

USER MANUAL RAPID RESCUE STRAP

ENGLISH ORIGINAL RESOTEC USER MANUAL



1. INTR	ODUCTION: SAFETY FIRST!	04	
1.1.	Safety messages	04	
1.2.	General safety information	04	
1.3.	Safety information	05	
1.4. 1 c	Product identification	05	
1.5.	Applicable types	05	
	DUCT SUMMARY	06	
2.1.		06	
2.2.	Product description	06	
2.3.	Component identification	06	
	DUCT RANGE	07	
3.1.	Products & accessories	07	
4. GENE	ERAL OPERATING INSTRUCTIONS	08	
4.1.	Initial use	08	
4.2.	Preparation before use	08	
4.3.	Operation	09	
4.4.	Fastening the rescue strap	11	
4.4.1 4.4.2	Manual fastening Mechanical fastening	11 12	
4.4.2 4.5.	Unfastening the rescue strap	12	
4.5.1	Releasing of manual fastening	13	
4.5.2	Releasing of mechanical fastening	13	
4.6.	Using the controlled realease function	14	
5 SPFC	IFICATIONS	15	
5.1.	Technical specifications	15	
5.1.1	SI-system data	15	
5.1.2	Imperial system data	16	
5.2.	Technical drawings	17	
5.2.1	SI-system data	17	
5.2.2	Imperial system data	17	
6. MAIN	ITENANCE & STORAGE	18	
6.1.	Maintenance after use	18	
6.2.	Regular maintenance	19	
6.3.	Annual maintenance	20	
6.4.	Recommended storage	20	
6.5.	Decommissioning & recycling	20	
7. WAR	NINGS & LIMITATIONS	21	
7.1.	Handle position	21	
7.2.	Quick lock	21	
7.3.	Hooks	21	
7.4.	Single and double strap	21	
7.5.	Controlled release	21	
8. TROL	JBLESHOOTING	22	
9. WAR	RANTY	23	
10. DIS	CLOSURE	24	
11. CON	ITACT	25	

1. INTORDUCTION: SAFETY FIRST!

1.1. SAFETY MESSAGES



This manual contains safety messages. They point out potential hazards that could hurt you or others around you as well as damage the equipment in use. These messages should therefore be read carefully and understood. They are highlighted by the safety alert symbol as shown on the left:

The potential hazards are explained as to what could happen and how to avoid or reduce the chance for injury or damage.



Important information has been highlighted as well. To point out this information, a light bulb icon is used. It brings topics to your attention that could, for example, facilitate maintenance or to clarify when it is advisable to consult your distributor/supplier.

1.2. GENERAL SAFETY INFORMATION

The Resqtec rescue equipment is designed to provide safe operation. All users should read and be thoroughly familiar with the operating instructions and safety precautions stated in this manual. Operator safety depends on users being properly trained by the Authority having jurisdiction and using the tool for its intended purposes only. The following safety precautions must be observed at all times:



UNTRAINED USE OF RESCUE EQUIPMENT AND ITS ACCESSORIES MAY RESULT IN VERY DANGEROUS AND POTENTIALLY HARMFUL SITUATIONS. DO NOT ATTEMPT!

- Resptec rescue equipment must only be operated by people authorized and qualified by the Authority having jurisdiction.
- Be aware that this is not an all-encompassing training manual. This manual is meant as a reference-guide for working with this specific piece of equipment, and the user should already be trained in and gualified for using rescue equipment.
- Suitable protective equipment must be worn as directed by the Authority having jurisdiction. At a minimum, this should include gloves, helmet, eye protection and body protection such as turnout gear.



- Prior to use, inspect all components for any signs of damage or fraying. Do not use damaged equipment.
- Stay alert. Do not operate the system when tired.
- Use only Resque authorized service parts.
- This equipment should only be used with accessories approved by Resqtec. Use of unauthorized accessories can result in unpredict able and unreliable product operation and is therefore prohibited.



1.3. SAFETY INFORMATION

Before using the equipment and its related products and accessories, conduct an overall size-up of the intended use and safeguard against potential hazards before installing the product. Read and understand this manual before using the equipment.



