

Lifejacket Quick Service Guide

UML MODEL

Deckvest 6D 170N / 275N

Duro + 275N



Issue 3

- Added zip slider replacement for 2022 dated models. P.24
- HRS Flap added for 2021 model onwards. P.30
- Updated MOB 1 installation instructions

Issue 4

- Added Duro + 275N Deckvest reference
- Added Ocean Signal PLB 3 fitting instructions

Issue 5

- Added note about recycling components. P.18

Issue 6

- Added pictures of cylinder corroding and pass reject information. P.19

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If you need any assistance with servicing please contact: prosupport@spinlock.co.uk

IMPORTANT LEGAL NOTICE
REGARDING USE OF DECKVEST SERVICE MANUAL

1. This Approved Service Manual ("Services Manual") is for use only by those persons at an Approved Deckvest Service Centre ("Service Centre") who have completed the appropriate Deckvest service training provided by Spinlock Ltd ("Spinlock") or one of its appointed training representatives ("Service Trainer").
2. Servicing of a Deckvest life-jacket may only be undertaken by Spinlock or a person who has received service training by Spinlock or a Service Trainer.
3. The procedures set out in this Service Manual must be followed in order to ensure the proper and safe functioning of the Deckvest life-jacket. If the procedures set out in this Service Manual are not properly followed and carried out there is a risk of accident or death.
4. It is the sole responsibility of the Service Centre to ensure that the service of the Deckvest lifejacket is carried out fully in compliance with the procedures set out in this Service Manual and in accordance with the training that they have received.
5. The signature or stamp on behalf of the Service Centre on a Deckvest Service Sheet shall be deemed to be the Service Centre's acknowledgment and confirmation that the service of the Deckvest life-jacket has been carried out in accordance with this Service Manual and the relevant service training.
6. Spinlock Limited (and its agents) reserves the right (but without accepting any obligation) to audit the procedures being followed by a Service Centre to ensure adequate standards and compliance with this Service Manual.
7. Save for death or personal injury caused by the negligence of Spinlock or its employees for whom it is liable, the Service Centre indemnifies and keeps indemnified Spinlock Ltd against any claims, demand proceedings, liabilities, damages or costs (including professional costs) incurred by Spinlock directly or indirectly as a result of or in connection with any failure by it or any of its employees or agents to comply with this Service Manual and the relevant service training.
8. Save for death or personal injury caused by the negligence of Spinlock or its employees for whom it is liable, Spinlock shall have no liability to any person, company or other organisation whether in contract, tort, negligence breach of statutory duty or otherwise for any loss damage, harm, costs or expenses of any nature whatsoever incurred or suffered by such person, company or other organisation arising from or in connection with any error in or omission from this Service Manual or the service training provided by it.
9. The contents of the Service Manual (including this notice) are governed in all respect by the laws of England and the Service Centre or any other user of this Service Manual consent and submit to the jurisdiction of the courts of England in respect of any dispute or matter arising from or in connection with this Service Manual or the service training provided by Spinlock.

DECKVEST 6D FEATURES



Service Station Requirements

Operations

Must be an established Lifejacket or Life-raft service station already or be approved by a relevant National body or have the relevant experience.

Trained and qualified staff must be available to undertake training from a Spinlock representative.

Commit to give full contact details to Spinlock and ensure that they are registered in the service area of www.spinlock.co.uk/service

Commit to checking Spinlock site for latest information once every 6 months and be available for auditing at Spinlock's request.

Facilities

Dedicated area and management system in place to manage the Service and record and file relevant details.

Have the correct and calibrated tools. These can be ordered from Spinlock if required.

Torque driver



DW-SV1

Digital scales



DW-SV2

Adaptor



DW-SV3

Process

Follow servicing steps as outlined in this document or the latest copy available to download from www.spinlock.co.uk/service

Complete the service log on the on the internal label.

Complete service certificate with approval stamp.

More copies can be downloaded from www.spinlock.co.uk/service



Jackets over 10 years old should not be serviced.

Through Life Support Programme

Spinlock require all life jackets to be registered to benefit from the security of our Through Life Support Programme.

Please ensure customers register their Deckvests online at www.spinlock.co.uk/RegisterYourDeckvest

Servicing steps

1: Harness and cover

The Servicing video can be found on our youtube channel or by scanning the QR code



Check all stitching for signs of wear or damage:

Locate manufacture date and serial number inside the cover, on the internal label.

Key stitching is in contrasting colours and located on the front of the harness.

Obvious damage, contamination or loose threads will make the harness unsafe.

Webbing:

Check for damage especially to the edge of the webbing and ensure the buckles are not bent or damaged.

If the buckles are damaged the harness will need to be replaced (contact Spinlock).



DW-BKL38 - Crotch strap buckle male replacement part

Check all webbing has been passed through all buckles correctly.



Correct threading of Deckvest 6D adjustment straps

Materials:

Check all materials for obvious damage, general wear should not be a problem.

If the damage can not be repaired by a simple patch, then the cover will need to be replaced. If you are concerned about the affect of the repair on the functionality of the Deckvest contact Spinlock.

Zip:

Open the jacket fully by the yellow break section on the zip.

Check internal sewing especially the connection points for the bladder.

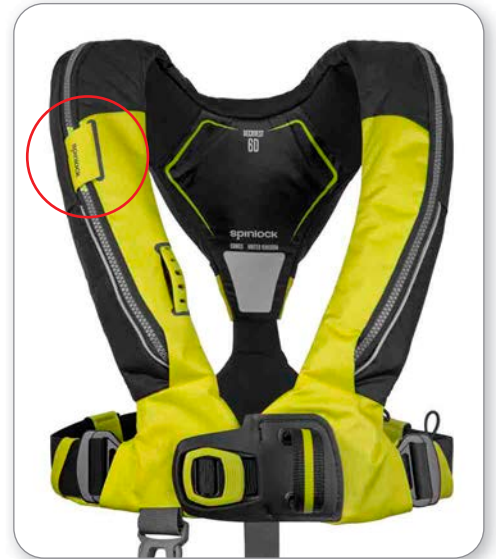
If there is damage to the teeth of the zip then the cover will need to be replaced (contact Spinlock).

If the zip puller is damaged or missing, this can be replaced see Page 22.

