



## **Professional Series Rescue Litters User Manual**

**Cascade Rescue Company**

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## Disclaimer

Enclosed in this manual are general instructions for the use, operation and care of this litter. These are not all-inclusive; safety and proper use is at the sole discretion of the user. Activities involving patient rescue or retrieval can be dangerous and result in serious injury or death to the rescuer and patient. Under no circumstances should anyone attempt to use these products without proper third party training and certification for victim rescue.

This manual should be retained for future reference and included in the event of transfer to a new user. Additional copies can be requested from Cascade Rescue free-of-charge.



Cascade Rescue Company is an ISO 9001:2015 certified manufacturer. With the exception of the steel model, the Professional Series Litters meet or exceed the NFPA 1983 Standard on Life Safety Rope and Equipment for Emergency Services, 2017 Edition.

## Warranty

Cascade Rescue Company warrants, for the lifetime of the product, to the original purchaser that Cascade Rescue manufactured products will be free from defects in materials and workmanship. In the event of such a defect, Cascade Rescue Company agrees – at its option – to repair or replace the product returned under warranty. This warranty does not apply to any damage caused by misuse, neglect, accident, improper application or installation, or to any damage caused by any repair or attempted repair not authorized by Cascade Rescue Company. No further warranties exist or are implied due to the high risks involved in rescue services or other activities, which risks can only be reduced through the skill, training and judgment of the individual participant. This limited warranty excludes, and Cascade Rescue Company shall not be liable for, any incidental, consequential, special, punitive or exemplary damages arising out of the breach of the express or implied warranties on sales by Cascade Rescue Company or otherwise. This limited warranty, in no way, limits or alters other manufacturers' warranties on products that are sold or distributed by Cascade Rescue Company.



## Warning

- Permit only trained operators to use this product.
- Improper use and/or operation of this product can cause injury.
- Always secure the patient in a manner suitable to the situation.
- Do not leave the patient unattended.
- Maintain the product as directed in this manual. Improper maintenance can result in damage and injury.
- All repair work shall be performed by the manufacturer. All other work or modifications shall void the warranty and release Cascade Rescue Company from all liability and responsibility as the manufacturer



**Technical rescue and its associated activities should only be exercised by trained professionals. By nature, these activities are dangerous and the user may suffer injury or death from inappropriate use and technique.**

## Specifications

Model	Steel	Stainless 1 Piece   2 Piece	Titanium 1 Piece   2 Piece
Length	83 in. (211 cm.)	83 in. (211 cm.)	83 in. (211 cm.)
Width	24 in. (61 cm.)	24 in. (61 cm.)	24 in. (61 cm.)
Split Length	43 in. (109 cm.)	NA   43 in. (109 cm.)	NA   43 in. (109 cm.)
Depth	7 in. (18 cm.)	7 in. (18 cm.)	7 in. (18 cm.)
ALPs	No	Yes	Yes
Rating	2500 lbs. (11.12 kN)	2500 lbs. (11.12 kN)	2500 lbs. (11.12 kN)
Weight	25 lbs (14 kg)	25 lbs (14 kg)   27.5 lbs (14.5 kg)	18 lbs (8.16 kg)   19 lbs (8.61 kg)

## Care, Maintenance and Inspection

1. Litters should be stored in a manner that they are protected from the elements, which can have a cumulative effect in weakening any piece of rescue equipment. Litters should be stored either indoors or within a protective case away from excessive heat, cold or UV.
2. Professional Series Litters should be inspected for abrasion and damage before and after each use. Any location where the powder coating has been abraded down to metal should be recoated with a high quality automotive paint to retard rust. This applies to Professional Series Stainless Steel litters only. Titanium litters should be inspected closely for deep gouges or scratches. Due to the nature of titanium, this type of damage must be monitored when occurring on high-stress areas such as the top railing.
3. The litter must be inspected before each use. Do not use the litter if any part of the top railing is deformed, bent, dented or otherwise in a shape or form other than specified by the manufacturer.
4. Inspect each tubular component of the Professional Series. Minor nicks in the powder coating, small dents in the runners and side ribs are acceptable. Scratches, abrasion marks, etc are acceptable forms of normal wear and tear. When in doubt, remove the litter from service and contact the manufacturer.
5. Inspect back support, liner, and straps. If cracks, tears, fraying or any damage is detected the suspect part should be replaced or repaired.
6. Inspect each weld at regularly scheduled intervals (monthly), and if litter has sustained significant force from operations or from shock loading. Cracking in the powder-coated surface is an indicator of metal damage or fatigue. Discontinue use of any litter that sustains a shock from falling greater than one meter on a rope segment smaller than three meters while loaded with 180 lbs or more until such a time that it can be fully inspected. Re-certification is available at no charge by Cascade Rescue Company.
7. Inspect each Articulating Lift Point (ALP) for cracking, deformation or damage. Inspect tubing around and under ALP for damage.
8. Keep a history log of training sessions and actual missions. When in doubt of the structural status of any litter or its history of use – DO NOT USE. Contact the manufacturer if the condition or history of the litter is in

question. A recommended safety log is included below. Litters should be retired if any of the above damage or conditions have occurred until the litter has been re-certified by Cascade Rescue Company.

