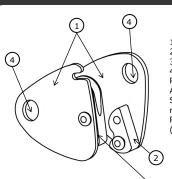


Rotational Braking Back-up Device User Instruction Manual

REDTM





RP890—no towing option RP891—fixed towing option RP892—popper towing option

- . Side plates
- Fixed cam
 Cam
- 4. Attachment holes

Principal materials:
Aluminium (side plates, cams).
Stainless steel (side plates, rivets)

Plastic (popper) Polyester (cord)

RED—product name / brand.
I|S|C—manufacturer identification.
CE0120—Body controlling the manufacture of PPE

- Always read and follow the instructions supplied by the manufacturer.

EN12841—Personal fall protection equipment — Rope access systems—Rope adjustment devices. A—Safety line adjustment device. max 140kg

• - EN1891, type A ropes Ø 10.5—11mm

YY/BBBBB/XX—Year of manufacture/Production batch/Incremental number.



Own rope weight (not tensioned).

Suitable for 2 person load (240kg) in a rescue situation.

Popper positions:

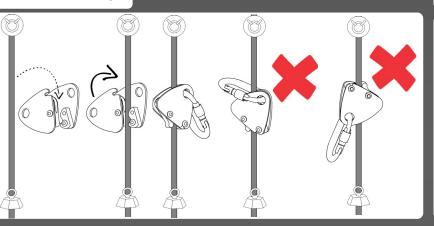


Alternative— upper position

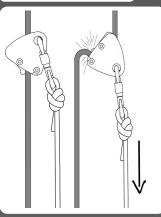
Allows the popper to disengage more easily, where extra towing advantage is not required.

<u>Standard— lower position</u> Easier to tow on thick, wet dirty ropes.

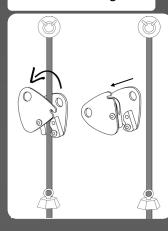
Installation— Fig 1



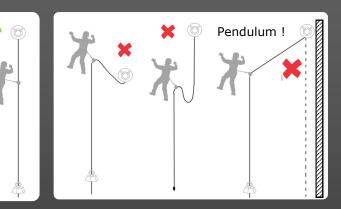
Operation— Fig 2



Removal - Fig 3



Clearance — Fig 4



Harness Attachment



Cowstail attachment points. Sternal ~

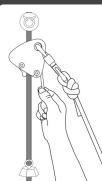
✓ Ventral

Users should liaise with their industry association and relevant harness manufacturer to determine which is the most suitable attachment point.

Cowstail maximum length (including connectors) of 800mm.



Towing - Fig 5



RP891—Fixed RP892—Popper™

Tow unknotted 3mm cord between thumb and first finger.

Popper[™]disengages at approximately 37N (+/- 2N).

THIS DOCUMENTATION SHOULD BE ISSUED WITH AND KEPT FOR EACH ITEM OR SYSTEM.

DIESE UNTERLAGEN SOLLTEN MIT HERAUSGEGEBEN WERDEN UND FÜR "EDES EINZELTEIL ODER SYSTEM GEHALTEN WERDEN.
ESTA DOCUMENTACIÓN SE DEBE PUBLICAR CON Y GUARDAR PARA CADA ARTÍCULO O SISTEMA.

DEZE DOCUMENTATIE ZOU MET MOETEN UITGEBRACHT WORDEN EN ZOU YOOR EIK ONDERDEEL OF SYSTEEM- MOETEN BUGEHOUDEN WORDEN.
CETTE DOCUMENTATION DOIT ÊTRE DÉLIVRÉE AVEC CHAQUE ÉLÉMENT OU SYSTÈME ET CONSERVÉE AVEC CELUI-CI

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RED™ Rotational Braking Back-up Device.

ISC equipment and components for prevention of falls from height meet or exceed recognised European, American or other International standards. A multi-language user instruction manual should accompany this product. It is the users responsibility to read and understand these instructions before use.

Responsibility

It is the user's responsibility to ensure understanding of the correct safe use of this equipment, to use it only for the purposes for which it is designed, and to practise all proper safety procedures. It is mandatory that a Risk Assessment be carried out prior to any use and a rescue plan be in place for any work at height. Do not exceed loads either specified by the manufacturer or loads derived from the specified MBS using a recognised factor of safety. Do not under any circumstances modify the product as alterations may render it ineffective.

Compatibility

Always ensure that all components within a safety system are compatible and allow the system to function safely.

Inspection

Immediately before, during and after use make visual inspections of the product to ensure that it is in a serviceable condition and is operating correctly.

Use Requirements

It is recommended that the viability of any installation should be verified by a suitably qualified person. Extreme care should be taken when using this product near harmful chemicals, moving machinery, electrical hazards and near sharp edges and abrasive surfaces. Wet and icy conditions may cause the rope to become

Testing

been carried out on Marlow 10.5 and 11mm LSK rope, using cows-tail made from 11mm Marlow dynamic rope, with suitable recognised knots at either end producing loops. One-man load 140kg, rescue load 240kg.

