MariTeam

Mullion

SERVICE MANUAL

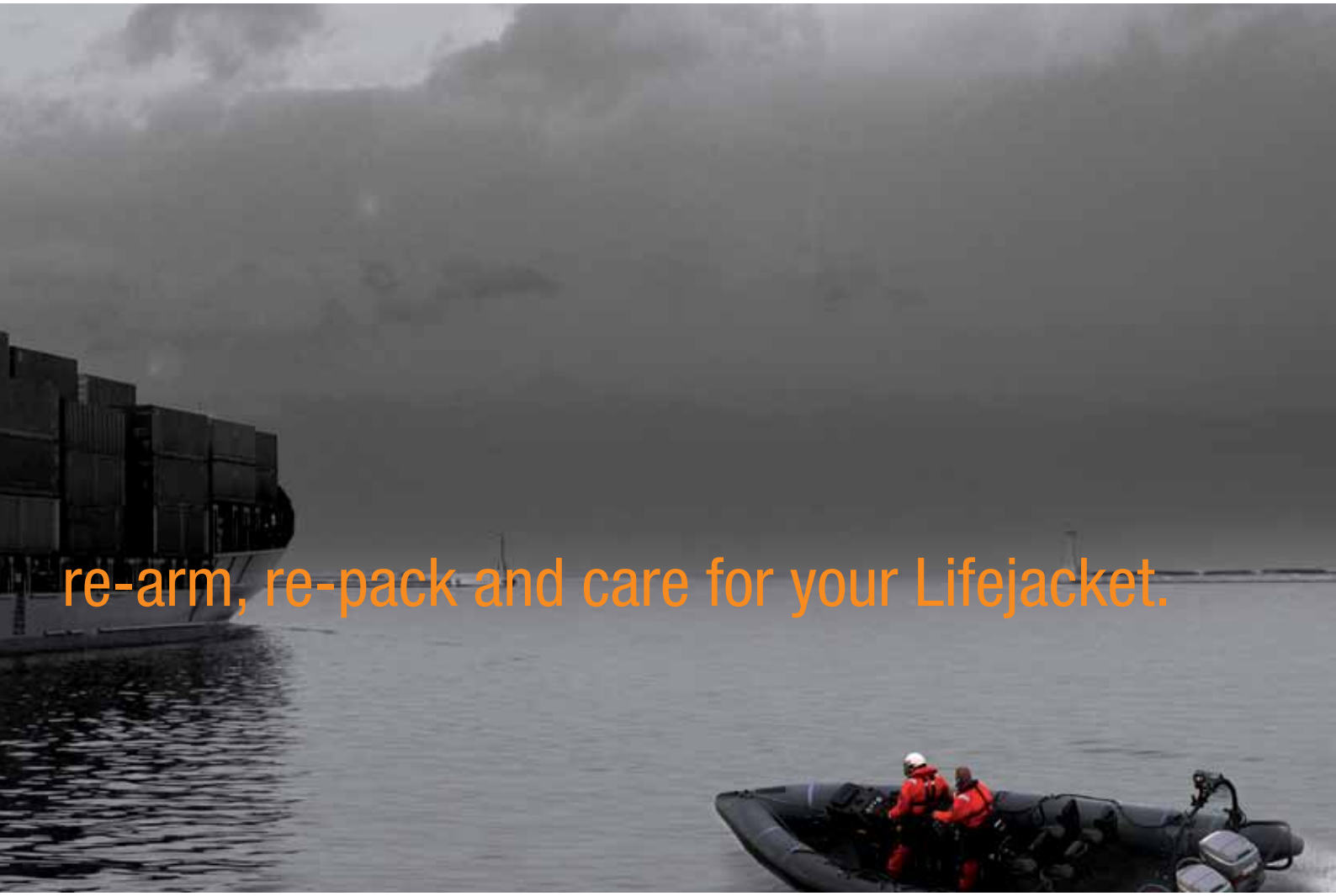
Mullion Hi-Rise 275N SOLAS
dot twin chamber lifejacket
with Hammar hydrostatic mechanism.

1.0 Maintenance schedule.

Only a responsible officer may perform the checks mentioned herein. All checks shall be recorded in an appropriate log - book. The records shall include the lifejacket serial number, date of check, and the last date of service (if applicable/ available).