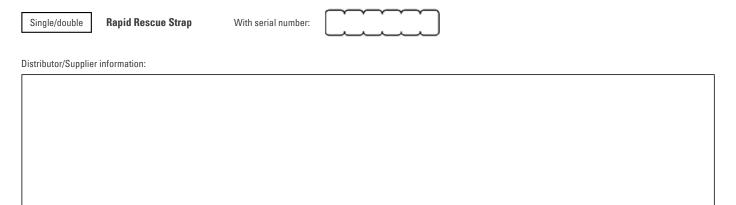
The WARNING and SAFETY labels on the product alert the user to special hazards inherent with its use. Should they become damaged or unreadable, contact the manufacturer to obtain a replacement.

BEFORE INSTALLING THE PRODUCT, BE AWARE OF THE FOLLOWING:

- Make sure that the product is not damaged by performing a visual inspection. Failing to do so may result in malfunctioning of the product, which can lead to serious personal injury. Pay particular attention to the quick lock system, the ratchet mechanism and the strap.
- Make sure that the hooks are undamaged and/or are not bent. Failure to do so may result in malfunctioning of the product, which
 can lead to serious personal injury.
- Do not exceed the maximum load ratings of the product.
- Do not use for lifting loads or towing vehicles.
- Inspect and retighten the strap periodically during use. Failure to do so may result in damage to the product and/or serious personal injury.
- Make sure no one on site is in danger or might get, when using Resqtec equipment. Be aware of your surroundings, the situation you and the people around you are in, and what the consequences of the use of the Resqtec system are.
- Never, when in use, place your hands or any other body parts between the moving parts or between the hook(s) and a (stationary) object. Doing so can result in serious personal injury.

1.4. PRODUCT IDENTIFICATION

Product identification is to make sure that this manual comes with a specific product and that this manual should always be available as a reference guide to that equipment. It is mandatory that this manual is not separated from the product specified below during its service life. This manual comes with Resquee Rapid Rescue Strap type:



1.5. APPLICABLE TYPES

This manual covers the following product types:

ARTICLE NUMBER	ITEM DESCRIPTION
8461.0500	Rapid Rescue Single Strap 6m
8461.1000	Rapid Rescue Double Strap 3m

2. PRODUCT SUMMARY

2.1. INTRODUCTION

Thank you for choosing Resqtec. We are confident that we live up to your expectations. This manual has been compiled carefully to supply the reader with all the necessary information. Read all the instructions before using the product to assure safe and optimal use of the product. These instructions contain aspects relevant to safe and optimal use of the product.

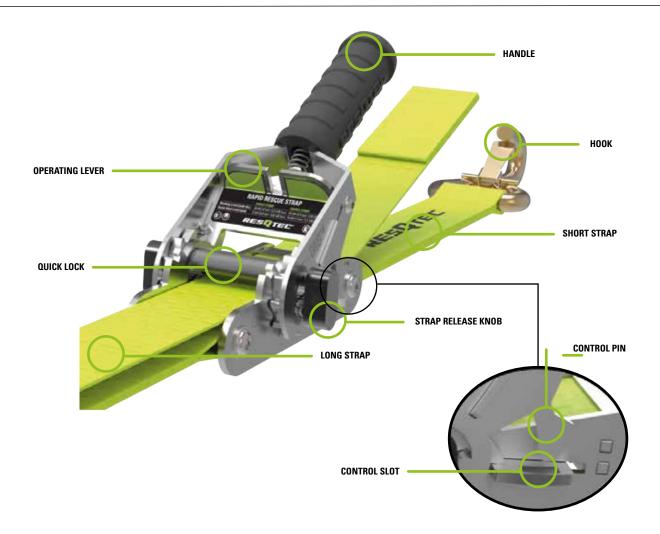
The product has been manufactured by Resqtec Zumro. For addresses, please refer to the last page of this manual or to our internet site at www.resqtec.com.

2.2. PRODUCT DESCRIPTION

The Rapid Rescue Straps have been designed and engineered to assist firefighters, USAR-teams and other rescue workers with the various rescue applications they encounter. We are confident that the design of this product will enable those working in these environments to perform their work more safely.

The Rapid Rescue Strap is a mechanical shoring system to manually secure two objects relative to each other. Its Quick Lock automatic locking secures a load quickly and easily, up to a maximum of 1 ton/1.1 US tons. Manually reciprocating the handle will create extra tension and allows a maximum tension up to 2.5 tons/2.8 US tons.

