

LALIZAS

LifeSaving

OWNER'S MANUAL

LALIZAS Inflatable Lifejackets Lamda, SOLAS/MED



- ▶ LALIZAS Inflatable Lifejacket Lamda, Auto, 150N, SOLAS/MED (code: 71107)
- ▶ LALIZAS Inflatable Lifejacket Lamda, Auto, 150N, with Zipper, SOLAS/MED (code: 711071)
- ▶ LALIZAS Inflatable Lifejacket Lamda, Auto, 275N, SOLAS/MED (code: 71216)
- ▶ LALIZAS Inflatable Lifejacket Lamda, Auto, 275N, with Zipper, SOLAS/MED (code: 712162)
- ▶ LALIZAS Inflatable Lifejacket Advanced Lamda, Auto, 330N, with Crotch Strap, SOLAS/MED (code: 72114)
- ▶ LALIZAS Inflatable Lifejacket Advanced Lamda, Auto, 330N, with Sprayhood & Crotch Strap, SOLAS/MED (code: 72115)

DO NOT REMOVE PRIOR TO SALE!

IMPORTANT MESSAGE

When used and serviced according to this Owner's Manual, this device can greatly increase your chances of survival in the water. The lifejacket has integrated polyvinyl chloride material cover which is easy to clean.

The lifejacket cover closure system is a simple hook and loop fastener or zipper (depending on product code). The cover will pop open quickly upon discharge of 1 or 2 cylinders of 33gr or 60 gr CO₂ automatically upon water entry, or manually by pulling the manual lever. When filled, its chamber capacity is capable of providing buoyancy to keep the wearer's head above water. Actual buoyancy will vary with ambient conditions and CO₂ production tolerances.

A double oral & relief inflation tube with automatic seal valve is provided for buoyancy adjustment and deflating. Oral inflation may only be used as a back-up if for any reason the automatic and/or manual inflation has not operated.

LALIZAS Lamda lifejackets can be easily adjusted to users with chest size up to 150cm.

When fully donned and inflated, this device is designed to turn most wearers face up within 5 seconds.

Its inner high visibility yellow chamber, with double chamber interlocking system and SOLAS grade retro-reflective material, its SOLAS lifejacket light and whistle, which is firmly secured by lanyard, enhance the chances for rapid rescue. The lifejacket has also integrated a yellow lifeline, also known as buddy line, which is reusable and can be secured to a lifejacket worn by another person in the water.

It is also provided with lifting loop so as to lift the wearer from the water into the rescue boat or survival craft.

The LALIZAS JSI inflator mechanism was selected for its low profile, simplicity, and field proven technology. Its water-soluble water activation device technology meets the highest inflation mechanism requirements for resistance to inadvertent inflation from high temperature and high humidity. Caution: Since water soaking trips the firing pin, premature inflation is always a possibility with all inflators. Rain, splash, and fog are very unlikely to cause firing. Full immersion as would be experienced with a large wave or fall overboard will cause inflation.

Attention: The inflator mechanism does not have cylinder seal indication, so the cylinder must be removed to check and confirm that it has not been fired. Once the lifejacket is used, then it should be immediately serviced and immediately cylinder CO₂ to be replaced with a brand new cylinder CO₂.

CAUTION

DEVICE IS ARMED
READ INSTRUCTIONS IN YOUR OWNER'S MANUAL PRIOR TO USE
SEE PARTS LIST BELOW

GENERAL SPECIFICATIONS

Chest Size: 70 - 150 cm

Weight Range: more than 40 kg

Buoyancy: 150, 275 & 330 Newtons according to each model predefined category, when fully inflated

Inflation System:

2 pcs of Manual/Automatic Inflation Mechanism

2 pc Oral & Relief Tube (Double)

The Manual levers are used to manually activate the inflation mechanism and inflate the lifejacket.

2 pcs of CO₂ Cylinder 33 or 60 gram in accordance with the relevant model, 1/2-inch thread

Available in one adult size, which can be easily adjusted to passengers with chest size up to 175cm or more, with the use of the LALIZAS Waist Belt Extender (71161)

PRE-DONNING INSTRUCTIONS

CHECK THE FOLLOWING INSTRUCTIONS BEFORE EACH USE OR OUTING:

1. INSPECT THE LIFEJACKET FOR DAMAGE
2. INSPECT THE INFLATOR MECHANISM/S
3. EXAMINE CO₂ CYLINDER CAP FOR PUNCTURE HOLE. IF PUNCTURED OR DEFORMED, REPLACE THE CYLINDER.
4. CHECK THAT THE STATUS OF THE INFLATOR IS IN AUTOMATIC OR MANUAL MODE FOR THE APPLICATION NEEDED.

DONNING INSTRUCTIONS

In an emergency situation there is not enough time to learn the proper operation of lifesaving equipment. Therefore, it is advised that the user has practiced beforehand, in order to become familiar with the use and features of the lifejacket. It is vital that the lifejacket is correctly adjusted in order to fit the user.

Donning instructions are printed on the outer cover of each lifejacket.