2.0 Servicing/maintenance procedure at periods not exceeding 12 months!!

- The lifejacket should be visually inspected as per inspection check- list and the service requirements recorded.
- At 12 monthly intervals, or immediately if the lifejacket has been inflated or immersed in water, or load applied to harness/belt.



3.0 check list.

The following parts / areas should be checked:

- General materials / webbings / buckles / crutch-strap
- General stitching
- Zip & velcro fastenings
- Reflective tapes
- Automatic emergency light
- Whistle
- Automatic firing mechanisms
- Co_2 gas cylinders
- Oral inflation tubes / valves + full lifejacket inflation
- Buddy line

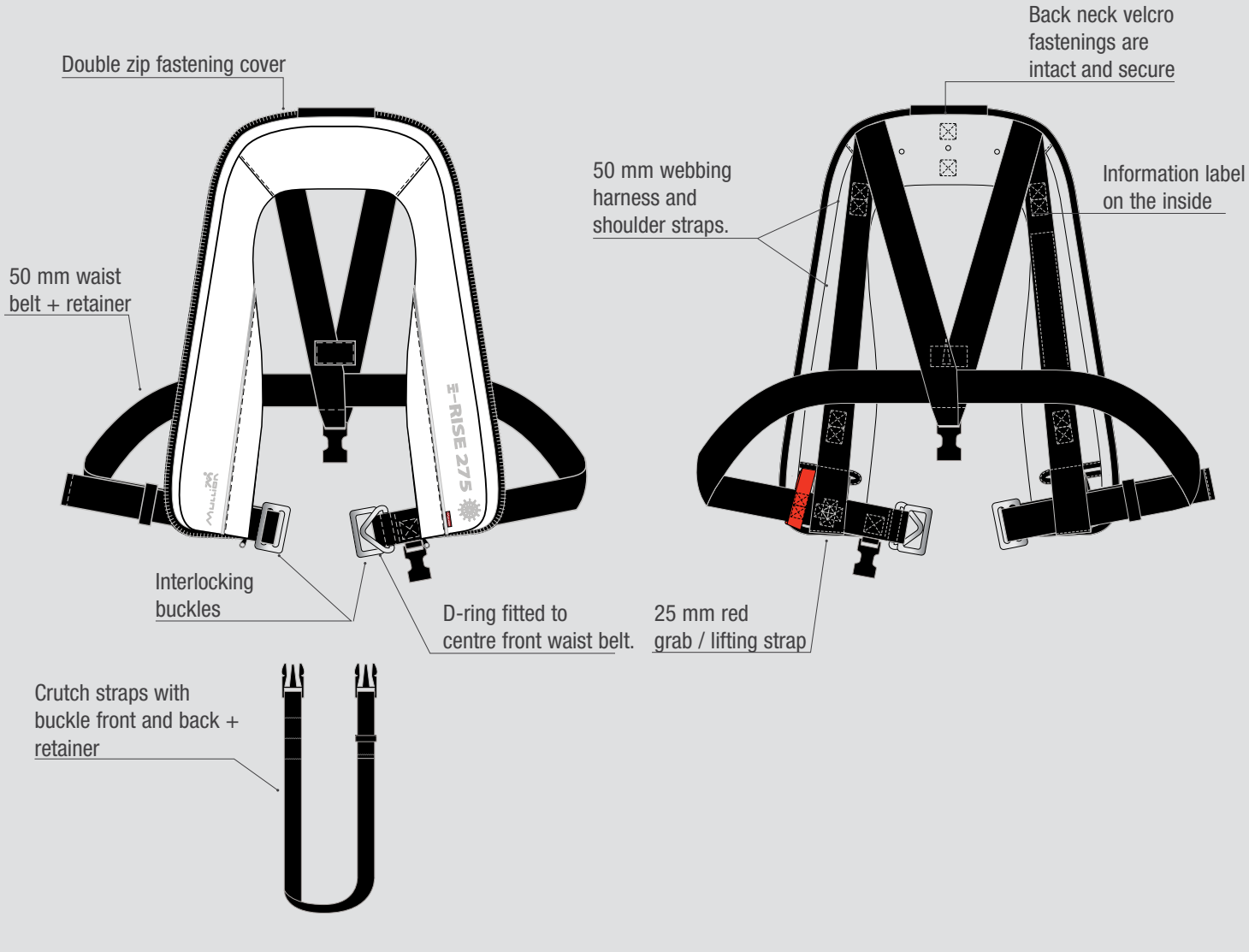
4.0 Service check procedure.