2.3. COMPONENT IDENTIFICATION



3. PRODUCT RANGE

3.1. PRODUCTS & ATTACHMENTS

ARTICLE NUMBER	ITEM DESCRIPTION	PICTURE	USAGE & RESTRICTIONS
8461.0500	Rapid Rescue Single Strap 6m		
8461.1000	Rapid Rescue Double Strap 3m		
8461.2000	Strap extension 3m	65	
8461.3000	Axle strap 1m		
8461.4000	Cluster hook		

4. GENERAL OPERATING INSTRUCTIONS

4.1. INITIAL USE

When receiving your equipment check for any sign of damage to the box, and report it to your distributor/supplier as damage could have occurred during shipping. Unpack in upright position and check the product for damage. To make sure the product conforms to your specifications, check the product details of the product.



CHECK THE EQUIPMENT FOR EXTERNAL DAMAGE. NOTIFY YOUR DISTRIBUTOR/SUPPLIER IMMEDIATELY IF ANY DAMAGE IS FOUND. DO NOT USE DAMAGED EQUIPMENT UNDER ANY CIRCUMSTANCE!

In general we distinguish a couple of different types of operations:

- Fastening the Rescue Strap
- Unfastening the Rescue Strap
- Using the controlled release function

4.2. PREPARATION BEFORE USE

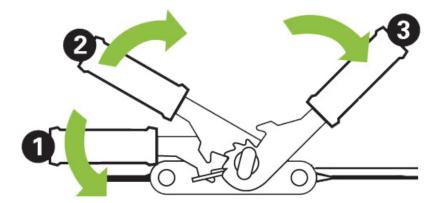
• Visually check the strap, and in particular the strap itself, the Quick Lock and the hooks, for any signs of damage.	• See chapter 6 for further information.
• Make sure the strap is properly wrapped around the hook, i.e. that the strap is not folded or clamped.	• See chapter 6 for further information.
• Always be aware if the strap assembly that you use is a single strap or a double strap product. This affects the Latching Capacity of the ratchet and the Quick Lock. Always be aware of the load that the Rescue Strap you use is approved for.	• See chapter 5 and 7 for further information.

4.3. OPERATION

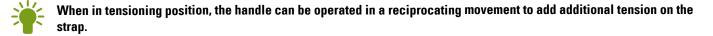
The product is operated by three main parts:

- The handle.
- The operation lever.
- The strap release knob.

The handle can be set to three (3) different positions:



- 1. Controlled release
- 2. Tensioning
- 3. Full release

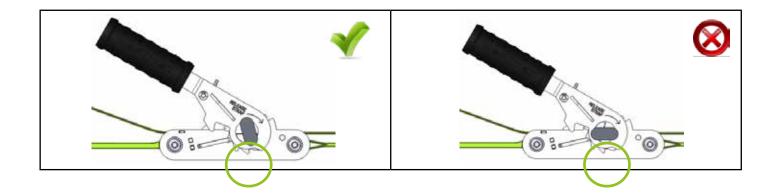


The strap lock and strap release knob can be used to allow or prevent strap movement.

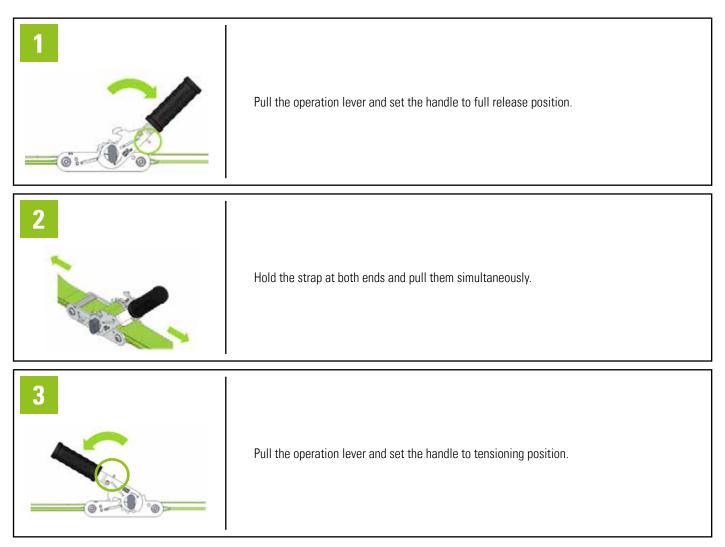


The strap release knob can only be used if and/or when the strap is not folded around the strap lock.

BEFORE USING THE PRODUCT, ALWAYS MAKE SURE THAT THE LONG STRAP RUNS STRAIGHT THROUGH THE SYSTEM.

