

## # CEVAC EVACUATION HARNESS USER INSTRUCTIONS MANUAL



**WARNING:** This notice contains information and instructions specific to this product only. This product is designed for rescue situations only. The user must read and understand the instructions in this manual before using this equipment. Manufacturer's instructions must be followed for proper use and maintenance of this equipment. This equipment must be used by persons trained in its correct application and use. Alterations or misuse of this equipment, or failure to follow instructions, may result in serious injury or death. If you have questions on the use, care or suitability of this equipment for your application, contact Cordage Barry Ltd.

**IMPORTANT:** This document does not replace a complete training necessary for the use of this product. Excellent technical knowledge in first aid, paramedic and high-angle rescue is required.

**IMPORTANT:** Record the product identification information from the ID label in the inspection and maintenance log at the end of this document.

### **A) DESCRIPTION OF THE EVACUATION HARNESS**

**PRODUCT NUMBER:** CEVAC

**APPLICATIONS:** The evacuation harness is designed to rapidly rescue a person from a high point.

**IMPORTANT:** The evacuation harness is designed for emergency use only. Due to various possible emergency situations, the assistance of health care and rescue professionals is required to ensure the safety of victims. This evacuation harness is not designed for the rescue of a severely injured person. If a spinal immobilisation is needed, a stretcher with backboard and cervical collar must be used. Do not use this equipment unless you are qualified as a rescuer/first responder and was trained for high angle rescue and/or confined space rescue (see Section E).

#### **SPECIFICATIONS:**

- Maximum user weight: 140 kg (310 lbs) - one person with clothing and tools
- Evacuation harness weight: 1.8 kg (3.9 lbs)
- 3 forged D-rings. Minimum breaking strength: 2 268 kg (5 000 lbs)
- Adjustment buckles for victim's positioning. Minimum breaking strength: 1 814 kg (4 000 lbs)
- 45 mm (1¾") nylon webbing. Minimum breaking strength: 2 722 kg (6 000 lbs)
- One size

## **B) LIMITATIONS**

Consider the following application limitations before using this equipment:

**WORKING LOAD LIMIT:** This product is designed for use by one person with a combined weight (person, clothing, tool, etc.) of 140 kg (310 lbs) maximum.

**ENVIRONMENTAL HAZARDS:** Use of this equipment in areas with environmental hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include, but are not limited to: heat, chemicals contamination, moving machinery, corrosion, gases and sharp edges.

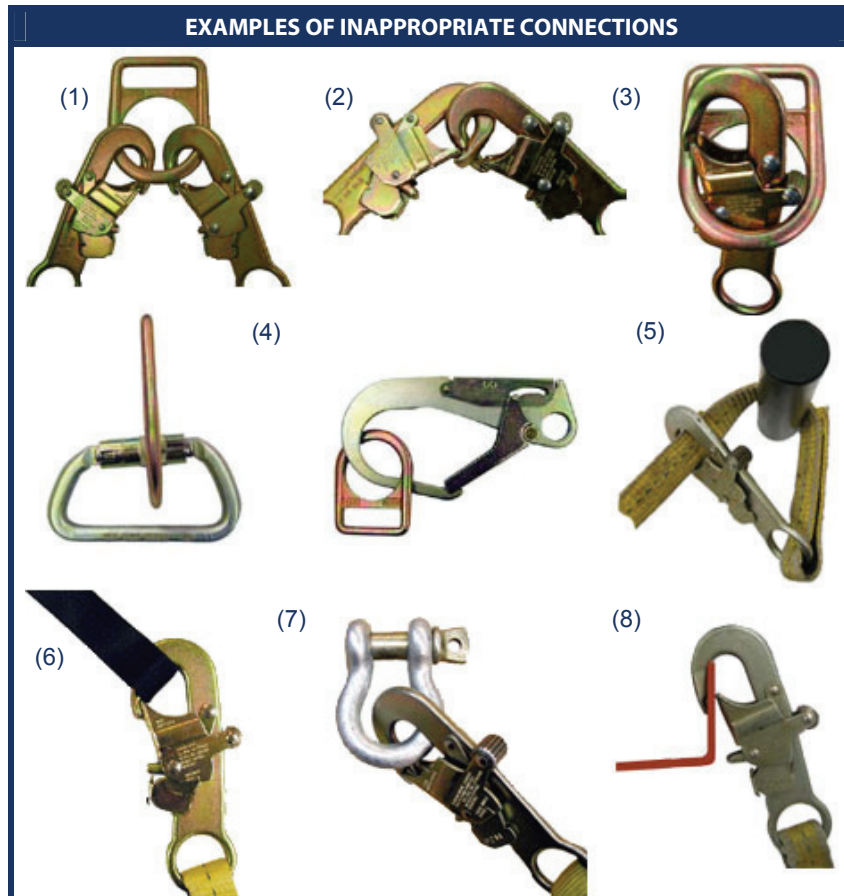
**TRAINING:** This harness must be used by persons trained in its correct application and use (see Section E).