4.1 General check

- Check that the lifejacket stole and cover match exactly the diagrams as attached and that all component parts are present.

- Check for damage / tears to all materials / component parts / trim & accessories.
  Any defects return to distributor / factory for service
  Missing / defective crutch-straps can be replaced on board with new parts supplied by Mariteam.

Mullion Hi-Rise 275N dot twin chamber lifejacket with hammar hydrostatic mechanisms



4.2 General stitching

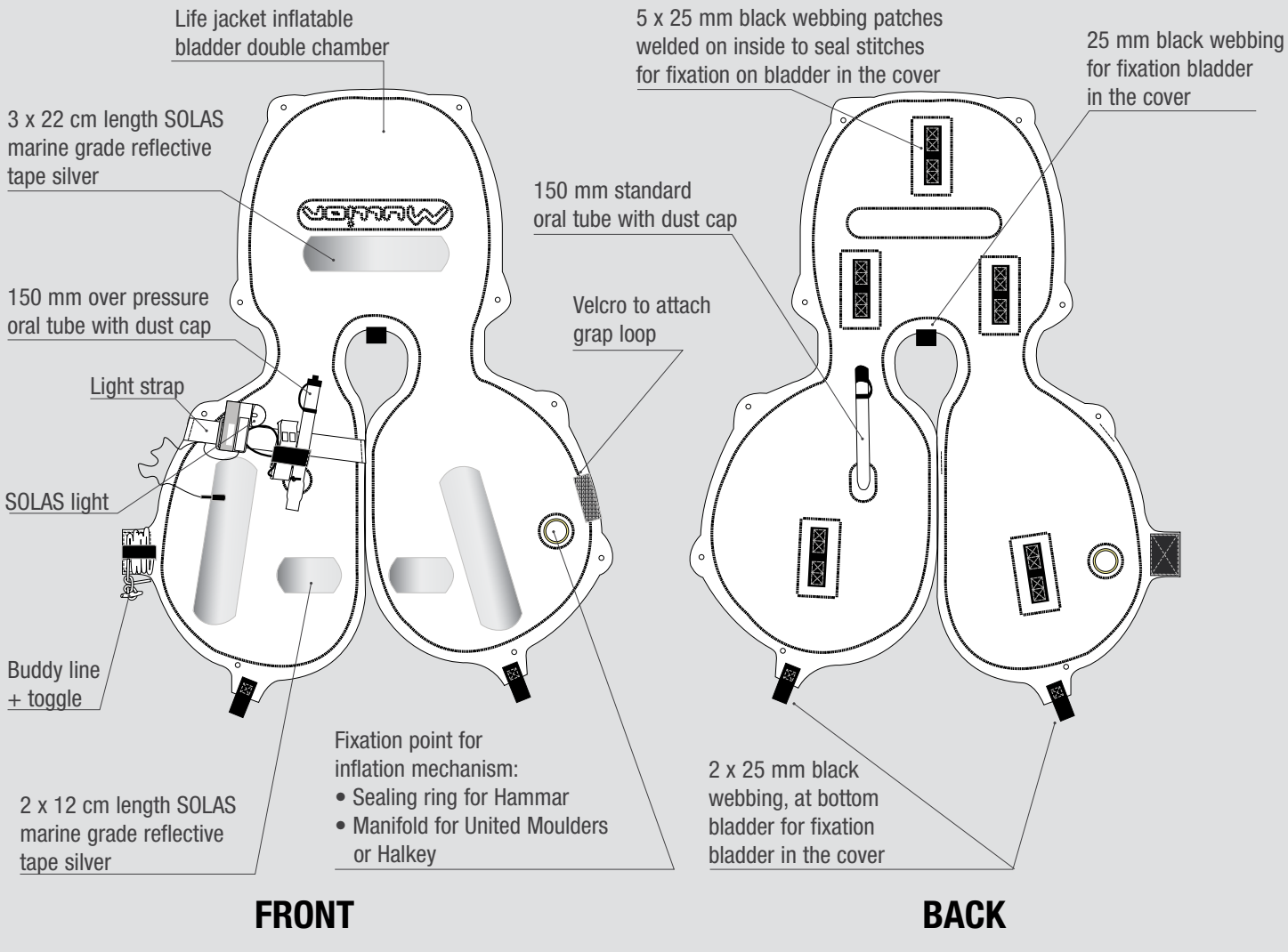
- Check all stitching are intact and secure.
  If any defects are observed – discard the lifejacket or return for service