2: Quick Burst Zip Information

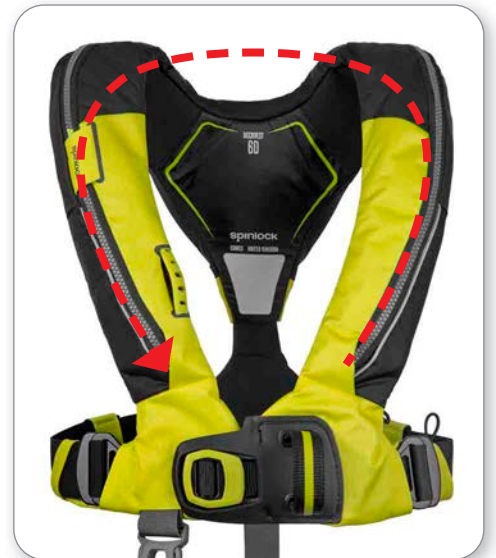
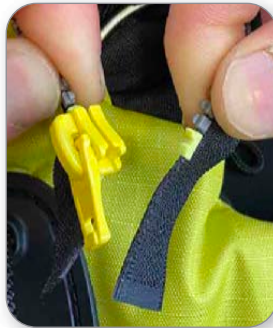
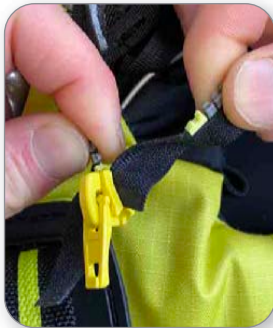
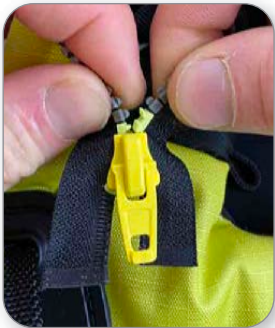
1.

Open the QBZ section of zip and pull zip apart all the way around Deckvest



2.

Pull zips out and separate.
Take yellow zip slider (RH side) to opposite side



3.

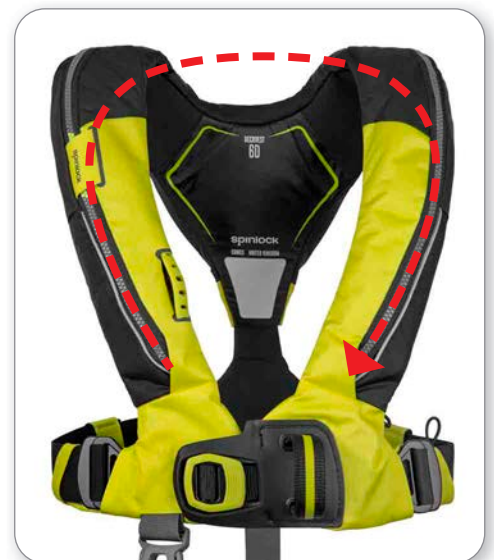
Once zip sliders are on same side the zips can be joined together



4.
Take the top yellow slider and start to zip up,
closing the zip flap once passed.



5.
Take the yellow slider and zip round to opposite side



6.
Tuck zip ends into cover



Deckvest Fitted with Ocean Signal MOB 1 AIS Device

The Ocean Signal AIS MOB1 device, can be fitted to all models of Spinlock inflatable lifejacket. If there is an AIS unit fitted, this should be removed before the inflation test to avoid the unit activating.

Use cord lanyard to attach the unit to the jacket in case it is pulled off the oral tube during the inflation.

AIS MOB 1 Fitting Instructions

- 1 Thread ribbon end through oral tube bracket.



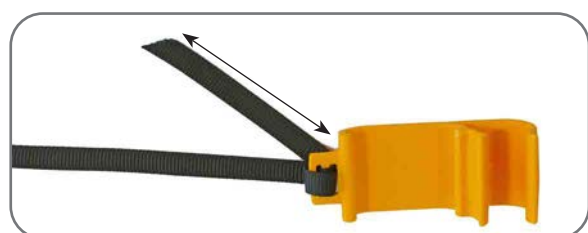
- 2 Thread back up through second hole towards outer edge



- 3 Thread back through inside hole

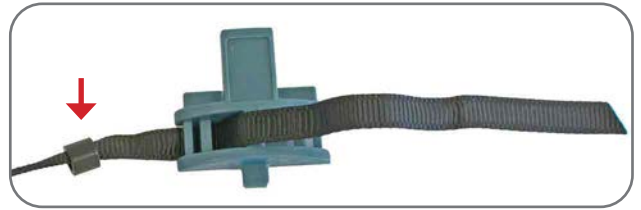


- 4 Leave 60mm on tail from end of plastic



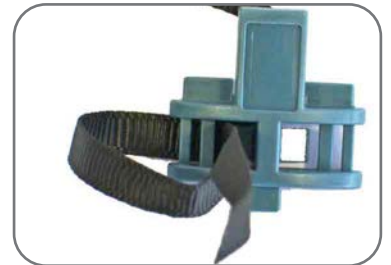
5

Slide toggle on to ribbon and pass ribbon through inside hole on grey plastic activation slider



6

Wrap round and pass through inside hole again



7

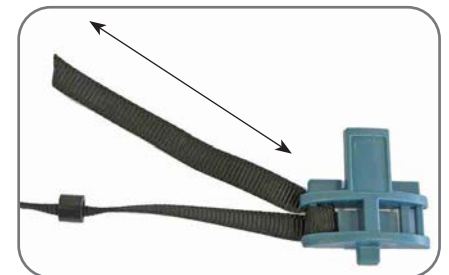
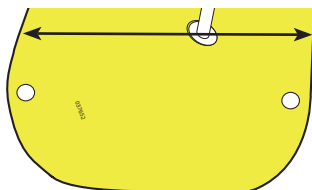
Pass ribbon through outer hole