## **C) COMPATIBILITY OF CONNECTORS**

***Substitutions or replacements of components of the evacuation harness with non-approved ones may compromise the compatibility of this rescue equipment and may affect the safety and reliability of the entire system.***

Connectors must be compatible in size, shape, and strength with the components used in the evacuation harness. Connectors (D-rings, hooks and carabiners) must be capable of supporting at least 22,2 kN (5 000 lbs). The use of self-locking snap hooks and carabiners is required by ANSI Z359.1, OSHA 1926.500 and CSA Z259.12. ***Do not use equipment that is not compatible with the evacuation harness.*** Contact *Barry Cordage* if you have any questions about compatibility.

The figure below shows examples of **inappropriate** connections of snap hooks and carabiners. (Note: Other inappropriate connections are possible but may not be shown.)



- (1) To a D-ring to which another connector is attached.
- (2) To each other.
- (3) In a false engagement, where features that protrude from the snap hook or carabiner catch on the anchor and without visual confirmation seems to be fully engaged to the anchor point.
- (4) In a manner that would result in a load on the gate. *Large throat opening snap hooks should not be connected to standard size D-rings or similar objects, which will result in a load on the gate if the hook or D-ring twists or rotates. Large throat snap hooks are designed for use on fixed structural elements such as rebar or cross members that are not shaped in a way that can capture the gate of the hook.*
- (5) Directly to webbing or rope lanyard or tie-back (unless specified by the webbing and connector manufacturers).
- (6) To a lifting sling.
- (7) To a shackle.
- (8) To any object that is shaped or dimensioned such that the snap hook or carabiner will not close and lock, or that roll-out could occur.

## **D) DONNING AND USE**

***Do not alter or intentionally misuse this equipment. Consult Barry Cordage if you have any question on the combination of the harness with components or subsystems. Some subsystem and component combinations may interfere with the safety of this rescue equipment.***

### **PROCEDURE FOR DONNING AND FITTING THE EVACUATION HARNESS**

***IMPORTANT:*** Consult competent personnel before moving injured or disabled persons. Remove all sharp objects from person being transported to avoid tearing the harness.

- (1) Open the harness by placing the 3 forged D-rings apart from each other.
- (2) Loosen the adjustment straps with the buckles on each side of the harness.
- (3) Identify the top and bottom of the harness (the long thin triangle with one D-ring is the bottom of the harness, and goes between the legs of the person to evacuate).
- (4) Pass the harness behind the person to rescue.
- (5) Insert each victim's arm in the hole on each side of the evacuation harness.
- (6) Attach the 3 forged D-rings with a self-closing carabiner that is compatible in shape and size. Make sure that the bottom part of the harness is inserted between the legs of the person before connecting the D-rings.
- (7) Adjust the victim's position by tightening the adjustment straps with the side buckles.
- (8) Connect to the rescue system and double-check all components and connections. Use a back-up system whenever possible.

## **E) TRAINING**

It is the responsibility of the buyer/user to make sure they are familiar with this rescue product, and are sufficiently trained in the correct care and use of this equipment. This product must only be used by competent persons. The user must be aware of the operating characteristics, application limits, and the consequences of improper use of this equipment.

***Gaining an adequate apprenticeship in appropriate techniques and methods of safety is your own responsibility. Medical and rescue training should be repeated on a periodic basis under the supervision of competent persons.***

## **F) INSPECTION**

### **FREQUENCY:**

- The evacuation harness must be inspected before and after each use.
- The evacuation harness must be inspected by a competent person, other than the user, at least once a year. The results of this formal inspection have to be recorded in the inspection and maintenance log at the end of this manual.

***The use of this evacuation harness in extreme conditions and environmental hazards (high heat, caustic chemicals, corrosive environments, high voltage power lines, explosive or toxic gases, sharp edges, etc.) may require increasing the frequency of inspections. In case of doubt on the condition of the evacuation harness, don't hesitate to remove it from service immediately and return it to Barry Cordage for inspection.***

### **INSPECTION PROCEDURE:**

1. Inspect the product ID label: This label should be present underneath the straps close to one of the D-rings and be fully legible.
2. Inspect harness hardware (buckles, D-rings). These items must not be damaged, broken, distorted, and must be free of sharp edges, burrs, cracks, worn parts, or corrosion.
3. Inspect the webbing and fabric. Textile parts must be free of frayed, cut, or broken fibers. Check for tears, abrasions, mold, burns, or discoloration. Inspect stitching. Check for pulled or cut stitches. Broken stitches may be an indication that the harness has been impact loaded and must be removed from service.
4. Try the harness on a person to make sure all components are working well.
5. Inspect each system component or subsystem according to manufacturer's instructions.
6. Record the inspection date and results in the inspection and maintenance log.