4.3 Zips & velcro fastenings

- Check all zips and velcro fastenings are intact and secure.
  If any defects are observed – discard the lifejacket or return for service

4.4 Reflective tape

- Check all reflective tapes are in tact and adhered securely to the inflatable chambers.
  Any defects – replace with new reflective tapes supplied by Mariteam



4.5 Automatic emergency light

- Check light function by switching on manually & / or immersing in water and ensure light is securely fastened to inflatable chambers

Any defects – replace with new light supplied by Mariteam

Automatic emergency light

4.6 Whistle

- Check whistle is securely fastened to inflatable chambers and is functional

Any defects – replace with new whistle supplied by Mariteam

Whistle

4.7 Automatic firing mechanism

- Check date of mechanism has not expired
- Check that the mechanism window is not showing red
- Check that the manual pull handle has not been removed or partially pulled
- Check there is no damage to the mechanism body and back assembly

If any one of the above are found to not conform
Remove and refit mechanism by following hammar instructions as attached: reference diagram

Automatic firing mechanism

4.8 Co_2 gas cylinders

To check the cylinder, the hammar mechanism must first be removed as per the instruction attached and then unscrewed from the Hammar back assembly

1. Check the cylinder is not pierced or damaged in any way
2. Check the cylinder is not corroded
3. The cylinder is less than 10 years old

If any of these defects are found the cylinder must be replaced immediately and the old one discarded / disposed of (parts supplied by Mariteam).

Co2 gas cylinder

Neoprene sleeve

4.9 Oral inflation tubes/valves & full lifejacket inflation

To check this a full inflation test is required as follows:

- Check that both front and back oral tubes are intact, undamaged and black dust caps are fitted
- With compressed air equipment or a manometer and through the standard oral tube on the back of the inflatable chambers, inflate the rear chamber to 0.5 p.s.i. or 3.5 k.p.a.
- With the same equipment inflated the front chamber through the front oral tube with over pressure valve until the over pressure valve "blows off"
- Leave the lifejacket inflatable chambers, inflated for a minimum of 12 hours
- Check the inflatable chambers after 12 hours – if they are still at full pressure they can be deflated by depressing each valve in the oral inflation tubes at front and back and pressing down on the bladder to expel the air

If the inflatable chambers have deflated in any way after 12 hours the inflatable chambers must be rejected and returned to the manufacturer for an interchangeable replacement

4.10 Buddyline

Check if the corde of buddy line is intact and toggle is present.

5.0 General maintenance & cleaning

5.1 Cleaning of lifejacket

If any part of the lifejacket has been in contact with salt water or other contaminants such as oil, paint thinner it shall be sponged off immediately with amild soap solution. Rinsed with clean fresh water and hung to dry.

Do not immerse in water as this will activate the firing mechanism
Do not use harsh cleaning agents / chemicals / dry cleaning fluids
Do not place on direct heat to dry

5.2 Cleaning of CO_2 gas cylinders

Co^2 gas cylinders after use / contact with salt water can be cleaned by wiping with a cloth soaked in clean fresh water and then dried immediately afterwards (to prevent corrosion) with a clean dry absorbent cloth

6.0 Re-arming instruction

- *Before starting the re-arming instructions ensure you have the correct re-arming kit with the correct size of CO_2 cylinder, and that the life jacket is dry.*
- *Keep the re-arming kit away from liquids.*

① STEP 1

Lay life jacket (PFD*) on a smooth flat surface and wipe off any water. Hold the gas cylinder through the fabric with one hand.

** PFD: Personal Flotation Device*

② STEP 2

Insert metal key (a) as shown in 2a and turn the key counterclockwise (CCW) as shown in 2b between black locking ring (b) and labelled yellow cap.
The black locking ring will now turn counterclockwise (CCW).

③ STEP 3

Now turn black locking ring counterclockwise (CCW) and lift off cap. Dispose carefully of used cap in an environmentally safe manner.

** CAP: yellow inflator operating head*

④ STEP 4

Take out the inner body with the gas cylinder, through the sealing ring.

⑤ STEP 5

Undo the neoprene cover from the cylinder and now unscrew the back assembly of the inflation system from the gas cylinder.

Note: If hard to unscrew, hold the black inner body with a soft tissue/cloth and hold the cylinder with pliers or other holding tool. Dispose of used gas cylinder in an environmentally safe manner.

