

# CREWFIT 40 PRO

Inflatable Personal Flotation Device (PFD)



Crewsaver

## Owners Manual

**9503BKM Manual Inflation**  
USCG Approved Type III PFD

**9503BKA Automatic Inflation**  
USCG Approved Type II PFD

**9504BKM Manual Inflation Harness**  
USCG Approved Type V with Type III Performance

**9504BKA Automatic Inflation Harness**  
USCG Approved Type V with Type II Performance

**IMPORTANT: PLEASE READ THIS MANUAL BEFORE  
USING YOUR CREWFIT LIFEJACKET**

**DO NOT REMOVE THIS PAMPHLET PRIOR TO SALE**

# CREWFIT 40 PRO

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## APPROVAL CONDITIONS AND CARRIAGE REQUIREMENTS

**Recreational:** This inflatable personal floatation Device (PFD) is approved by the U.S. Coast Guard for use as follows:

<b>Crewfit 40 Pro Manual</b>	Type III Personal Floatation Device (PFD)
<b>Crewfit 40 Pro Automatic</b>	Type II Personal Floatation Device (PFD)
<b>Crewfit 40 Pro Manual Harness</b>	Type V Personal Floatation Device (PFD) with Type III performance
<b>Crewfit 40 Pro Automatic Harness</b>	Type V Personal Floatation Device (PFD) with Type II performance.

## ABOUT YOUR PFD

The Crewfit 40 Pro Manual Harness and the Crewfit 40 Pro Automatic Harness are approved by the U.S. Coast Guard for use as a Type V Personal Floatation Device (PFD) with Type III and Type II performance respectively because the harness with them can cause injury if not properly used. This inflatable PFD is approved by the U.S. Coast Guard for use as a Type III (Manual inflation) and Type II (Automatic Inflation) Personal Floatation Device (PFD). It is not approved for water skiing or other high impact, high speed activities. This inflatable PFD was designed to be more comfortable and less restrictive to wear than inherently buoyant PFD's. When worn, used and serviced according to the owners manual, this PFD can greatly increase your chances of survival in the water. Not recommended for non-swimmers or weak swimmers. Users of inflatable PFD's must be at least 16 years old.

## MANDATORY CARRIAGE REQUIREMENTS

Federal regulations in 33 CFR 175-1993 require you to carry Coast Guard approved personal flotation devices (PFD's) legibly marked with the Coast Guard approval number which are in good and serviceable condition and are the correct size for each person on board. To be considered serviceable, this PFD shall not exhibit deterioration that could diminish its performance such as broken or deformed hardware, detached webbing, rotted structural components, air leaks, or non-functional oral inflation tube. Unless worn, this PFD must also be properly armed with a full CO<sub>2</sub> cylinder, inflation system status indicator, and an accessible manual inflation lanyard. A PFD which is "approved only when worn" or "required to be worn" must be worn under the specified conditions.

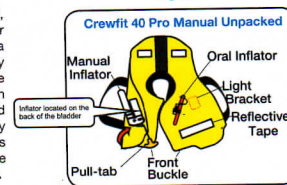
## INSTRUCTIONS FOR USE

This manual supplies instructional, maintenance and safety information for both models (Crewfit Pro Harness and Crewfit Pro). The model number is listed on the underside label.

## WHAT IS AN INFLATABLE PFD?

While traditional PFDs are inherently buoyant, inflatable PFDs, rely entirely on inflation for buoyancy. Uninflated, the inflatable PFD is a comfortable slim collar that can be inflated at any time with a 38g CO<sub>2</sub> gas cylinder. The inflatable PFD is designed to offer maximum mobility with minimum bulk. The inflatable PFD can be inflated either automatically by water immersion, manually by jerking a pull-tab, or orally by mouth. It is recommended that you familiarize yourself with the procedures outlined in **INSTRUCTIONS FOR USE**.

Figure 1



## READINESS CHECKLIST

Check your inflatable PFD and ensure all of the checkpoints listed below are true before use.

- Single point status indicator is green (Fig. 2a or 2b)
- All zippers, Velcro and waist buckle are securely fastened
- Oral-inflation dust cap is in the stowed position (Fig. 7) Pg 6

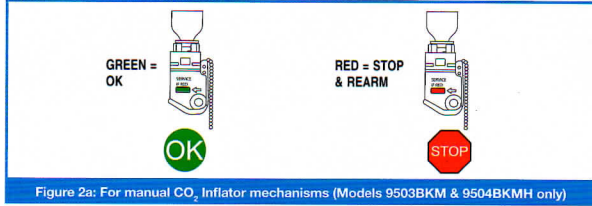


Figure 2a: For manual CO<sub>2</sub> Inflation mechanisms (Models 9503BKM & 9504BKM only)

- Inflatable PFD is not twisted
- Ensure the inflation pull-tab is hanging on the outside (Fig. 8) Pg 6
- No rips, tears, excessive abrasion or holes; all seams are securely sewn; and the cover, straps and hardware are still strong

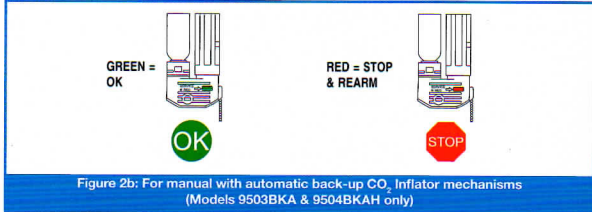


Figure 2b: For manual with automatic back-up CO<sub>2</sub> Inflation mechanisms (Models 9503BKA & 9504BKAH only)

Your inflatable PFD is ready for use if all applicable boxes are checked.

