APPENDIX 1. MFG INSTRUCTIONS & TOOL INSPECTION INFO

1.1 ROPE USE & CARE

This equipment must never be modified from its original design. Modifications will result in an unsafe product. The manufacturer does not recommend modifications to this product in any manner whatsoever. Modifications void any warranty.

This equipment must not be used for any applications outside its rated load limits or for applications for which it is not intended. The user must also be aware of limitations of other equipment used in conjunction with this product to be fully assured they are compatible with this product as part of a total system. The use of non-compatible equipment within a system can lead to catastrophic failure of the system and individual parts within a system.

All equipment must be inspected before each use. Ropes must be inspected visually and manually (with bare hands) along every inch of its length. It is the user's responsibility to know the history of his / her rope and make the decision as to when a rope must be retired. **The manufacturer cannot guarantee the specifications of a used rope.** The pre and post use inspection must be noted in the accompanying rope log.

If your rope does not meet the following inspection criteria it MUST be retired. This includes all points in the inspection criteria as well as loss of faith or doubt as to the serviceability for the rope. All ropes deemed unsuitable for use must be destroyed by cutting into sections of less than ten feet to prevent future use by an unknowing person.

When to retire your rope- The following are general guidelines than can assist you in deciding when to retire a rope. If your rope has any of these problems listed in the inspection criteria it must be retired.

1.2 ROPE INSPECTION CRITERIA

Abrasion / Sheath Wear – the core is exposed or more than half of the outer sheath yarns are abraded.

Fraying – indicates broken or damaged sheath bundles which are an indication of abrasion or overloading.

Glazing and / or glossy marks or hard, stiff areas signify heat damage. Typically this is the result of contact with a descender that has become overheated in a controlled descent.

Discoloration – a change in the rope's original color is an indication of chemical damage or exposure to the elements of nature including Ultraviolet (UV) radiation.

Exposed core fibers indicate severe sheath damage and possible core damage.

A Lack of Uniformity in Diameter or Size indicates core damage. This is noted by a depression in the diameter of the rope, lumpiness of the rope or exposed core strands protruding from the rope.

Inconsistency in texture of the rope can be an indication of excessive wear. This is most noted as soft or stiff areas in the rope.

Use / Age – the rope can become simply worn out over time. A low elongation / static rope must be removed from service no more than ten years from its manufacture date.

Loss of Faith – if you feel uncomfortable for any reason or suspect there may be a problem with your rope it must be retired and destroyed.

CAUTIONS

Sheath abrasion – Take care to protect your rope from abrasion. Always use a proper rope pad or edge guard. Sheath damage is the most common cause of early rope retirement. Be sure to properly pad surfaces to which the rope is exposed. Be especially sure to inspect hardware to be used in conjunction with the rope for flaws that may damage the sheath strands.

Avoid stepping on your rope – Beside the potential of cutting, stepping on a rope will grind grit into the core which can cause internal abrasion. A ground cloth should be used to keep the rope from being in direct contact with mud, dirt and grit.

Keep your rope clean – Dirt, mud, and grit will shorten the life of your rope by increasing

internal and external abrasion. Wash your rope occasionally in cold water with small amounts of mild soap. DO NOT USE ANY CLEANERS WITH BLEACH OR BLEACH SUBSTITUTES. Rinse the rope in several baths of clean water to remove all traces of soap residue. The rope must be loosely coiled and air-dried in the shade away from direct sunlight. Do not dry rope in a clothes dryer.

Open Flame and High Temperatures – Do not expose any rope to flame or high temperatures as it will melt or burn causing rope failure. Carry and store the rope so it is protected against flame or high temperatures. The melting point of type 6 nylon is 419 to 430 degrees Fahrenheit. The melting point of polyester is 500 degrees Fahrenheit.

Accidental Dynamic Loading – Although your BlueWater ArmorTech rope is designed to help absorb the energy of **ACCIDENTAL** dynamic loading the user is responsible for checking rigging to avoid dynamic loading in any manner whatsoever. If an accidental dynamic loading does occur, the rope must be retired and destroyed. Always check every piece of gear in the system to insure compatibility. Be sure the hardware you use is designed for the rope diameter you choose.

Always use proper rappelling and belaying techniques – Fast rappels. Bounding or swinging, positioning the rope over a sharp edge, dynamically loading a low elongation / static rope are some of the examples of uses that damage your rope and will cause failure and injury or death. Any belay device, ascender, descender or similar hardware will put bends in a rope and have the potential to contribute to rope abrasion. Avoid all worn out hardware as it can destroy your rope. Fast rappels will cause excessive heat from friction that will damage your rope. This heat will melt the sheath fibers causing a glazing or stiffening effect that dramatically shortens the life of your rope. Always take care to rappel and lower slowly and in control.

Chemical Contamination – Protect your rope from exposure to harsh chemicals, Exposure to chemicals will cause failure that can result in injury or death, DO NOT allow your rope to come into contact with any compounds containing acids, alkalis, oxidizing agents, phenol or bleaching compounds. Be especially careful to avoid contact with battery acid, Remember – Contaminants can be in the form of liquids, solids, mists and vapors. Contamination may, or may not, be visible and may, or may not be, detectable, lf you suspect your rope has been contaminated it must be destroyed by cutting into unusable sections to prevent future use by anyone.

Ultraviolet Ray Exposure – Ropes should always be stored in a rope bag to reduce the possibility of exposure to contaminants and unnecessary exposure to Ultraviolet (UV) rays. Solar degradation should be checked by rubbing the surface of the rope with the thumbnail. If degradation has taken place, the surface material will come off as powder.

RT-200

HI-TEST ROPE TESTER

Operating & Instruction Manual

HD ELECTRIC COMPANY
1475 LAKESIDE DRIVE • WAUKEGAN, ILLINOIS 60085 U.S.A.
PHONE 847.473.4980 • FAX 847.473.4981 • website: www.HDElectricCompany.com

WELCOME TO THE...
HD ELECTRIC COMPANY FAMILY OF ELECTRICAL PRODUCTS

Hi-Test Detection Instruments is now a part of the HD Electric Company group of Electrical Test and Measurement equipment.

HD Electric Company, located in Waukegan, Illinois, USA is a manufacturer and provider of a wide range of electrical equipment. We have been in business for over 65 years by providing proven products and reliable service. Our product offerings include Electrical Test and Measurement, Control Instrumentation & System Measurement, Lighting Products and Specialty Products. If you are already an HD Electric Company customer, we thank you for your valued business. If you are a new customer, we appreciate your business and look forward to meeting all of your needs.

At HD Electric Company, it is our goal to provide you with the tools and equipment you need to perform your job in the safest and most efficient way possible. It is our intention to provide you with the continuing service and support your need for all your Hi-Test equipment. You should feel free to contact us regarding any aspect of the application or operation of this test equipment. We can be reached at:

HD ELECTRIC COMPANY
1475 Lakeside Drive
Waukegan, IL 60085 USA
Tel: 847-473-4980 • Fax: 847-473-4981
www.HDElectricCompany.com

At HD Electric Company, we understand the special training and requirements for work on electrical power distribution systems. Please take a few moments to read this manual in its entirety before using your new equipment. Pay special attention to the warnings and cautions both in this manual and on the equipment itself.

NOTICE - This product is designed for use by professionals trained in its use and application in and around high voltage electrical equipment. If you are not trained in the work methods required for safe operation, do not proceed until you obtain training.

CAUTION - This product was tested before leaving the factory but it must be tested prior to and after each use for proper working operation. Be aware that dirt, moisture, mechanical fatigue and other factors reduce the dielectric strength of this product. If any defect of condition is noted, do not use this product. Remove from service and arrange for repair.

WARNINGS - Rigorous hot stick work precautions and OSHA and company work practices must be followed. Always wear approved cover-up and safety equipment. Read and understand instructions prior to use. Misuse or abuse of this product can lead to severe injury or death.

Unit Serial No.: _____
Manufacture Date: _____

OPERATING INSTRUCTIONS

1. Insert one end of the rope to be tested in the clamps on the tester by lifting clamps and inserting the rope.

2. Push the ON button; the ON/CHARGE LED indicator will light green.

3. Hold the tester with one hand and pull the rope continuously through the clamps in one direction at any speed up to 30 centimeters or 1 foot per second. As long as the rope is non-conductive (i.e. good), the green ON/CHARGE LED indicator will remain lit. If the rope (or any section of it) is conductive (i.e. bad), the red BAD LED indicator will light and a Buzzer will sound.

NOTE: a) the rope can be pulled through the test clamps in either direction;

b) ropes of a diameter larger than 3.5 centimeters or 1.25" should be rotated or "spun" as they are pulled through the test clamps. One rotation per 30 to 60 centimeters or 1 to 2 feet will increase the surface contact between the rope and the clamps when the rope is of a larger diameter.

4. After pulling the entire length of rope to be tested through the test clamps, turn the tester OFF by pushing the ON button again. The green ON/CHARGE LED indicator will go out. This will preserve the charge in the battery.

WE RECOMMEND THAT ROPES BE TESTED AS CLOSE TO THE TIME OF USE AS POSSIBLE. Variations in humidity over time make it possible for the same rope to test good at one time and bad at another time.

POSSIBLE SHOCK HAZARD FROM THE ROPE TESTER

1. The operator should avoid getting in series with the two test clamps on the tester. There is a current of 35 - 40 microamps at approximately 7 KVDC between the test clamps when the tester is turned ON.

2. The operator should avoid getting in series between either of the test clamps and the contact pins in the battery recharging receptacle on the side of the tester. There is a current of 35 - 40 microamps at approximately 7 KVDC between these points when the tester is turned ON.

BATTERY RECHARGING

1. When the LOW BAT. LED indicator lights red, the battery should be recharged using the adapter supplied with the tester. A full charge will require 12 hours of recharging.

2. When the adapter is connected to the tester, the ON/CHARGE LED indicator will light red to indicate the battery is charging.

If the ON/CHARGE LED indicator is amber in color, it means the tester is turned on while you are attempting to recharge the battery. The battery will not recharge under this condition.

If the ON/CHARGE LED indicator does not light at all, it means the battery is not being recharged. Check to ensure that both ends of the adapter are properly connected; check to ensure that there is power at the wall outlet you are using to recharge the battery.

3. We recommend that the battery be recharged nightly rather that waiting for the LOW BAT. LED indicator to come on. The battery used in this tester is an 8-volt, 1 amp. hr. sealed lead acid battery. It will not suffer from the "discharge memory" problem which NiCad batteries are susceptible to when recharged from a partially discharged condition. Lead acid batteries should not be drained and then left in a discharged state. If the battery is left discharged for extended periods of time, this will permanently damage the battery and shorten its life. They should always be charged before storing them for any length of time. It is also important to ensure that the battery is fully recharged at least once every three months when the tester is not being used regularly. This will protect the battery against early failure.

WARRANTY

The Hi-Test Rope Tester (Model RT-200) is warranted against defects in manufacture for a period of one year from the date of purchase. The only exclusions to this warranty are:

1) the rechargeable battery;

2) evidence that the tester has been subjected to unusual physical damage (including cracks, breaks, or dents in the plastic case and/or components consistent with the tester having been dropped, crushed, or otherwise mishandled); and

3) if the tester is returned in a condition that indicates it has been modified or tampered with.

This product is built to the highest quality standards. An extensive program of laboratory development and field testing preceded its commercial introduction to ensure that it will withstand the rigors of field use. However, it is an electronic instrument and is subject to breakage if it is handled in an excessively rough manner.

If the tester requires repair, it must be returned to HD Electric Company, or their agents; freight prepaid and properly packaged to protect it against damage in shipping. HD Electric Company and its agents will assume no liability for damaged instruments not properly packaged.

If you have any problems, questions, or comments about the tester, phone HD Electric Company in Waukegan, Illinois, USA at 847-473-4980 or fax us at 847-473-1981.

LIMITED WARRANTY AND LIMITATION OF LIABILITY

This warranty applies to all products sold by HD Electric Company (the "Products"); provided, however, that the term Products does not include any third party products purchased through HD Electric Company, for which no warranties are made (the "Third Party Products"). Third Party Products may be subject to a separate manufacturer's warranty; [should you have any question regarding whether a separate warranty applies, please contact HD Electric Company].

NOTICE: READ THIS LIMITATION OF WARRANTY AND LIABILITY BEFORE BUYING OR USING THE PRODUCTS CONTAINED HEREIN.

It is impossible to eliminate all risks associated with the use of the Products. Risks of serious injury or death, including risks associated with electrocution, arcing and thermal burns, are inherent in work in and around energized electrical systems. Such risks arise from the wide variety of electrical systems and equipment to which Products may be applied, the manner of use or application, weather and environmental conditions or other unknown factors, all of which are beyond the control of HD Electric Company.

HD Electric Company does not agree to be an insurer of these risks.

WHEN YOU BUY OR USE THESE PRODUCTS, YOU AGREE TO ACCEPT THESE RISKS.

HD Electric Company warrants to the original purchaser that the Products (excluding any third party products purchased through HD Electric Company, for which no warranties are made) will be free from defects in material and workmanship, under normal use and regular service, and preventative maintenance for a period of one (1) year from the date of shipment (the "Warranty Period"). Should any failure to conform with this warranty be found during the Warranty Period, you must notify HD Electric Company of your claim within thirty (30) days of discovery, and within the Warranty Period. Your failure to give notice of claims of breach of warranty within the Warranty Period shall be deemed an absolute and unconditional waiver of claims for such defects. HD Electric Company will have no responsibility to honor claims received after the date the applicable Warranty Period expires.

Upon notice of your claim, HD Electric Company will provide a return authorization number, and further instructions on how to return the product for service. You must follow HD Electric Company's instruction. You are responsible for all Product removal, handling, re-installation, and shipping (both to and from HD Electric Company). Products returned for repair, as well as repaired or replacement Products shall be sent postage / freight prepaid. After receipt of a product which HD Electric Company determines is defective, HD Electric will, at its option, either (1) repair (or authorize the repair of) the Product or (2) replace the Product, subject to the following: The Products are made using parts sourced from a variety of manufacturers. Due to the rapidly changing technology environment, parts may become obsolete / unavailable over time (end of life). In the event that a Product cannot be repaired or replaced due to unavailability of parts, HD Electric Company will use commercially reasonable efforts to obtain substitute parts or conduct work around design, but cannot guarantee its ability to do so.

Items not found defective will be returned at your expense, or failing receipt of instruction from you on return of such items within five (5) business days of our notice to you that the product is not defective, HD Electric may dispose of the product at its discretion and with no liability to you. HD Electric Company's determination of defects is final. Products repaired or replaced during the Warranty Period shall be covered by the foregoing warranties for the remainder of the original Warranty Period or ninety (90) days from the date of delivery of the repaired or replaced Products, whichever is longer.

LIMITATIONS:
This warranty is void in the event of misuse, alteration, faulty installation, or misapplication of the product. This warranty does not cover failure of product or components due to any ACT OF NATURE; lightning, floods, hurricanes, tornadoes or any other such catastrophic events.

HD Electric Company does not warrant any third party products or associated hardware or their performance or suitability for use and application. Such items are provided "as-is".

All repairs must be authorized by HD Electric Company. Unauthorized repairs will not be reimbursed under any circumstances.

HD Electric Company is not required to make replacement or loaner equipment available while Products are being repaired or replaced, or to compensate you for any in/out labor charges or expenses associated with removal, handling or re-installation of the Products.

TO THE MAXIMUM EXTENT PERMITTED BY LAW, THIS WARRANTY AND THE REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED. HD ELECTRIC EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY AND NON-INFRINGEMENT.

IN NO EVENT SHALL HD ELECTRIC COMPANY BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THESE PRODUCTS. THIS SHALL INCLUDE BUT, NOT LIMITED TO, LOST PROFITS OR REVENUE, LOSS OF USE OF THE PRODUCTS, COST OF SUBSTITUTE PRODUCTS, FACILITIES OR SERVICES, OR DOWNTIME.

