

COMBAT SWIMMER HARNES



TECHNICAL MANUAL

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COMBAT SWIMMER HARNESS (CSH) TECHNICAL MANUAL, P/N 769133
CSH P/N 495506

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Warnings, Cautions and Notes:

Pay special attention to information provided in warnings, cautions, and notes, that is accompanied by these symbols:



A **WARNING** indicates a procedure or situation that, if not avoided, could result in serious injury or death to the user.



A **CAUTION** indicates any situation or technique that could cause damage to the product, and could subsequently result in injury to the user.



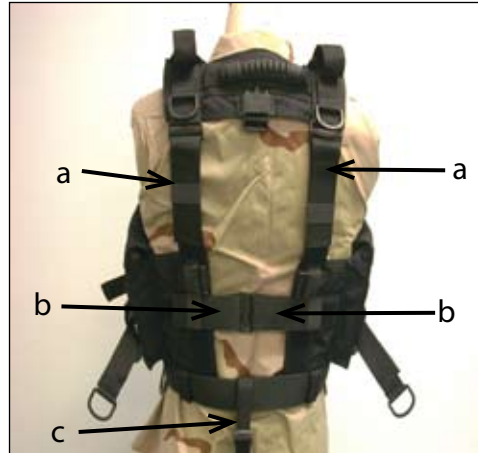
A **NOTE** is used to emphasize important points, tips, and reminders.

CONTENTS

CHANGE RECORD.....	4
FEATURES.....	5
CHS Sizing Adjustments.....	5
UBA Attachment	5
Surelock Weight System	6
MK 25 Attachment	7
Equipment Attachment	8
CSH DONNING / ADJUSTMENT PROCEDURES.....	9
PRE-DIVE CHECKLIST	10
POST-DIVE CHECKLIST	10
MANUFACTURER'S RECOMMENDED MAINTENANCE CHECKS	11
TECHNICAL DATA	12
PARTS LIST	12
WARRANTY INFORMATION	13

FEATURES

- The Combat Swimmer Harness (CSH) is a harness system specifically designed for the SOF Combat Diver. The CSH integrates, simplifies, and streamlines the wearing of underwater breathing apparatus (UBA), divers weights and mission specific gear.
- The harness is adjustable to fit a large spectrum of body shapes and sizes.
- Four vertical adjustments – 2 front/2 back - to accommodate various heights (a).
- Four waist adjustments – 2 front/2 back – to accommodate various girths (b).
- Single “Y” Crotch Strap (c).



Hook/loop fastener tape, bar slides, and buckles allow the diver to custom fit.

UBA Attachment

- The diver's UBA is attached and easily donned and doffed by means of heavy duty side release buckles.
- The original MK-25 straps must be removed from the MK-25 housing and be replaced with the strap kit P/N 769005. This will also make the MK-25 compatible with the Combat Swimmer Assault Vest (CSAV)



MK-25 with Strap Kit P/N 769005



CSH with MK-25 attached

SureLock™ Weight System

- The CSH integrates the SureLock™ positive locking/quick release weight system on each side of the CSH.
- Each weight pouch will hold up to 20 lbs of cast lead or lead shot.
- Horizontal Molle Straps



SureLock™ Weight System



SureLock™ Weight Pouch Removed



Molle straps and D-rings provide attachment points for small Molle style pockets and equipment



MK-25 Attachment Points / Front & Side

- CSH/MK25 Strap Kit P/N 769136 is used to attach the MK25 to the CSH
- The strap kit consists of 4 adjustable straps
 - 2 upper shoulder straps
 - 2 lower waist straps



MK-25 attachment points



Equipment attachment adjustment points (a)
MK-25 lower harness adjustment points (b)



WARNING “Although this harness is designed to simplify and streamline the integration of the UBA, weights and other mission specific gear. Care should be exercised not to over load the harness and not to exceed the lift capacity of the combat diver’s life vest”.

Equipment Attachment Points / Back

- Four adjustable straps on back - 2-shoulder/2-waist - for attaching mission essential equipment.



Equipment attachment points

CSH Donning /Adjustment Procedures

1. To adjust the CSH, first put it on. Ensure the Yoke is positioned across the center of the back and equally distributed across the shoulders.
2. Using the REAR adjustment Straps, slide the Elastic retaining band down, lift the BACK STRAPS and Raise or Lower the rear of the harness so that the LOWER Belt is at the waist.
3. Once a proper position is obtained, secure the BACK STRAPS down and slide the Retaining Band UP.
4. Using the FRONT adjustment Straps, slide the Elastic retaining band down, lift the FRONT STRAPS and Raise or Lower the FRONT of the harness so that the LOWER Belt is at the waist.
5. Once a proper position is obtained, secure the FRONT STRAPS down and slide the Retaining Band UP.
6. Adjust the right UPPER REAR WAIST strap, slide the retaining band over, lift the STRAP and adjust so that the BACK STRAPS are near vertical. Repeat for the Left side.
7. Adjust the Upper Waist Belt, Right and Left by removing the Velcro attached strap on the inside of the harness. It must be lifted slightly and slid under the retaining strap. Adjust the webbing in or out to fit, keeping the buckle centered. When the adjustment is complete, secure the Upper Strap under the Retaining Strap.
8. The Lower Belt may be completely removed for front and rear adjustment. Remove the four (4) Velcro Keepers, two (2) on each side and the belt can be removed for adjustment. Reinstall when adjustment is completed.
NOTE: This procedure is also used to completely remove or install the Crotch Strap (Step 10).
9. The Crotch strap has one (1) adjustment at the rear and two (2) adjustments in the front. The ends of the straps have attached strap keepers to contain excess strap after adjustment.
10. If the Crotch strap is not to be used, follow the procedure in step 8 for one side of the lower belt to remove the crotch strap from the CSH. Stow the Female buckles under the lower Waist Strap by lifting and separating the inner adjustment strap and sliding the buckle in.