⑥ STEP 6

Reset the piercing pin by rotating the shaft in the inner body to a position where the underside monitor with eyelet surrounds the green dot in the centre of the indicator.

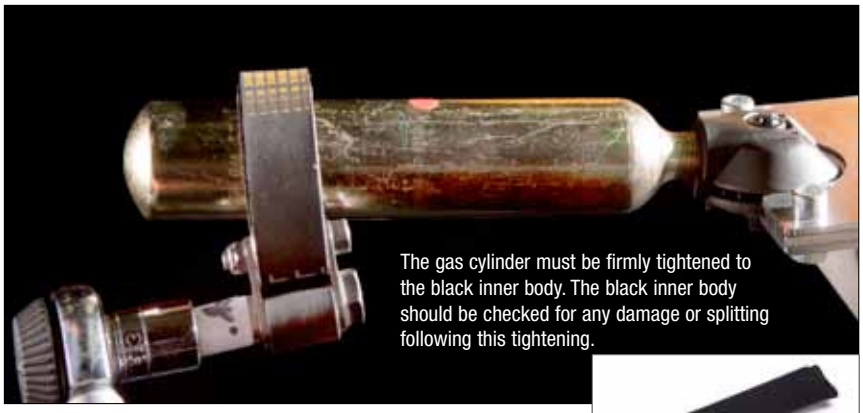
⑦ STEP 7

Carefully examine the top of the new gas cylinder to make sure that it is not punctured.

⑧ STEP 8

Screw the cylinder into the body and tighten it by hand.

⑨ STEP 9



Carefully slide the body into the bracket. Put the cylinder adapter tool on to the cylinder. Apply the torque wrench on to nut on the cylinder adapter tool and tighten the cylinder to a torque of not more than 10 Nm.

⑩ STEP 10

Reinsert gas cylinder and inner body with gas cylinder pointing upward inside the life jacket. Let the sealing ring rest on the central body around the four lugs.

⑪ STEP 11

Now check the automatic cap as follows:
Automatic:

Is red handle attached?
Is expiry date ok?
Window shows green?
If "Yes" is the answer to ALL these questions, then proceed to n° 12.

⑫ STEP 12

Hold the gas cylinder through the life jacket fabric. Take the replacement cap with the pull tab pointing in the opposite direction of the gas cylinder (i.e. down) and press it FIRMLY onto the inner body and sealing ring.

⑬ STEP 13

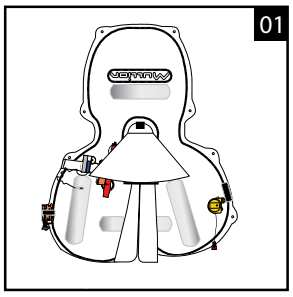
While pressing firmly onto the inner body, turn the black ring clock-wise until it snaps in the locked position.

Note: When the inflator is in its final closed position, the gas cylinder, the side of the yellow cap and the pull handle should all be in line vertically!

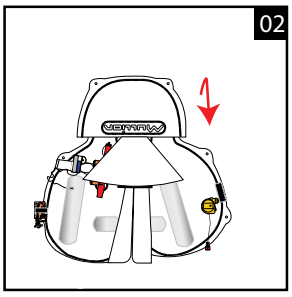
7.0 Re-packing the lifejacket

Once both the bladder and cover have been finally checked, the bladder is packed into the cover using the method explained below and visually depicted in the packing procedure illustrations.

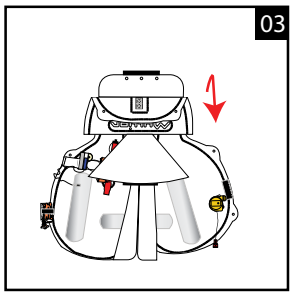
By using the folding method and fastening the buckles on the waist belt and crutch strap correctly, the bladder should work efficiently and open correctly when deployed.



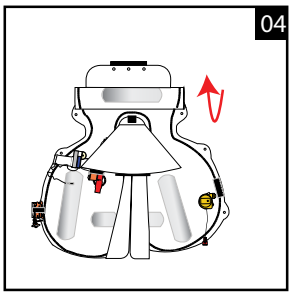
With the bladder laid flat on the table again proceed to fold and repack as per the illustrated diagrams as follows.