IN NO EVENT SHALL HD ELECTRIC COMPANY HAVE ANY LIABILITY FOR ANY THIRD PARTY PRODUCTS OR ASSOCIATED HARDWARE, OR CUSTOMER-OWNED SYSTEMS, EQUIPMENT OR SOFTWARE.

HD Electric Company must have prompt notice of any claim so that an immediate product inspection and investigation can be made. Buyer and all users shall promptly notify HD Electric Company of any claims, whether based on contract, negligence, strict liability, or other tort or otherwise be barred from any remedy.

HD Electric Company is committed to ongoing review and improvement of its product lines, and thus reserves the right to modify product design and specifications without notice.

HD Electric Company products are available through HD sales representatives worldwide.

Appendix 1: Support Documents

PETZL

3 year guarantee

ASAP LOCK

CE 0082 EN 353-2: 2002 EN 12841: 2006 A

Patent Pending

(EN) Mobile fall arrester for rope
(FR) Antichute mobile sur corde

425 g

WARNING

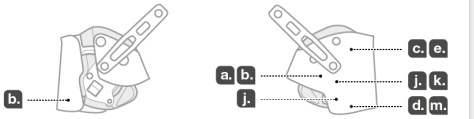
Activities involving the use of this equipment are inherently dangerous. You are responsible for your own actions and decisions.

Before using this equipment, you must:
- Read and understand all Instructions for Use.
- Get specific training in its proper use.
- Become acquainted with its capabilities and limitations.
- Understand and accept the risks involved.

FAILURE TO HEED ANY OF THESE WARNINGS MAY RESULT IN SEVERE INJURY OR DEATH.

PRICE

Traceability and markings / Traçabilité et marquage



CE 0082
- a. Body controlling the manufacture of this PPE
- b. Notified body that carried out the CE type examination

Apave Sudeurope SAS CS 60193 - 13322 Marseille Cedex 16 - France

- c. Traceability: **datamatrix** = product reference + individual number
- d. Rope diameter
- m. Nominal maximum load

e. Individual number
00 000 AA 0000
- f. Year of manufacture
- g. Day of manufacture
- h. Control or name of inspector
- i. Incrementation
- j. Standards
- k. Carefully read the instructions for use
- l. Model identification

PETZL.COM — Latest version — Other languages — Product Experience — PPE checking

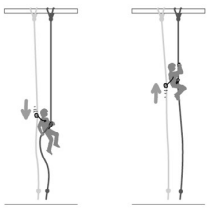
PETZL
F-38920 Crolles
PETZL.COM
ISO 9001
© Petzl
Made in France

PETZL Fondation — Sustaining our Community / Au service de la Communauté — **FONDATION-PETZL.ORG**

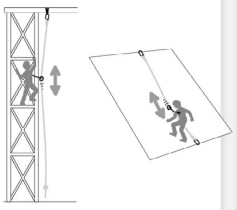
100% Recycled paper

1. Field of application / Champ d'application

EN 12841 type A



EN 353-2



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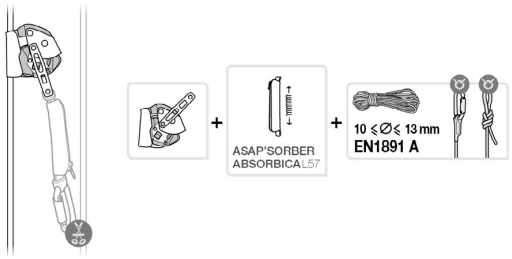
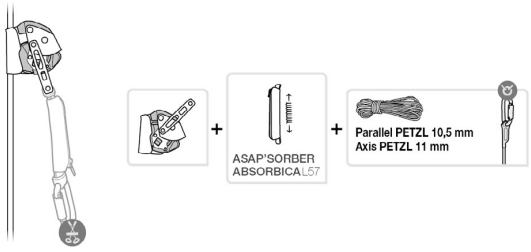
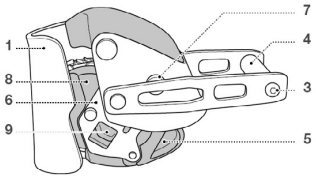
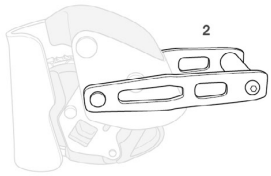


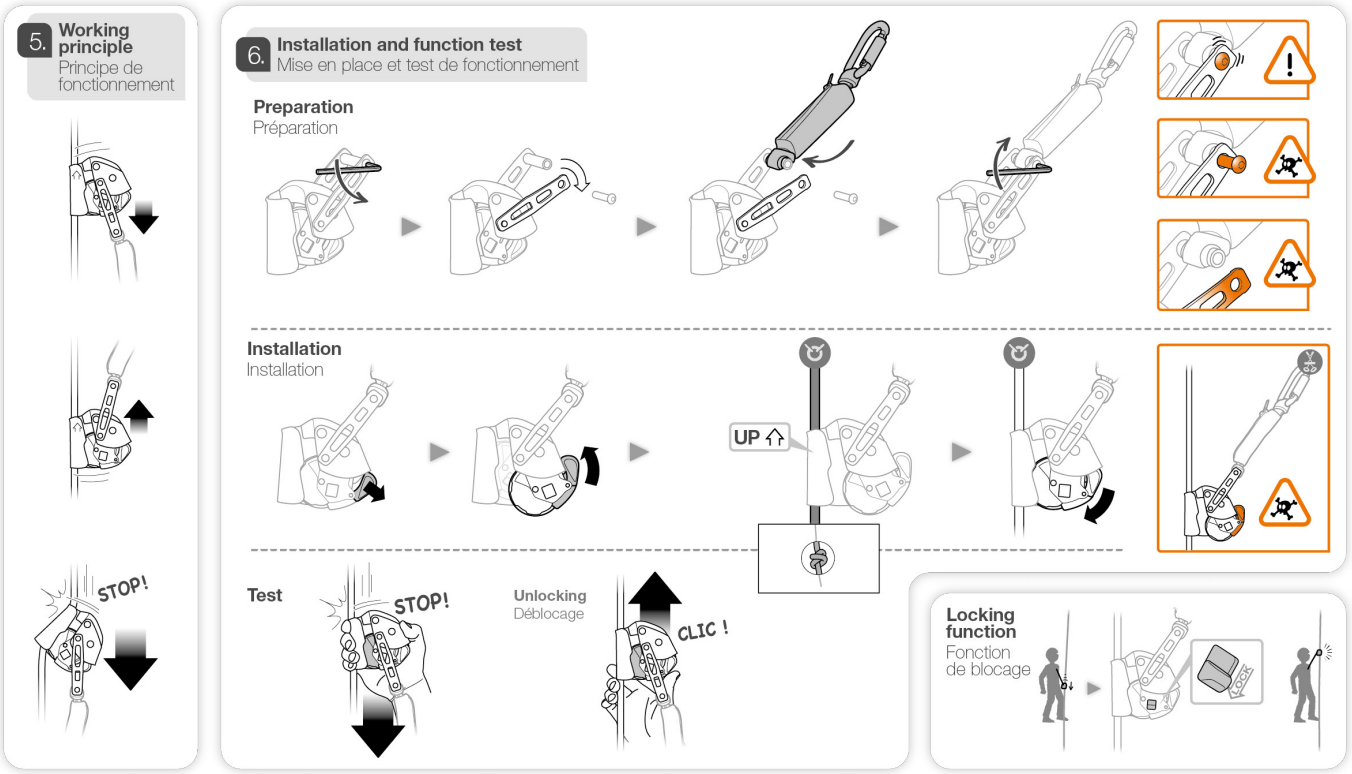


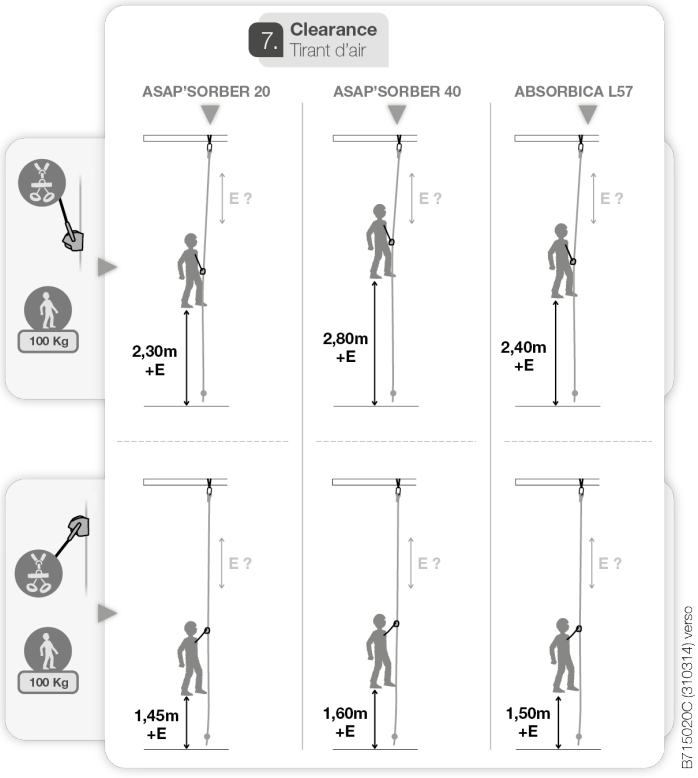
2. Nomenclature





3. Inspection, points to verify / Contrôle, points à vérifier


5. Working principle
Principe de fonctionnement
STOP!
6. Installation and function test
Mise en place et test de fonctionnement
Preparation
Préparation
Installation
Installation
UP
Test
STOP!
Unlocking
Déblocage
CLIC !
Locking function
Fonction de blocage


7. Clearance
Tirant d'air
ASAP'SORBER 20
ASAP'SORBER 40
ABSORBICA L57
100 Kg
2,30m +E
2,80m +E
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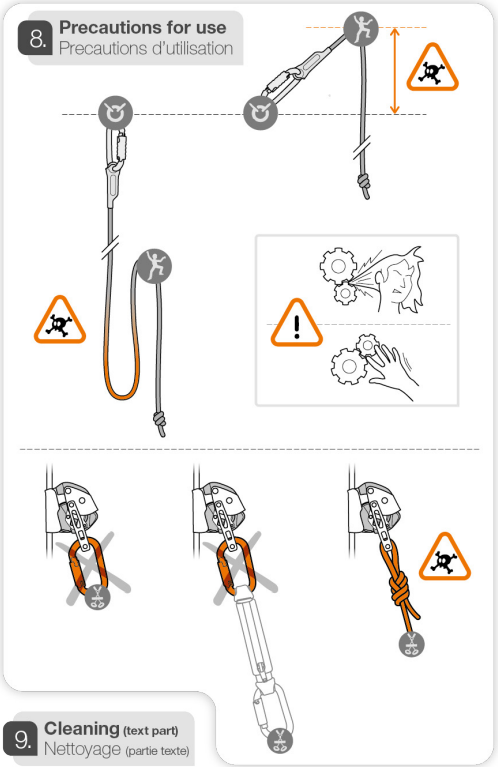
E ?
B715020C (310314) verso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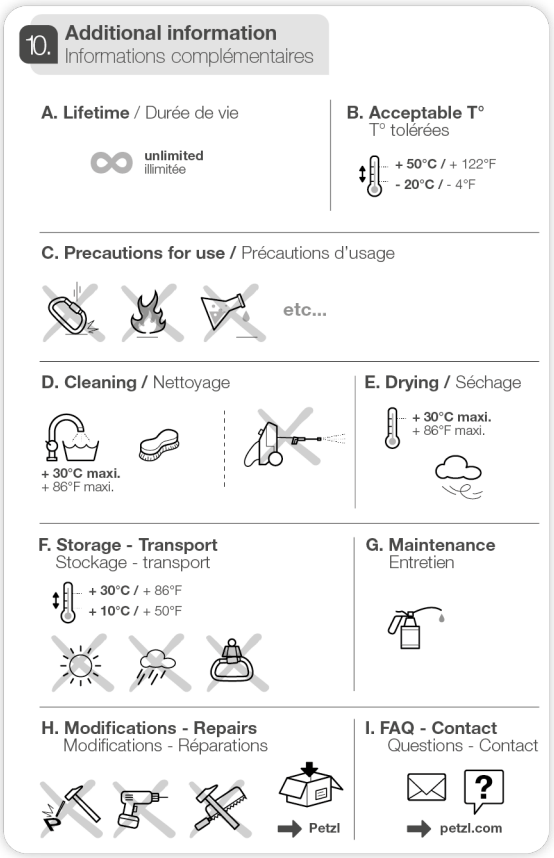
Précautions d'utilisation
9. Cleaning (text part)
Nettoyage (partie texte)



100% FALL PROTECTION MANUAL

EN

These instructions explain how to correctly use your equipment. Only certain techniques and uses are described. The warning symbols inform you of some potential dangers related to the use of your equipment, but it is impossible to describe them all. Check Petzl.com for updates and additional information. You are responsible for heeding each warning and using your equipment correctly. Any misuse of this equipment will create additional dangers. Contact Petzl if you have any doubts or difficulty understanding these instructions.

1. Field of application

Personal protective equipment (PPE).

ASAP LOCK: mobile fall arrester for rope, with locking function.

EN 12841 type A: rope adjustment device for the safety rope. Backup device for a rope access system, to be used in conjunction with a type B or C progression device.
EN 353-2: mobile fall arrester including a flexible safety line. Primary belay device in a fall arrest system
This product must not be pushed beyond its limits, nor be used for any purpose other than that for which it is designed.

Responsibility

WARNING

Activities involving the use of this equipment are inherently dangerous.
You are responsible for your own actions, decisions and safety.

Before using this equipment, you must:
- Read and understand all instructions for use.
- Get specific training in its proper use.
- Become acquainted with its capabilities and limitations.
- Understand and accept the risks involved.

Failure to heed any of these warnings may result in severe injury or death.

This product must only be used by competent and responsible persons, or those placed under the direct and visual control of a competent and responsible person.
You are responsible for your actions, your decisions and your safety and you assume the consequences of same. If you are not able, or not in a position to assume this responsibility, or if you do not fully understand the Instructions for Use, do not use this equipment.

2. Nomenclature

(1) Frame, (2) Clevis, (3) Screw, (4) Connection pin, (5) Safety catches, (6) Arm, (7) Arm axle, (8) Locking wheel, (9) Locking button.
Principal materials: aluminum alloy (frame, arm), stainless steel (locking wheel, clevis), polyester, nylon (ropes).

3. Inspection, points to verify

Your safety is related to the integrity of your equipment.
Petzl recommends a detailed inspection by a competent person at least once every 12 months (depending on current regulations in your country, and your conditions of usage). Follow the procedures described at www.petzl.com/ppe. Record the results on your PPE inspection form: type, model, manufacturer contact info, serial number or individual number, dates: manufacture, purchase, first use, next periodic inspection; problems, comments, inspector's name and signature.

Before each use

ASAP LOCK: verify that the absorber is correctly installed on the clevis, and that the latch is properly tightened.
Verify there are no cracks, nicks, deformation, wear, corrosion (on the frame, wheel, arm, clevis).
Verify the condition of the safety catches, and that their return spring works.
Verify that the arm pivots on the axle, and that the return spring works. Verify that the locking wheel is clean and that the teeth are not worn out. Warning: if one or more teeth are missing, do not use the ASAP.
If the teeth are dirty, see the paragraph on Cleaning, maintenance. Verify that the locking wheel rotates smoothly, through one complete revolution in both directions.
Rope: check the condition of the rope according to the manufacturer's instructions. The rope must be retired if it has held a fall, if the core seems deformed, or if the sheath is damaged or stained.

During each use

It is important to regularly monitor the condition of the product and its connections to the other equipment in the system. Make sure that all pieces of equipment in the system are correctly positioned with respect to each other.
Beware of foreign objects that can prevent the locking wheel from contacting the rope, or from turning. Protect your ASAP from splashes while working (paint, cement...). Make sure that the locking wheel is always engaged on the rope.