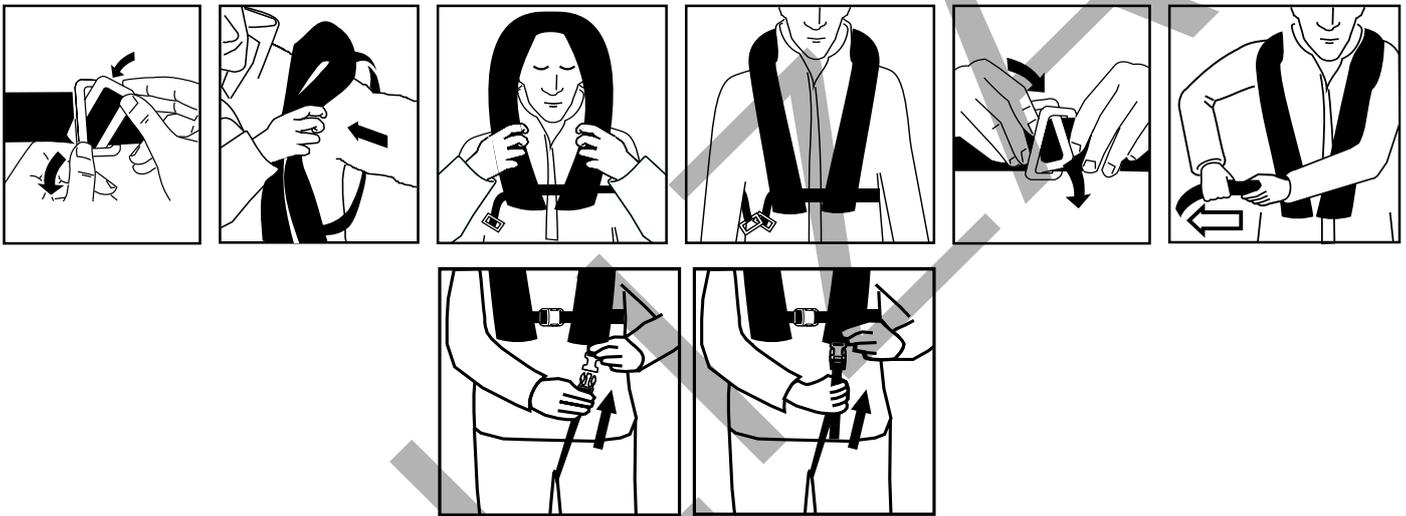
In order to don your lifejacket, follow the below steps:

1. Remove the lifejacket from the storage bag. Unfasten the stainless steel interlocking buckle/buckles.
2. Wear the lifejacket as you would wear a jacket.
3. Fasten the buckle/buckles.
4. Tighten the waist belt. Adjust the strap.
5. Fix and fasten the crotch strap for 330N model.

How to wear your lifejacket (150N & 275N):



How to wear your lifejacket (330N):



To prevent the lifejacket from riding up on the wearer when in the water, it is vital that the straps are properly adjusted. This may prevent the wearer from being able to maintain their nose or mouth face up above the water surface.

In an emergency situation, if needed, enter into the water with your feet first while holding the lifejacket (see below).



After donning, locate the **Manual lever** for the mechanism; it should protrude from the lifejacket! Make sure that you are comfortable locating it with either hand.

Be prepared to use it in case of emergency! Always wear your lifejacket over clothing, not under clothing.

Caution: Clothing and equipment may affect the ability of this lifejacket to turn the wearer to a face-up position in the water. Due to mission specific configurations, we recommend self-testing under controlled conditions to confirm adequate performance. Make sure you practice on closing the hardware and on adjusting the straps before use or prior to in-water testing.

INFLATED DONNING INSTRUCTIONS

Inflatable lifejackets can be very difficult to don when fully inflated. Deflate through the Oral Tube until enough gas has escaped to don. See DEFLATION INSTRUCTIONS. Don as described above and re-inflate orally as described below.

INFLATION INSTRUCTIONS

1. Manual Inflation - To inflate, grasp the 2 *Manual levers* and pull sharply downwards. This will open the mechanism cover flap and activate the manual inflation lever.

2. Automatic Inflation - When armed, the 2 automatic *Inflation Mechanisms* will be activated when the device is totally immersed in the water. Depending upon temperature, the device will obtain full buoyancy within 5 to 10 seconds. It is recommended that the user regard the automatic system as a backup and always be prepared to pull the *Manual levers* upon immersion.

3. Oral Inflation - The *Oral & Relief Tube (Double)* is located on both inflation chambers. Each tube has one inflation valve and one relief valve preinstalled. Before inflating, without CO_2 , you **MUST** first open the oral inflation cap. Grasp the *Oral Tube* and bring to mouth. Blow air through the *Oral Tube* until the *Inflatable Chamber* is firm. The oral tube valve will automatically re-seal. The relief valve will automatically remove the excess air so as to maintain the chamber with the needed buoyancy.

4. Cold Inflation - Oral Inflation may be required in addition to manual or automatic inflation if chamber/s is not firm due to cold temperatures at or below 4 °C. Inflation time using CO_2 gas will be longer at these temperatures. Activation of automatic system may also be slower. **Always be prepared to use the manual inflation system!** See FREEZING TEMPERATURES on page 9.

3. Other Inflation Precautions

Caution: Never inflate this lifejacket with a pump or air-compressor.

If the chamber/s becomes soft due to CO_2 permeance, Oral Inflation will be necessary to maintain full buoyancy. Permeation loss is greater when the device is inflated with CO_2 than with air, and earlier replenishment by means of the oral inflation system will therefore be necessary.

INSPECTING YOUR LIFEJACKET FOR DAMAGE

Make sure that the lifejacket is free from rips, tears or punctures. This type of damage on the outside covering indicates that the *Inflatable Chamber/s* may have been exposed to potentially damaging elements. If these defects expose the yellow inflatable chamber/s material, discontinue use of the lifejacket until you have the lifejacket inspected by an authorized repair facility. If these defects are noticed but the yellow inflatable chamber/s material is not exposed, the *Inflatable Chamber/s* should be checked for leaks.