8

Leave roughly 60mm of tail

Length of ribbon should roughly be the length from bladder weld to weld



9

Slide tail through toggle



10

Attach slider to MOB 1



11

Place toggle into gap on the slider



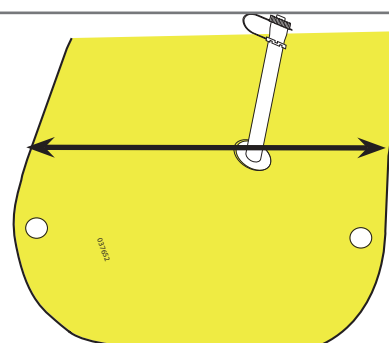
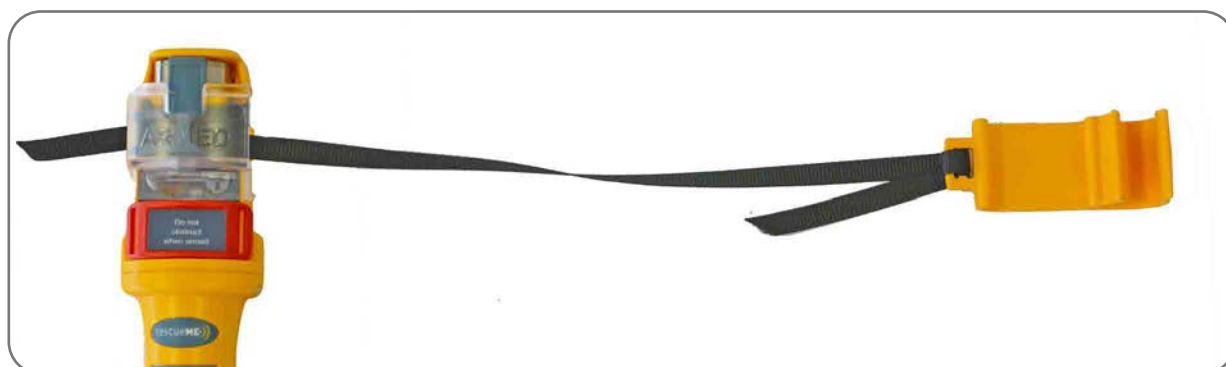
12

Attach plastic cap to MOB 1 unit



13

Double check the ribbon measures no longer than the length of the weld to weld on bladder



14

Pass oral tube bracket underneath bladder and attach to oral tube

Clip MOB 1 Device to oral tube bracket. MOB 1 device should be fitted to the outside of the oral tube



15

Thread the safety lanyard from MOB 1 unit through the webbing in the lower right bladder connection toggle and secure with a knot.

This ensures the unit does not become detached when the bladder inflates.



Fitting video available at www.spinlock.co.uk/aismob1

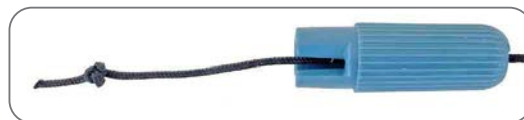
Deckvest Fitted with Ocean Signal PLB 3 Device



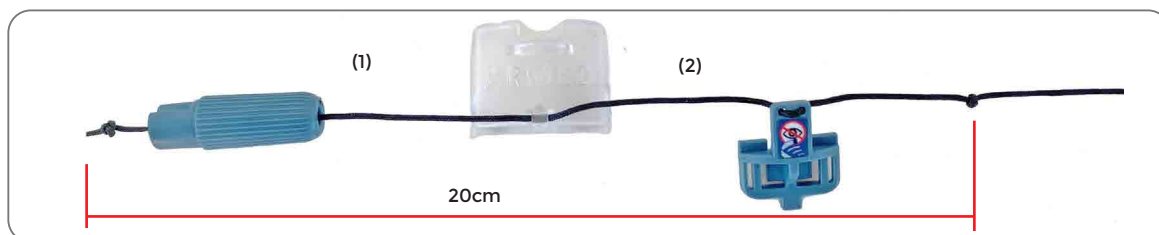
Before fitting, release the antenna and then turn off the PLB3 by pressing the TEST/OFF Key until the LED flashes red twice and release.



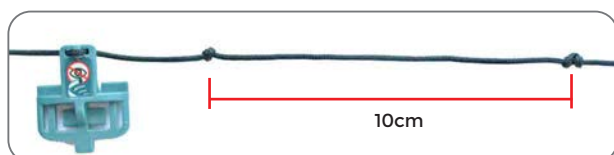
- 1 Thread the cord through the end of antenna rewind tool. 2 Tie a figure of eight knot in the end so the cord cannot come out.



- 3 Thread the cord through (1) the activation 'armed' cover, and (2) the activation slider. Tie one figure of eight knot 20cm from the end of cord.



- 4 Tie another figure of eight knot 10cm from the first knot.



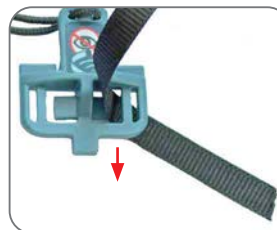
- 5 Thread the cord through the slot on back of the PLB unit.



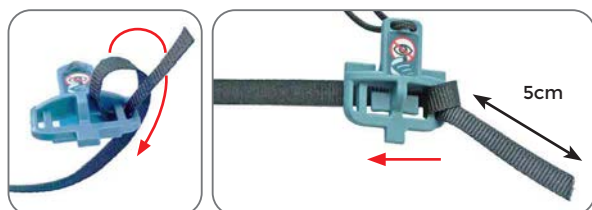
- 6 Tie another figure of eight knot in the end to stop the cord coming back through.



- 7 Take the activation slider and thread down through the inner slot then back up through the outer slot.



- 8 Leave 5cm of tail and then run the ribbon from inner slot underneath the activation slider.



- 9 Insert the antenna into the top and place the rewind tool into the antenna end. Wind the antenna anti-clockwise with the tool until the antenna is fully coiled. Do not remove the tool until the slider is in place.



- 10 Place the activation slider onto the PLB unit. Slide from left to right. Check the cord is not tangled up in the slider.



- 11 Move the Red Arming Slide up, so the activation slider does not come off when fitting the PLB unit to the lifejacket.



- 12 Add the PLB 3 clip below the whistle attachment. PLB 3 is fitted on the outer side of the oral tube.

Replace the oral tube cap if taken off.



- 13 Position the PLB 3 close to the oral tube bracket. Run the ribbon underneath the bladder and underneath the bladder.



- 14 Once the ribbon has passed underneath the bladder, pass the ribbon through the bottom slot and back through the middle slot on the PLB 3 unit.

Tighten the ribbon. Test for tightness by ensuring you can freely insert a finger in between the tape and the bladder.

Clip the PLB 3 unit on to the oral tube bracket.