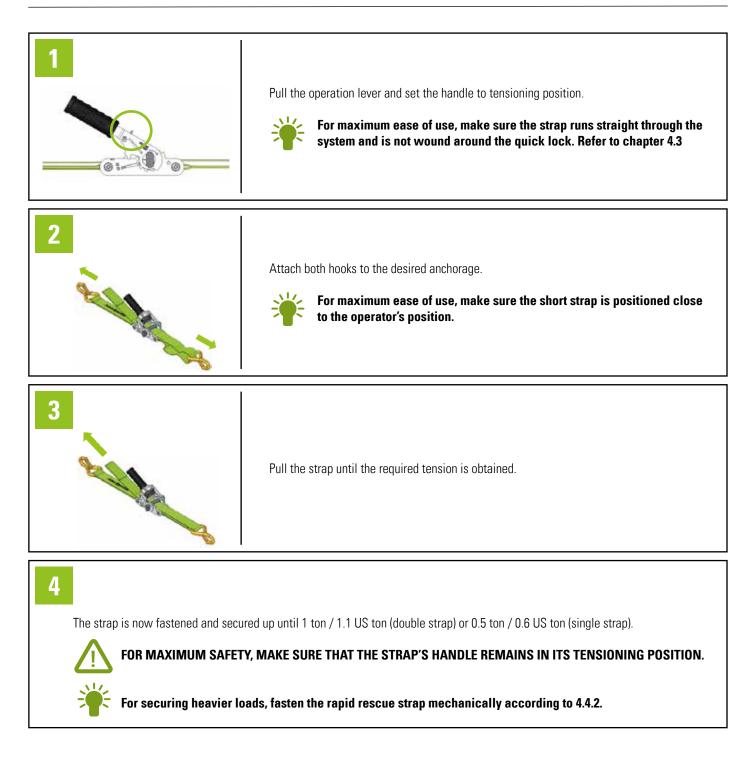


If the quick lock is placed at an angle relative to the strap, it will not be possible to pull the strap through the system. If this is the case, follow these steps:

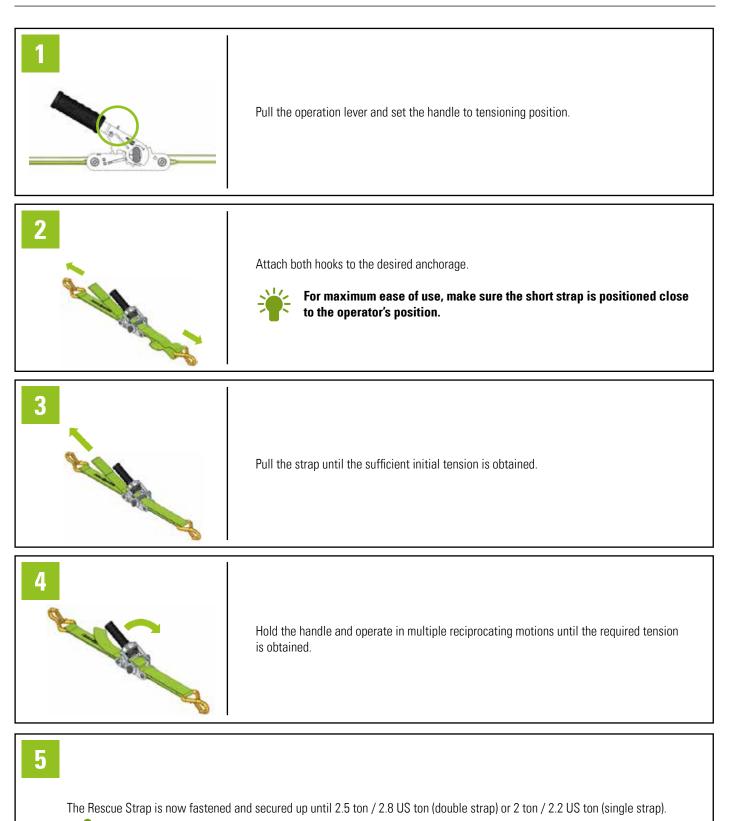


4.4. FASTENING THE RESCUE STRAP

4.4.1 MANUAL FASTENING



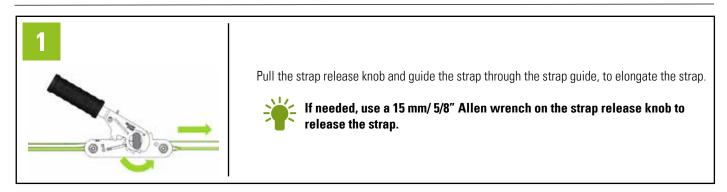
4.4.2 MECHANICAL FASTENING



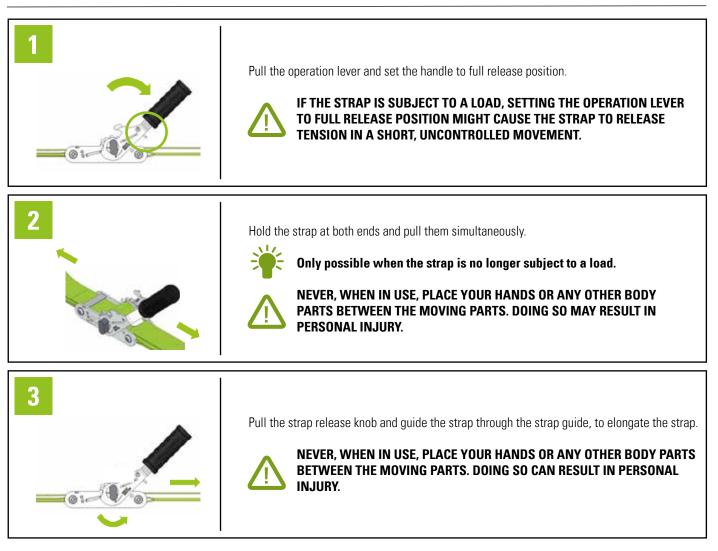
FOR MAXIMUM SAFETY, MAKE SURE THAT THE STRAP'S HANDLE REMAINS IN ITS TENSIONING POSITION.

4.5. UNFASTENING THE RESCUE STRAP

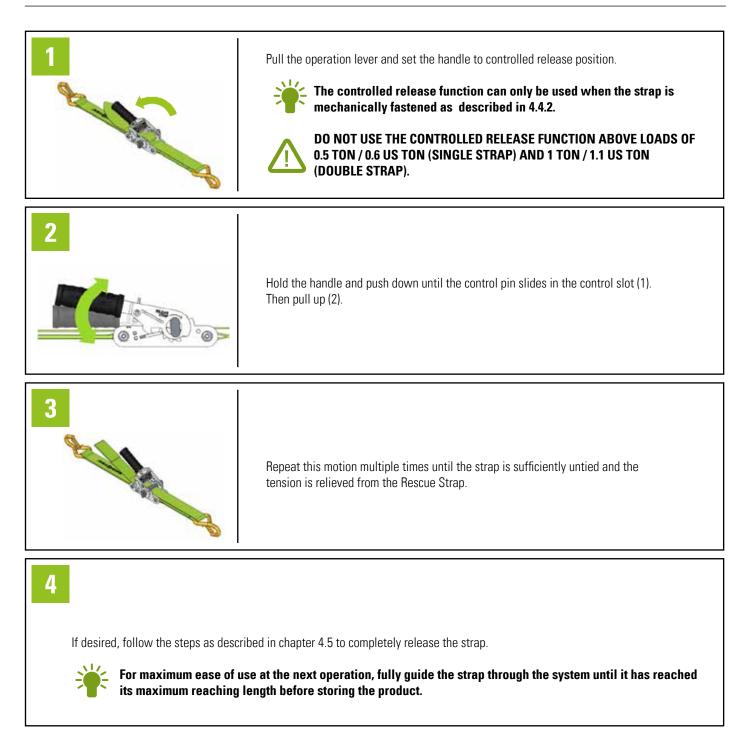
4.5.1 RELEASING OF MANUAL FASTENING



4.5.2 RELEASING OF MECHANICAL FASTENING



4.6. USING THE CONTROLLED RELEASE FUNCTION



5. SPECIFICATIONS

5.1. TECHNICAL SPECIFICATIONS

5.1.1 SI-SYSTEM DATA

RAPID RESCUE DOUBLE STRAP 3M	DATA
Dimensions mechanism (L x W x H)	268 x 122 x 68 mm
Operational weight	3.2 kg
Minimal length	800 mm
Maximal length	3,000 mm
Stroke	2,200 mm
Latching Capacity (LC) ratchet	2,500 kg
Latching Capacity (LC) quick lock	1,000 kg
Safety factor complete system	2:1
Type of hook	Self-closing safety snap
Controlled release function	Yes
EN 12195-2	Compliant

