**RED™**
Rotational Braking Back-up Device
User Instruction Manual

**Installation — Fig 1**

**Operation — Fig 2**

**Removal — Fig 3**

**Clearance — Fig 4**

**Harness Attachment**

Popper positions:

**Alternative — upper position**
Allows the popper to disengage more easily, where extra towing advantage is not required.

**Standard — lower position**
Easier to tow on thick, wet dirty ropes.

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**PERIODIC THROUGH EXAMINATION AND REPAIR RECORD**

| Date / Datum / Data / Date | Inspection details / Detalles de inspección / Details de l’examen / Dettagli ispezione |
|---------------------------|----------------------------------|----------------------------------|------------------------|
|                           | Name and signature / Firmen Sie und Unternehmens / Nombre y la firma / Nome e firma |
|                           | Next examination / Nächstes Untersuchung / Próximo examen / Esame successivo |

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1. Side plates
2. Fixed cam
3. Cam
4. Attachment holes

**1. Side plates**
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**3. Cam**
**4. Attachment holes**

**Principal materials:**
Aluminium (side plates, cams).
Stainless steel (side plates, rivets).
Plastic (popper) Polyester

**RED**—product name / brand.
**ISC**—manufacturer identification.
**CE0120**—Body controlling the manufacture of PPE.

**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.

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

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**RP891**—Fixed
**RP892**—Popper™

**Tow unknotted 3mm cord between thumb and first finger.**

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

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**CETTE DOCUMENTATION DOIT ÊTRE DÉLIVRÉE AVEC CHAQUE ÉLÉMENT OU SYSTÈME ET CONSERVÉE AVEC CELUI-CI.**

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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.

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**RED™ Rotational Braking Back-up Device.**

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

**WARNING -** Activities involving the use
of this equipment are inherently dangerous – this
equipment should only be used by a com-
petent person or a person specifically
trained in its use who is under the direct su-
pervision of a competent person.

**Responsibility**

It is the user’s responsibility to ensure un-
derstanding of the correct safe use of this
equipment, to use it only for the purposes for
which it is intended, and to practice all prop-
er 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 de-
duced from the specified MBs using a rec-
ognised 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 en-
sure 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, elec-
trical hazards and near sharp edges and
abrasive surfaces. Wet and icy condi-
tions may cause the rope to become
slippery.

**Testing**
All testing at ISC and the Notified body, has
been carried out on Marlow 10.5 and 11mm
LSK rope, using cows-tail made from 11mm
Marlow dynamic rope, with suitable recog-
nised knots at either end producing loops.
One-man load 140kg, rescue load 240kg.
Max fall distances using Marlow LSK:
- 10.5mm
  - One-man load 1600mm
  - Rescue load 300mm
- 11mm
  - One-man load 1600mm
  - Rescue load 800mm
Please see our separate datasheet contain-
ting test results of varying fall distan-
cess.

**Cleaning**
The product must be cleaned regularly (or after
evory use in a marine environment) with a
mild detergent. Afterwards the product
should be rinsed in clean water and al-
lowed 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
swivel hole on the side frame. Remove all
excess oil from the device, with a soft rag/
clutch, 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.

**WARNING –** RED™ is a directional device and
locks in only one direction.

**DO NOT INSTALL DEVICE UPSIDE
DOWN.**

1b - Installation on rope

Swing the side frame – reverse of opening.

Attach connector, approved to EN362:2004,
through holes on front and back frame.

**WARNING –** Ensure device is closed and
frames cannot be rotated with connector
attached.

**Figure 2 – Operational check**
2a - Before each use, to verify the correct in-
environment of use.

If 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
released).

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

**WARNING** – RED™ is a directional de-
vice and locks in only one direction.

**DO NOT INSTALL DEVICE UPSIDE
DOWN.**

**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 at-
tached to them, and not less than 15kN
(BS7985:2009).

The anchor should be posi-
tioned 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
(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**
The RED™ backup device can be used with a
fixed towcord, a towcord with de-
tachable popper™ or without a towcord.
It is the responsibility of the user to carry out a
risk assessment and determine which meth-
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 im-
portant that the user does not descend out of
reach of the RED™ backup device. In a static
(i.e towing) scenario, the popper™ will not
disengage at less than 3kg but should disen-
gage in a dynamic scenario.

**WARNING –ISC RED™ RP891–** The device
will not function correctly if the user keeps
hold of the towcord in a controlled or uncon-
trolled situation.

**WARNING –ISC RED™ RP892–** The popper™
is a device designed to help mitigate but not
remove risk, and if the user holds the tow-
cord the popper may not disengage (deploy)
in an emergency situation and as such the ISC RED™ RP892 should be treated as per
the warning for the ISC RED™ RP891.

**WARNING –** Industry best practice dic-
tates that the RED™ backup device shall
never be lower than its harness attachment
point or the main descending device, which-
ever is the higher.

**Storage & Transportation**
The product should be stored in a clean, dry
environment away from exposure to UV, cor-
rrosive or chemical substances or extreme
heat sources. Care should be taken to pro-
tect the product against damage during
transportation.

**Product Inspection & Maintenance**
In addition to the visual inspections (see In-
spection) a thorough examination should be
conducted by an experienced engineer in
line with applicable legislation and the intense
environment of use. ISC recom-
mends a thorough examination at least eve-
ry 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.

**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 the
system is an integral part of the casualty’s
equipment. Where additional/new lines are
used to affect a rescue then the RED is the only
device proven to be suitable to protect a res-
uer/casualty combination of up to 240kg.

**Modifications, repair**
There are no serviceable parts on the RED™
device and no repair of towcord or tow cord.
If required, repair or replacement of these items
may be carried out by a suitably qualified or
competent person see our separate instruc-
tions—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.