- 15 Check the ribbon is not caught around the oral tube or whistle. Move the Red Arming Slide down to unlock and place the plastic activation cover over the unit.



- 16 Run the cord down on the outside of the cover, making sure Pylon is sitting above the PLB 3 ribbon and cord.

Secure to the bottom bladder toggle webbing. This is to ensure the unit is always attached to Deckvest.

Note:

Leave as much length as possible on the cord to allow room for the bladder inflation.



3: Inflation test for the UML Pro Sensor®

Must be conducted in a controlled service area to ensure no damage to the bladder, and kept at stable temperature.

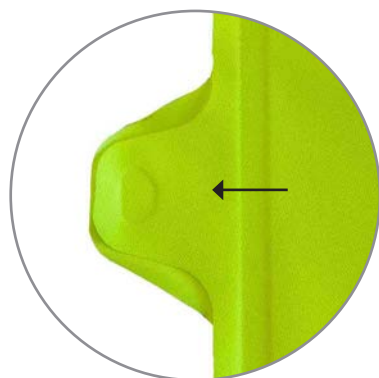
- A. Remove cylinder and firing cap, inflate through the oral tube with clean dry air (airline or similar) until firm and lobes are touching. Approx 2 psi (14 kPa).
- B. Leave cap off the oral tube whilst testing.
- C. Leave standing for 24 hrs in a temperature stable environment. If more than a slight softening (approx. 10%) the bladder must be replaced. Pressure monitoring can be carried out over a 6 hour period to check for leaks.
- D. Remove air from the bladder using suction - do not squeeze or crush bladder.



The bladder can be replaced if damaged – see page 13 for Bladder identification instructions.

3.1: Bladders

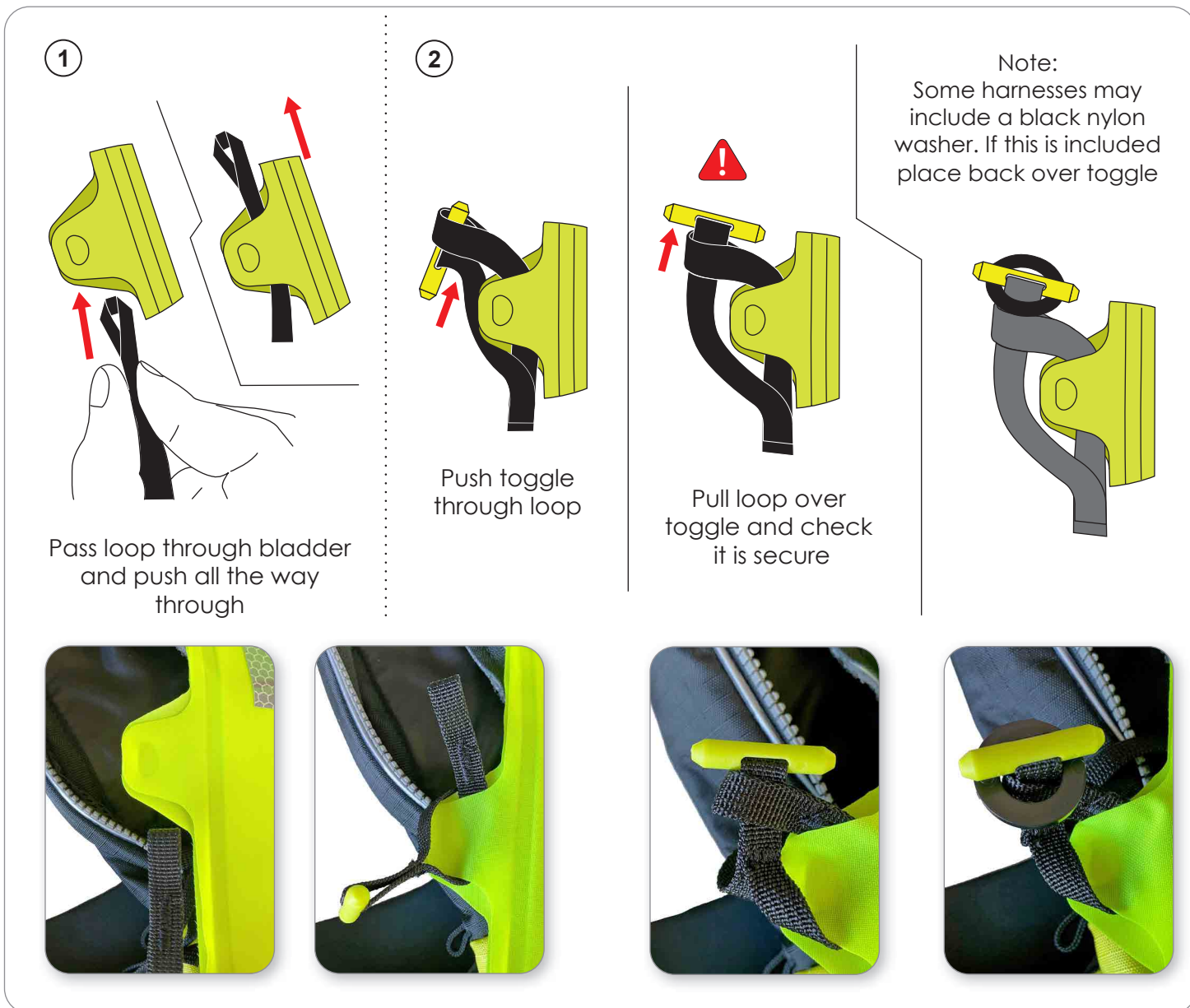
Check the 5 attachment points for any signs of tears or wear around the weld area.



If replacing a bladder make sure it passes through the bladder retainer strap and Pylon strap.



Fitting a bladder to the cover



Replacement bladders are available

170N

DW-BLD/170UML/3 - Bladder

DW-BLD/170UML/2 with **DW-UPS/F** - Bladder with fitted UML Pro Sensor Elite unit

275N

DW-BLD/275UML/2 - Bladder

DW-BLD/275UML/2 with **DW-UPS/F** - Bladder with fitted UML Pro Sensor Elite unit

3.2:

Components for the UML Pro Sensor® Elite firing head

The Deckvest 6D uses the UML Pro Sensor Elite in conjunction with a plastic manifold on the bladder.