RAPID RESCUE SINGLE STRAP 6M	DATA
Dimensions mechanism (L x W x H)	268 x 122 x 68 mm
Operational weight	3.2 kg
Minimal length	800 mm
Maximal length	6,000 mm
Stroke	5,200 mm
Latching Capacity (LC) ratchet	2,000 kg
Latching Capacity (LC) quick lock	500 kg
Safety factor complete system	2:1
Type of hook	Self-closing safety snap
Controlled release function	Yes
EN 12195-2	Compliant

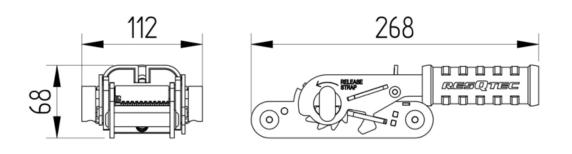
5.1.2 IMPERIAL SYSTEM DATA

RAPID RESCUE DOUBLE STRAP 3M	DATA
Dimensions mechanism (L x W x H)	10 1/2" x 4 3/8" x 2 5/8"
Operational weight	7.1 lbs
Minimal length	2.6ft
Maximal length	9.8ft
Stroke	7.2ft
Latching Capacity (LC) ratchet	5,511.5 lbs / 2.8 US ton
Latching Capacity (LC) quick lock	2,204.6 lbs / 1.1 US ton
Safety factor complete system	2:1
Type of hook	Self-closing safety snap
Controlled release function	Yes
EN 12195-2	Compliant

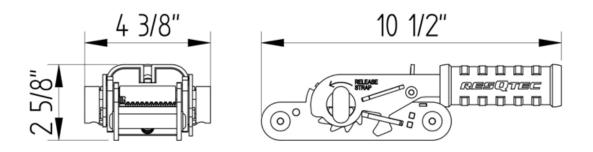
RAPID RESCUE SINGLE STRAP 6M	DATA
Dimensions mechanism (L x W x H)	10 1/2" x 4 3/8" x 2 5/8"
Operational weight	7.1 lbs
Minimal length	2.6ft
Maximal length	19.7ft
Stroke	17ft
Latching Capacity (LC) ratchet	4,409.2 lbs / 2.2 US ton
Latching Capacity (LC) quick lock	1,102.3 lbs / 0.6 US ton
Safety factor complete system	2:1
Type of hook	Self-closing safety snap
Controlled release function	Yes
EN 12195-2	Compliant

5.2. TECHNICAL DRAWINGS

5.2.1 SI-SYSTEM DATA



5.2.2 IMPERIAL SYSTEM DATA



6. MAINTENANCE & STORAGE



Generally speaking it is most important to keep your equipment clean. Clean equipment will not wear down as fast; hence a longer service life can be achieved.

6.1. MAINTENANCE AFTER USE

	ACTION	EXPLANATION	ADDITIONAL INFORMATION
1.	Check the products' exterior for any signs of damage and/or bent product parts.	 Visually check for damaged parts and components. 	If structural damage to the product is discovered, contact your Resqtec distributor/supplier.
2.	Check the functioning of the ratchet mechanism.	 Check whether it can be operated in a smooth and controlled manner. A few drops of oil (WD-40 or equivalent) can be applied on the gears on the side of the strap lock. If oil is applied, use the ratchet mechanism a few times to ensure even lubrication. 	If the ratchet mechanism is not functioning properly, contact your Resqtec distributor/supplier.
3.	Clean and dry the product before storage.	• Clean off any excessive dirt.	Do NOT use any oil. Dry thoroughly when the straps are wet.

6.2. REGULAR MAINTENANCE

It is advisable to carry out regular maintenance; depending on the use at least every 3 months.

When carrying out regular maintenance one should, in addition to the steps described in chapter 6.1, pay extra attention to the following:

LOCKING MECHANISM

2.	Check the strap release knob and strap lock.	 If oil is applied, use the ratchet mechanism a few times to ensure even lubrication. Verify smooth operation by running the strap through at least three (3) times. 	Do not use a damaged product, as this might have a negative effect on the product's functionality.
1.	Verify smooth functioning of the ratchet mechanism.	mechanism a few times to ensure even	If the ratchet mechanism is not functioning properly, contact your Resqtec distributor/supplier.
		 Check whether it can be operated in a smooth and controlled manner. A faw drapp of oil (WD 40 or opuivalant) 	