**NOTE:** Contact your Crewsaver Dealer if you have any concerns about the readiness of your inflatable PFD

**SIZING AND FIT:** This PFD provides a minimum of 40 lbs of buoyancy when inflated and is designed for wearers over 16 years of age, with a chest range of 30-52 inches (76-132cm) weighing over 80 pounds (36 kg).

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## DONNING INSTRUCTIONS

It is important that the inflatable PFD is properly adjusted to fit the person wearing it. An incorrect fit or improper fastening of attachments could impede its effectiveness.

- 1 All belts and straps are already threaded correctly and only need to be adjusted for fit. For the Crewfit Pro, the belt should fit below your rib cage adjusted to a tight personal fit. For the harness model Crewfit Pro Harness, the bottom of the belt must always be worn at least 2 inches (5cm) above the lowest rib and adjusted to a tight personal fit.
- 2 Put the inflatable PFD on just like a jacket (Fig. 3) and fasten the front buckle. Adjust the waist belt using the side buckle on the belt and secure the belt's loose end in the belt loop.

**WARNING:** Do not wear inflatable PFD's under clothing as the inflation could be restricted or you could be injured.

Figure 3



## INFLATING YOUR INFLATABLE PFD

It is recommended that the following procedures be followed to inflate your inflatable PFD:

- 1 **Manual Inflation:** Activate the inflation system by jerking firmly downward on the pull tab (Fig. 4). The inflatable PFD should fully inflate within 5 seconds.
- 2 **Automatic Backup Inflation:** The Halkey Roberts Automatic system activates when a bobbin gets in contact with water. When the bobbin is in contact with water, it dissolves, allowing a spring to be released which pushes a plunger forward, in turn forcing a cutter into the CO<sub>2</sub> cylinder. The cutter allows the CO<sub>2</sub> to travel through the CO<sub>2</sub> gas hole in the inflator head and inflate the lifejacket. Total buoyancy is normally reached within 4-5 seconds. The Automatic system is backed up by a manual override, which allows the user to pull the toggle and inflate the lifejacket. In addition to the lifejacket features all lifejackets also have an oral inflation tube.

**INFORMATION:** When inflated, the carbon dioxide (CO<sub>2</sub> gas) used to inflate the PFD will slowly escape through the fabric over time. A slight reduction of pressure will be observed after several hours of inflation. Topping up by oral inflation may be required in the event of very prolonged immersion.

**IMPORTANT:** See Pg 6 Special Considerations for inflatable Devices.

Figure 4

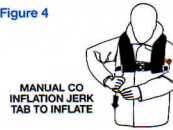


Figure 5



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## ORAL INFLATION

Properly armed and inspected inflatable PFD's will inflate when manually or automatically activated. However, you can fully inflate the inflatable PFD by mouth (Fig. 5) Pg 5 should inflation not occur, or if you are in a non-emergency situation

- 1 To orally inflate the inflatable PFD, first ensure that the quick burst zip is completely opened. To open the cover, pull the open here tabs on the front of the jacket so the zip breaks open. Run your fingers around the zip to release all the zip teeth.

**NOTE:** Oral inflation may cause the inflatable PFD to breakout suddenly (loudly) if any of the zippers are closed.

- 2 Locate the red oral inflation tube on the wearers left side of the bladder. Remove the dust cap from the end of the oral tube and blow into the tube until the inflatable PFD is fully inflated.

**WARNING: Avoid double inflation (CO<sub>2</sub> cylinder inflation after full oral inflation) as it could damage the PFD.**

## SPECIAL CONSIDERATIONS FOR INFLATABLE DEVICES

The inflatable PFD might not be armed when needed, either knowingly or unknowingly. Inadvertent inflation causes several risks that you must address to avoid drowning.

**Much less common but also important are:**

- 1 Double inflation (CO<sub>2</sub> cylinder inflation after full oral inflation) could damage the inflatable PFD.
- 2 Inflation when stored in a tight space could damage the inflatable PFD.
- 3 The inflatable PFD could inflate when you are in an awkward place or position. If this inflatable PFD should inflate inadvertently, a replacement rearming kit is required to rearm the device.

**IMPORTANT: The inflatable PFD should be rearmed according to the instructions - see Rearming Your PFD, Pg 9-14.**

## DEFLATING THE INFLATABLE PFD

- 1 To deflate the inflatable PFD, reverse the oral-inflation tube dust cap and insert it into the valve. The dust cap will not lock in the deflate position so it is necessary to hold it in place (Fig. 8).
- 2 Gently squeeze the inflatable PFD until all air or gas has been expelled. To avoid damage; do not wring or twist the inflatable PFD. Put the inflation tube dust cap back in its stowed position on the oral inflation tube (Fig. 7).