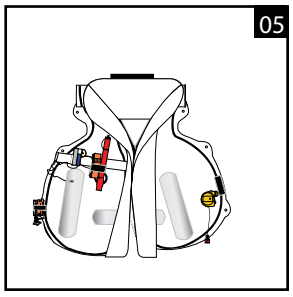
Fold hinge of bladder toward the neckline. Now the back part of the bladder should be laid flat.



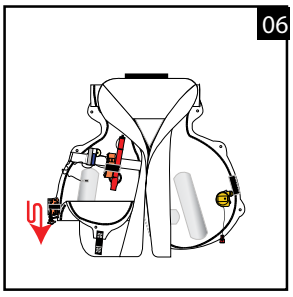
Fold the edge of the back part towards the neckline.



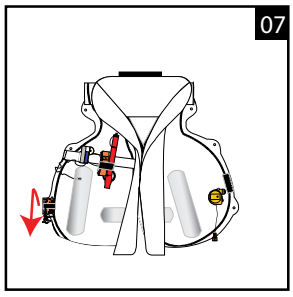
Fold the back part in 2 from neckline towards the outer edge.



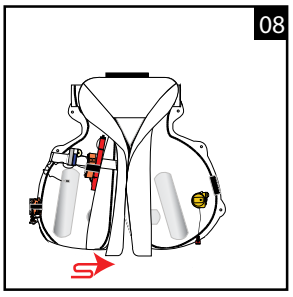
Close back neck velcro.



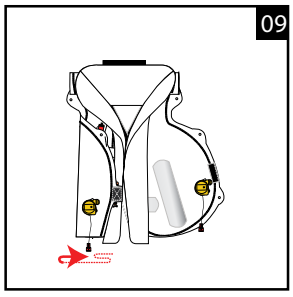
Fold the bottom part of the right side bladder lobe (as worn) away from the lower edge of the cover.



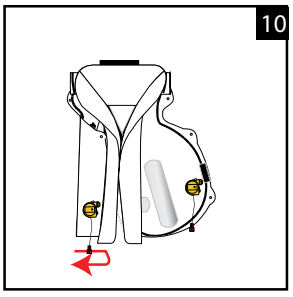
Fold the bottom part of the right side bladder lobe (as worn) back towards the lower edge of the cover.



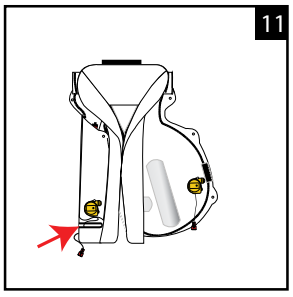
Fold the right side bladder lobe (as worn) at the centre front edge twice in concertina style.



Fold the right side bladder lobe (as worn) at the outer edge once toward the centre front.

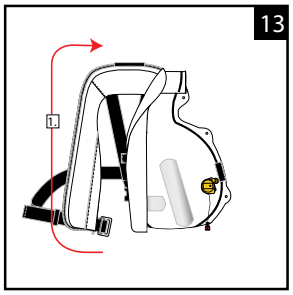


Fold the right side bladder lobe at the centre front (as worn) + buddy line half next to the inflator.

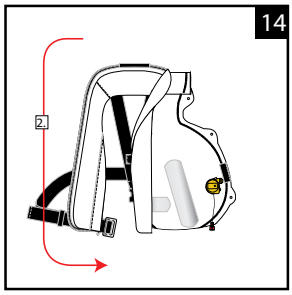


Position the inflator pull cord and handle out of the back slot in the cover ensuring that it hangs down freely at the back.

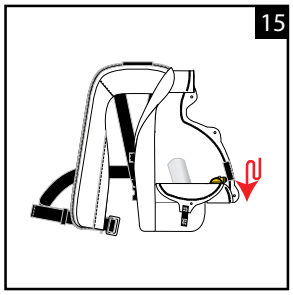
Fold the top corner outer edge down and in towards the centre front.



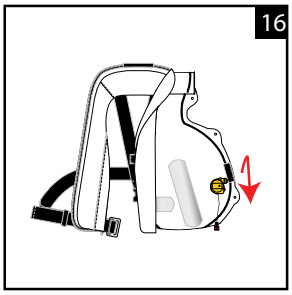
Using the zip slider, pull the zip all the way from the bottom centre front up to the top back neck and ensure that you pull it all the way to the end of the zip under the velcro and fasten the velcro securely back over the end.