4. Compatibility

Verify that this product is compatible with the other elements of the system in your application (compatible = good functional interaction).
Equipment used with your ASAP LOCK must meet current standards in your country (e.g. EN 361 harnesses in Europe...).

Harness:

Connect your ASAP's energy absorber to the fall arrest attachment point on your harness.

Energy-absorbing lanyard:

Use the ASAP LOCK only with compatible Petzl energy absorbers:
- ASAP'SORBER.
- ABSORBICA L57.
The energy absorber must not be extended (one connector maximum (12 cm max. length) at each end).

Rope, EN 12841 Type A usage:

- Use the ASAP LOCK with 10-13 mm EN 1891 type A semi-static kernmantel ropes.
Ropes tested during the CE EN 12841 type A certification:
- BEAL ANTIPODES 10 mm.
- GRIP 12.5 mm

Rope, EN 353-2 usage:

Use the ASAP LOCK only with the ropes tested during the CE EN 353-2: 2002 certification:
- PARALLEL 10,5 mm.
- AXIS 11 mm.

5. Working principle

At moderate speeds, the locking wheel turns freely in both directions. A rapid downward movement causes the locking wheel to stop rotating; the rope is locked by pinching between the wheel and the frame.

6. Installation and function test

Preparation:
Use only your ASAP LOCK's original latch. Apply thread lock to your latch before assembly. Install the energy absorber and close the clevis. Tighten, check the correct positioning of the axle and the tightness of the latch.
Installation: open the safety catches to place the rope in the frame, close the latches to engage the locking wheel on the rope.
Warning, the ASAP is a directional device and locks in only one direction. Danger of death if the ASAP is positioned upside down on the rope.
Perform a function test for each installation.
Unlocking: after the function test, unlock the wheel so the device can slide on the rope normally.
Locking function: use the wheel's locking button to keep the ASAP LOCK from moving downward on the rope. Warning: in case of accidental suspension on a locked ASAP LOCK, it cannot be unlocked while under load.

7. Clearance

Clearance is the minimum amount of clear space below the user that prevents the user from contacting any obstacle in case of a fall.
Clearance takes into account:
- The ASAP's stopping distance.
- The tearing length of the energy absorber.
- The average height of the user.
- A safety margin of 1 m.
The rope's elasticity (E) varies according to the situation and must be added to your clearance calculation.
For more information, see the ASAP product experience document at petzl.com.
The values presented are based on theoretical estimations and fall tests using a rigid mass. In a fall arrest system, take into account the length of any connectors that will have an effect on the fall distance.

8. Precautions for use

As you progress, regularly check that the rope is sliding properly in the ASAP, to avoid creating a loop of slack.
A dynamic overload can damage the rope. If the ASAP's rope is loaded, the user must have another safety rope available.

9. Cleaning, maintenance

Avoid getting any liquid inside the locking wheel's mechanism.
For cleaning the locking wheel's teeth, using a solvent is not recommended, but possible if applied with a brush, taking care to avoid getting any solvent in the mechanism.

10. Additional information

- You must have a rescue plan and the means to rapidly implement it in case of difficulties encountered while using this equipment.
- The anchor point for the system should preferably be located above the user's position and should meet the requirements of the EN 795 standard (minimum strength of 12 kN).
- In a fall arrest system, it is essential to check the required clearance below the user before each use, to avoid any impact with the ground or an obstacle in case of a fall.
- Make sure that the anchor point is correctly positioned, in order to limit the risk and the length of a fall.
- A fall arrest harness is the only device allowable for supporting the body in a fall arrest system.
- When using multiple pieces of equipment together, a dangerous situation can result if the safety function of one piece of equipment is affected by the safety function of another piece of equipment.
- WARNING DANGER, take care that your products do not rub against abrasive or sharp surfaces.
- Users must be medically fit for activities at height. Warning, inert suspension in a harness can result in serious injury or death.
- The Instructions for Use for each item of equipment used in conjunction with this product must be followed.
- The Instructions for Use must be provided to users of this equipment in the language of the country in which the product is to be used.
- Make sure the markings on the product are legible.

When to retire your equipment:
WARNING: an exceptional event can lead you to retire a product after only one use, depending on the type and intensity of usage and the environment of usage (harsh environments, marine environment, sharp edges, extreme temperatures, chemical products...).
A product must be retired when:
- It has been subjected to a major fall (or load).
- It fails to pass inspection. You have any doubt as to its reliability.
- You do not know its full usage history.
- When it becomes obsolete due to changes in legislation, standards, technique or incompatibility with other equipment...
Destroy these products to prevent further use.

Icons:
A. Unlimited lifetime - B. Acceptable temperatures - C. Usage precautions - D. Cleaning/disinfection - E. Drying - F. Storage/transport - G. Maintenance - H. Modifications/repairs (prohibited outside of Petzl facilities, except replacement parts) - **I. Questions/contact**

3-year guarantee

Against any material or manufacturing defect. Exclusions: normal wear and tear, oxidation, modifications or alterations, incorrect storage, poor maintenance, negligence, uses for which this product is not designed.

Traceability and markings

a. Body controlling the manufacture of this PPE - b. Notified body performing the CE type exam - c. Traceability: datamatrix = model number + serial number - d. Rope compatibility - e. Serial number - f. Year of manufacture - g. Day of manufacture - h. Control or name of inspector - i. Incrementation - j. Standards - k. Read the instructions for use carefully - l. Model identification - m. Nominal maximum load

FR

Cette notice explique comment utiliser correctement votre équipement. Seules certaines techniques et usages sont présentés. Les panneaux d'alerte vous informent de certains dangers potentiels liés à l'utilisation de votre équipement, mais il est impossible de tous les décrire. Prenez connaissance des mises à jour et informations complémentaires sur Petzl.com. Vous êtes responsable de la prise en compte de chaque alerte et d'utiliser correctement votre équipement. Toute mauvaise utilisation de cet équipement sera à l'origine de dangers additionnels. Contactez Petzl si vous avez des doutes ou des difficultés de compréhension.

1. Champ d'application

Équipement de protection individuelle (EPI).

ASAP LOCK : antichute mobile sur corde avec fonction de blocage.

EN 12841 type A : dispositif de réglage de corde pour support de sécurité. Appareil de contre-assurage pour système d'accès sur cordes, à utiliser conjointement avec un dispositif de progression de type B ou C.
EN 353-2 : antichute mobile pour support d'assurage flexible. Appareil d'assurage principal dans un système d'arrêt des chutes.
Ce produit ne doit pas être sollicité au-delà de ses limites ou dans toute autre situation que celle pour laquelle il est prévu.

Responsabilité

ATTENTION

Les activités impliquant l'utilisation de cet équipement sont par nature dangereuses.
Vous êtes responsable de vos actes, de vos décisions et de votre sécurité.

Avant d'utiliser cet équipement, vous devez :
- Lire et comprendre toutes les instructions d'utilisation.
- Vous former spécifiquement à l'utilisation de cet équipement.
- Vous familiariser avec votre équipement, apprendre à connaître ses performances et ses limites.
- Comprendre et accepter les risques induits.

Le non-respect d'un seul de ces avertissements peut être la cause de blessures graves ou mortelles.

Ce produit ne doit être utilisé que par des personnes compétentes et avisées, ou placées sous le contrôle visuel direct d'une personne compétente et avisée.
Vous êtes responsable de vos actes, de vos décisions et de votre sécurité et en assumez les conséquences. Si vous n'êtes pas en mesure d'assumer cette responsabilité, ou si vous n'avez pas bien compris les instructions d'utilisation, n'utilisez pas cet équipement.

2. Nomenclature

(1) Corps, (2) Manille, (3) Vis, (4) Axe de connexion, (5) Taquets, (6) Bras, (7) Axe du bras, (8) Galet bloqueur, (9) Bouton de blocage.
Matériaux principaux : alliage aluminium (corps, bras), acier inoxydable (galet, manille), polyester, polyamide (cordes).

3. Contrôle, points à vérifier

Votre sécurité est liée à l'intégrité de votre équipement.
Petzl conseille une vérification approfondie, par une personne compétente, au minimum tous les 12 mois (en fonction de la réglementation en vigueur dans votre pays et de vos conditions d'utilisation). Respectez les modes opératoires décrits sur www.petzl.com/epi. Enregistrez les résultats sur la fiche de vie de votre EPI : type, modèle, coordonnées du fabricant, numéro de série ou numéro individuel, dates : fabrication, achat, première utilisation, prochains examens périodiques, défauts, remarques, nom et signature du contrôleur.

Avant toute utilisation

ASAP LOCK : vérifiez la bonne installation de l'absorbeur sur la manille et le serrage de la vis.
Vérifiez l'absence de fissures, marques, déformation, usure, corrosion (sur corps, galet, bras, manille).
Vérifiez l'état des taquets et l'efficacité de leur ressort de rappel.
Vérifiez le pivotement du bras autour de l'axe et l'efficacité du ressort de rappel. Vérifiez la propreté du galet et l'usure des dents. Attention, si une ou plusieurs dents manquent, n'utilisez plus l'ASAP.
Si les dents sont encrassées consultez le paragraphe Nettoyage, entretien. Vérifiez que la rotation du galet se fait sans à-coup, sur un tour complet dans les deux sens.
Corde : vérifiez l'état de la corde selon les indications du fabricant. La corde doit être réformée si elle a enrayé une chute, si l'âme semble déformée, ou si la gaine est abîmée ou tachée.

Pendant l'utilisation

Il est important de contrôler régulièrement l'état du produit et de ses connexions avec les autres équipements du système. Assurez-vous du bon positionnement des équipements les uns par rapport aux autres.
Attention aux objets étrangers pouvant entraver l'appui du galet bloqueur sur la corde et sa rotation. Protégez votre ASAP des projections lors du travail (peinture, ciment...). Assurez-vous que le galet bloqueur est toujours engagé sur la corde.

4. Compatibilité

Vérifiez la compatibilité de ce produit avec les autres éléments du système dans votre application (compatibilité = bonne interaction fonctionnelle).
Les éléments utilisés avec votre ASAP LOCK doivent être conformes aux normes en vigueur dans votre pays (exemple harnais EN 361 en Europe...).

Harnais :

Connectez l'absorbeur d'énergie de votre ASAP au point d'attache antichute de votre harnais.

Longe absorbeur d'énergie :

Utilisez l'ASAP LOCK uniquement avec les absorbeurs d'énergie Petzl compatibles :
- ASAP'SORBER,
- ABSORBICA L57.
L'absorbeur d'énergie ne doit pas être rallongé (maximum un connecteur (longueur 12 cm max.) à chaque extrémité).

Corde, utilisation EN 12841 type A :

Utilisez l'ASAP LOCK avec des cordes semi-statiques (âme + gaine) EN 1891 type A de 10 à 13 mm de diamètre.
Cordes testées lors de la certification CE EN 12841 type A :
- BEAL ANTIPODES 10 mm,
- GRIP 12,5 mm.

Corde, utilisation EN 353-2 :

Utilisez l'ASAP LOCK uniquement avec les cordes testées lors de la certification CE EN 353-2 : 2002 :
- PARALLEL 10,5 mm,
- AXIS 11 mm.

5. Principe de fonctionnement

À vitesse modérée, le galet bloqueur tourne librement dans les deux sens. Lors d'un mouvement rapide vers le bas, la rotation du galet bloqueur est stoppée, la corde est bloquée par pincement entre le galet et le corps.

6. Mise en place et test de fonctionnement

Préparation :
Utilisez uniquement la vis d'origine de votre ASAP LOCK. Appliquez du frein-filet sur votre vis avant le montage.
Installez l'absorbeur d'énergie et refermez la manille. Serrez, vérifiez le bon positionnement de l'axe et le serrage de la vis.
Installation : ouvrez les taquets pour positionner la corde dans le corps, refermez les taquets pour engager le galet bloqueur sur la corde.
Attention, l'ASAP est directionnel, il bloque dans un seul sens. Danger de mort si l'ASAP est positionné à l'envers sur la corde.
Effectuez un test de fonctionnement à chaque installation.
Déblocage : après le test de fonctionnement, débloquez le galet pour un coulissement normal sur la corde.
Fonction de blocage : utilisez le bouton de blocage du galet pour empêcher le coulissement de l'ASAP LOCK sur la corde vers le bas. Attention, en cas de suspension accidentelle sur l'ASAP LOCK bloqué, le déblocage ne peut pas se faire sous charge.

7. Tirant d'air

Le tirant d'air est la hauteur libre minimale, sous l'utilisateur, pour ne pas heurter d'obstacle en cas de chute.
Le tirant d'air prend en compte :
- La distance d'arrêt de l'ASAP.
- La longueur de déchirement de l'absorbeur d'énergie.
- La taille moyenne de l'utilisateur.
- Une marge de sûreté de 1 m.
L'élasticité de la corde (E) varie selon la situation et doit être ajoutée à votre calcul de tirant d'air.
Pour plus d'information consultez le document Expérience produit ASAP sur petzl.com.
Les valeurs présentées sont basées sur des estimations théoriques et des tests de chute de masse rigide.
Dans un système d'arrêt des chutes, tenez compte de la longueur des connecteurs qui influe sur la hauteur de chute.

8. Précautions d'utilisation

Contrôlez régulièrement le bon coulissement de la corde dans l'ASAP, lors de votre progression, pour vous assurer de ne pas créer une boucle de mou.
Une surcharge dynamique peut endommager la corde. Si la corde de l'ASAP est chargée, l'utilisateur doit se munir d'un autre support de sécurité.

9. Nettoyage, entretien

Évitez toute introduction de liquide dans le mécanisme du galet bloqueur.
Pour le nettoyage des dents du galet, l'utilisation de solvant n'est pas recommandée, mais est possible appliqué avec précautions, au pinceau, pour éviter les coulures dans le mécanisme.

10. Informations complémentaires

- Prévoyez les moyens de secours nécessaires pour intervenir rapidement en cas de difficultés.
- L'amarrage du système doit être de préférence situé au-dessus de la position de l'utilisateur et répondre aux exigences EN 795 (résistance minimum 12 kN).
- Dans un système d'arrêt des chutes, il est essentiel de vérifier l'espace libre requis sous l'utilisateur, avant chaque utilisation, afin d'éviter toute collision avec le sol, ou un obstacle, en cas de chute.
- Veillez à ce que le point d'amarrage soit correctement positionné, afin de limiter le risque et la hauteur de chute.
- Un harnais d'antichute est le seul dispositif de préhension du corps qu'il soit permis d'utiliser dans un système d'arrêt des chutes.
- Un danger peut survenir lors de l'utilisation de plusieurs équipements dans laquelle la fonction de sécurité de l'un des équipements peut être affectée par la fonction de sécurité d'un autre équipement.
- ATTENTION DANGER, veillez à ce que vos produits ne frottent pas sur des matériaux abrasifs ou pièces coupantes.
- Les utilisateurs doivent être médicalement aptes aux activités en hauteur. ATTENTION, être suspendu et inerte dans un harnais peut déclencher des troubles physiologiques graves ou la mort.
- Les instructions d'utilisation définies dans les notices de chaque équipement associé à ce produit doivent être respectées.
- Les instructions d'utilisation doivent être fournies à l'utilisateur de cet équipement dans la langue du pays d'utilisation.
- Assurez-vous de la lisibilité des marquages sur le produit.

Mise au rebut :
ATTENTION, un événement exceptionnel peut vous conduire à rebuter un produit après une seule utilisation (type et intensité d'utilisation, environnement d'utilisation : milieux agressifs, milieu marin, arêtes coupantes, températures extrêmes, produits chimiques...).
Un produit doit être rebuté quand :
- Il a subi une chute importante (ou effort).
- Le résultat des vérifications du produit n'est pas satisfaisant. Vous avez un doute sur sa fiabilité.
- Vous ne connaissez pas son historique complet d'utilisation.
- Quand son usage est obsolète (évolution législative, normative, technique ou incompatibilité avec d'autres équipements...).
Détruisez ces produits pour éviter une future utilisation.