***If inspection reveals a defective condition, remove the unit from service immediately and destroy it. The security aspect is always the one to follow, so in case of any doubt, remove the product from service.***

## G) MAINTENANCE, STORAGE AND LIFETIME

- A dirty evacuation harness should be cleaned by hand, and then dried in a cool ventilated dark room. Webbing which have been wet and then dried may shrink slightly.
- An excessive buildup of dirt, paint, etc. may prevent the half-back evacuation harness from working properly, and in severe cases degrade the webbing to a point where it weakens and should be removed from service. More information on cleaning is available from *Barry Cordage*.
- Store the evacuation harnesses in a cool, dry, clean environment out of direct sunlight. Avoid areas where chemical vapors may exist. When storing the evacuation harness, make sure it is not compressed. Thoroughly inspect the evacuation harness after extended storage.
- Additional maintenance and servicing procedures must be completed by *Barry Cordage*. Do not attempt to disassemble the harness. Only *Barry Cordage* may make repairs to this equipment.
- The **maximum** lifetime of the evacuation harness is 10 years, **if** regular inspections do not reveal an anomaly. The actual lifetime depends on the intensity and the frequency of use as well as the environment. An exceptional circumstance might limit the product lifetime to a single use. An evacuation harness that was not inspected at least once per year should be removed from service and replaced.

## H) LABELING

This label must be present and fully legible:

 www.barry.ca fait au/made in Canada CA06195	CODE	CEVAC
	RUPTURE/BREAK	
	CHARGE TRAVAIL/WLL	310 lbs
	DIM.	
	LOT #	jj/mm.aa



# INSPECTION FORM

Model : CEVAC  
 Serial No. : \_\_\_\_\_  
 Description : Evacuation Harness  
 Manufacturer : Barry Cordage Ltd  
6110 Blvd. Des Grandes Prairies  
Montreal, Qc, Canada H1P 1A2

### User identity (company)

Name : \_\_\_\_\_  
 Address : \_\_\_\_\_  
 Telephone : \_\_\_\_\_  
 Fax : \_\_\_\_\_  
 E-Mail : \_\_\_\_\_

## Part A

**Historical check**  
**(Executed by user)**

Date of manufacture:	Date of purchase:	Date of first use:
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The results of this inspection are provided to you subject to the condition that the components to be inspected do not come into any of the categories listed below, any of which would require the systematic rejection of the component, namely:

- A user that does not respect the maximum weight limit of 310 lbs including clothing and tools
- A harness that components have undergone modifications or alterations outside our production units
- The use of this harness by persons that do not have the required training or that are not under supervision of competent persons
- Combining components of the harness or of the entire system with inappropriate or non-approved ones
- Component has received forces resulting from a fall or shock loading without a subsequent inspection
- Component has been in contact with environmental hazards like chemical products, abrasive substances, etc.
- Bad storage of the harness

The inspector accepts no responsibility in the case of omission or inaccuracy in the information concerning the verification of the component's history, which must be done by the user.

**Identification and User Signature**

Name: \_\_\_\_\_ Address: \_\_\_\_\_ Signature of user: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Téléphone : ( ) \_\_\_\_\_

## Part B

**Visual check of the safety components**  
**(Executed by inspector)**

		C	G	TM	TR	R
Textile Parts:	Condition of webbing (cuts, wear, burns)					
	Condition of stitching (broken, pulled, or worn threads)					
Metallic Parts:	Condition of hardware (deformation, marks, cracks, wear, corrosion)					

**Operational check**

	C	G	TM	TR	R
Operation of adjustment components					

**C:** Comment (See below) / **G:** Good / **TM:** To Monitor / **TR:** To Repair / **R:** Reject

**Checking the residual strength**

Only destructive testing would provide information on the strength of the device. This may give indications of the condition of other devices in your possession and in the same condition (Serial N° similar or close and identical use). A quote can be given on request.

**COMMENTS:**

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**VERDICT: (check)**

The product <b>is fit</b> to remain in service	<input type="checkbox"/>	The product <b>is unfit</b> to remain in service	<input type="checkbox"/>
<b>Date of inspection:</b>	_____	<b>Date of next inspection:</b>	_____

**Identification and Inspector Signature**

Name: \_\_\_\_\_ Address: \_\_\_\_\_ Signature of inspector: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Téléphone : ( ) \_\_\_\_\_



#### **WARRANTY**

Equipment offered by *Barry Cordage* is warranted against factory defects in workmanship and materials for a period of three months from date of purchase. Upon notice in writing, *Barry Cordage* will promptly repair or replace all defective items. This warranty does not cover equipment damages resulting from abuse, damage in transit, or other damage beyond the control of *Barry Cordage*. This warranty applies only to the original purchaser and is the only one applicable to our products, and is in lieu of all other warranties, expressed or implied.



**BARRY CORDAGE LTD**  
**6110 Boul. des Grandes Prairies**  
**Montreal, Qc, Canada H1P 1A2**  
**Toll Free : (800) 305-2673**  
**Phone : (514) 328-3888**  
**Fax : (514) 328-1363**