A Torx bolt is used to secure the firing unit to the manifold. Check that the firing mechanism is tightend to the manifold with a force of **3nm** using a calibrated tool.

Firing Heads

DW-UPS - UML Pro Sensor Elite Firing Unit



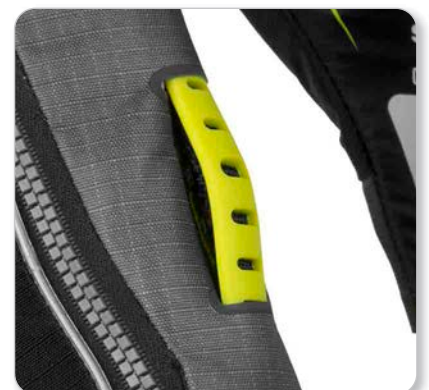
Each Automatic capsule is stamped with an expiry date (see www.uml.co.uk for full details).

To remove the automatic cartridge, unscrew in an anti clockwise direction.



DW-UMLE - UML Pro Sensor Elite Firing Cap

1. Check that there is no damage to the lanyard and handle.



2. Ensure that the cutting pin moves freely in the body.

Up



Down



3. Ensure that the cylinder sealing gasket or O ring is in place.

DW SV06 - Replacement Cylinder O Ring for yellow UML Mk5 and Pro Sensor



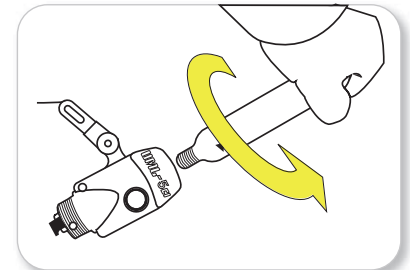
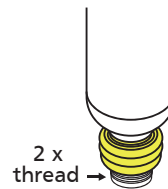
Cylinders

33g CO₂ cylinder 170N

60g CO₂ cylinder 275N

Unscrew the cylinder anti-clockwise to remove it

Spinlock fit yellow retainers to the cylinder on all 275N models. Replace if worn.



Cylinder Corrosion

Examples that pass quality checking

If the cylinder has slight marking as per fig. 1 then this is acceptable and does not need to be replaced.

The cylinders are designed to have a coating, which degrades first before the inner layer corrodes, to protect the cylinder.



Fig. 1

Examples that fail quality checking

If the cylinder coating has deteriorated and corrosion has started to occur as per fig. 2 then this should be replaced.

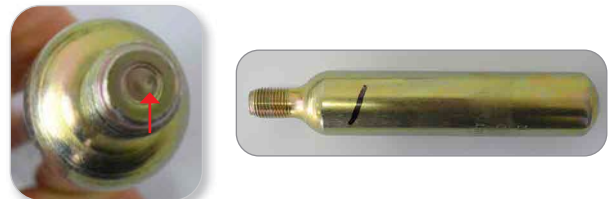
Fig. 2



Check cylinders seals have not been slightly weakened at the end by unintentionally pulling the manual handle. This could cause the cylinder to release during temperate changes.

Add a strike mark on the cylinder to show it has been checked

If yellow retainer is fitted replace on service.



- Check labelling on side to ensure it is correct gas and specification

33g for 170N

60g for 275N

Check total weight against specification stamped on the bottle.



For any items that have been replaced, Please place any items that are recyclable in to correct waste bin for recycling. This is inline with our Waste and ESG policies

3.3: Components

Oral tube

Check that the bladder can be inflated through the oral tube and that there is no debris in the tube.

Spare Cap: DW-SV07

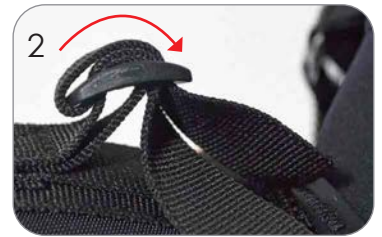
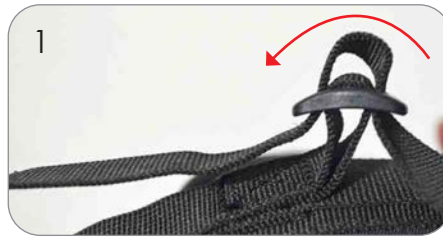


Sprayhood

Check attachments are secure and that there is no damage to the window.

Sprayhood can be replaced if damaged. Contact Spinlock

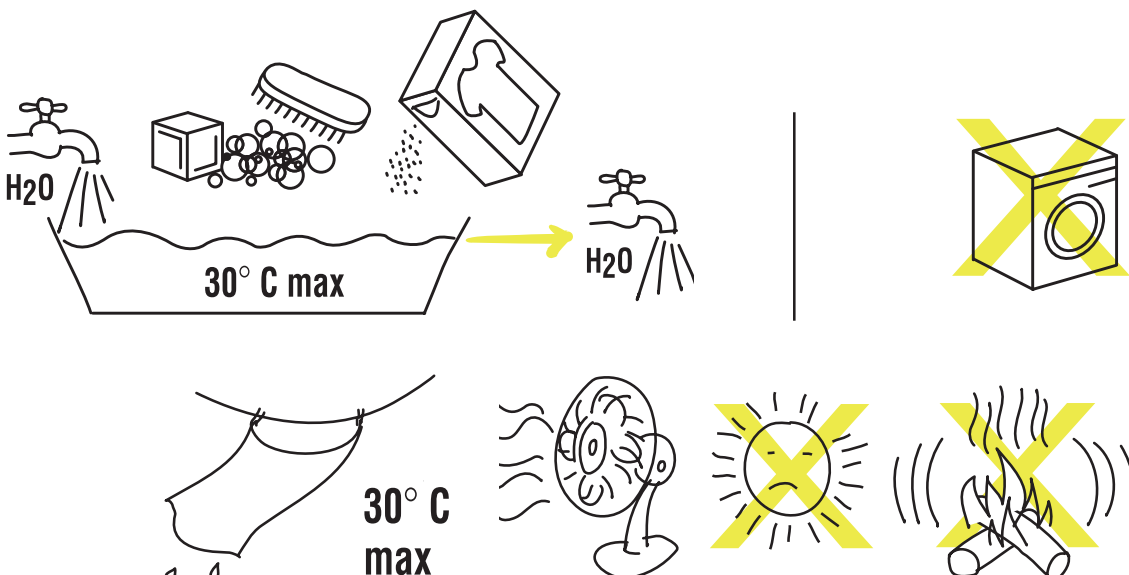
1. Thread webbing through buckle at the back of neck
2. Thread webbing back through to secure.