Pictogrammes :
A. Durée de vie illimitée - B. Températures tolérées - C. Précautions d'usage - D. Nettoyage/désinfection - E. Séchage - F. Stockage/transport - G. Entretien - H. Modifications/réparations (interdites hors des ateliers Petzl sauf pièces de rechange) - **I. Questions/contact**

Garantie 3 ans

Contre tout défaut de matière ou fabrication. Sont exclus : usure normale, oxydation, modifications ou retouches, mauvais stockage, mauvais entretien, négligences, utilisations pour lesquelles ce produit n'est pas destiné.

Traçabilité et marquage

a. Organisme contrôlant la fabrication de cet EPI - b. Organisme notifié intervenant pour l'examen CE de type - c. Traçabilité : datamatrix = référence produit + numéro individuel - d. Compatibilité cordes - e. Numéro individuel - f. Année de fabrication - g. Jour de fabrication - h. Contrôle ou nom du contrôleur - i. Incrémentation - j. Normes - k. Lire attentivement la notice technique - l. Identification du modèle - m. Charge nominale maximum

PPE Inspection

Inspection procedure

• **In addition to routine checks for each use, PPE should regularly undergo a detailed inspection by a competent person.**
Petzl recommends an inspection every 12 months and after any exceptional event in the life of the product.
• **PPE inspection should be done with the manufacturer's instructions available for reference.** Download the instructions at PETZL.COM

ASAP LOCK

1. Known product history

Any PPE showing unexpected degradation should be quarantined, pending a detailed inspection.

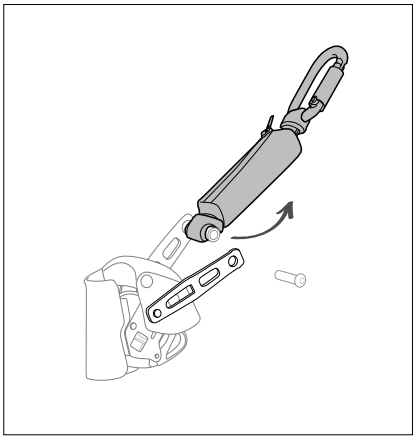
The user should:
- Provide precise information on the usage conditions.
- Report any exceptional event regarding his PPE.
(Examples: fall or fall arrest, use or storage at extreme temperatures, modification outside manufacturer's facilities, etc.).

2. Preliminary observations

Verify the presence and legibility of the serial number and the CE mark.
Verify that the product lifetime has not been exceeded.
Compare with a new device to verify there are no modifications or missing elements.

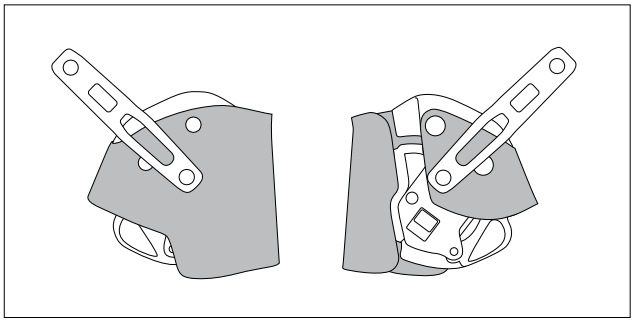
3. Preparation

• To begin inspecting your ASAP LOCK, remove the energy absorber.
The energy absorber must be inspected separately using the inspection procedure available at Petzl.com.



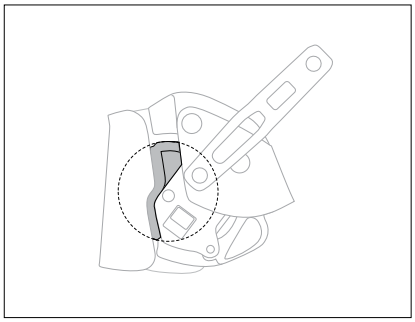
4. Inspecting the frame

• Check the condition of the frame (marks, deformation, cracks, corrosion...).

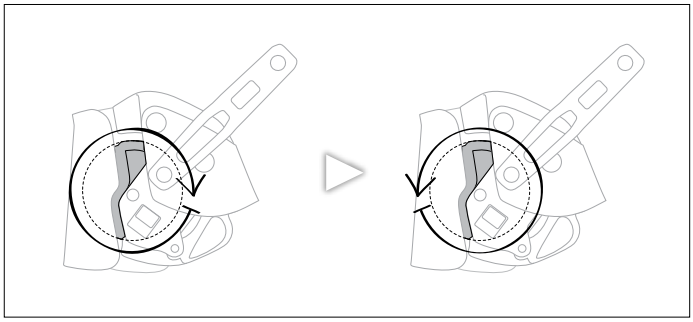


5. Inspecting the wheel

• Check the condition of the wheel (marks, deformation, cracks, corrosion...).
Check that all teeth are present and check their state of wear.
The wheel must not be fouled. If necessary, clean it with a brush, possibly by applying solvent with a fine brush. Avoid getting any liquid inside the mechanism.

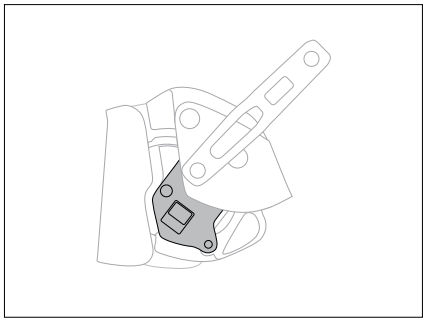


• Check the rotation of the wheel.
Turn the wheel one complete revolution in both directions, making sure it rotates smoothly, without catching.

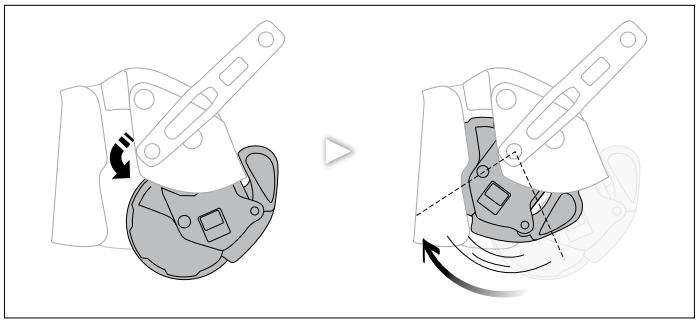


6. Inspecting the arm and the safety catches

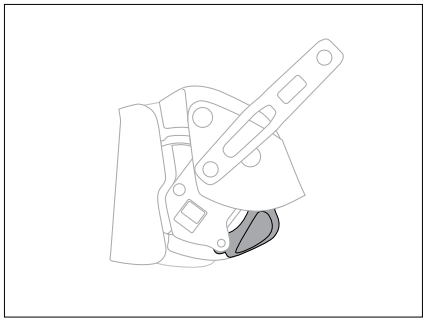
• Check the condition of the arm (marks, deformation, cracks, corrosion...).
Check that all teeth are present and check their state of wear.



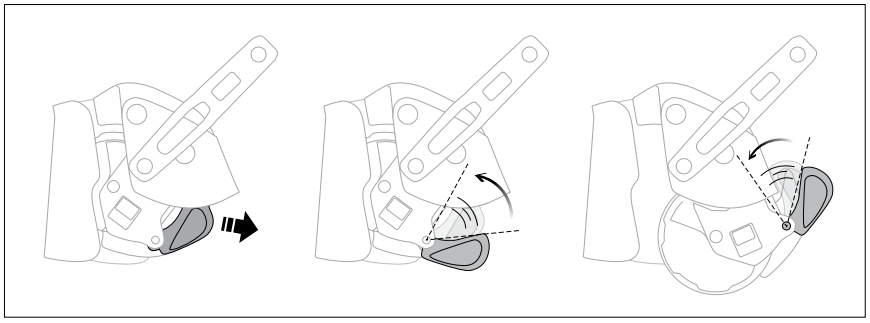
• Check the effectiveness of the arm's return spring.



• Check the condition of the safety catches (marks, deformation, cracks...).

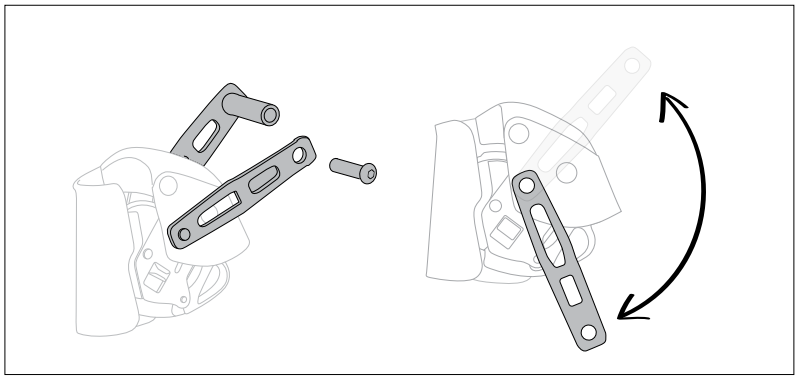


• Check the effectiveness of the return spring on each safety catch.

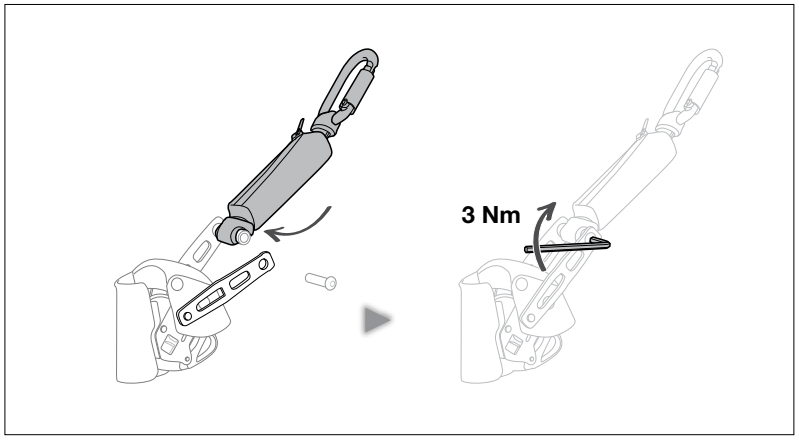


7. Checking the clevis

• Check the condition of the clevis, the connection pin and the screw (marks, deformation, cracks, corrosion) Verify that the clevis rotates on its axle.

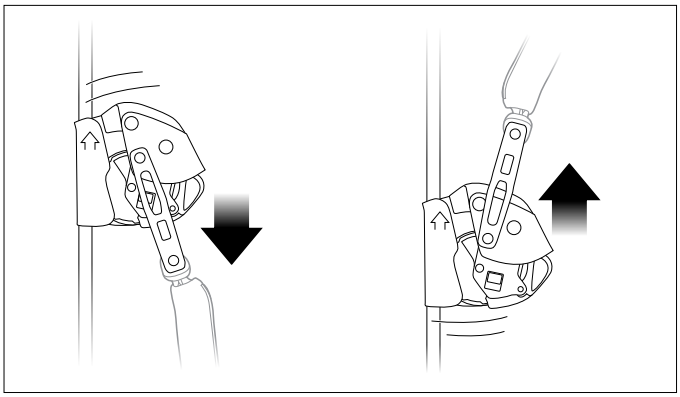


• Install the energy absorber and close the clevis. If necessary, use thread-locking fluid on the screw. Check the tightness of the screw.



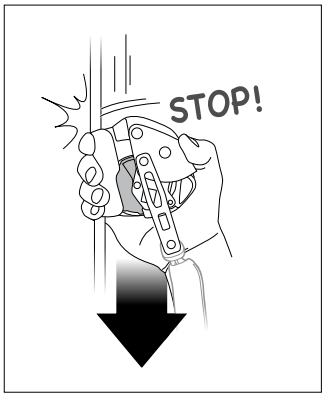
8. Function test: sliding on the rope

• Install the ASAP LOCK on a compatible rope, check that it slides properly on the rope in both directions.

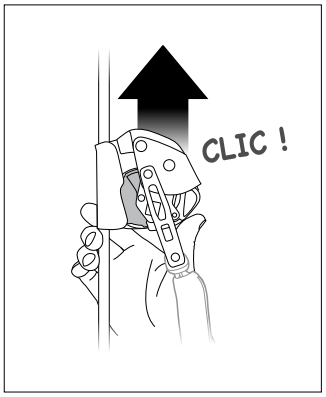


9. Function test: locking and unlocking

• Install the ASAP LOCK on a compatible rope; test for correct locking by pulling sharply downward (direction of a fall).

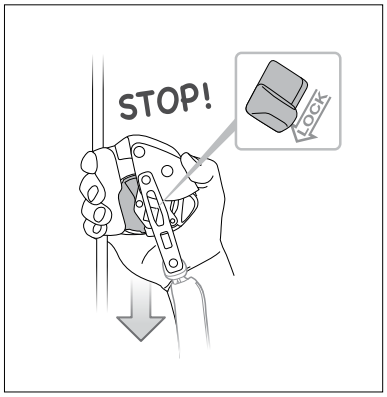


• After locking, verify that the device unlocks normally.



10. Function test: locking function

• Install the ASAP LOCK on a compatible rope, activate the locking button; test for correct locking by pulling downward (direction of a fall).
• Deactivate the locking button, verify that the wheel turns freely again in both directions.



I'D L

(EN) Self-braking descender / belay device
(FR) Descendeur assureur autofreinant

CE 0082

EN12841 : 2006
EN341 : 1997

NFPA 1983 - 2012 ED.

ERC

WARNING

Activities involving the use of this equipment are inherently dangerous. You are responsible for your own actions and decisions.

Before using this equipment, you must:
- Read and understand all Instructions for Use.
- Get specific training in its proper use.
- Become acquainted with its capabilities and limitations.
- Understand and accept the risks involved.

FAILURE TO HEED ANY OF THESE WARNINGS MAY RESULT IN SEVERE INJURY OR DEATH.

3 year guarantee
Patented

NFPA CERTIFICATION FOR I'D L

D20 L

THIS I'D L MEETS THE AUXILLIARY EQUIPMENT REQUIREMENTS OF NFPA 1983, STANDARD ON FIRE SERVICE LIFE SAFETY ROPE AND EQUIPMENT FOR EMERGENCY SERVICES, 2012 EDITION.

Belay Device
Descent control device type 3

MBS 22 kN
G (GENERAL USE)
MEETS NFPA 1983 (2012 ED.)

CLASSIFIED UL 45 YF

This I'D L has passed the minimum breaking strength and holding load test using the following rope : [Bluewater Ropes, Spec-Static 11,5mm] and [Bluewater Ropes, Spec-Static 13mm]
After removing the notice from the equipment, make a copy of it and keep the original as part of a permanent record that includes the usage and inspection history for the equipment. Keep the copy of the notice with the equipment and refer to it before and after each use. Additional information regarding auxiliary equipment can be found in NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, and NFPA 1983, Standard on Fire Service Life Safety Rope and System Components.