**IMPORTANT: Ensure all air has been removed from the PFD before rearming and repacking.**

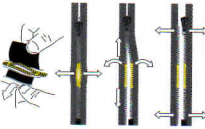


Figure 6

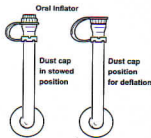


Figure 7



Figure 8

- 3 Examine the single point status indicator (Fig. 2a and 2b) Pg 4. If the indicator is red, the mechanism has been fired and the inflator requires service - see Rearming Your PFD, Pg 9-14.

**IMPORTANT: The single point status indicator must be green before proceeding.**

- 4 Your device is ready to be re-packed - see re-packing Pg 16-17.

## USAGE BELOW FREEZING

When the temperature is below freezing, the inflatable PFD should be worn partially inflated because a fully discharged cylinder may not quickly or adequately inflate your inflatable PFD. Under these conditions use the oral inflator to adequately top-up the PFD, after CO<sub>2</sub> inflation.



**WARNING: CO<sub>2</sub> inflation could over-pressurize and damage your inflatable PFD if already fully inflated.**



## COMPONENT INSPECTION INSTRUCTIONS

- 1 Examine the single point status indicator through the window panel (Fig. 2a and 2b) Pg 4. Ensure the indicator is green. If the indicator is red, the mechanism has been fired or is incorrectly fitted - see Rearming Your PFD, Pg 9-14.

**NOTE: The single point status indicator must be green before proceeding.**

- 2 Undo the zipper on the wearer's left side, exposing the oral inflator.
- 3 Ensure the oral-inflation dust cap is in the stowed position (Fig. 7) Pg 6.
- 4 Ensure the single point status indicator is green and the pull-tab lanyard is hanging on the outside; secure the zippers on the inflatable PFD - see re-packing, Pg 16-17.

## IS YOUR PFD IN GOOD AND SERVICEABLE CONDITION?

Check your PFD between outings to be sure that it is properly armed; that it is free of rips, tears or holes; that all seams are securely sewn; and that the fabric, straps and hardware are still strong - see Readiness Checklist, Pg 2). Inspect the inflatable portion of the inflatable PFD in accordance with the **CARE AND MAINTENANCE INSTRUCTIONS.**

## CARE AND MAINTENANCE INSTRUCTIONS

Federal Regulations require Coast Guard approved personal flotation devices (PFDs) that are legibly marked with the Coast Guard approval number, are in good and serviceable condition, and are the correct size for each person on board. It is the responsibility of the operator to be sure this PFD is in serviceable condition. To be considered serviceable, this PFD shall not exhibit deterioration that could diminish its performance, such as broken or deformed hardware, detached webbing, rotted structural components, air leaks or non-functional inflators.

Unless worn inflated, this PFD must also be properly armed with a cylinder installed in the inflator, and single point status indicator showing green - see (Fig 1a and 1b) Pg 2 for instructions. Failure to follow these instructions rigorously could result in a non-functioning PFD causing injury or death.

Check the following at the intervals listed below.

### 1 BEFORE EACH USE

- i Examine the single point status indicator through the window panel, ensuring it is green. If the indicator is red, the mechanism requires service - see Rearming Your PFD, Pg 7-12.
- ii Ensure the manual pull-tab is accessible.
- iii Visually examine your inflatable PFD for damage or excessive abrasion, wear, tear or contamination. Particular attention must be paid to the stitching, straps and hardware. If in doubt, send it to your Crewsaver dealer for evaluation and/or servicing. Details can be found on our website [www.crewsaver.com](http://www.crewsaver.com).

### 2 EVERY TWO (2) MONTHS

- i **Leak Test:** The inflatable PFD should be tested for general leakage by orally inflating your inflatable PFD until firm and let stand 16 hours. A leaking inflatable PFD will not hold its firmness and should be replaced. If your inflatable PFD leaks, take it to your Crewsaver dealer for evaluation and/or servicing. Re-pack the inflatable PFD as outlined in the re-packing section, Pg 14-15.
- ii **Oral Inflation Valve Test:** To check the oral inflation valve, fully inflate the inflatable PFD using the oral inflator and hold valve under water. If bubbles appear, deflate and re-inflate to test again. Should the leak persist, take your inflatable PFD to your Crewsaver dealer for evaluation and/or servicing.

**CAUTION: To avoid accidental inflation, don't allow the water to contact the automatic inflator.**

- iii Perform a thorough visual examination. See Readiness Checklist (Pg 2). Perform these tests more often if exposed to potential damage or used in extreme conditions.

### 3 AFTER EACH INFLATION

Rearm the inflatable PFD - see Rearming Your PFD, Pg 7-12.

### 4 ANNUALLY

Perform the following at the beginning of each boating season, after inflation, or whenever the integrity of the inflatable PFD is in doubt:

- i Check all components for dirt or corrosion. Clean or replace, as necessary - see Readiness Checklist Pg 2.
- ii Visually examine your inflatable PFD for damage or excessive abrasion, wear and tear or contamination. Particular attention must be paid to the stitching, straps and hardware. If in doubt, send it to your Crewsaver dealer for evaluation and/or servicing.
- iii Perform the Oral Inflation Valve Test: See the Oral Inflation Valve Test in the Every Two (2) Months Care and Maintenance Instructions section.