9. If the above manufacturer's recommendations are not followed, the user could suffer serious consequences.
10. Additional information regarding litters can be found in NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, and NFPA 1983, *Standard on Life Safety Rope and Equipment for Emergency Services*.

## Restraints



Each litter has four Quick Tab Patient Straps installed. These straps are intended only for securing the patient onto the litter; they should not be used for lifting. To use, simply insert the small square slider into the larger hollow rectangle and pull the strap. To remove, give a tug on the red Quick-Tab and the strap comes loose. Each Quick-Tab strap has been tested to 1400 lbs MBS.

## Articulating Lift Points



Cascade Rescue Company's patented ALPs allow a variety of litter rigging to be used. Position them straight up and use them with a traditional four point harness or rotate them to the outside to facilitate use with a two point harness for vertical work. When not needed, simply fold them in the down position and they are completely out of the way with no potential for patient injury. Each ALP has a MBS of 9kN.

## Fast-Lock System



Two-Piece Litters have a rapid take-down FastLock System comprised of (2) FastLock Couplers and a two-part Interleave Plate.

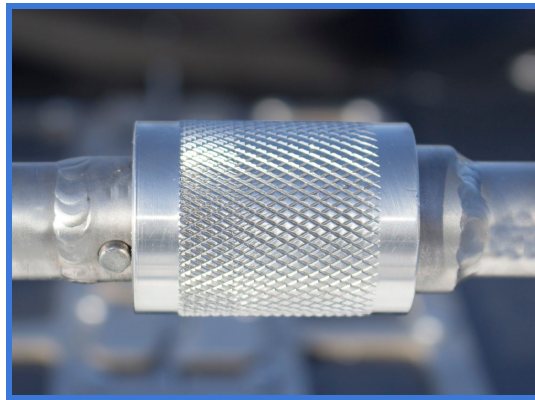




To assemble: Pick up the litter and bend in the middle, pulling toward you, until the litter is at an approximately 30 degree angle (1). Insert the tabs on the Interleave Plate through each other (2).



Use slight pressure to lift one section of the litter straight up, while pushing down slightly on the other section. This will engage the tabs of the Interleave Plate (3). Rotate the ends of the litter away from you until the litter is relatively flat and the FastLock Couplers engage (4).



Engage the FastLock Couplers by screwing them together, much as you would a screw-gate carabiner (5). Ensure that the coupler is completely closed and observe that the locking button is fully extended at the back of the FastLock Coupler (6).

To assemble, place the litter flat on the ground. Screw the coupler together, much as you would a screw-gate carabiner. Repeat with the other coupler. Repeat the above steps in reverse order.


General Recommendations For Use

- Always inspect litter to ensure suitability for task at hand.
- Using this product requires a minimum of two trained operators.
- Patient should be accompanied and restrained at all times. Load patient into litter using approved first aid, basic life support or advanced life support techniques
- Secure patient to bed of litter with attached straps. Additional packaging may be required as dictated by appropriate rescue techniques advised by appropriately trained rescue professionals.
- Operators attempting high-angle rescue are responsible for being adequately trained in the techniques involved and selecting the appropriate equipment for the situation.
- Use an even number of operators to carry the stretcher, positioning them to keep the litter as level as possible.
- Avoid surfaces and hazards that could penetrate the netting, causing discomfort or harm to the patient.

High-Angle Rescue

High-Angle Rescue requires specialized tools and equipment in which the proper and safe use requires professional instruction and training. All equipment should have an adequate load rating that is at least equal to that of the litter (2500 lbs). The litter can be oriented horizontally or vertically. The patient should be restrained in a manner to prevent sliding in any direction.

Repair, Parts and Service

 Retire any litter that is showing excessive wear. Do not attempt to repair or replace any metal component or weld. Contact Cascade Rescue Company for repair and recertification.

If the patient straps, back support or mesh liner become damaged, contact Cascade Rescue Company for replacement.

SKU	Part Description
CRC-TBA-QTS	Quick-Tab Straps
CRC-RLA-PSL1	Rescue Litter Liner - One Piece
CRC-RLA-PSL2	Rescue Litter Liner - Two Piece
CRC-RLA-PSBB	Patient Contour Padded Back Support

Related Products

SKU	Part Name
CRC-PTR-ALW	Trail Technician Litter Wheel
CRC-PTR-ATM	Terrain Master Litter Wheel
CRC-PTR-TT	Terra Tamer Litter Wheel
CRC-RLA-PSSLH	Equalizer Litter Handle System - Stainless Steel
CRC-RLA-PSTLH	Equalizer Litter Handle System - Titanium
CRC-RLA-PLS	Professional Series Litter Skin
CRC-RLA-LFS	Litter Flotation System

## Litter Use and Inspection Log

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