529 g

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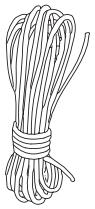
info@petzl.com

ISO 9001

PETZL

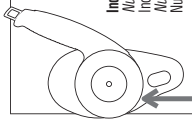
D20 L

11,5 ≤ ∅ ≤ 13 mm



(EN) Rope (core + sheath) static, semi-static (EN 1891) type A
(FR) Cordes (âme + gaîne) statiques, semi-statiques EN 1891 type A
(DE) Seil (Kern + Mantel) statisch, halbstatisch (EN 1891) Typ A
(IT) Corda (anima + calza) statica, semistatica (EN 1891) tipo A
(ES) Cuerda (alma + funda) estática, semiestática (EN 1891) tipo A

TRACEABILITY and MARKINGS



Individual number
Numéro individuel
Individuelle Nummer
Numero individuale
Numero individual

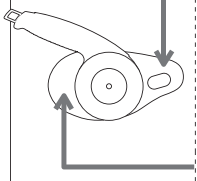
00 000 AA 0000

Year of manufacture
Année de fabrication
Herstellungsjahr
Anno di fabbricazione
Año de fabricación

Production date
Jour de fabrication
Tag der Herstellung
Giorno di fabbricazione
Día de fabricación

Control

Incrementation



TRACEABILITY : datamatrix = product reference + individual number
TRAÇABILITE : datamatrix = référence produit + numéro individuel

CE 0082

Body controlling the manufacturing of this PPE
Organisme contrôlant la fabrication de cet EPI
Organisation, die die Herstellung dieser PSA kontrolliert
Organismo che controlla la fabbricazione di questo DPI
Organismo controlador de la fabricación de este EPI

Notified body intervening for the CE type examination
Organisme notifié intervenant pour l'examen CE de type
Zertifizierungsorganisation für die CE-Typenüberprüfung
Ente riconosciuto che interviene per l'esame CE del tipo
Organismo notificado que interviene en el examen CE de tipo

APAVE SUD Europe BP 193,
13322 Marseille Cedex 16
N° 0082

EN 12841

EN 12841 : 2006 C

Personal fall protection equipment
- Rope access systems
- Rope adjustment devices

: Working line
: descender

Only the techniques shown in the diagrams that are not crossed out and/or do not display a skull and crossbones symbol are authorized. Check our Web site regularly to find the latest versions of these documents: www.petzl.com Contact PETZL if you have any doubt or difficulty understanding these documents.

1 Field of application

Rope access descent.
EN 12841 type C rope adjuster.
Evacuating one or more persons.
EN 341: 1997 type A rescue descender.
Belaying
This product must not be loaded beyond its strength rating, nor be used for any purpose other than that for which it is designed.

WARNING

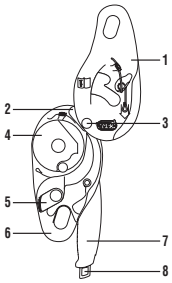
Activities involving the use of this equipment are inherently dangerous.
You are responsible for your own actions and decisions.
Before using this equipment, you must:
- Read and understand all instructions for use.
- Get specific training in its proper use.
- Become acquainted with its capabilities and limitations.
- Understand and accept the risks involved.

Failure to heed any of these warnings may result in severe injury or death.

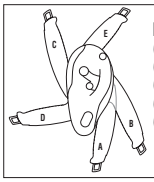
Responsibility

WARNING, specific training in the activities defined in the field of application is essential before use.
This product must only be used by competent and responsible persons, or those placed under the direct and visual control of a competent and responsible person.
Gaining an adequate apprenticeship in appropriate techniques and methods of protection is your own responsibility.
You personally assume all risks and responsibilities for all damage, injury or death which may occur during or following incorrect use of our products in any manner whatsoever. If you are not able, or not in a position to assume this responsibility or to take this risk, do not use this equipment.

2 Nomenclature of parts

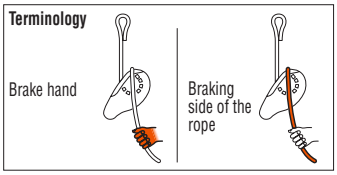


(1) Moving side plate,
(2) Friction plate, (3) Hinge,
(4) Cam, (5) Anti-error catch,
(6) Fixed side plate, (7) Handle,
(8) Horizontal movement button.



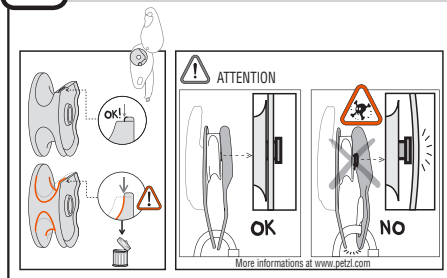
Handle positions:
(a) Transport,
(b) Work positioning,
(c) Descent,
(d) Panic brake,
(e) Belaying.

Terminology



Principal materials:
aluminum alloy (side plates), stainless steel (cam), chrome-plated steel (anti-error catch), nylon (handle).

3 Inspection, points to verify



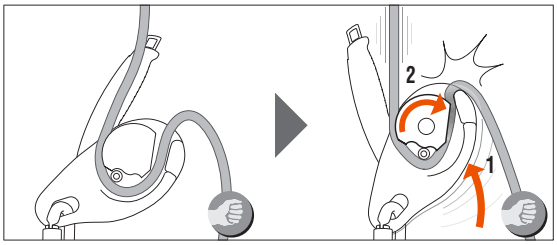
Before each use
- Verify that it is free of any cracks, deformation, corrosion, etc.
- Make sure the cam is not worn out; when the cam groove becomes worn all the way to the wear indicator, discontinue use of the I'D (see diagram).
- Check the moving side plate for deformation or excessive play: if the side plate can pass over the head of the cam axle, discontinue use of the I'D (see diagram).
- Check the locking components (hinge) and the operation of the springs in the cam and the anti-error catch. Verify that the cam is fully mobile.
- Verify that the horizontal movement button springs back out after it is pressed (position c).

During each use
Make sure that all pieces of equipment in the system are correctly positioned with respect to each other.
It is important to regularly monitor the condition of the product and its connections to the other equipment in the system.
Do not allow anything to interfere with the operation of the device or its components (cam, catch, etc.). Keep foreign objects out of the I'D.
To reduce the risk of a free fall, the rope between the rope adjuster and the anchor must always be taut.
Consult the details of the inspection procedure to be carried out for each item of PPE on the Web at www.petzl.com/ppe
Contact PETZL if there is any doubt about the condition of this product.

4 Compatibility

For all of your applications, verify the compatibility of this product with the other elements of your system (compatibility = good functional interaction).
Ropes
WARNING, certain ropes may be slippery: new ropes, small diameter ropes, wet or frozen ropes, etc. Contact Petzl if you are uncertain about the compatibility of your equipment.

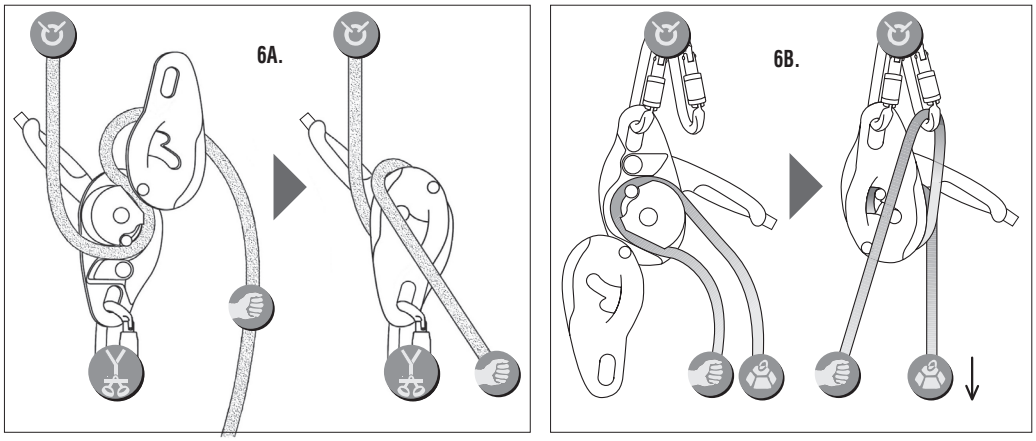
5 Working principle



When the rope becomes taut (suspension or fall), the I'D pivots on the carabiner (1) and the cam pinches and brakes the rope (2). By holding the braking side of the rope, the brake hand helps engage the cam.

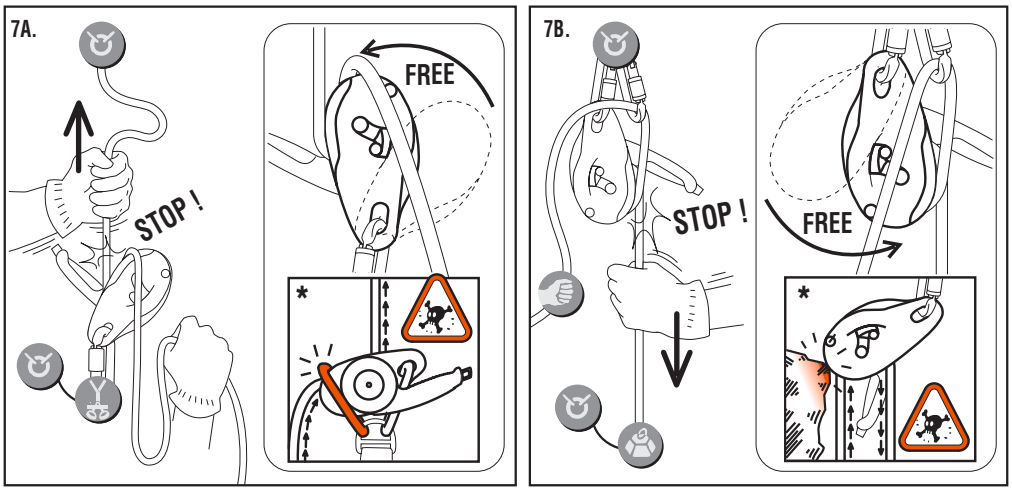
6 Installing the rope

Open the moving side plate. Put the handle in position (C) to open the cam. Insert the rope as indicated by the diagrams engraved on the device. Close the moving side plate. Connect the I'D with a locking carabiner.
WARNING: the moving side plate must be properly engaged on the cam axle and on the carabiner.
6A. Device on the harness
6B. Device on an anchor
You must add friction by redirecting the braking side of the rope through a carabiner.
Warning, the anti-error catch can trap a rope that is installed backwards, but it does not eliminate all possible errors.



7 Function test

Before each use, verify that the rope is correctly installed and that the device is working properly. You must always use a backup safety system when performing this test.
(*) WARNING DANGER OF DEATH, do not allow anything to interfere with the operation of the device or its components (cam, catch, etc.). Any constraint on the device negates the braking function.
7A. Device on the harness
Pull on the anchored side of the rope: the rope must jam in the device. If not, check that the rope is correctly installed.
Gradually put your weight onto the device, (rope taut, handle in position c). With one hand holding the braking side of the rope, gradually pull on the handle with the other hand to allow the rope to slide:
- Descent is possible = rope correctly installed.
- Descent impossible = check the installation of the rope (rope jammed by the anti-error catch).
When the handle is released, the I'D brakes, then jams the rope.
WARNING, if your device doesn't work anymore (rope slippage), retire it.
7B. Device on the anchor
Pull on the loaded side of the rope: the rope must jam in the device. If not, check that the rope is correctly installed.
Warning: if the rope is installed backwards without being redirected through a braking carabiner, the anti-error catch will not work.
WARNING, if your device doesn't work anymore (rope slippage), retire it.



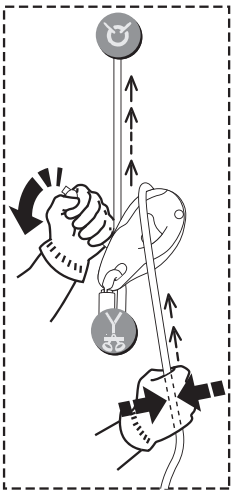
8 EN 12841: 2006 Type C

The EN 12841: 2006 I'D L descender is a type C rope adjuster used to descend the work rope. The I'D L is a braking device for rope that allows the user to manually control the speed of descent and to stop anywhere on the rope by releasing the handle. To meet the requirements of the EN 12841: 2006 type C standard, use 11.5-13 mm EN 1891 type A semi-static ropes (core + sheath). (Note: Certification testing was performed with a 150 kg mass using BEAL Antipodes 11.5 mm and EDELWEISS Rescue 13 mm ropes.)

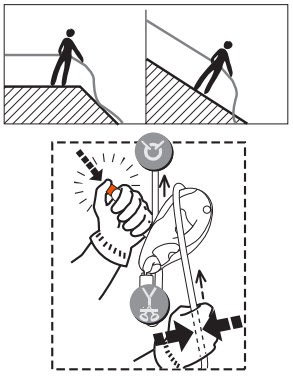
8A. Descent

One person

Device on the harness (position c): you control your descent by varying your grip on the braking side of the rope, to descend, pull gradually on the handle. Always hold the braking side of the rope.
Release the handle to stop the descent. In a panic situation: if the handle is pulled too much (position d) the device brakes, then jams the rope. To continue the descent, first move the handle upwards (position c).



Horizontal movement button:
- On sloping or horizontal terrain, or with light loads, the panic brake activates easily. To make your descent smoother, use the horizontal movement button.
- Do not use the horizontal movement button during a vertical descent.



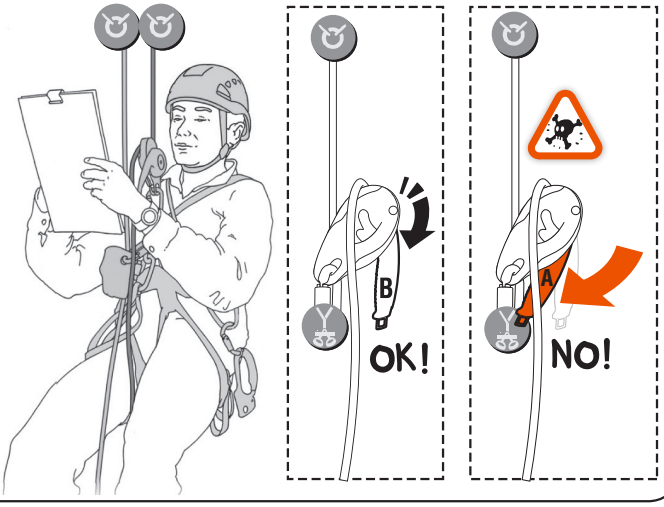
8 EN 12841: 2006 Type C

8B. Work positioning - secured stop

After stopping at the desired location, to go into work positioning mode with hands free, lock the device on the rope by moving the handle in the direction opposite to that used for descent (turned to position b). For work positioning, the I'D must be set in this position.
Once the handle has stopped at position b (positioning), do not force the handle. The handle must not be in position a (transport) with a rope in the device. There is a risk of damaging the device that can negate the braking function.
To unlock the system, firmly grip the braking side of the rope and move the handle into descent position.

Information regarding standard EN 12841

ATTENTION, the I'D L descender must be used in conjunction with a type A backup device (e.g. the ASAP) on a second rope (called the "safety rope").
The I'D L descender is not suitable for use in an EN 363 fall arrest system.
Attach your descender directly to the harness using an EN 362 locking carabiner. Any equipment used with your descender must be in compliance with current standards.
Do not allow the safety line to be loaded when the working line is under tension.
A shock-load can damage the belay line.



9 EN 341 class A (1997) Rescue evacuation

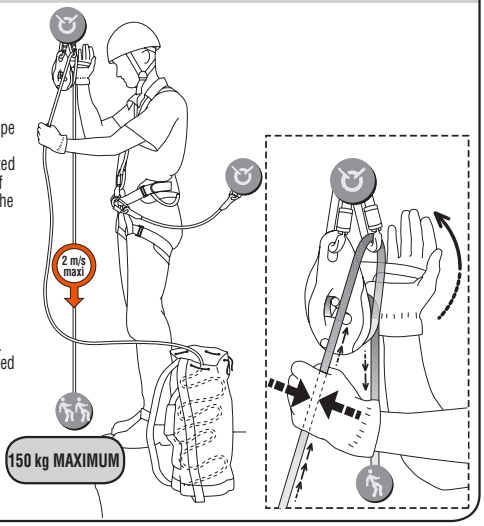
Maximum descent height: 200 m
Normal working load: 30-150 kg

Lowering from an anchor-point

Device on the anchor: the braking side of the rope must be redirected through a carabiner. Hold the braking side of the rope and move the handle up (position c) to allow the rope to slide. Braking is regulated by varying the grip on the braking side of the rope. Release the handle to activate the self-braking function.
When the device is lightly loaded, if the panic brake activates too easily, use the horizontal movement button.