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iv Perform the Leak Test. See the Leak Test in the Every Two (2) Months Care and Maintenance Instructions section.

v Ensure the bobbin has not passed its use by date - see Rearming Your PFD, Pg 7-12.

vi Ensure the single point status indicator is green (Fig. 2a and 2b) Pg 4.

vii Record as an "Annual" inspection in permanent ink on the care and storage label, in the Date Maintained column.

Re-pack the inflatable PFD as outlined in the re-packing section, Pg 16-17.



**WARNING:** If you are not confident in the self-inspection and servicing of your inflatable PFD in accordance with these instructions, take your inflatable PFD to a Crewsaver approved service station.

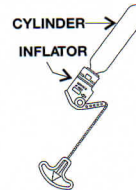


## REARMING THE MANUAL 3F INFLATOR MODELS 9503BKM and 9504BKM

**PARTS REQUIRED:** one (11001) Crewsaver rearming kit. This contains a replacement 38g cylinder and bayonet assembly and a new bobbin.

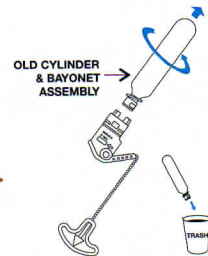
### Step 1:

Locate the 3F inflator.



### Step 2:

Remove the old cylinder & bayonet assembly. Discard the old assembly.



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**Step 3:**

Check the new cylinder & bayonet assembly to be sure the sensor ring is not broken, the o-ring is in place, and the cylinder has not been pierced. Do not install assembly if not in proper condition - see (Fig. 7 ) Pg 13.

**Step 4:**

Push and hold the manual lever in place against the inflator.

**Step 5:** Install a new 38g cylinder & Bayonet assembly by (a) engaging the tabs on the bayonet into the housing, pushing in firmly, then (B) turning clockwise 1/8 turn to a full stop.

Check the bayonet viewport. One of the black bayonet tabs will be entirely visible through the viewport. If a red or white indicator is displayed or the tab is not fully visible, the cylinder & bayonet assembly is not completely installed and needs to be turned clockwise further to a full stop.

**WARNING: PFD WILL ONLY INFLATE IF THE CYLINDER & BAYONET ASSEMBLY IS TURNED TO A FULL STOP.**

**Step 6:**

Check to be sure the service indicator is GREEN.

**Step 7:**

When packing the jacket make sure that the GREEN service indicator is visible through the clear window.

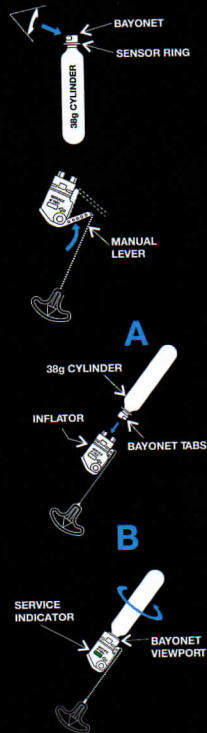
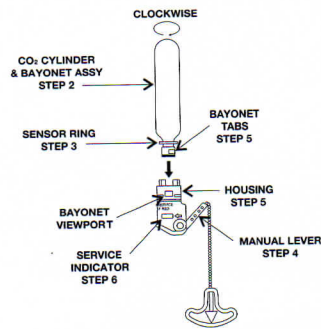


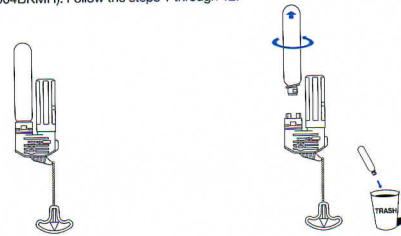
Figure 9



**REARMING YOUR MANUAL PFD (HALKEY ROBERTS 1F)**

**PARTS REQUIRED:** One (11001) Crewsaver rearming kit. This contains a replacement 38g cylinder and bayonet assembly and a new bobbin.

Rearming Your PFD (Halkey Roberts 1F), Rearming the manual with automatic back-up inflator: (models 9503BKM & 9504BKMH). Follow the steps 1 through 12.



**Step 1:** Locate the 1F inflator

**Step 2:** Remove the old cylinder & bayonet assembly by rotating the cylinder counter-clockwise then pull out. Discard the old assembly.

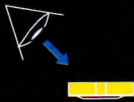


**Step 3:**  
Remove cap by turning counter-clockwise.

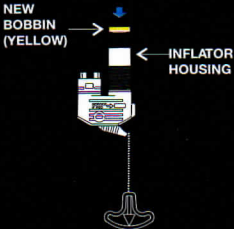


**Step 4:**  
Remove the old bobbin from the cap or inflator housing. Discard old bobbin (yellow). Check housing to ensure it is clear and dry. Rinse with fresh water if necessary to remove dirt and salt. Allow to air dry thoroughly before continuing rearming procedure.

