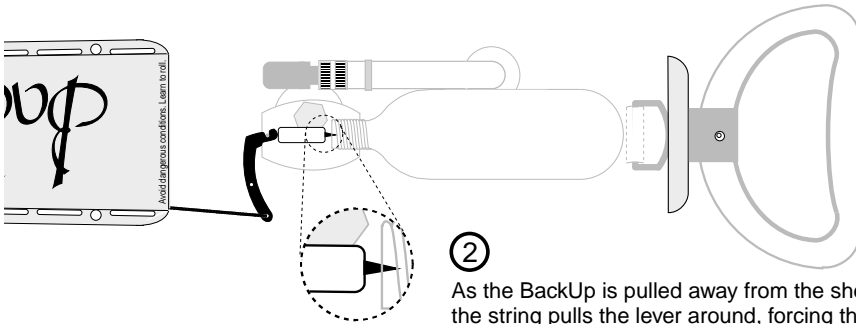


HOW A BackUP INFLATES

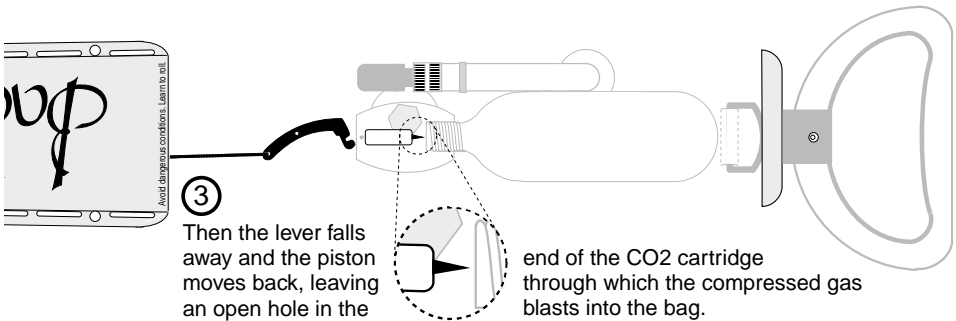
The heart of a BackUP is its simple inflation mechanism. Understanding this will make you more at ease with installing, handling and maintaining your BackUP.



① The BackUP is pulled out of, and away from its hard outer shell.
The string on the end of the lever is tied to the inside of the BackUP shell.
Nothing happens until the string is pulled taut.



② As the BackUP is pulled away from the shell, the string pulls the lever around, forcing the point on the end of the piston through the seal on the end of the CO2 cartridge.



③ Then the lever falls away and the piston moves back, leaving an open hole in the end of the CO2 cartridge through which the compressed gas blasts into the bag.

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and the page number written on it.

Statement of Quality

Roll-Aid Safety Inc. uses only the very best materials for the construction of each BackUP. Here are the standards met by the principal components of the BackUP system:

the shell

- **ultra-tough polycarbonate with ultraviolet stabilizer**

bag fabric

- **210 Denier nylon Oxford cloth coated with heat sealable urethane**
- Meets FAA specs for life vests — same material as used in commercial and military life vests. Military Specification MIL-C-83489 Type 1.

inflator

- **1/2" stainless steel inflator, standard manifold with nut**
- performance requirements for inflation hardware as specified by the Air Transportation of America specification number 801, and the Federal Aviation Agency specifications: TSO-C-13D, TSO-C-13E

deflation valve

- **oral tube valve with brass crimp ring**
- manufactured in accordance with MIL-0-81375B

CO₂ cylinder

- **68 grams of CO₂, 1/2" thread, 95ml volume, filling density 80%, minimum burst pressure 6400psi**

Every BackUP is manufactured in Canada to exacting quality standards, and individually inspected.

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