IMPORTANT NOTICE - WARNINGS

Caution - Do not use as a cushion. This is not a lifejacket until it is fully inflated. Train yourself in the use of this lifejacket. Full performance may not be achieved using waterproof clothing or in other circumstances.

Trapped air and carried load impair the performance of the 33gr or 60gr CO_2 gas cylinder.

Once lifejacket is used, then it should be immediately serviced and immediately the 2 cylinder CO_2 to be replaced with a brand new cylinder CO_2 .

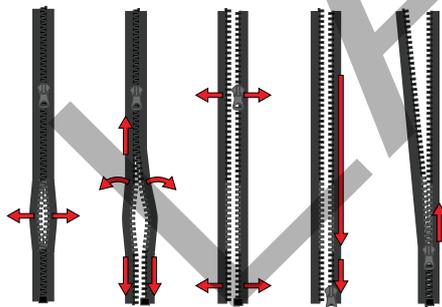
Gas Cylinders are dangerous goods and they shall be kept away from children and not misused.

Regarding the cylinders attached to the inflator mechanism, please perform visual periodic inspection. In case there is any of the below:

- dent
- scratches
- corrosion on the cylinder
- or even used and not replaced.

then contact a LALIZAS authorized Service Station, in order to perform service of the lifejacket.

For the LALIZAS SOLAS models with zipper closure, please perform visual periodic inspection:



Preparing zip for repacking:

- Ensure that the zip teeth are separated all around the lifejacket.
- Slide the zip around to the right end as worn.
- Zip carefully, helping with your other hand, till the left edge.

The zipper has pre-cut teeth to different determined location by manufacturer and these areas are protected /hidden by a black hook and loop patch. It is forbidden to cut or damage additional zipper teeth. If that happens then the lifejacket should be discarded.

In case the zipper has dents, cracks, missed teeth, damaged zipper slider or the zipper slider is stuck then contact a LALIZAS authorized Service Station, in order to perform service of the lifejacket

Make sure that **LALIZAS lifejacket light SOLAS** and **LALIZAS whistle** are attached and that **retroreflective tapes SOLAS** have no signs of deterioration.

All damage to the materials, such as tears, abrasion, cuts on the cloth or webbing, color change or damage to the buckles, that would affect the buoyancy by overheating, UV sun damage, incorrect storage or use, etc can lead to a life threatening reduction in safety offered by the product. All such products should be removed from use. If in doubt, contact a LALIZAS certified Service Station.

STORAGE

The lifejackets must be stored in a dark, clean, and dry area, which can be accessed immediately in case of emergency. Do not compress the lifejackets in storage. Avoid any contact with sharp objects that can damage the lifejacket. Avoid storage in extreme temperature conditions.

Avoid contact with high corrosive oil / petrol or other liquid.

CLEANING

Rinse the lifejacket with fresh water after use in salty water. Always remove the auto-firing head before washing automatic inflated lifejackets. Use only warm water and mild detergents and a gentle hand wash. Use of stain removers is not recommended. Let it dry naturally before storing. Check that the lifejacket is completely dry and repack it.

Never use a washing machine or any other drying method to clean your lifejacket.

SERVICE INTERVALS

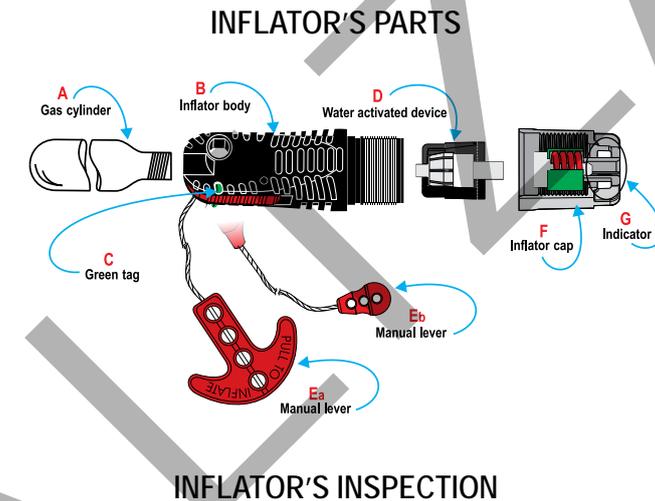
As per SOLAS/MED requirements the SOLAS/MED inflatable lifejackets should be serviced annually, by a LALIZAS authorized Service Station, or less than an annually basis, in case of use.

A list worldwide with LALIZAS Authorizes Service Station is available in LALIZAS Official Website.

INSPECT THE INFLATOR MECHANISM & RE-ARMING INSTRUCTIONS

Examine the inflation mechanism status indicators. The Inflation Mechanism Status Indicators will tell you if the inflation mechanism is properly **ARMED/REARMED** and ready for activation.

See below for a description of the inflator status indicators: includes the indications to when a LALIZAS automatic inflator is ready for use (OK) and to when it should be serviced (STOP).



Automatic JS1 inflators can also operate manually, by using their lever.

Attention: Once lifejacket is used then it should be immediately serviced and immediately the 2 cylinders CO₂ to be replaced with 2 brand new cylinders CO₂.

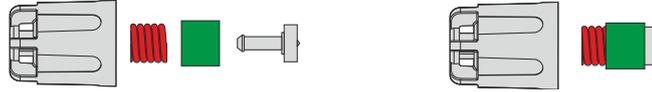
To check the automatic inflator, first inspect the inflator cap(F) making sure the green "ready for action" indicator is visible in the base of the unit.

Next step is to remove and inspect the seal of the CO₂ cylinder. If the cylinder seal has been pierced or the "red fired" indicator is visible in the inflator cap (F) , the water activated device (D) and the gas Cylinder (A) will need to be replaced.