**NOTE:** The old bobbin (yellow) may remain in the housing or in the cap assembly when you remove the cap. The old bobbin must be removed prior to installing a new bobbin.

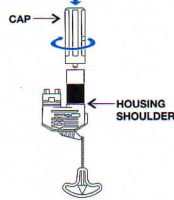


**Step 5:**  
Check the new bobbin. The new bobbin installed must have been purchased within three years. If purchase date is unknown, check date of manufacture marked on bobbin. Replace if the bobbin is over three years old.

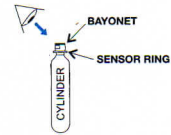


**Step 6:**  
Install the new bobbin (yellow) into the inflator housing with white side facing up. Align the slots on the bobbin with ridges inside the housing. The bobbin will slide in easily if installed correctly.

**NOTE: REARMING MUST FOLLOW THE SEQUENCE ON THE NEXT TWO PAGES.**



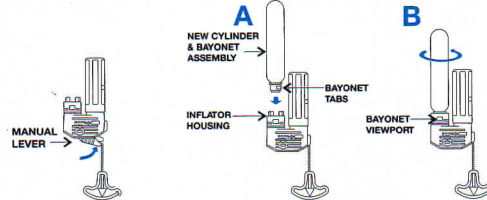
**Step 7:**  
Install cap by screwing clockwise until it meets the housing shoulder. There should be no gap between the cap and the housing shoulder.



**Step 8:**  
Check the new cylinder & bayonet assembly to be sure the sensor ring is not broken, the O-ring is in place, and the cylinder has not been pierced. Do not install assembly if not in proper condition - see CO<sub>2</sub> Cylinder Inspection Chart, Pg15.

**IMPORTANT:** Install bobbin and cap before installing cylinder & bayonet assembly to prevent damaging sensor ring and/or piercing the CO<sub>2</sub> cylinder.

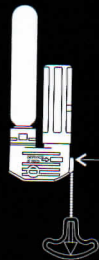
**NOTE:** The inflator will not allow the installation of assemblies with broken sensor rings.



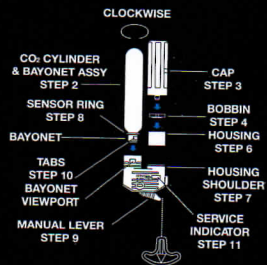
**Step 9:**  
Push and hold the manual lever in place against the inflator.

**Step 10:**  
Install a new cylinder & bayonet assembly by (A) engaging the tabs on the bayonet into the housing, pushing in firmly, then (B) turning clockwise 1/8 turn to a full stop. Check bayonet viewport. One of the black bayonet tabs will be entirely visible through the viewport. If a red or white indicator is displayed or the tab is not fully visible, the cylinder & bayonet assembly is not completely installed and needs to be turned clockwise further to a full stop.

**WARNING: PFD WILL ONLY INFLATE IF THE CYLINDER & BAYONET ASSEMBLY IS TURNED TO A FULL STOP**



SERVICE INDICATOR



**Step 11:**  
Check to be sure the service indicator is GREEN.

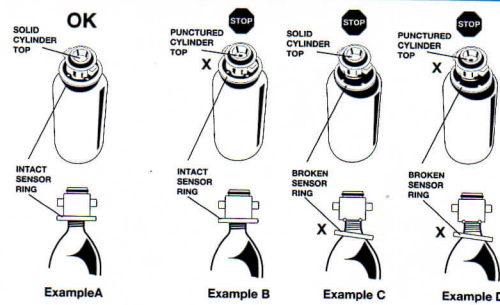
**Step 12:**  
Pack the PFD so that the GREEN service indicator is visible through the indicator window. Refer to (Fig 2b) Pg 4.

**WARNING!** - IF THE BOBBIN AND PLUNGER CAP ARE NOT FITTED, THE AUTOMATIC FUNCTION OF YOUR PFD WILL NOT WORK!

CO<sub>2</sub> CYLINDER INSPECTION CHART

"READY" INDICATORS

"NOT READY" INDICATORS



CLEANING AND STORING OF YOUR INFLATABLE PFD

To avoid inflation, do not submerge the inflatable PFD or directly spray the inflator. Hand wash or sponge down the inflatable PFD in warm, soapy water. Rinse the PFD and inflator with clean water, using a clean rinse cloth. Hang the inflatable PFD to dry on a plastic coat hanger. Do not dry clean. Do not put in a washing machine. Always store your inflatable PFD in a warm, dry place out of direct sunlight.

SERVICING

Servicing should be carried out annually. For the location of the nearest Crewsaver authorized service facility or to obtain full factory service, product literature, rearm kits, or customer assistance for your Crewfit 40 Pro PFD, please visit [www.crewsaver.com](http://www.crewsaver.com)

RE-PACKING YOUR PFD

If your inflatable PFD has been used and/or the automatic inflator replaced, always inflate through the oral tube and check that it stays inflated at least overnight. With the dust cap in the top of the oral tube, gently squeeze the inflatable PFD until all air or gas has been expelled (Fig. 5) Pg 5.