4: Cleaning

If the product requires cleaning, remove cylinder and automatic components and clean by hand. Wash with mild detergent, Rinse in clean water maximum temperature 30 degrees. Dry in a ventilated area away from direct sunlight or heat. Avoid use of solvents or strong chemicals which could damage the components.

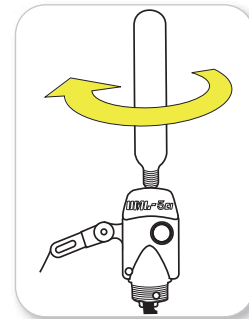
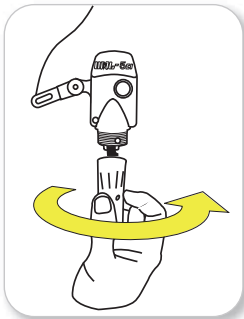
Bladder can be removed and the cover section washed separately



5: Re-attaching components and arming the lifejacket

1. Check that the firing mechanism is tightend to the manifold with a force of 3nm using a calibrated tool.
To replace the parts you will need: DW-RAK/E
2. Take a new automatic cartridge, (ensure that the expiry date is a minimum 2 years away) and screw on to the inflator head in a clockwise direction.

Screw on tight ensuring there is no gap between the cartridge and the inflator.
3. Check that the cylinder sealing gasket or O ring is correctly fitted and screw in the new cylinder in a clockwise direction.



The Cylinder must be tightened firmly by hand to ensure that it will not work loose

Ensure that both indicators are showing green.

4. Ensure cap is on the Oral inflation tube, the whistle and light are in place and that the Sprayhood is securely attached.

Complete service log on the bladder or in the label with a permanent waterproof pen. Show the date that the service was completed.



6: Pylon

1. Check the light functions

Press and hold the test button for 3 seconds until the light flashes

Pylon will automatically switch off when button is not pressed



Replacement light for all Deckvest Models: **DW- PY/L1**

Take the Pylon stalk and place through the strap hole



Pull the stalk through and attach the stalk bottom to the strap



Pylon stalk needs to curve inwards

(Spinlock Logo on the outside)



- \\ Lume-On™ lifejacket illumination lights are water activated.
- \\ LED lights illuminate the lifejacket bladder to increase visibility.
- \\ Battery life - 6 hours (minimum 2 hours flashing at full intensity).
- \\ Lifejacket and bladder must be thoroughly dry before attaching the Lume-On™ or the stickers will not bond.
- \\ Fitting the Spinlock Lume-On™ could change the performance and warranty of your lifejacket, please contact your lifejacket manufacturer for clarification if you are unsure.

All Spinlock lifejackets are approved for use and fitting with the Spinlock Lume-On™.

1. Make sure your lifejacket is clean and dry before application.

Open the lifejacket to expose the bladder. Unpack your lifejacket following the manufacturer's instructions.

If attaching to a used lifejacket, wipe the bladder area for attachment with a damp cloth and leave to dry. Salt and other contaminants will affect adhesion.



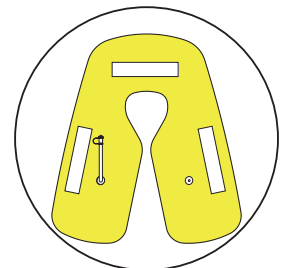
2. Turn the bladder over, you do NOT need to remove the bladder from lifejacket.



3. Lay the inflatable bladder on a table, as flat as possible.

The two lights bond directly onto the underside of the inflatable part of your lifejacket.

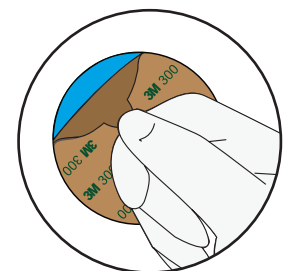
The Lume-On™ can only be attached to lifejackets with a separate inflatable and cover construction.



4. Remove one of the Lume-On™ stickers from the packaging, remove the backing paper. Stick the Lume-On™ to the bladder in a position:

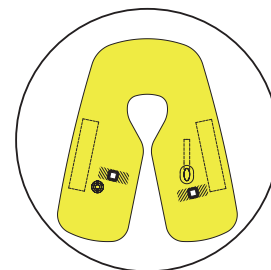
- a. Clear of any toggles or straps.
- b. Clear of any bladder folds or creases.
- c. Where it will make contact with the water when inflated.

Ensure the positioning will not affect the packing of your bladder. Repeat process for the other side.

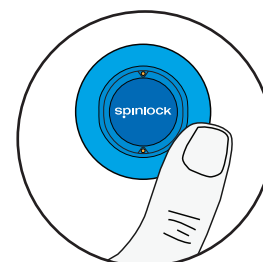


5. Stick each Lume-On™ to the bottom of the back of the bladder lobe, in the area pictured.

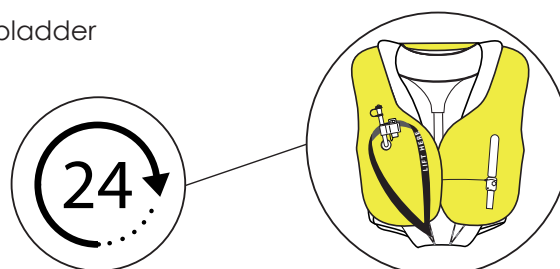
Press firmly.



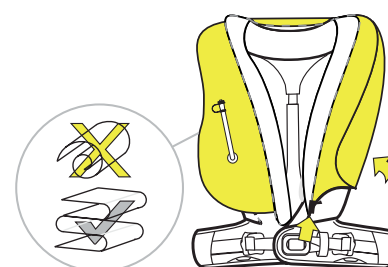
6. Make sure the Lume-on is well stuck on the bladder by applying finger pressure all around the sticker.