CSH front view



CSH rear view

CSH Pre-dive Checklist

Diver Name _____ Date _____



WARNING Before each use, the CSH must be given a thorough visual inspection and functional test. NEVER dive a harness that shows signs of damage until it has been repaired and reinspected.

Initials

- _____ 1. Inspect all buckles and slides for damage. Connect and disconnect each buckle to check for proper operation.
- _____ 2. Inspect all stitched component webbing and hook/loop fastener tape for damage or excessive wear.
- _____ 3. Adjust webbing for proper fit.
- _____ 4. Install weights into SureLock™ weight pouches as needed.
- _____ 5. Install loaded SureLock™ weight pouches into harness pocket – SureLock™ pouch is installed properly when you hear a “click”.

Remarks _____

Diver Signature_____
Diving Supervisor Signature

CSH Post-dive Checklist

Diver Name _____ Date _____



Note: Avoid prolonged exposure to sun, extreme heat and heavy pool chemicals to prevent deterioration. To prevent premature damage, thoroughly rinse the CSH with fresh water at the end of each diving day using the following procedure:

Initials

- _____ 1. Remove all weights from SureLock™ pouches.
- _____ 2. Thoroughly rinse harness and allow to dry overnight before stowing.

Diver Signature_____
Diving Supervisor Signature

MANUFACTURER'S RECOMMENDED MAINTENANCE CHECKS FOR THE COMBAT SWIMMER HARNESS (CSH)

1. Annually- Inspect CSH for wear or damage.
 - a. Inspect buckle and slides.
 - b. Inspect stitched components, webbing, and hook/loop fastener tape.
 - c. Inspect SureLock™ weight pouch locking mechanisms.
2. Pre-Dive- Repeat Annual Inspection.
3. Post-Dive- Rinse & Dry.

TECHNICAL DATA

Features/Capabilities:

- SURELOCK™ WEIGHT POUCH CAPACITY.20 LBS EACH
- MULTIPLE MISSION ESSENTIAL LOAD CARRYING CAPABILITY
- MOLLE EQUIPMENT ATTACHMENT CAPABILITY
- BUILT IN CARRY/RECOVERY HANDLE
- DRY WEIGHT 5 LBS

CSH RECOMMENDED SPARE PARTS LIST

PART #	DESCRIPTION	QTY
769005	KIT, STRAP, CSH, MK25, BLK	1
769107	MK25, NECK & WAIST STRAP KIT	1
769134	KIT, LOAD ATTACHMENT, CSH (D-RINGS)	1
769136	KIT, STRAP, CSH, FRONT ATTACHMENT	1
769137	KIT, BUCKLE SET, 1"/1.5"/2.0" SPARE, CSH	1
769144	SPARE, WT. POUCH (EA) 20LBS, CSH	1

WARRANTY INFORMATION

All warranty transactions must be accompanied by proof of original purchase from an Aqua Lung® authorized dealer/agent. Be sure to save your sales receipt, and present it whenever returning your Combat Swimmer Harness for warranty service.

The Aqua Lung® One Year Limited Warranty™

Aqua Lung America warrants to the original purchaser for a period of one year from the date of purchase that the product will be free from defects in material and workmanship; provided that it receives normal use, proper care, and prescribed dealer service subject to those restrictions stated below. This limited warranty is extended only to the original purchaser for purchases made from an authorized Aqua Lung® dealer, and is not transferable. This warranty is limited to repair or replacement only at the discretion of Aqua Lung America, Inc.

ALL WARRANTIES, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES, OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO A PERIOD ENDING ONE YEAR FROM THE DATE OF PURCHASE.



WARNING It is dangerous for untrained and uncertified persons to use the equipment covered by this warranty. Therefore, use of these products by an untrained person renders any and all warranties null and void. Use of SCUBA equipment by anyone who is not a certified diver, or receiving training through a recognized certification agency, shall render void all warranties, expressed or implied.

AQUA LUNG AMERICA DISCLAIMS AND EXCLUDES ANY LIABILITY FOR INCIDENTAL, OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW EXCLUSIONS OF LIABILITY, SO THIS MAY NOT APPLY TO YOU.

Restrictions

The following restrictions apply to this warranty:

- This warranty does not extend to abrasion or seam separation caused by chemical attack; including prolonged exposure to chlorine.
- This warranty does not extend to damages caused by improper use, improper maintenance, neglect, unauthorized repairs, modifications, accidents, fire, or casualty.
- Cosmetic damage, such as scratches, fraying, and nicks are not covered by this warranty.
- This warranty covers products purchased in the United States. For warranties that may apply elsewhere, please contact your local representative.
- Failure to meet any of the above requirements will render the warranty null and void.



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