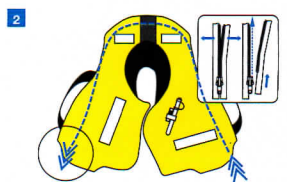
Do not wring or twist the inflatable PFD. Put the oral tube dust cap back in its stowed position on the oral tube (Fig. 6) Pg 6. Let the lifejacket dry before packing.

**IMPORTANT:** Ensure all air has been expelled from the inflation chamber before packing. This is done by inverting the black cap into the red oral tube located on the right side of the chamber. Before following the re-packing sequence, be sure to properly Rearm your inflatable PFD - Pg 9-14.

**NOTE:** One half of the jacket is not shown to enable the side in folding sequence to be clearer. Ensure the zip slider has been run round to the cylinder side of the jacket before you start packing. ....



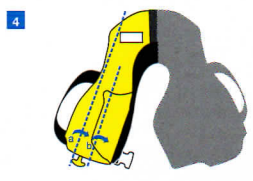
**Important** Fully deflate bladder before re-packing. Invert the black cap on the red oral tube and squeeze all the air out.



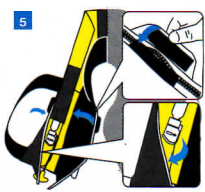
Ensure the zip slider is at its start point. When zip is fully open, run the slider round to the side where the Inflator is located.



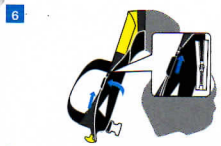
Fold inner edge over to the left.



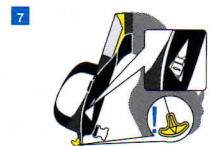
Fold outer side over twice.



Tuck bladder inside the cover and secure in place with the velcro tabs. Ensure inflator lies on top of bladder.



Do up zip past the Velcro tab. Secure with the velcro tabs.



The inflator should lie on top and be visible through the window. Ensure the manual pull toggle is accessible.



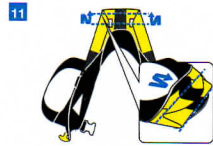
Fold inner edge over to the right.



Fold outer side over twice.



Tuck bladder inside the cover and bring the two sides of the cover together. Secure in place with the velcro tabs.



Concertina the bladder collar with two folds. Tuck in the fabric neck retainer.



Fold in the last corners of the bladder and bring the zip round to close



Make sure Velcro tabs are secure and zip ends are tucked up inside the cover. Ensure the manual pull toggle is accessible

### WHY ARE PFD'S REQUIRED SAFETY EQUIPMENT?

Drowning is the leading cause of fatalities involving recreational and commercial vessels. A PFD provides flotation to keep you face up in the water, keep your head above the water and also to increase your chances of survival. Most adults only need an extra 7-12 lbs (3.2-5.5 kg) of flotation to keep their heads above water. A properly sized PFD will properly support the weight of the wearer.

This inflatable PFD does not have inherent buoyancy, it provides flotation only when inflated. Familiarize yourself with the use of this inflatable PFD so you know what to do in an emergency.

### HOW AND WHY TO TEST YOUR PFD:

Inflate your inflatable PFD and try it out in the water to:

#### MAKE SURE IT FLOATS YOU:

- Comfortably (when worn properly)
- Adequately for expected wave conditions (body shapes/densities affect performance)

#### MAKE SURE IT WORKS:

- A flow of bubbles should not appear - see Care And Maintenance Instructions for leak tests Pg. 8. It should inflate quick and easily

#### LEARN HOW IT WORKS BY:

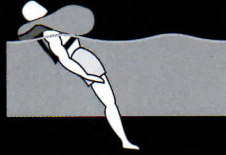
- Activating the CO<sub>2</sub> inflation system
- Rearming the CO<sub>2</sub> inflation system
- Using the oral inflator tube

The U.S. Coast Guard recommends that you purchase two rearming kits. One to be used immediately in testing the [automatic] inflation system - see How Do You Test Your PFD Using The Automatic Inflator?, and the other to carry on-board as a spare. Since you should replace the bobbin each year, the U.S. Coast Guard recommends you test the automatic inflation system in-the-water at the beginning of each boating season. By doing this, you demonstrate that the automatic inflation system is still working properly and reduce the likelihood of premature inflation and its associated dangers. The only check of the manual inflation system (with CO<sub>2</sub> cylinder and green indicator tab removed) would be to determine that the lever arm and piercing pin move freely when moving the lever (attached to the pull tab) several times down and up.

### HOW DO YOU TEST YOUR PFD USING THE AUTOMATIC INFLATOR?

The U.S. Coast Guard recommends that you purchase at least two spare rearming kits.

- 1 To test your inflatable PFD, you will need:
  - Your fully armed inflatable PFD
  - Rearming kit approved for your inflatable PFD
- 2 Put on the inflatable PFD.



- 3 Get into shallow water, just deep enough that you can stand with your head above the surface. Once the inflator is under water the PFD should automatically, fully inflate within 10 seconds.
- 4 See if the inflatable PFD will float you on your back or just slightly back of vertical. In a relaxed floating position, verify that your mouth is well above the water's surface. Note the effect of where you hold your legs on how you float.
- 5 Get out of the water and remove the inflatable PFD. Remove the used CO<sub>2</sub> cylinder and the used bobbin from the PFD inflator. Deflate the PFD using the oral inflator.
- 6 Let the PFD dry thoroughly. Rearm the PFD, Pg 9-14 and then re-pack the PFD, Pg 16-17.