7. Leave the jacket for 24 hours to let the sticker adhere to the bladder before re-packing.



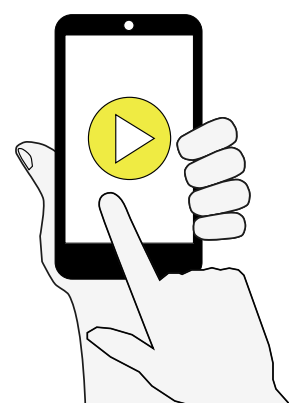
8. Re-pack the lifejacket after 24 hours referring to the manufacturer's instructions.



9. Lume-On™ positioning on other lifejacket brands may vary.

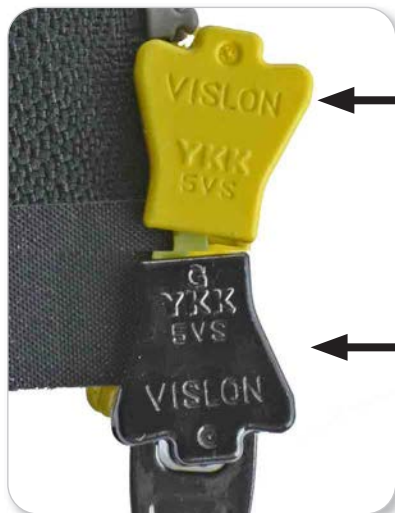
For best results inflate the lifejacket using the oral tube and position at the bottom of each chamber where the lobe would be in the water.

Watch the instructional video at www.spinlock.co.uk/Lume-On



7: Zip Slider Replacement - Pre 2022 dated products

Correct Zip position for a double puller zip.



Top yellow slider

This one is used on a single zip version -

Bottom slider

Note the orientation of the word VISLON - It is very important to put the correct sliders in position or the zip will not function correctly.

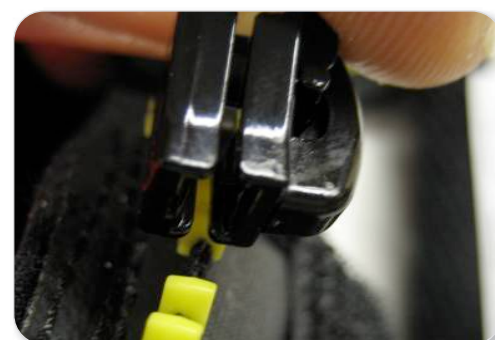
DW- ZPL - Zip Slider Pack

-
1. To remove or replace a slider

Select the centre tooth (7th)
On outside of the zip chain
and remove using a pair of
thin nose pliers.



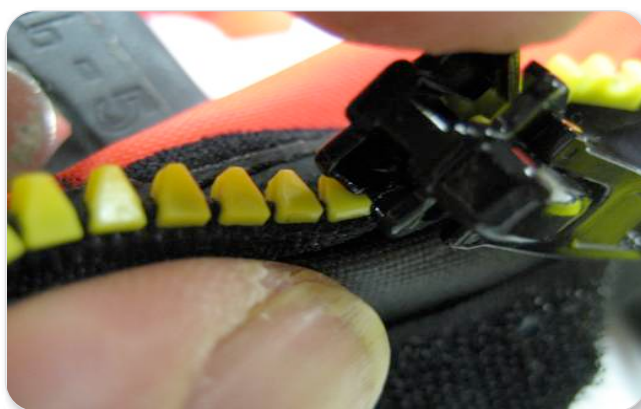
-
2. If removing a broken slider
move the slider to the gap,
tilt the front end up and
pull through.



3. Position the carriage onto the zip material and against the next tooth.



-
4. Tilt the teeth in front of the zip to one side.



-
5. Pull down and backwards on the zip carriage keeping the other teeth out of the way.

The carriage should slide onto the track (some force may be required).



-
6. Slide the carriage back over a few teeth to ensure it has engaged properly.



Zip Slider Replacement - 2022 dated products onwards

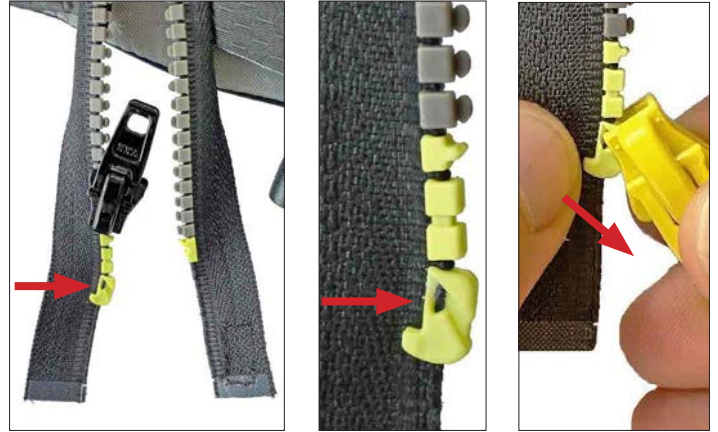
1. Open zip up from the quick burst zip section.

Take remaining zip slider and run round to the side opposite the firing head.

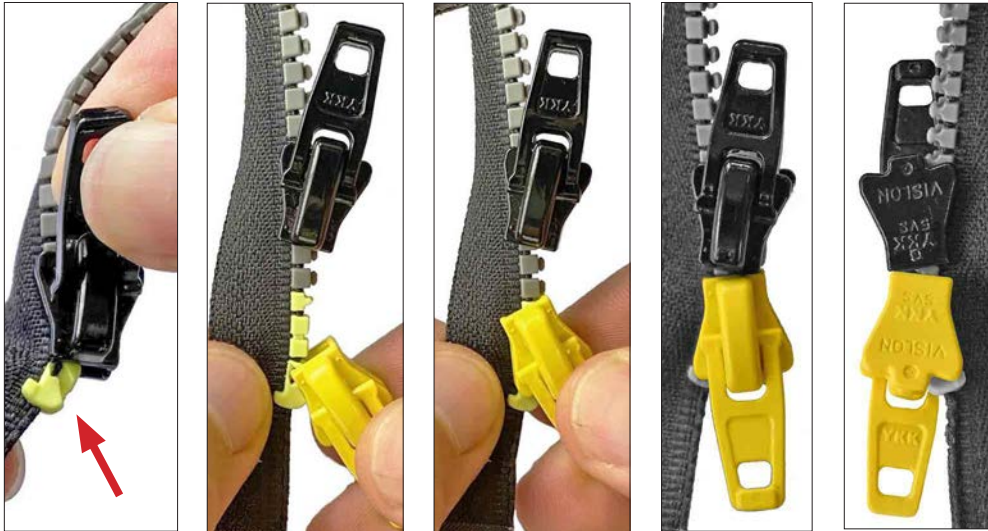
Check which slider needs replacing.
You will need to remove the yellow slider if the black slider needs replacing.