To replace the water activated device (D), unscrew the inflator cap (F) in a counter-clockwise direction and discard the used water activated device.

Clean the inflator cap (F) if any presence of water is found.

Then install a new water-activated device in the inflator body (B) and screw the inflator cap (F) in a clockwise direction until no thread is visible, see photos below. Then check that the green “ready for action” indicator (C) is visible in the base.



Attention: In automatic inflators, the firing pin returns inside the inflator body (B) when the water activated device(D) is removed. If not, then:

1. Remove the green tag (C), then remove the inflator cap (F), along with the water activated device (D). Check the manual operation, by pulling the manual lever (Ea or Eb) and observe if the pin moves inside the cylinder aperture of inflator body and by leaving the lever the pin resets to its original position. Check the condition of the gas Cylinder (A). Replace with a new green tag (C) and gas Cylinder (A) if necessary.

2. If any defects are found, they should be recorded and a new inflator should be fitted if it is needed. If the pin doesn't reset inside the inflator core body should be lubricated with silicone spray. Then repeat 3.10 to check its function.

Note: LALIZAS recommends that in every annual inspection of the lifejacket, the water-activated device (code 00340) should be checked for its good condition and if necessary you replace it.

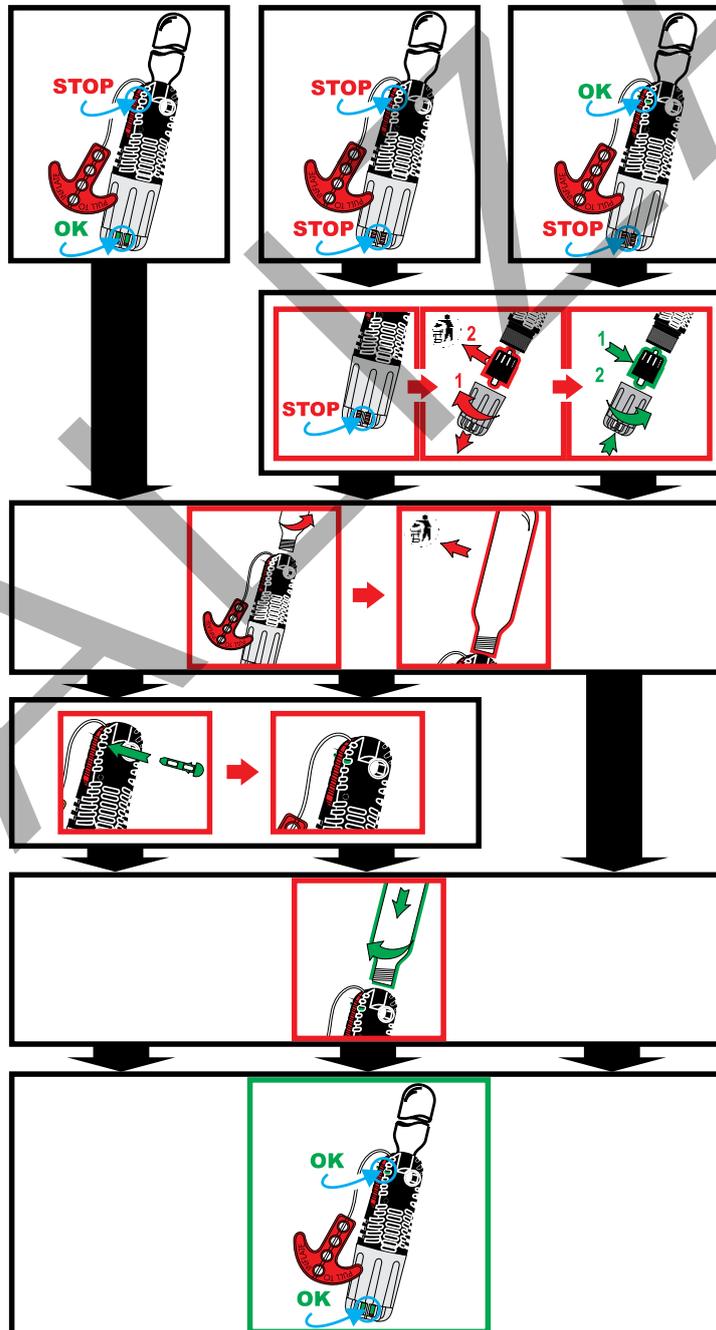
At last, check the manual system “green tag C” is in place and refit the CO₂ cylinder (A).

If the firing pin does not reset inside the automatic inflator's core body, then immediately declare the lifejacket as “needs to be serviced”, discontinue use of this lifejacket and take it to a LALIZAS authorized Service Station.

Attention, the inflator inspection should be done to both inflation mechanisms that LALIZAS lifejackets SOLAS have.

In short, user may also follow the steps as it is shown in the below diagram:

REARMING



EXAMINE YOUR CO₂ CYLINDER

The CO₂ cylinder contains the gas charge that will inflate your lifejacket when the inflation mechanism is fired either automatically or manually.

You must verify that the 2 CO₂ cylinders installed are of the correct size and have not been previously fired. To examine the cylinder, you must unscrew it and visually examine the cap (the flat surface on the threaded end).

There are no indicators to show that the CO₂ cylinder is full. The cylinder needs to be replaced if there is any visible damage on the flat surface. See the product specifications section on page 1 of this manual to determine the proper size cylinder.