Information regarding standard EN 341

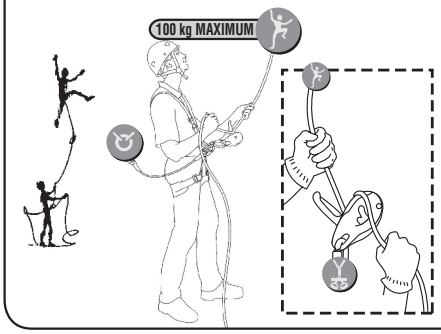
- Always tie a knot at the end of the rope.
- Equipment left in place must be protected from the weather.
- Do not lose control during the descent: descend at a reasonable speed.
- Warning, the device can overheat and damage the rope during descent.



10 Belaying

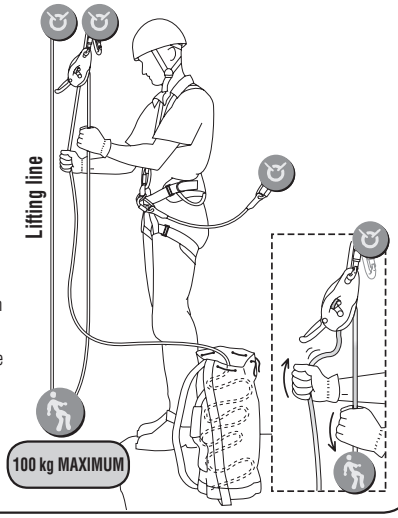
10A. Belaying the leader: 100 kg

Use a dynamic rope certified to EN 892.
Device on the harness (position e): Before use, verify the rope is correctly installed. The braking side of the rope is held in one hand and the climber's side in the other. To facilitate rope glide, focus more on pushing the braking side of the rope into the device rather than pulling the climber's side of the rope. To stop a fall, firmly grip the braking side of the rope. To lower a climber, the manipulation of the device is similar to the description found under «Descent».



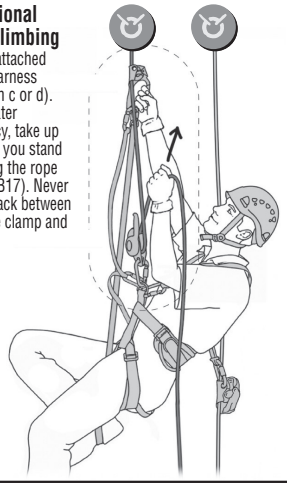
10B. Belaying: 100 kg

Belaying a second, and hauling (usage without redirecting the rope through a carabiner).
Warning, in the case of an error (rope installed backwards) the anti-error catch will not work in this position.
Device on the anchor (position e): the belayer holds the braking side of the rope with one hand, and the second's rope with the other. Take in slack regularly. To stop a fall, firmly grip the braking side of the rope. To lower a climber, the manipulation of the device is similar to the description found under «Lowering from an anchor» (use a braking carabiner).



11 Other use

Occasional rope climbing
Device attached to the harness (position c or d). For greater efficiency, take up slack as you stand up using the rope clamp (B17). Never allow slack between the rope clamp and the I'D.



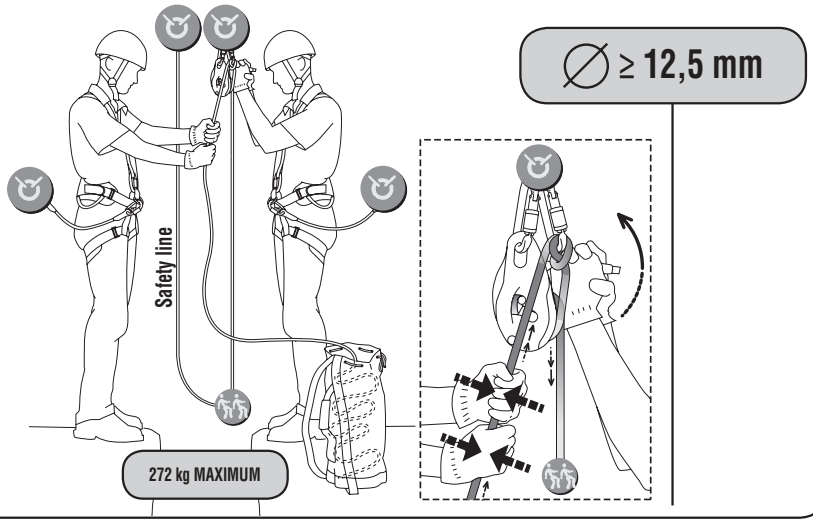
12 Heavy loads, exceptional uses for experts only

These operations must only be performed by rescuers specifically trained in these uses.
For heavy loads, shock-loading must be avoided.

12A. Evacuation: Accompanied descent, device on the harness
Maximum load: 200 kg
A braking carabiner must be used.

12 Heavy loads, exceptional uses for experts only

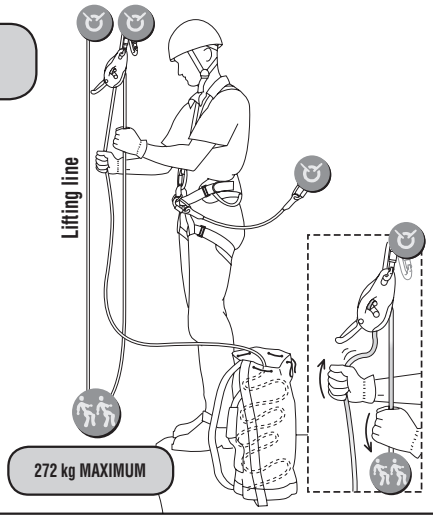
12B.
Evacuation:
Lowering from an anchor-point
Maximum load: 272 kg
- Use a rope of minimum diameter 12.5 mm.
- We recommend using a munter hitch on the braking carabiner.
- One person operates the handle of the device, while a second person holds the rope.



12 Heavy loads, exceptional uses for experts only

∅ ≥ 12,5 mm

12C. Belaying
Maximum load: 272 kg
- For belaying heavy loads while raising, use a rope of minimum diameter 12.5 mm. Take in slack regularly.
- If you have to lower or belay the load during descent, see chapter 12B.



13 Supplementary information regarding standards (EN 365)

Rescue plan
You must have a rescue plan and the means to rapidly implement it in case of difficulties encountered while using this equipment.
Anchors
The anchor point for the system should preferably be located above the user's position and should meet the requirements of the EN 795 standard (minimum strength of 10 kN).
Various
- When using multiple pieces of equipment together, a dangerous situation can result if the safety function of one piece of equipment is compromised by the operation of another piece of equipment.
- WARNING DANGER, take care that your products do not rub against abrasive or sharp surfaces.
- Users must be medically fit for activities at height.
- The instructions for use for each item of equipment used in conjunction with this product must be respected.
- The instructions for use must be provided to users of this equipment in the language of the country in which the product is to be used.

Legends

(EN) Climber
(FR) Grimpeur
(DE) Kletterer
(IT) Arrampicatore
(ES) Escalador

(EN) Fall
(FR) Chute
(DE) Sturz
(IT) Caduta
(ES) Caída

(EN) Anchor
(FR) Amarrage
(DE) Anschlagpunkt
(IT) Ancoraggio
(ES) Anclaje

(EN) Harness
(FR) Harnais
(DE) Gurt
(IT) Imbracatura
(ES) Arnés

(EN) Hand
(FR) Main
(DE) Hand
(IT) Mano
(ES) Mano

(EN) Load
(FR) Charge
(DE) Belastung
(IT) Carico
(ES) Carga

14 Petzl general information

Lifetime

WARNING, an exceptional event can reduce the lifetime of the product to one single use; for example, if it is exposed to any of the following: chemicals, extreme temperatures, sharp edges, major fall or load, etc.
The maximum lifetime of Petzl products is as follows: up to 10 years from the date of manufacture for plastic and textile products. It is indefinite for metallic products.
The actual lifetime of a product ends when it meets one of the retirement criteria listed below (see “When to retire your equipment”), or when in its system use it is judged obsolete.
The actual lifetime is influenced by a variety of factors such as: the intensity, frequency, and environment of use, the competence of the user, how well the product is stored and maintained, etc.

Inspect equipment periodically for damage and/or deterioration.

In addition to the inspection before and during use, a periodic in-depth inspection must be carried out by a competent inspector. This inspection must be performed at least once every 12 months. The frequency of the in-depth inspection must be governed by the type and the intensity of use. To keep better track of your equipment, it is preferable to assign each piece of equipment to a unique user so that he will know its history. The results of inspections should be documented in an “inspection record”. This document must allow recording of the following details: type of equipment, model, name and contact information of the manufacturer or distributor, means of identification (serial or individual number), year of manufacture, date of purchase, date of first use, name of user, all other pertinent information for example maintenance and frequency of use, the history of periodic inspections (date / comments and noted problems / name and signature of the competent person who performed the inspection / anticipated date of next inspection). See example of detailed inspection record and other informational tools available at www.petzl.com/ppe

When to retire your equipment

Immediately retire any equipment if:
- it fails to pass inspection (inspection before and during use and the periodic in-depth inspection),
- it has been subjected to a major fall or load,
- you do not know its full usage history,
- it is at least 10 years old and made of plastics or textiles,
- you have any doubt as to its integrity. Destroy retired equipment to prevent further use.

Product obsolescence

There are many reasons why a product may be judged obsolete and thus retired before the end of its actual lifetime. Examples include: changes in applicable standards, regulations, or legislation; development of new techniques, incompatibility with other equipment, etc.

Modifications and repairs

Do not modify your product in any way unless the modification is specifically authorized by Petzl. An unauthorized modification can reduce the product's effectiveness. One of the consequences can be loss of CE certification.
Repairs made outside of Petzl facilities are prohibited. Contact Petzl if your product needs repair.

Storage, transport

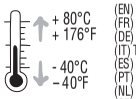
Dry your product after use and store it in a bag.
Store it away from exposure to UV, moisture, chemical products, etc.

Traceability and markings

Do not remove any markings or labels. You must check to ensure that the product markings remain legible during the entire lifetime of the product.

Guarantee

This product is guaranteed for 3 years against any faults in materials or manufacture. Exclusions from the guarantee: normal wear and tear, oxidation, modifications or alterations, incorrect storage, poor maintenance, damage due to accidents, to negligence, and to uses for which this product was not designed.
PETZL is not responsible for the consequences, direct, indirect or accidental, or any other type of damage befalling or resulting from the use of its products.

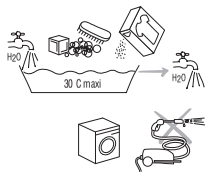


(EN) Temperature
(FR) Température
(DE) Temperatur
(IT) Temperatura
(ES) Temperatura
(PT) Temperatura
(NL) Temperatuur
(SE) Temperatur
(FI) Lämpötila
(NO) Temperatur

(RU) Температура
(CZ) Teplota
(PL) Temperatura
(SI) Temperatura
(HU) Hőmérséklet
(BG) Температура
(JP) 気温
(CN) 温度
(TH) อุณหภูมิ

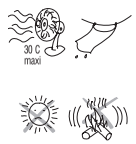
(EN) Storage and transport
(FR) Rangement et transport
(DE) Lagerung und Transport
(IT) Sistemazione e trasporto
(ES) Almacenamiento y transporte
(PT) Armazenamento e transporte
(NL) Opbergen en vervoeren
(FI) Säilytys ja kuljetus
(NO) Lagring og transport
(RU) Хранение и транспортировка
(CZ) Skladování a doprava

(PL) Pakowanie i transport
(SI) Shranjevanje in transport
(HU) Tárolás, szállítás
(BG) Транспорт и съхранение
(JP) 持ち運びと保管方法
(KR) 보관과 운송
(CN) 运输及储存
(TH) การขนส่งและการเก็บรักษา



(EN) Cleaning Disinfection
(FR) Nettoyage Désinfection
(DE) Reinigung Desinfektion
(IT) Pulizia Disinfezione
(ES) Limpieza Desinfección
(PT) Limpeza Desinfecção
(NL) Reiniging Ontsmetting
(SE) Rengöring Desinficering
(FI) Puhdistus Desinfiointi
(NO) Rengjøring Desinfisering
(RU) Чистка Дезинфекция

(CZ) Čištění Desinfekce
(PL) Czyszczenie Dezynfekcja
(SI) Čiščenje/razkuževanje
(HU) Tisztítás
(BG) Почистване Дезинфекция
(JP) 手入れ方法 消毒
(KR)
(CN) 清洗 消毒
(TH) ทำความสะอาดโดยไขสารฆาเชื้อ

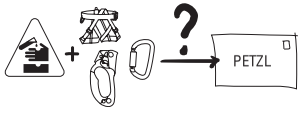


(EN) Drying
(FR) Séchage
(DE) Trocknen
(IT) Asciugamento
(ES) Secado
(PT) Secagem
(NL) Het drogen
(SE) Torkning
(FI) Kuivaus
(NO) Tørking

(RU) Сушка
(CZ) Sušení
(PL) Suszenie
(SI) Sušenje
(HU) Szárítás
(BG) Сушене
(JP) 乾燥
(CN) 使干燥
(TH) ทำให้แห้ง

(EN) Maintenance
(FR) Entretien
(DE) Wartung
(IT) Manutenzione
(ES) Mantenimiento
(PT) Manutenção
(NL) Onderhoud
(SE) Underhåll
(FI) Huolehtiminen
(NO) Vedlikehold

(RU) Техническое обслуживание
(CZ) Údržba
(PL) Konserwacja
(SI) Vzdrževanje
(HU) Karbantartás
(BG) Поддържане
(JP) メンテナンス
(KR)
(CN) 保养
(TH) การซ่อมแซม



(EN) Dangerous products
(FR) Produits dangereux
(DE) Gefährliche Produkte
(IT) Prodotti pericolosi
(ES) Productos peligrosos
(PT) produtos perigosos
(NL) Gevaarlijke producten
(SE) Farliga produkter
(FI) Vaaralliset tuotteet
(NO) Farlige produkter
(RU) Опасная продукция

(CZ) Nebezpečné výrobky
(PL) Produkty niebezpieczne
(SI) Nevarne kemikalije
(HU) Veszélyes termékek
(BG) Опасни продукти
(JP) 有害物質
(KR)
(CN) 危险产品
(TH) วัตถุอันตราย

PPE Inspection

Inspection procedure

• In addition to routine checks for each use, PPE should regularly undergo a detailed inspection by a competent person.
Petzl recommends an inspection every 12 months and after any exceptional event in the life of the product.
• PPE inspection should be done with the manufacturer's instructions available for reference. Download the instructions at PETZL.COM

I'D S, I'D L and RIG

1. Known product history

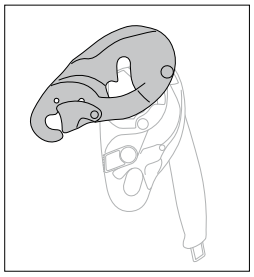
Any PPE showing unexpected degradation should be quarantined, pending a detailed inspection.

The user should:
- Provide precise information on the usage conditions.
- Report any exceptional event regarding his PPE.
(Examples: fall or fall arrest, use or storage at extreme temperatures, modification outside manufacturer's facilities, etc.).

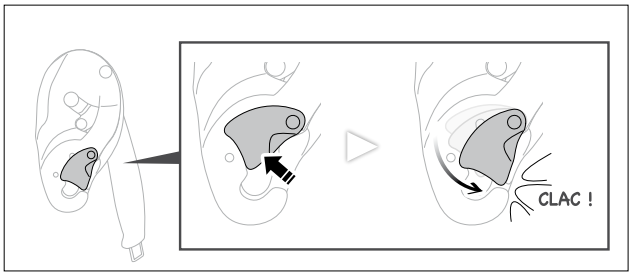
2. Preliminary observations

- Verify the presence and legibility of the serial number and the CE mark.
- Verify that the product lifetime has not been exceeded.
- Compare with a new device to verify there are no modifications or missing elements.