There is an angled slot which the zip slider can slide out of on the left section of the zip.

Note: If there is not, you will need to follow the instructions for removing a yellow tooth from the QBZ section.



2. Take the black slider and slide onto the zip end first followed by the yellow slider as per picture. Check orientation of the sliders are correct.

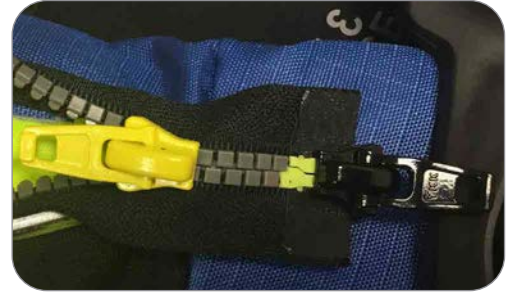


3. The zips sliders can now be run round to the firing head side and joined together to start the zip.



8: Repacking

To pack the deckvest firstly join the two zip pullers together and start to move the top zipper so the zip starts to join



Certain models have two foam pads and the firing cap needs to be placed on the pads. Make sure firing unit trigger is on top of binding when packing deckvest

Make sure handle cord is not tangled or caught



Lifting strap always runs outside of harness, never between the toggles



The packing stage of the bladder is completed in three pleat stages, following the three reflective stripes.

Pleat 1

Concertina the bladder in starting the firing unit side

Fold up bladder end and tuck into harness



Make sure lifting loop is attached to the strap at the shoulder section via press stud



Pleat 2

Concertina the bladder on top section



Make sure sprayhood comes underneath bladder

Place clear part of the sprayhood back into back panel



The yellow part of sprayhood needs to be placed on top of the bladder



Fold the bladder corners in so it sits neatly and continue to zip round

Avoid packing sprayhood over shoulder area



Pleat 3

Concertina the bladder over the oral tube and whistle, to avoid them protruding at the top of the cover

Pylon light should be placed next to the oral tube making sure nothing is caught or wrapped around the stalk.

Pleat the bladder over the Pylon, oral tube and whistle



Important

Zip towards the last section

The bladder must be folded on top so that it inflates correctly

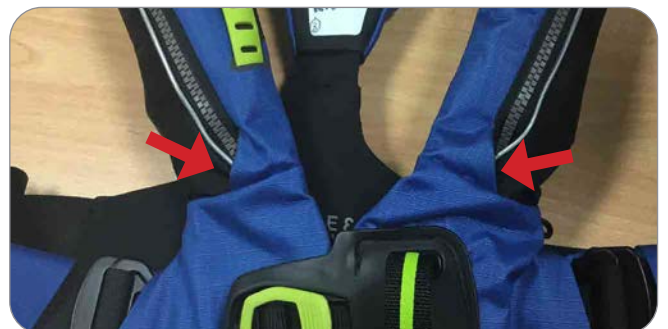


Tuck bladder end into harness end

Place pylon body on top of the bladder



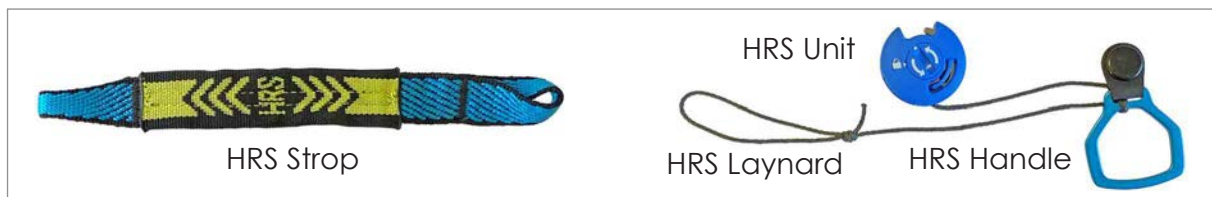
Once finished tuck the zip ends back inside cover on both sides



Reshape the deckvest, align the Pro Sensor Elite indicators to the window.



8: Harness Release System Fitting Guide

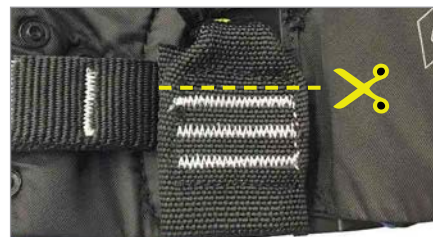


Replacement parts **DW-HRS/6D** - Harness Release System Kit
 DW-HRS/6D/STROP - Strop only

- 1) Open the flap on the back of the belt section.
Cut the harness loop out.



Harness loop cannot be replaced once cut



- 2) Attach HRS unit to Deckvest.

Pass laynard
through loop



Pass HRS unit and Handle through the Laynard
and pull tight.
This secures the unit to the Deckvest.



- 3) Push HRS strop through the open slots.
HRS text right way up.



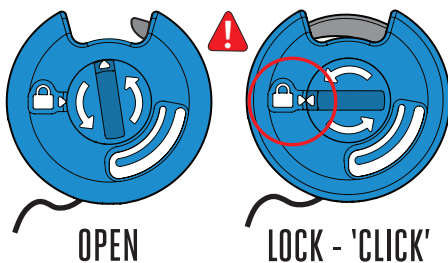
- 4) Pass the top part of HRS strop through the large bottom loop.

It helps to push the strop through the opening further when fitting.

Place the HRS units pin through the loop in strop.



- 5) Use handle on its side to turn the dial to the left, so that it clicks into the locked position.



If you have made a mistake during the fitting process, pull the handle to release the HRS unit. Do not turn lock mechanism back as it will not release.



Check HRS unit is locked before using
You will feel a secure click when fully closed



- 7) Fit the handle to the press stud and close the flap.



8) 2021 models onwards use a separate flap that needs to be secured to the belt.

Place the tabs on the flap into slots on belt buckle area



9). Fix handle to press stud and close flap, securing via the two press studs on belt



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managment system
is accredited to
ISO 9001 : 2015



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