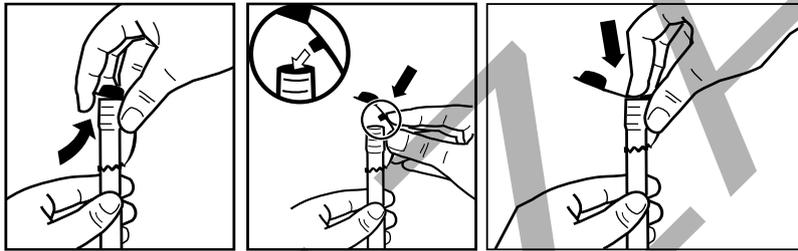
If the cylinder is OK, you must properly screw it back into the inflator mechanism. If the cylinder is damaged, discard and install a new, undamaged cylinder into the mechanism, as explained in detail in 2. Inspect the inflator mechanism.

Additional Notes on CO₂ Cylinders:

- FAILURE to properly rearm the inflation mechanism prior to installing the CO₂ Cylinders will result in premature activation of the cylinder.
- CO₂ Cylinder is only good for one inflation and cannot be recharged.
- CO₂ Cylinders are made with a protective coating that may wear off after a period of use or exposure to the environment. When this coating is worn off, the CO₂ Cylinders may start to show some signs of rusting. If this occurs, replace the CO₂ Cylinder.

ORAL TUBE (Double) DEFLATION INSTRUCTIONS

To deflate the lifejacket, remove the cap on the oral inflation tube side and either insert the nipple from the cap or your hand into the valve head, as following sketch. Then, apply gentle pressure to the lifejacket and deflate it. Gently squeeze the lifejacket to expel the remaining air or CO₂. When fully deflated, place again the cap on the oral & relief tube (double). Please apply this procedure to both oral & relief tube (double) which are located to the 2 chambers of the lifejacket.



DO NOT TWIST OR WRING INFLATABLE CHAMBER/s TO DEFLATE.

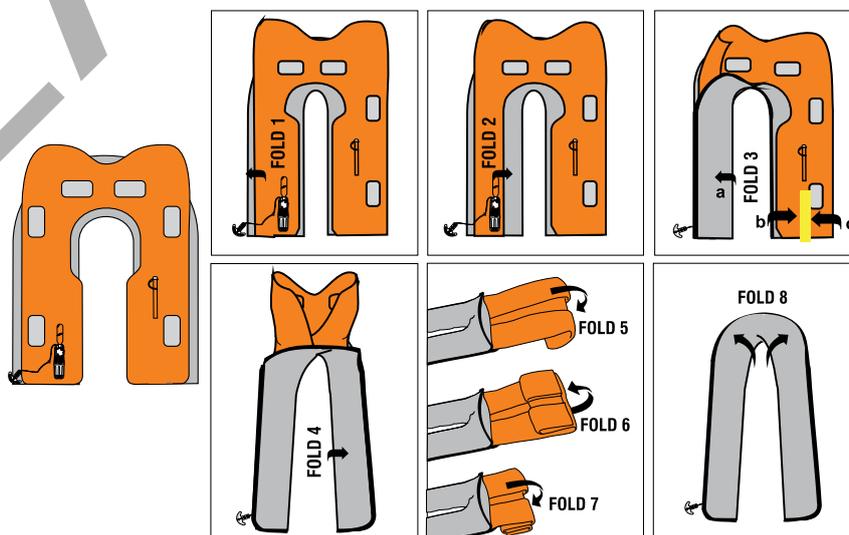
If for any reason the oral valve remains open, depress it several times. If it does not release, discontinue use of this lifejacket and take it to a LALIZAS authorised Service Station.

CARE & STORAGE: As lifejacket, the double tube should be clean and kept away from petrol, oil and hazardous substances.

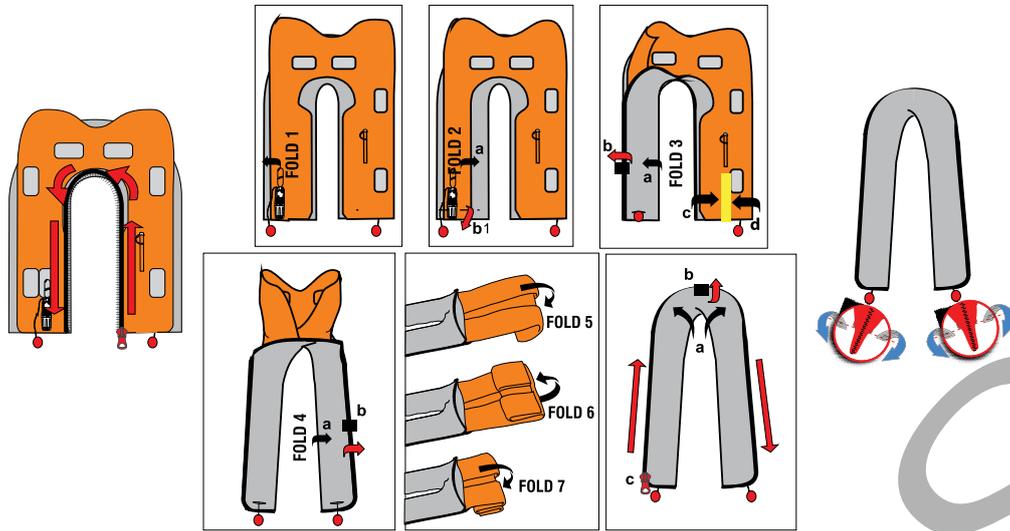
REPACKING INSTRUCTIONS

- Always **deflate** the lifejacket and **rearm** the inflation mechanism. - Follow REARMING instructions, given to this manual.
- Lay the lifejacket on a flat surface so that the retro-reflective tape is visible.
- Follow the details of repacking inflatable lifejacket as provided by the images in accordance with the lifejacket in your possession.
- Check that the manual lever/s are visible at the 2 sides of the lifejacket and free of any obstacles.