10.5mm 11mm

Please see our separate datasheet containing test results of varying fall distances.

The product must be cleaned regularly (or after every use in a marine environment) with a mild detergent. Afterwards the product should be rinsed in clean water and allowed to dry naturally. Alternatively an air gun can be used to clear debris from device. Moving parts may be oiled regularly with a light oil. A small drop may be applied to the spring hole on the side frame. Remove all excess oil from the device, with a soft rag/ cloth, before use .

Figure 1 - Installation

1a -Installation on rope

Swing the front plate through 180° Insert the rope, paying particular attention to the direction of the markings.

1b - Installation on rope

Close front frame - reverse of opening. Attach connector, approved to EN362:2004, through holes on front and back frame.

Figure 2 - Operational check

2a - Before each use, to verify the correct installation on the rope, a test must be carried out. Move the device up and down the rope. It must slide smoothly and easily. Ensure the device self-parks (stays in position when

2b – Test the locking on the rope by tugging sharply (on cowstail) in the direction of a fall - ensure the device locks.

Figure 3 - Removal

The removal of the device is the reverse of installation.

Figure 4 - Clearance

The strength of all anchors must be at least as great as that of the terminated ropes attached to them, and not less then 15kN (BS7985:2009). The anchor should be positioned above the user such that the free movement of the system and the fall path is unobstructed. Work as close to directly below the anchor point as is possible to avoid swing -fall injury (pendulum effect). When using 800mm cows-tail (including connectors) the clearance below the user's feet must be 4.6m to avoid collision with a structure or the ground in the event of a fall from height.

Figure 5 - Towing

backup device can be used The with a fixed towcord, a towcord with detachable popper $^{\text{TM}}$ or without a towcord. It is the responsibility of the user to carry out a risk assessment and determine which meth-All testing at ISC and the Notified body, has od of towing is best for their application.

When using any towcord, but especially the fixed towcord, do not:

tie a knot in the cord.

wrap the cord around a finger. trap the cord against any surface.

When towing the RED™, it should be towed between first finger and thumb. It is important that the user does not descend out of reach of the RED™ backup device. In a static (i.e towing) scenario, the popper $\mbox{\footnote{thm}}$ will not disengage at less than 3kg but should disengage in a dynamic scenario.

Storage & Transportation

The product should be stored in a clean, dry environment away from exposure to UV, corrosive or chemical substances or extreme heat sources. Care should be taken to protect the product against damage during transportation.

Product Inspection & Maintenance

In addition to the visual inspections (see Inspection) a thorough examination should be carried out by a competent person in line with applicable legislation and the intensity and environment of use. ISC recommends a thorough examination at least every twelve months. The product should be immediately withdrawn from use and not used again until confirmed in writing by a competent person that it is safe to do so, should any doubt arise about its condition for safe use or, if it has been used to arrest a fall. Extreme temperatures and the effects of chemicals, rust, cuts and abrasions could affect the performance of the equipment. Defective equipment shall be put beyond use to ensure it is not used as safety equipment.

Rescue

There are many ways in which a rescue can be carried out. A risk assessed rescue plan should be considered for each workplace and training environment. ISC would always recommend that where possible a rescue should be carried out using additional/new ropes installed for that purpose so that the integrity of the ropes used in the casualty's system do not have to be assessed since during a rescue scenario it is possible that a two-person dynamic load could be applied to the back-up rope. Only in the event of a rescue from below that utilises the casualty's existing lines and the casualty's backup line is loaded with a persons weight and where primary line failure might occur should the RED not be used as a back-up device since testing shows its performance to be inconsistent. Where additional/new lines are used to affect a rescue then the RED is the only device proven to be suitable to protect a rescuer/ casualty combination of up to 240kg.

Modifications, repair

There are no serviceable parts on the device except for the popper and tow cord. If required, repair or replacement of these items may be carried out by a suitably qualified or competent person see our separate instructions-KT892 UIM.

Manufacturers' responsibility

The manufacturer or distributor will not be held responsible for any eventual damages, injuries or death resulting from an improper use of this equipment. If there is any doubt about the compatibility of the products you have chosen please consult the manufacturer

Approvals - Declaration of Conformity

backup device has been tested and approved by SATRA, notified body number CE0321, in accordance with EN12841:2006 with a maximum rated load of 140kg and is subject to the procedures set out in Article 11b of Directive 89/686/ EEC under the supervision of SGS UK Ltd., Unit 202b, Worle Parkway, Weston-super-mare. BS22 6WA., notified body number 0120.

RP890 series RP890UIM :Issue I: February 2014