### HOW DO YOU TEST YOUR PFD USING THE MANUAL INFLATOR?

The U.S. Coast Guard recommends that you purchase at least two spare rearming kits.

- 1 To test your inflatable PFD, you will need:
  - Your fully armed inflatable PFD, and
  - Rearming kit approved for your inflatable PFD
- 2 Put on the inflatable PFD.
- 3 Actuate the inflation system by jerking firmly downward on the pull-tab. The PFD should fully inflate within 5 seconds.
- 4 Get into shallow water, just deep enough that you can stand with your head above the surface.
- 5 See if the PFD will float you on your back or just slightly back of vertical. In a relaxed floating position, verify that your mouth is well above the water's surface. Note the effect of where you hold your legs and how you float.
- 6 Get out of the water and remove the inflatable PFD. Remove the used CO<sub>2</sub> cylinder. Completely deflate the inflatable PFD using the oral inflator - see Deflating The Inflatable PFD Pg 6.
- 7 Let the inflatable PFD dry thoroughly. Rearm, Pg 9-14 and Re-pack the PFD, Pg 16-17.

### HOW DO YOU TEST YOUR PFD USING THE ORAL INFLATOR?

This test is not mandatory, however may be conducted using the following procedure.

**WARNING: USE ONLY A PREVIOUSLY FIRED AUTOMATIC INFLATOR TO PERFORM THIS TEST. DO NOT TEST WITH A FULLY ARMED AUTOMATIC INFLATOR AS DOUBLE INFLATION MAY OCCUR, POSSIBLY RESULTING IN CELL DAMAGE.**

- 1 To test your inflatable PFD, you will not need any spare parts, or rearming kits.
- 2 Remove the CO<sub>2</sub> cylinder, to prevent inadvertent activation of the manual inflation system which could potentially damage the PFD. Inspect the threaded end to confirm its unused. Remove the bobbin from the automatic inflator if using an automatic PFD - see Rearming for instructions Pg 9-14.
- 3 Put on the PFD.
- 4 Get into shallow water, just deep enough that you can stand with your head above the surface.

- 5 If you are a weak swimmer or non-swimmer, inflate the PFD partially so that you are supported well enough to be able to complete inflation without touching bottom, either orally or manually. Note this level of inflation because it is the minimum needed for you to safely use this inflatable PFD.
- 6 Fully inflate the PFD using the oral inflator.
- 7 See if the PFD will float you on your back or just slightly back of vertical. In a relaxed floating position, verify that your mouth is well above the water's surface. Note the effect of where you hold your legs on how you float.
- 8 Get out of the water and remove the PFD. Completely deflate the PFD using the oral inflator.
- 9 Let the PFD dry thoroughly. Rearm and re-pack the PFD in accordance with the manufacturer's instructions.

#### WEAR YOUR PFD

In approximately 80% of all boating fatalities, the victims were not wearing a PFD. Most fatal accidents happen on calm sunny days. This inflatable PFD is much more comfortable to wear than other PFD types. Get into the habit of wearing this PFD. Non-swimmers and children especially should wear a hybrid or non-inflatable PFD at all times when on or near the water.

#### HYPOTHERMIA

Prolonged exposure to cold water causes a condition known as hypothermia - a substantial loss of body heat, which leads to exhaustion and unconsciousness. Most drowning victims first suffer from hypothermia. The following chart shows the effects of hypothermia.

#### HOW HYPOTHERMIA AFFECTS MOST ADULTS

Water Temperature °C (F)	Exhaustion or Unconsciousness	Expected Time of Survival
0-3°C (32-5°F)	Under 15 minutes	Under 15-45 minutes
0.3-4°C (32.5-40°F)	15-30 minutes	30-90 minutes
4-10°C (40-50°F)	30-60 minutes	1-3 hours
10-16°C (50-60°F)	1-2 hours	1-6 hours
16-21°C (60-70°F)	2-7 hours	2-40 hours
21-27°C (70-80°F)	2-12 hours	3 hours to Indefinite
over 27°C (over 80°F)	Indefinite	Indefinite

PFDs can increase survival time because they allow you to float without using energy treading water and because of their insulating properties. Naturally, the warmer the water, the less insulation you will require. When operating in cold waters (below 60°F (15.6°C)) you should consider using a coat or jacket style PFD or a Type V Thermal Protective PFDs they cover more of the body than the vest or belt style PFDs.

#### SOME POINTS TO REMEMBER ABOUT HYPOTHERMIA PROTECTION

- 1 Always wear your inflatable PFD. Even if you become incapacitated due to hypothermia, the inflatable PFD will keep you afloat and greatly improve your chances of rescue.
- 2 Do not attempt to swim unless it is to reach a nearby craft, fellow survivor, or a floating object on which you can lean or climb. Swimming increases the rate of body heat loss. In cold water, drown-proofing methods that require putting your head in the water are not recommended. Keep your head out of the water, this will greatly lessen heat loss and increase your survival time.
- 3 Use the standard H.E.L.P. position when wearing an inflatable PFD, drawing the legs up to a seated position, because doing so will help you conserve body heat (Fig. 10).
- 4 Keep a positive attitude about your survival and rescue. This will improve your chances of extending your survival time until rescued. Your will-to-live does make a difference!
- 5 If there is more than one person in the water, huddling is recommended while waiting to be rescued. This action tends to reduce the rate of heat loss and thus increase the survival time.