3. Checking the moving side plate

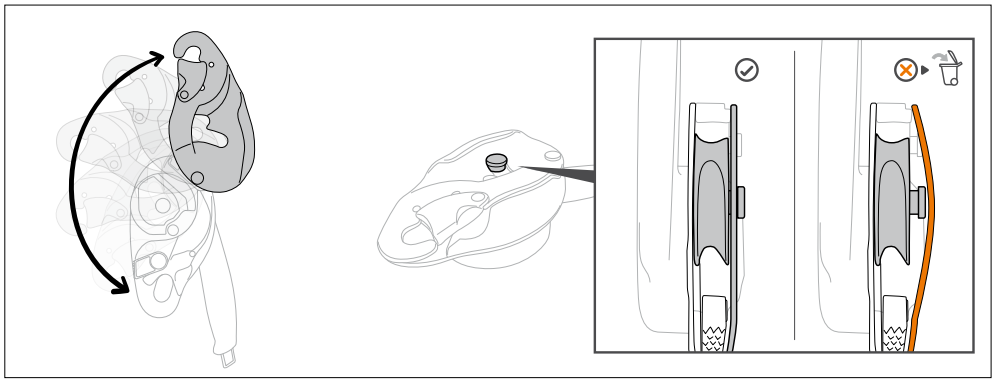


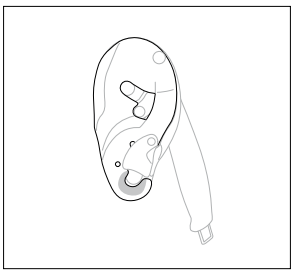
- Check the condition of the moving side plate (marks, deformation, fouling, cracks, wear...).



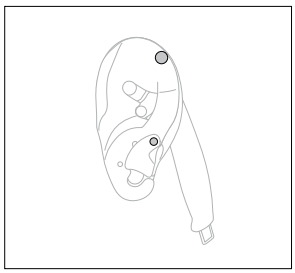
- Check the condition of the safety gate and the effectiveness of the spring.

- Verify that the moving side plate opens and closes properly. Check the moving side plate for deformation or excessive play: if the side plate can pass over the head of the cam axle, discontinue use of the product.



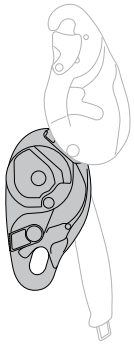


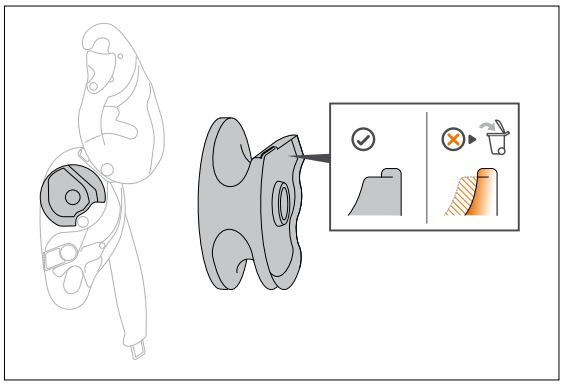
• Check the condition of the attachment hole (marks, deformation, cracks, corrosion...).



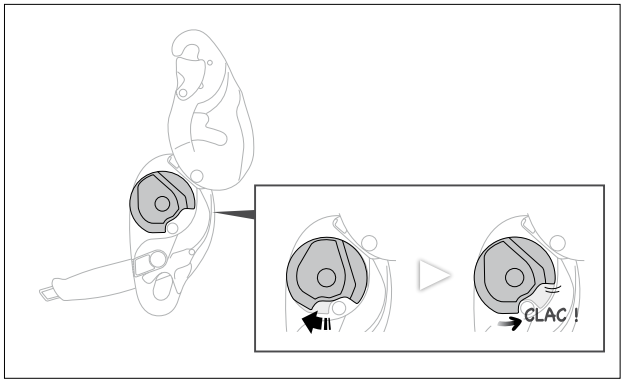
• Check the condition of the rivets (marks, deformation, cracks, corrosion, absence of play...).

4. Checking the condition of the frame

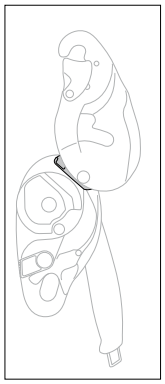




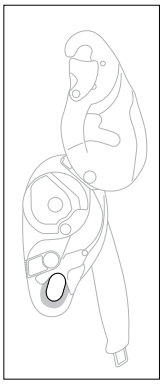
• Check the condition of the cam and its axle (marks, deformation, fouling, cracks, crazing, corrosion...).
Wear indicator (I'D only) if the cam groove is worn to the wear indicator, discontinue use of the I'D.



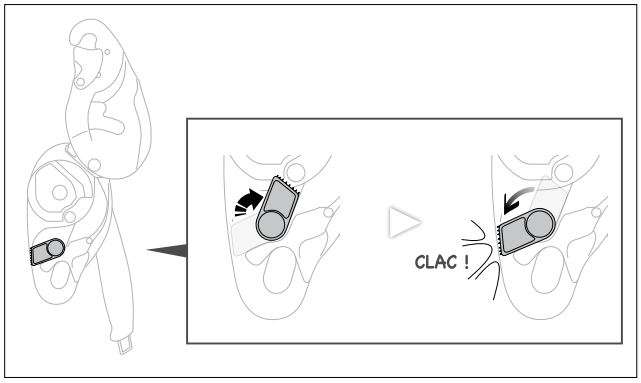
• Check the cam's rotation and the effectiveness of the return spring.



• Check the condition of the friction plate (marks, deformation, fouling, cracks...).



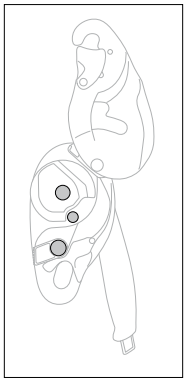
• Check the condition of the attachment hole (marks, deformation, cracks, corrosion...).



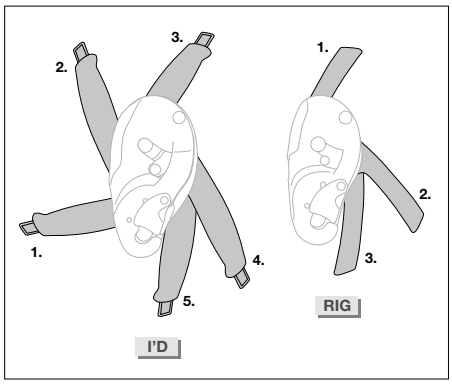
• On the I'D, check the condition of the anti-error catch (marks, deformation, cracks, corrosion...) Check that all teeth are present and check their state of wear. The teeth must not be fouled. If necessary, clean them with a brush.

• Check the rotation of the anti-error catch and the effectiveness of the return spring.

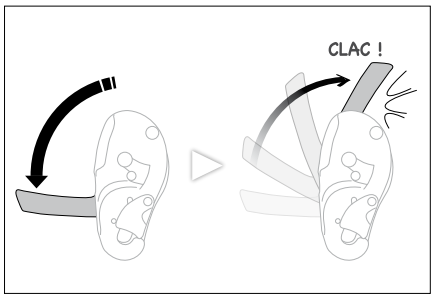
• Check the condition of the rivets (marks, deformation, cracks, corrosion, absence of play...).



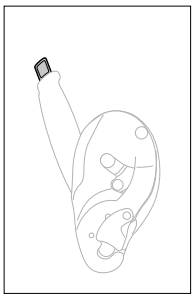
5. Checking the condition of the handle



• Check the condition of the handle (marks, deformation, cracks...).
• Verify that all of the handle positions are accessible and well defined.

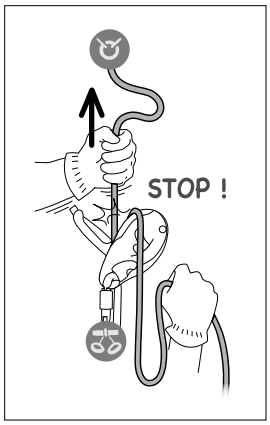


• On the RIG, check that the handle return spring is working properly.



• On the I'D, verify that the horizontal positioning button is working properly.

6. Function check



• Do a function check with the device on the harness. Pull on the anchor side of the rope; the rope must lock in the device.

7. Appendix: examples of I'D, RIG that are worn out, or that should be retired

• Dirty I'D

• Stuck button

• Corrosion

• Bent side plate

• Hole in side plate

• Worn cam groove

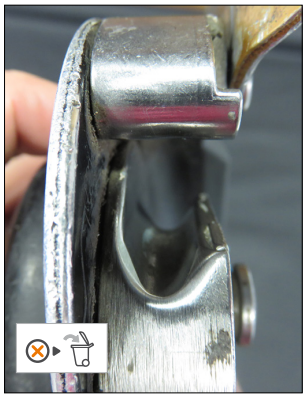
• Deformed catch

• Broken handle

• Hole in cam

• Attachment hole deformed by a shock load

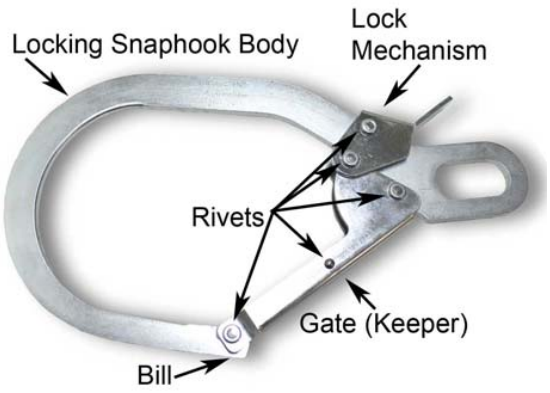
• Cam groove worn to wear indicator



Buckingham Mfg. Co. Inc.

P/N 30342 LOCKING SNAPHOOK

P/N 30342 locking snaphooks covered by this document, when tested in accordance with ANSI Z359.1-(07), have a minimum tensile strength of 5,000 lbf. in the intended direction of the load and gate and side load of 3600 lbf. Ensure to follow the criteria of OSHA 1926.502(d)(5) and (d)(6) when using this component.



INSPECTION:

THOROUGHLY INSPECT EACH SNAPHOOK BEFORE EACH USE TO ENSURE:

- It is in good working condition
- Rivets have adequate head and are not loose such that function is compromised.
- Snaphook is not cracked, corroded or distorted, ensure the gate (keeper) does not bind and properly seats in the bill
- Gate (keeper) is not bent or distorted, ensure it properly seats in the bill.
- Gate (keeper) and lock mechanism are free of burrs.
- Gate (keeper) and lock mechanism and rivet attachment points are properly lubricated.
- Gate (keeper) rivet is properly seated / positioned in the rivet slot of the snaphook bill. (rivet should be centered and resting against snaphook body surface). (Fig. 1)
- Gate (keeper) and lock mechanism springs are properly seated and aligned.

Note: Snaphook must be inspected by a competent person, other than the user, at least annually.

Inspect each system component or subsystem according to the supplied manufacturer's instructions. If inspection reveals a defective condition, remove the unit from service and destroy it, or contact an authorized service center for repair. Only Buckingham Mfg. Co. or those people authorized in writing by Buckingham Mfg. Co. may make repairs to this equipment. Product must not be altered in any way.

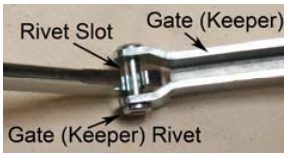


Fig. 1

❖ LOCKING SNAPHOOKS FEATURE A SELF-CLOSING SELF-LOCKING MECHANISM WHICH REMAINS CLOSED UNTIL UNLOCKED AND PRESSED OPEN FOR CONNECTION OR DISCONNECTION.

- When the lock mechanism is not activated, the gate (keeper) should remain securely locked when depressed.
- Depress the lock mechanism. It should move downward easily and spring back to its original position without binding or sticking.
- Depress the gate (keeper) and lock mechanism simultaneously, checking for:
  - ease of movement — no binding
  - Gate (keeper) unlocks completely
  - Gate (keeper) opens completely, moves through its full range of motion smoothly, and returns to its original position within the bill.

WARNINGS:

- Misuse / abuse of this product could lead to improper functioning with risk of injury!!! Never attempt to alter or modify a snaphook to bypass the lock mechanism!!!
- If this snaphook has been subjected to fall arrest or impact loading, it must be immediately removed from service and destroyed.
- When making a connection using this snaphook, the mating connector must be compatible in size and shape, as outlined in OSHA regulation 1926.502 (e)7, which states snaphooks shall be sized to be compatible with the member to which they are connected to prevent unintentional disengagement of the snaphook by depression of the snaphook keeper by the connected member, or shall be a locking type snaphook designed and used to prevent disengagement of the snaphook by the contact of the snaphook keeper by the connected member.

30342Inst.doc (Rev. 11/4/14)
PN 230257

- Improper loading directions can cause the hook to fail or the gate (keeper) to open, releasing the load. Only load snaphooks in the longitudinal direction as shown on the snaphook body (Fig. 2) and in Fig. 3.
- Do not use as a tie back type snap (Fig. 4), load so that force will be applied to the gate (Fig. 5), or side of the snaphook (Fig. 6) or with the bill section in an undersized hole (Fig. 7).

Fig. 2

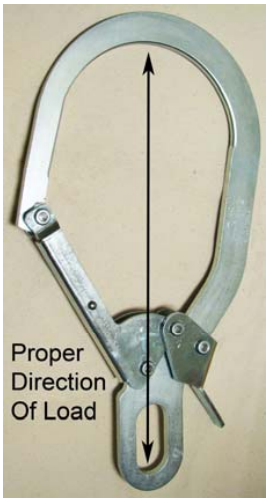


Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

- Do not use hooks that will not completely close over the attachment object.
- Do not install more than one snaphook or carabiner into a single connection ring or opening (except for emergency situations).
- Do not connect snaphooks or carabiners to objects or openings that may abrade or wear the hook material.

Buckingham Mfg. is not responsible for subsystem assemblies we do not manufacture and used in conjunction with this component.

It is the responsibility of all users of this equipment to understand these instructions and to be trained in its correct installation, use, and maintenance. These individuals must be aware of the consequences of improper installation or use of this equipment. These instructions are not a substitute for a comprehensive training program. Training must be provided on a periodic basis to ensure proficiency of the users.

Maintenance, Cleaning &Storage:

LUBRICATE lock mechanism and gate (keeper) on both sides AT LEAST WEEKLY or AS OFTEN AS REQUIRED to maintain smooth operation (no binding) with light weight lubricant such as WD-40®.

A dirty product should be washed and rinsed in clean water, then dried. Do not store near solvents or corrosive chemicals or at extreme temperatures. Inspect your equipment carefully before use. This product should be stored in a clean and dry environment out of direct sunlight and away from extreme climate conditions. Ropes should be stored on racks or hooks to provide ventilation and should never be stored on concrete or dirt surfaces

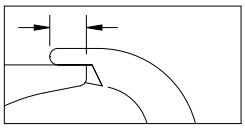
BUCKINGHAM MFG. CO., INC.
BINGHAMTON, NY
1-800-937-2825
www.buckinghammfg.com

Patent Pending

LOCKING SNAPHOOK INSPECTION PROCEDURE

- THOROUGHLY INSPECT EACH SNAPHOOK BEFORE EACH USE TO ENSURE:
  > Rivets have an adequate head, are properly rolled and are not loose such that function is compromised.
  > Snaphook is not cracked, corroded or distorted, ensure the gate (keeper) does not bind and properly seats in the bill.
  > Keeper is not bent or distorted, ensure it properly seats in the bill.
  > Keeper and lock mechanism are free of burrs.
  > Keeper and lock mechanism and rivet attachment points are properly lubricated.
  > Keeper extends into the bill, 3/16" min. (Fig. 1)
  > Keeper and lock mechanism springs are properly seated and aligned.
  >Roller turns freely and is not distorted.