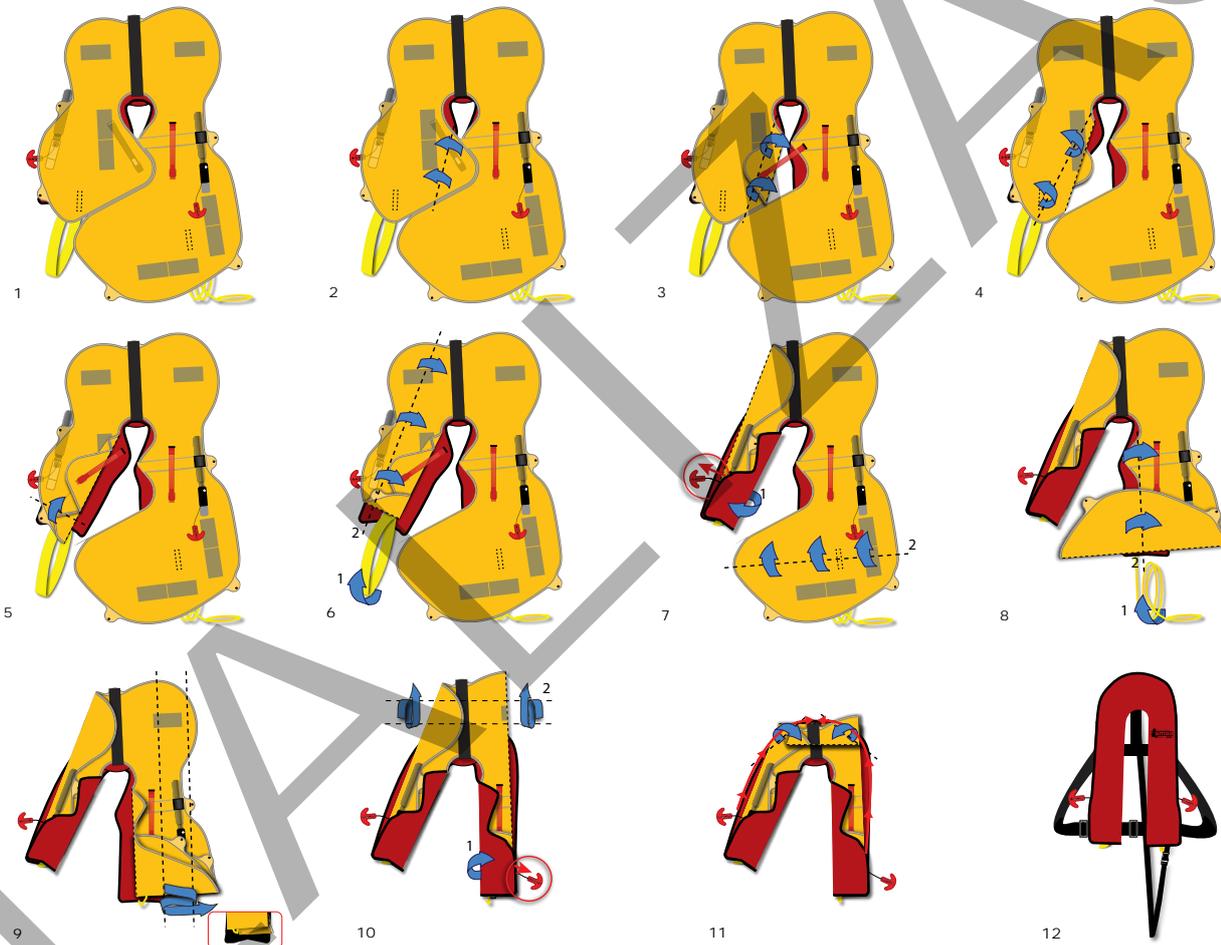
For models 150N (code 71107) & 275N (code 71216) with hook and loop fastener:



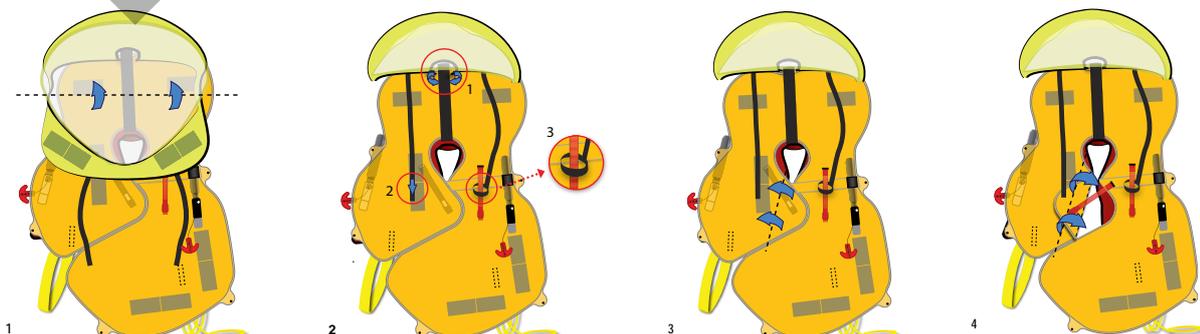
For models 150N (code 711071) & 275N (code 712162) with zipper:

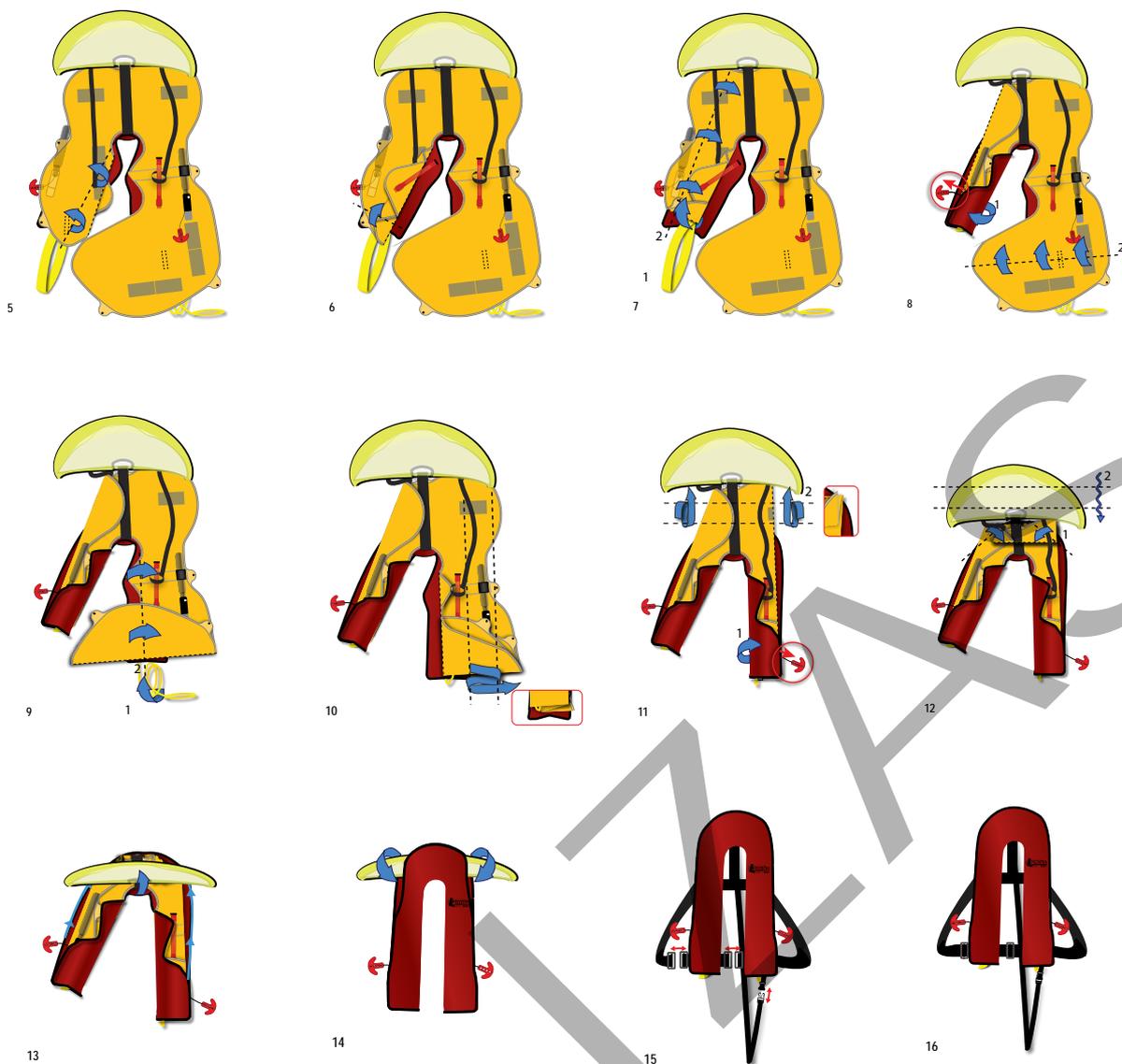


For models 330N (code 71214) & 330N (code 71215) with hook and loop fastener:



Assembly and packing instructions of the LALIZAS Sprayhood for SOLAS Inflatable Lifejackets (code 72113):





Suitable for LALIZAS Lamda & Delta inflatable lifejackets as per the table below:

Code	Description
71107	LALIZAS Inflatable Lifejacket Lamda, Auto, 150N, SOLAS/MED
711071	LALIZAS Inflatable Lifejacket Lamda, Auto, 150N, w/ Zipper, SOLAS/MED
71216	LALIZAS Inflatable Lifejacket Lamda, Auto, 275N, SOLAS/MED
712162	LALIZAS Inflatable Lifejacket Lamda, Auto, 275N, w/ Zipper, SOLAS/MED
72114	LALIZAS Inflatable Lifejacket Advanced Lamda, Auto, 330N, w/ Crotch Strap, SOLAS/MED
72115	LALIZAS Inflatable Lifejacket Advanced Lamda, Auto, 330N, w/ Sprayhood & Crotch Strap, SOLAS/MED
71108	LALIZAS Inflatable Lifejacket Belt-Pack Delta, Auto, 150N, SOLAS/MED

FREEZING TEMPERATURES

Around 4°C automatic activation and inflation time with CO₂ gas will be longer. Wearing a partially inflated lifejacket in these conditions will provide some initial buoyancy while the lifejacket fully inflates.

OTHER USE GUIDELINES

1. Always wear your lifejacket to avoid emergency donning.
2. If you need to jump from any height always fold arms over your chest to keep the lifejacket in place when entering the water.
3. Avoid all unnecessary activities that will be abrasive to the device.
4. Use extreme caution around sharp objects.