HELP POSITION

Figure 10

#### THESE DEVICES ARE INTENDED TO HELP YOU SAVE YOUR OWN LIFE

For your PFD to function properly, follow these suggestions to verify that it fits, floats, and remains in good condition.

- 1 Check the status indicator before each use.
- 2 Get in the habit of rearming the inflation mechanism after each inflation.
- 3 Try your wearable inflatable PFD on and adjust it until it fits comfortably in and out of the water.
- 4 Mark your inflatable PFD with your name if you are the only wearer.
- 5 Do not alter your inflatable PFD. If it doesn't fit properly, get one that does. An altered device is no longer Coast Guard approved.
- 6 Your inflatable PFD is not intended for use as a fender or kneeling pad.
- 7 If your inflatable PFD is wet, allow it to dry thoroughly before storing it. Store it in a well ventilated area.
- 8 Do not dry your inflatable PFD in front of a radiator or other source of direct heat.

#### INFLATABLE PFD SAFETY ACCESSORIES

Rearm Kit contains 38-gram replacement CO<sub>2</sub> cylinder and bayonet and a bobbin

#### ADDITIONAL INFORMATION:

If you need more information about PFDs and safe boating, contact your state boating authority, U.S. Coast Guard Auxiliary, U.S. Power Squadron, Red Cross, or your nearest unit of the U.S. Coast Guard. To find out about free boating courses in your area call 1-800-336-BOAT (in Virginia, call 1-800-245-BOAT).

**DO NOT ATTACH PFD'S TO YOUR BOAT**

Each PFD has straps, hooks, buckles, or other means for securing the device in place on the wearer. Some PFDs also incorporate decorative d-rings or tabs. Such items are not to be used to attach the device to the boat. Attaching the device to the boat will not permit it to perform as intended.

**SAILING HARNESS**

**CAUTION:** Use only as a sailing harness.

Models with a sailing harness (9504BKM and 9504BKAH) are designed to prevent the user from falling overboard when used with a tether with an under-load quick-release hook and has been designed and tested in accordance with Offshore Racing Council (ORC) requirements.

Care and attention must be taken to ensure that the harness is used and maintained correctly. The harness is designed to be worn by persons at least 5 feet 5 inches tall (165cm). The harness should be worn as high on the chest as possible, but in all cases, at least 2 inches (5cm) above the lowest rib measured from the bottom of the belt and should not be used if it does not fit in this manner.

Adjust the harness using the strap adjuster so that the harness is as snug as tolerable. Failure to adjust the harness properly could result in injury.

When attached to the boat use a tether of less than 6 feet 6 inches (2m) in length with quick-release under-load hardware (Fig. 11).

Ensure that a tether is secured to both soft loops.

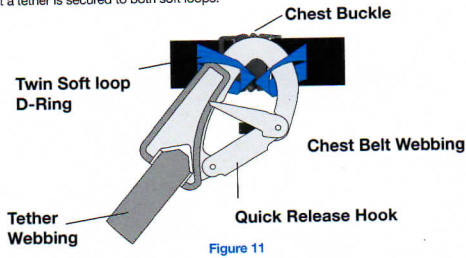


Figure 11

**WARNING:** The use of a sailing harness to prevent falls overboard presents several risks. In case of capsizing or sinking, the boat may bring you down with it. Because of this you must ensure that any tether used has quick-release under-load hardware. This harness has not been designed for fall arrest, lifting or climbing and should not be relied upon in any of these instances. US Coast Guard approval does not apply to this harness and the potential for injury has not been assessed.

**NOTE:** Models 9504BKM and 9504BKAH have a built-in sailing harness intended for attaching to boats with quick-release under-load tethers secured to both soft loops - see Sailing Harness Pg 22. Do not attach the 9503BKM and 9503BKA to boats using any other means.

**AIRLINE OPERATOR POLICY ON CARRIAGE OF INFLATABLE PFDs AND CO<sub>2</sub> CARTRIDGES**

Please be aware that the following regulations apply to the air transport of this product. According to U.S. Research and Special Programs Administration Regulations Title 49 CFR 75.10(a)(25): With the approval of the aircraft operator, one small carbon dioxide cylinder fitted into a self-inflating jacket, plus one spare cartridge, may be carried by a passenger or crew in checked or carry-on baggage. Please refer to the governing body's documentation, found online at <http://hazmat.dot.gov>.

**SERVICE RECORD AND INSPECTION LOG**

Test this device at the beginning of each season and service annually.

USER NAME: \_\_\_\_\_

YEAR	DATE SERVICED	PERFORMED BY	BOBBIN INSTALL DATE	INSTALLED BY
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

 **Survitecgroup**

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