3/16" MIN.



- LUBRICATE lock mechanism and keeper on both sides AT LEAST WEEKLY or AS OFTEN AS REQUIRED to maintain smooth operation (no binding) with light weight lubricant such as WD-40®.

- LOCKING SNAPHOOKS FEATURE A SELF-CLOSING, SELF-LOCKING MECHANISM WHICH REMAINS CLOSED UNTIL UNLOCKED AND PRESSED OPEN FOR CONNECTION OR DISCONNECTION.
  > When the lock mechanism is not activated, the keeper should remain securely locked when depressed.
  > Depress the lock mechanism. It should move downward easily and spring back to its original position without binding or sticking (Fig. 2).

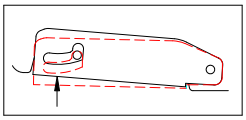


Fig. 2

  >Depress the keeper and lock mechanism simultaneously, (Fig. 3), checking for:
    >> ease of movement — no binding
    >> keeper unlocks completely
    >> keeper opens completely, moves through its full range of motion smoothly, and returns to its original position within the bill.

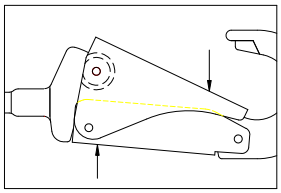
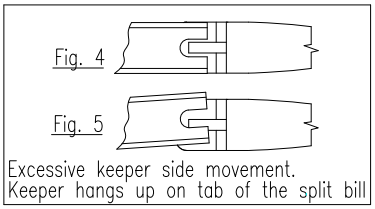
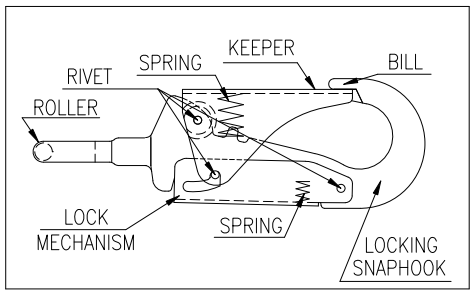


Fig. 3

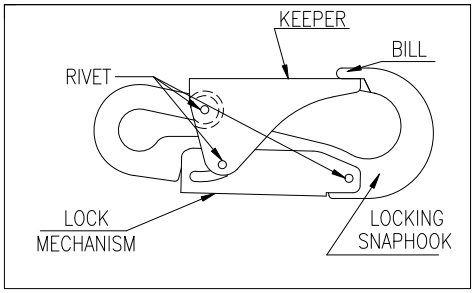
  > Move the keeper side to side to check for excessive side movement (Fig. 4). Side movement is excessive if the keeper hangs up on the tab of the split bill (Fig. 5)



- **NOTE:** MISUSE / ABUSE OF THIS PRODUCT COULD LEAD TO IMPROPER FUNCTIONING WITH RISK OF INJURY !!! NEVER ATTEMPT TO ALTER OR MODIFY A SNAPHOOK TO BYPASS THE LOCK MECHANISM !!!



LOCKING POSITIONING STRAP SNAPHOOK (PATENTED)



LOCKING SNAPHOOK (LINKLESS CONNECTION)

BUCKINGHAM MFG. CO.
BINGHAMTON, NY
1-800-937-2825

Information contained in these written instructions supersedes all other information (written, audio, video etc.) produced by Buckingham Mfg. prior to the revision date of this document.

Buckingham Mfg Co.

Buck Hook™ System

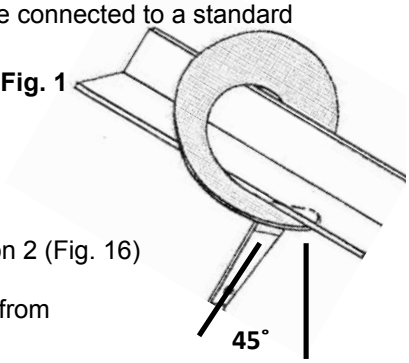
Instructions / Warnings

Read carefully, understand, and heed these and all included cautions, instructions and warnings before using this equipment. Failure to do so could result in your serious injury or death.

The Buck Hook™ is a safety device used to provide a temporary, portable anchorage point of a fall protection system to structure from ground to elevated heights back to ground. The system can be used in conjunction with a rope lifeline (7/16" min) and compatible rope grab or a retractable lanyard. The Buck Hook™ is to be connected to a standard fiberglass stick with universal head.

The configuration of the Buck Hook™ will fit around a 5 7/8" x 5 7/8" section of angle steel (see Fig. 1). When installed, the major axis position of the Buck Hook™ shall be aligned within + 45° from vertical.

Fig. 1



Buckingham's Buck Hook™ System allows the user to ascend and descend the structure while remaining 100% fall protected.

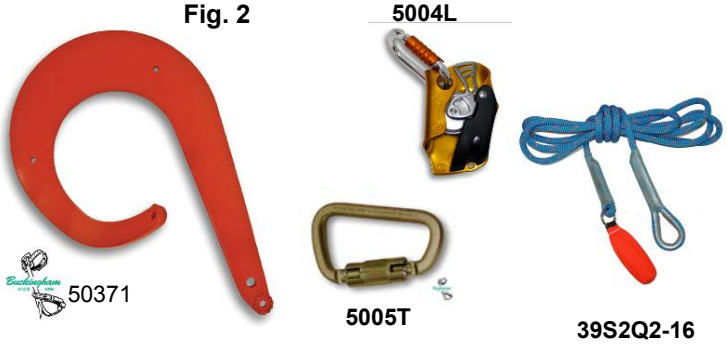
To properly assemble the Buck Hook™ System requires either option 1 (Fig. 2) or option 2 (Fig. 16) components.

Note: Hardware and components, although BMC supplied is recommended, may differ from that shown in Fig. 2 and Fig. 16.

OPTION 1

1 – 50371 Buck Hook™
1 – 5004L Fall Arrester
1 – 39S2Q2-16 Lifeline
(with 16-20O attached)
1 – Fiberglass Pole
1 – 5005T Steel Carabiner

Fig. 2

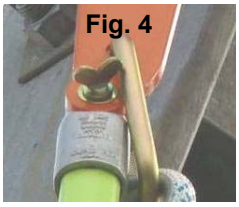


HOW TO ASSEMBLE THE BUCK HOOK™ SYSTEM OPTION 1

A. Attach the 50371 to the end of the fiberglass pole (Fig. 3). The fiberglass pole shall hang vertically within +5 degrees when attached to the Buck Hook™ which is positioned over a section of angle steel.
B. Attach the 39S2Q2-16 lifeline to the 50371 Buck Hook™ using the 5005T carabiner (Fig. 4)
C. Attach the 5004L Fall Arrester to the lifeline (Fig. 5-9)

Fig. 3

Fig. 4



HOW TO ASCEND WITH THE BUCK HOOK™ SYSTEM USING OPTION 1

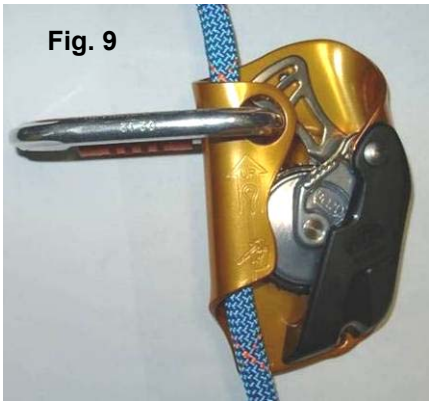
1. Extend Fiberglass pole all the way out.
2. Place Buck Hook™ over the lattice of the structure in a place suitable for anchorage. (Fig. 11 - 12). Note, bottom of fiberglass pole must remain below the user's feet to eliminate the possibility of the Buck Hook™ being inadvertently lifted off the anchorage point
3. Connect the 5004L fall arrester that is already attached to the lifeline to the sternal attachment of your harness using the attached carabiner (Fig. 13). Note only use the oval TRIACT Lock Carabiner provided with the fall arrester.
4. Climb structure until you reach the top of the lifeline (Fig. 14)

5. Secure your secondary positioning lanyard (not to exceed a 2' fall) around tower leg (Fig.15)
6. Once secure, reposition the Buck Hook™ to the next highest point ensuring the bottom of the fiberglass pole is below the feet at all times while ascending.
7. Disconnect secondary positioning lanyard.
8. Repeat steps 4 – 7 until desired height is reached

Note: In the event the fall arrester is impacted it will need to be unlocked. To unlock, remove weight from the fall arrester then press the locking wheel towards the rope and slide the fall arrester up the rope a few inches until you hear a click. The fall arrester is now unlocked (Fig. 10).

a. Depress silver button on side of locking wheel

b. Insert rope into channel of Fall Arrester



c. Attach carabiner to Fall Arrester

Unlocking

OPTION 2

1 – 50371 Buck Hook™
1 – 6007-164DV+Z Retractable Lanyard
1 – Fiberglass Pole

Fig. 16

50371

6007-164DV+Z

Fiberglass Pole With Universal Head

HOW TO ASSEMBLE THE BUCK HOOK™ SYSTEM OPTION 2

A. Attach the 50371 to the end of the fiberglass pole (Fig. 17). The fiberglass pole shall hang vertically within +5 degrees when attached to the Buck Hook™ positioned over a section of angle steel.
B. Attach the 6007-164DV+Z to the 50371 Buck Hook™ using the 50051 carabiner attached to the units swivel (Fig. 18 - 19)

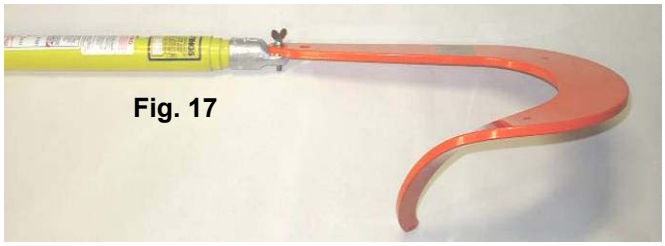


Fig. 17

Fig. 18

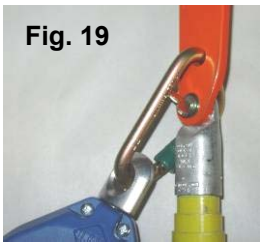


Fig. 19

HOW TO ASCEND WITH THE BUCK HOOK™ SYSTEM USING OPTION 2

1. Extend Fiberglass pole all the way out.
2. Connect the locking snap hook of the retractable lanyard to either the dorsal (Fig.22) or sternal (Fig.23) attachment point of your harness.
3. Place the Buck Hook™ over the lattice of the structure in a place suitable for anchorage (2" angle and above) (Fig. 20-21).
4. Climb up the Step Bolts until you reach the Buck Hook™ (Fig. 24)
5. Secure secondary positioning lanyard (not to exceed a 2' fall) around tower leg (Fig.25) Once secure reposition Buck Hook™ to the next highest point
6. Disconnect secondary positioning lanyard.
7. Repeat steps 4 – 6 until the desired height is reached.

Fig. 20

Fig. 21

Fig. 22

Fig. 23


Fig. 24


Fig. 25

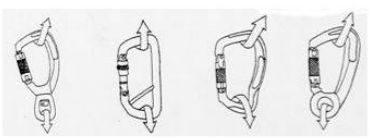
Note: When attaching the Buck Hook™ to a vertical member always attach as close to or around the vertical member as possible. If attaching to a horizontal member always attach as close to an intersection of two members as possible. Never attach in the middle of a long unsupported horizontal member.

WARNINGS

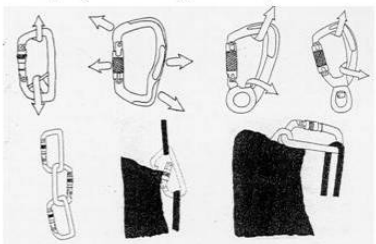
- Read understand and follow all instructions and warnings attached and/or packed with this product before use.
- This equipment is intended for use by properly trained professionals only.
- Fall protection equipment (i.e. fall arrest, work positioning belts, retrieval, suspension etc.) should not be resold or provided to others for re-use after use by original user as assurance cannot be granted that a used product meets criteria of applicable standards and is safe for use to a subsequent user.
- Anchor points must support a minimum of 5000 lbf. per attached worker and be independent of worker support.
- Harnesses equipped with a front-mounted attachment element for fall arrest shall be used only as part of a personal fall arrest system that limits the maximum free fall distance to two feet and limits the maximum arrest force to 900 pounds. Ensure the front attachment element is properly positioned as stated under “Donning Harness” in Buckingham’s Harness Wearing Instructions.
- Avoid rubbing of unit components against abrasive surfaces and sharp edges.
- Use this product only in combination with compatible equipment.
- Equipment subjected to impact loading must be immediately removed from service, destroyed and discarded.
- Always visually check that the snap hook / carabiner freely engages the anchor point and the keeper / gate is completely closed. Never rely on the feel or sound of a snap hook / carabiner engaging.
- Be certain the snap hook / carabiner is positioned so that its keeper / gate is never load bearing.
- Ensure loads applied to carabiners are directed in the proper orientation. Proper and improper loading techniques are shown below in Fig. 26
- Never disable the locking mechanism on the snap hook / carabiner, punch holes in or alter a connecting device or any part of this system in any way.
- Ensure there is no pressure on the snap hook locking mechanism sufficient to depress it as this will, due to its length, render it incompatible with currently designed D-rings and make it very susceptible to rollout.
- Do not let any part of this system come into contact with any chemicals, corrosive materials, acids or basic solvents.
- Wearing gloves while using this product is highly recommended.
- Product covered under these instructions / warnings should not be resold / redistributed or re-used after use by original user.
- Employer - instruct employees as to proper use, warnings and cautions before use of this equipment.

Fig. 26

Proper Loading Techniques



Improper Loading Techniques



Maintenance

- Proper maintenance and storage of your equipment will prolong its useful life and contribute toward its performance. Clean equipment with water and mild soap and allow to dry thoroughly without using excessive heat. Lubricate as necessary.
- Apart from visual examination of product before and after each use, as a minimum, it should be inspected at least once a year by a competent person.
- Lubricate lock mechanism and keeper/gate on both sides of connector at least weekly or as often as required to maintain smooth operation (no binding) with light weight lubricant such as WD-40®

INSPECTION

Prior to and after each use, carefully inspect each component. It is also recommended all components be removed from the storage bag and as a minimum, be inspected every six months by a competent person. The inspection should include, but not be limited to the following:

Fall Arrester

- Inspect to ensure there are no cracks, distortion, nicks or burrs.
- Make sure the rope is woven through the arrester correctly as illustrated on the unit and shown in these instructions.
- Inspect for proper operation of device.

Note: Refer to these as well as the separately included manufacturers Instructions / Warnings for this device

Rope

- Inspect for cuts, kinks, abrasions burns, broken fibers, chemical or physical exposures, excessive wear, discoloration, swelling, or herniated rope (core popping through cover).
- Inspect stitched eye for excessive wear, abrasions, cut, broken, missing or unraveling thread or broken fibers.

Carabiners

- Ensure locking device and or keeper / gate operate freely and smoothly.
- Inspect to ensure there are no cracks, distortion, corrosion or nicks.

If any evidence of wear or deterioration as outlined is observed, immediately cease use, destroy the product, and replace it with new equipment. Should any unusual conditions not outlined above be observed or you have reasonable doubt about a particular condition, remove the equipment from service and notify your Supervisor, Safety Director, or contact Buckingham Mfg. Co. for clarification.

BUCKINGHAM MFG. CO.
BINGHAMTON, NY
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Information contained in these written instructions supersedes all other information (written, audio, video etc.) produced by Buckingham Mfg. prior to the revision date of this document.

INDIVIDUAL KIT

Rope Bag (Manny)

Double-Lanyard

CREW KIT


Buckingham BuckHook
Mobile Fall Arrest Device
Hastings TEL-O-POLE II
Crew Kit Storage Bag
300ft ArmorTech Rope