5. Avoid unnecessary exposure to the sunlight. See GENERAL PRODUCT LIFE EXPECTANCY below.
6. CO₂ gas from the cylinder will permeate through the chamber fabric over time. If you are in the water for a long time, it may be necessary to top off the inflatable orally, by blowing air in through the oral & relief tube (double).
7. Inflatable lifejackets are not designed for activities in which the wearer expects to encounter impact with the water at a high speed such as water skiing, riding personal water craft, etc.
8. Inflatable lifejackets are not designed for white water activities.
9. For Inflatable lifejackets that have a manual-auto inflator, dropping the lifejacket into the water or exposing the inflation system to unnecessary water spray, will result in an inadvertent inflation.

IS YOUR LIFEJACKET IN GOOD AND SERVICEABLE CONDITION?

Check your lifejacket 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. Inspect the inflatable portion of the lifejacket in accordance with Care and Maintenance Instructions.

GENERAL PRODUCT LIFE EXPECTANCY

The reliability and service life of this lifejacket depends greatly upon how it is used and cared for. Avoid storing lifejacket in direct sunlight. Sunlight contains ultraviolet radiation that weakens synthetic materials. Prolonged exposures to high temperatures and high humidity may shorten service life of this lifejacket. While it is known that these elements degrade the materials, every environment of use is unique so there is no sure way to estimate how long the lifejacket will last. It is for this reason that you must follow the care and cleaning instructions and perform the maintenance and service checks. This will assure that the lifejacket remains functional and will maximize the useful life of this lifejacket. Failure to follow these instructions rigorously could result in a non-functioning lifejacket causing **injury or death**.

Estimated lifetime of the lifejacket: 10 years from the date of manufacture.

INSPECTION & MAINTENANCE INSTRUCTIONS

User's Inspection - The user should perform the following checks before each season, or before a long journey, or before each outing, as recommended below:

1. **Physical Inspection of Cover, Straps and Chambers** - Examine outer shell fabric, seams, webbing attachments, buckles, slides, etc. Fabric fading can indicate a loss of strength. Check for strength by pulling seams and attachments snugly. If device shows any signs of damage, return to a LALIZAS authorised Service Station or replace the entire lifejacket. This inspection should be performed each outing.
2. **Repeat pre donning instructions**
3. **Function Test of Oral & Relief Tube (Double)** - Remove the dust protection cap. With the lifejacket inflated, test the valve as explained in this manual. The valve should depress easily, and when released it should automatically return to the closed position and reseal.

CARE AND CLEANING INSTRUCTIONS

Drying - If the device is wet, place on a coat hanger to allow thorough drying. Do not place in direct sunlight to dry. Do not use any heat source or place on radiator.

Cleaning - Rinse the lifejacket with fresh water after use in salty water. Use only warm water or mild detergents or / and a gentle hand wash. Use of stain removers is not recommended.

Remove grease and oil immediately. Always remove the auto-firing head before washing automatic inflated lifejackets. Read instructions provided on the device.

Let it dry naturally before storing.

- DO NOT MACHINE WASH
- DO NOT MACHINE DRY
- DO NOT DRY CLEAN
- DO NOT USE SOLVENT BASED CLEANERS
- DO NOT BLEACH

Check that the lifejacket is completely dry and repack.

STORAGE

- STORE your water-activated devices (D) in a ventilated package, DO NOT store in a sealed container.
- STORE in clean, cool, dry area.
- DO NOT store water-activated devices (D) in high humidity or high temperatures (over 38°C) for an extended time.
- DO NOT store water-activated devices (D) for more than 36 months before use.

REARMING COMPONENTS

Unused components for the inflation mechanism should be inspected and/or replaced annually. To reduce the possibility of inadvertent inflation, water-activated devices (D) should be replaced more often if exposed to long term high temperature and high humidity. The rearming kit for this device is available upon request.

Lifejackets	Code	Re-Arm Kit
150N AUTO & MANUAL 	71323	 + 2 x 
	20190	 +  + 2 x 
	71324	4 x  + 10 x 
	00348	
275N AUTO & MANUAL 	71324	4 x  + 10 x 
	02197	
	73676	 +  + 2 x 

WHY ARE LIFEJACKETS REQUIRED AS SAFETY EQUIPMENT?

Drownings are the leading cause of fatalities in water related missions. A lifejacket provides flotation to help keep your head above water, help you to stay face up in the water, and increase your chances for survival and rescue. Most adults only need an extra 30N of flotation to keep their heads above water. The proper size lifejacket will properly support the weight of the wearer.

Since this inflatable lifejacket does not have inherent buoyancy, it provides flotation only when inflated.

Familiarize yourself with the use of this lifejacket so that you will know what to do in an emergency.

HOW AND WHY TO TEST YOUR LIFEJACKET?

Inflate your lifejacket 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 continuous flow of bubbles should not appear (for details see leak tests)*
 - It should inflate quickly and easily*
- Learn how it works by:
 - Activating the 2 CO₂ inflation system*
 - Rearming the 2 CO₂ inflation system*
 - Using the 2 oral & relief tube (double)*

LALIZAS recommends that you purchase automatic rearming kits. The rearming kit for this device is available upon request.

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 2 manual inflation system (with CO₂ cylinder and green indicator tab removed) would be to determine that the lever and piercing pin move freely when moving the lever (attached to the manual lever) several times down and up, as explained previously in this manual.

WEAR YOUR LIFEJACKET

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

CO₂ PERMEATION LOSS

CO₂ gas will permeate the chamber fabric over time. Oral Inflation will be necessary to maintain full buoyancy.

LALIZAS Lifejacket Light, SOLAS:

General:

- Water-activated LED flashlight technology
- Extra powerful LED light: Offers lower consumption, longer life and operates automatically when it comes in contact with water