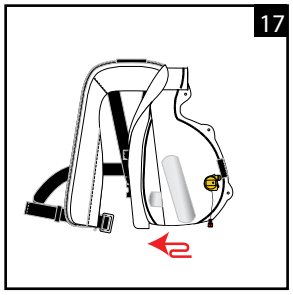
Then pull the zip slider all the way back down again to the bottom centre front. The zip should now be completely closed on this side and the bladder securely inside the cover.



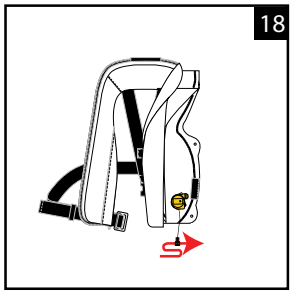
Fold the bottom part of the left side bladder lobe (as worn) away from the lower edge of the cover.



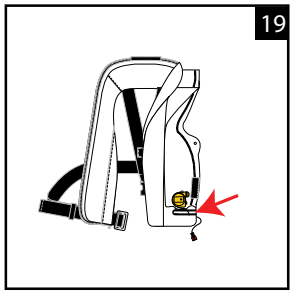
Fold the bottom part of the left side bladder lobe (as worn) back toward the lower edge of the cover.



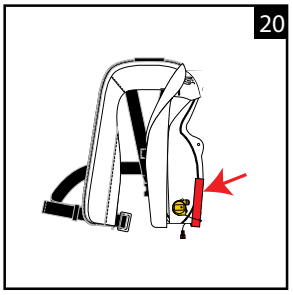
Fold the left side bladder lobe (as worn) at the centre front edge twice in concertina style.



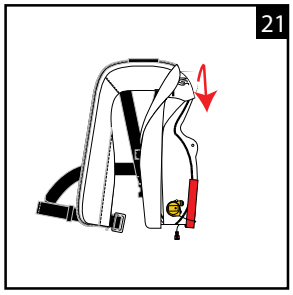
Fold the left side bladder lobe (as worn) at the outer edge twice in concertina style.



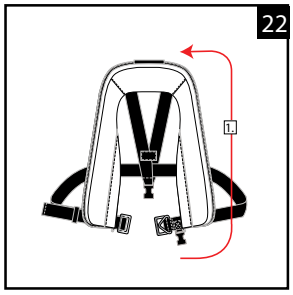
Position the inflator pull cord and handle out of the back slot in the cover ensuring that it hangs down freely at the back.



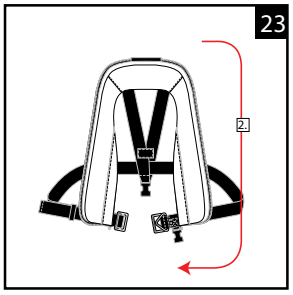
Attach the grab/lifting strap onto the velcro on the bladder.



Fold the top corner outer edge down and in towards the centre front.



Using the zip slider, pull the zip all the way from the bottom centre front up to the top back neck and ensure that you pull it all the way to the end of the zip under the velcro and fasten the velcro securely back over the end.



Then pull the zip slider all the way back down again to the bottom centre front. The zip should now be completely closed on this side and the bladder securely inside the cover.

Clip the crutch strap into the buckles on the centre back strap and left front belt

7 Storage

when not in use the lifejacket should be stored in a well ventilated room, not subject to extremes in temperature, extended periods of bright sun light, hydro carbon fumes, oils creases or concentrated ozone. The storage conditions must not be damp or extremely humid. the lifejacket must always be dry prior to placing in storage. Lifejackets held in store must be laid flat or hung from the neck aperture by suitable means. Prior to issue from store a visual inspection must be performed. A damaged lifejacket must be subject to the service / maintenance procedure before being issued for use or returned to the store. Providing the storage conditions are satisfactory the lifejacket may remain stored between service/ maintenance periods.

8 Spare parts list

Description: SOLAS S.O.S. light
Mullion part nr.: LLI00000U

Description: 60gr cylinder
Mullion part nr.: LCY030000

Description: Hammar auto front
Mullion part nr.: LIN01F000

Description: Whistle
Mullion part nr.: LWH030C10

Description: Hammar back
Mullion part nr.: LIN01B000

Description:Solas reflectors self-adhesive
Mullion part nr.: NR IRFQ50MOR 12CM
Mullion part nr.: IRFQ50MOR 22CM

Description: neoprene sleeve
for gas cylinder
Mullion part nr.: 1MZWA2YN3

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