STRAPS

1.	Clean and visually check the strap for any signs of damage.	 Preferably use dry, clean paper cloth. Clean off any excessive dirt. 	Do not use a damaged strap, as this might have a negative effect on the product's functionality.
----	---	---	--

HOOKS

		-		
1.Clean and visually check both hooks for any signs of damage or bent parts.• Preferably use dry, clean paper cloth. • Mild soapy water can be used if necessary.Do not use (a) damaged hook(s), as this might have a negative effect on the product's functionality.	1.		Mild soapy water can be used if	this might have a negative effect on

6.3. ANNUAL MAINTENANCE



Many years of safe use is guaranteed if the product is properly cared for and maintained. To this end the product must be inspected at least once a year. This must be carried out by a service technician trained by Resqtec who possesses the necessary tools and testing equipment.

It is also possible for you, the user, to carry out maintenance yourself. In the context of your own safety and the product liability it is necessary that appropriate training should be undertaken first. Your distributor/supplier can advise you on this and/or attend to the annual maintenance on a contract basis, if desired.



STRUCTURALLY DAMAGED AND/OR BROKEN EQUIPMENT MUST NEVER BE USED DURING RESCUE OPERATIONS. THIS MAY RESULT IN VERY DANGEROUS AND POTENTIALLY HARMFUL SITUATIONS. DO NOT ATTEMPT!

If structural damage and/or broken equipment or parts are discovered, immediately contact your distributor/supplier or the manufacturer.



DO NOT REPAIR ANY BROKEN EQUIPMENT AND/OR PARTS. ALWAYS CONTACT YOUR DISTRIBUTOR/SUPPLIER OR THE MANUFACTURER.

Repairing equipment and/or parts causes your warranty to expire. Always contact your distributor/supplier when broken parts and/or equipment are discovered. Broken equipment and/or parts can then be sent to certified service centers.

6.4. RECOMMENDED STORAGE

The following storage recommendations are applicable:

- Store out of direct sunlight
- Store the equipment in a dry, well-ventilated area:

Recommended storage temperature range	10 °C – 30 °C / 50 °F – 86 °F
Recommended storage relative humidity	0-60%

6.5. DECOMISSIONING & RECYCLING

The product consists of steel, aluminum, plastic and rubber. The product does not contain any pressurized components. Consult your distributor/supplier for further information on recycling.

7. WARNINGS & LIMITATIONS 7.1. HANDLE POSITION

When using the Rapid Rescue Strap, the handle's position determines its functioning.

BEFORE USING THE STRAP, ALWAYS MAKE SURE THAT THE HANDLE IS IN TENSIONING POSITION (2). DO NOT USE THE STRAP TO SECURE IF THE HANDLE IS STILL IN FULL RELEASE (3) OR CONTROLLED RELEASE POSITION (1).



7.2. QUICK LOCK



APPLYING A LOAD OF MORE THAN 1 TON/1.1 US TON (DOUBLE STRAP) OR MORE THAN 0.5 TON / 0.6 US TON (SINGLE STRAP) ON THE QUICK LOCK SYSTEM MAY RESULT IN DAMAGE TO THE STRAP AND/OR QUICK LOCK SYSTEM. AFTER HEAVY USE, CHECK THE STRAP AND QUICK LOCK SYSTEM FOR ANY SIGNS OF DAMAGE.

Overloading the Quick Lock might damage the strap and/or product, which in turn might render it impossible to release the Rapid Rescue Strap manually.



If the strap lock is clamped after applying a heavy load to the Quick Lock, a 15 mm/ 5/8" Allen wrench can be used on the strap release knob to create a lever and the release the strap.

7.3. HOOKS

When in use, the anchorage may often be thicker than the hook itself.



WHEN THE ANCHORAGE IS THICKER THAN THE HOOK ITSELF, THE HOOK MIGHT BEND DURING OPERATION DUE TO THE FORCE APPLIED ON THE STRAP. DO NOT USE BENT HOOKS: THE REACTION TO DIFFERENT FORCES MIGHT HAVE CHANGED AS A RESULT OF THE BENT MATERIAL.

7.4. SINGLE AND DOUBLE STRAP



ALWAYS BE AWARE WHETHER YOU ARE USING A SINGLE STRAP OR A DOUBLE STRAP RESCUE STRAP. THIS AFFECTS THE LATCHING CAPACITY OF THE RATCHET AND THE QUICK LOCK SYSTEM. ALWAYS MAKE SURE THAT THE RESCUE STRAP YOU USE IS APPROVED FOR THE REQUIRED LOAD. THE LOAD SPECIFICATIONS CAN BE FOUND IN CHAPTER 5.

7.5. CONTROLLED RELEASE



THE CONTROLLED RELEASE FUNCTION IS DESIGNED TO CONTROL LOW TO MEDIUM HEAVY LOADS. DO NOT USE THE CONTROLLED RELEASE FUNCTION ABOVE LOADS OF 0.5 TON / 0.6 US TON (SINGLE STRAP) OR 1 TON / 1.1 US TON (DOUBLE STRAP).



When releasing loads over 0.5 ton / 0.6 US ton (single strap) or 1 ton / 1.1 US ton (double strap) always use the full release mode.

8. TROUBLESHOOTING



If you encounter any problems whilst using the product, please consult the following table:

Symptom	Solution
The handle cannot be set to different positions.	- The operation lever is not pulled upwards sufficiently. Pull back further to set the handle to different positions.
The controlled release function does not work.	 The controlled release can only be used if the strap is mechanically fastened as described in chapter 4.4, 'mechanical fastening'. Make sure the handle is set to the proper position. Check if the control pin falls completely in the control slot when moving the handle downwards. Using the controlled release function while the rapid rescue strap is subject to heavy loads may take some hand force. Refer to 7.5 for force restrictions of the controlled release function.
The strap is clamped by the strap lock and releasing the strap is not possible.	- The Quick Lock might have been subjected to a heavy load. A 15 mm/ 5/8" Allen wrench can be used to release the strap lock.
The strap is wrapped around the strap lock and releasing the strap is not possible.	- Set the handle to full release mode, take a safe distance and pull the long strap behind the ratchet.



IF YOU CANNOT FIND THE PROBLEM THAT OCCURRED, OR IF THE PROVIDED SOLUTION DID NOT RESOLVE THE PROBLEM, STOP USING THE PRODUCT IMMEDIATELY AND CONTACT A CERTIFIED DISTRIBUTOR/SUPPLIER OR ONE OF THE RESOTEC OFFICES.

9. WARRANTY

Resqtec offers two years warranty upon the purchase of this product. For extending your warranty or information about the Resqtec service program, please contact your Resqtec distributor/supplier.



WARRANTY IS ONLY VALID IF THE REGULATIONS AND RESTRICTIONS, AS DESCRIBED IN THE USER MANUAL APPLICABLE ON THE USED PRODUCT(S), ARE UNDERSTOOD AND FOLLOWED, AND IF THE MAINTENANCE AS ADVISED IN THE USER MANUAL IS DONE BY AN AUTHORIZED RESOTEC TECHNICIAN. DISREGARDING ANY OF THE APPLICABLE REGULATIONS AND RESTRICTIONS, AS DESCRIBED IN THE USER MANUAL APPLICABLE ON THE USED PRODUCT(S), WILL CAUSE THE WARRANTY TO VOID.

10. DISCLOSURE

All rights reserved. No part of this publication whatsoever may be reproduced without the prior written consent of Resqtec.

All information herein was carefully gathered and examined. However, we cannot be held responsible for eventual mistakes or incompleteness. Resqtec may exercise the right to change or modify parts of the equipment at any time without notification. This manual may be subject to error, revision and technical modifications. For detailed information, and as we constantly improve our equipment, please check the latest specification sheet. This manual is based on and refers to current production models only. Resqtec accepts no liability for any damage and/or injuries resulting from the use of this manual in connection with any equipment which has been or may be supplied. For any additional information concerning the use of the manual or the maintenance or repair of Resqtec equipment, please contact the Resqtec distributor/supplier or an officially appointed distributor/supplier. Utmost care has been taken in the preparation and accuracy of this manual. Resqtec cannot however be held liable for errors, omissions or consequential liabilities in the use of it.

24

11. CONTACT

ADDRESSES RESOTEC OFFICES

European office

Meer en Duin 82 2163 HC Lisse, the Netherlands T +31 (0)252 419002 F +31 (0)252 411794

E info@resqtec.com

USA office

300 Forge Way, Suite 2 Rockaway, New Jersey, 07866 T: +1 973 627 4646 F: +1 973 627 4622

Asia office

Lot 5, Jalan Delima 1/1 Subang Hi-Tech Industrial Park 47 500 Selangor, Malaysia T +603 5621 5298 F +603 5621 2895

