

## Field of Application

Before using the Harken Ninja MultiAscend, read the instructions contained in this manual thoroughly. This instruction manual is an integral part of the product, and it supplies information for its correct safe use and maintenance. If you do not understand any of the instructions, please contact Harken's authorized dealer. Harken shall not be liable for damages, injuries, or death caused by usage not covered in this manual or any non-compliant or unsafe actions. This manual is intended for specialized personnel or expert users.

## Safety Information

### General advice

Progress capture device for ascending rope, and short distance rope descents.

### Intended use

- As a type B rope adjustment device compliant to the European Standard EN 12841:2006 (fully rated and locking chest ascender) up to a maximum rated load of 140 kg, that is a manually operated device which, when attached to a working line, locks under load in one direction and slides freely in the opposite direction, to be used on rope access systems and related activities.
- This product can be used for hauling systems: this use is to be considered outside the scopes of the Regulation 2016/425.
- This product should only be used by one person at a time; this equipment should be a personal issue item.
- This product is intended to prevent the risk of falls from a height during acceptable activities.
- As a rope clamp compliant to the European Standard EN 567:2013 to be used on mountaineering and related activities, that is a mechanical device which, if attached to a rope or an accessory cord of appropriate diameter, will clamp under load in one direction and move freely in the opposite direction.

### Improper use

- Do not use with wire rope.
- Do not use as a fall arrest device.
- Do not use this product outside of its limitations, or for any other purpose than that for which it is intended.
- Do not alter, tamper, or add to this equipment without the manufacturer's prior written consent. Any repair shall only be carried out in accordance with the manufacturer's procedures.
- Do not use this rope clamp in weather or environmental extremes.

### Personal protective equipment

- Harness, gloves, and helmet that meet national and/or local requirements are recommended.
- Follow your national and/or local regulatory requirements for Personal Protective Equipment (PPE).

### Risks

- This equipment shall only be used by a person trained and competent in its safe use.
- Activities involving the use of the Ninja MultiAscend are inherently dangerous. You are responsible for your own actions and decisions.
- Read and understand all instructions before use
- Get specific training on the Ninja MultiAscend's proper use.
- Become acquainted with MultiAscend's capabilities and limitations.
- Understand and accept the risks involved.
- Users must be medically fit for all activities the MultiAscend is involved in. Users must be capable of controlling their own safety in any emergency situation.
- Failure to heed any of these warnings could result in severe injury or death.
- Overloading or dynamic load on the Ninja MultiAscend may damage the anchor rope.
- Verify that the product markings are legible. Fig 4

## ⚠ WARNINGS

**Do not use as a fall arrest device.**

**Anchor ropes should be attached to the anchor above the user. Slack between the anchor and the user should be avoided.**

**Any loading above the published recommendations or dynamic loading on the MultiAscend may damage both the rope and the device. Stay within the limitations of the specifications and lengths documented.**

**Only competent personnel trained to use this equipment safely may use it.**

**Be aware of any dangers that may occur due to the use of combined items, in which the safe function of any one item is affected by, or interferes with, the safe function of another.**

**Do not trail or loop this product over sharp edges. Trailing or looping safety equipment in such a way may result in death or injuries.**

**Do not make any alteration or additions to the equipment without Harken's prior written consent. All repairs should only be carried out according to Harken procedures.**

**If the product is sold outside of its original country of destination, the reseller must provide instructions for the following: use, maintenance, periodic examination, and repair, in the language of the country where the product is to be used.**

## Product descriptions/components

**Materials:** The product is made of aluminum body and swing plate; stainless steel hardware, pawls, and harness connection; nylon webbing for the strap; stainless steel for the metal components of the strap.

### Dimensions - Fig 2

### Nomenclature of parts - Fig 5

- |    |                       |    |                      |
|----|-----------------------|----|----------------------|
| A. | Top adjustment strap  | H. | M4 Tapped hole*      |
| B. | Swing plate           | I. | Body                 |
| C. | Latch                 | J. | Cotter ring          |
| D. | Pawls                 | K. | Nylon insert locknut |
| E. | Capscrew              |    |                      |
| F. | Bottom saddle bracket |    |                      |
| G. | Pawl triggers         |    |                      |
- \* for optional locking fastener swing plate

## Certifications

The MultiAscend device complies with regulation (EU) 2016/425 relating to PPE.

EN 567:2013 - 9–13 mm rope

Tested for certification purposes with the following models of rope:

Tendon Canyon Dry Ø9 mm

Bluewater Protac Ø9 mm

Tendon Static Ø9 mm

Teufelberger KMIII Ø9 mm and Ø13 mm

EN 12841.2006 B - Ø: 10.5–13 mm, maximum rated load: 140 kg

Tested for certification purposes with the following models of rope (both low stretch kernmantel ropes according to EN 1891, type A):

Beal Access Ø10.5 mm

Teufelberger PLATINUM® arborACCESS Ø10.5 mm

Teufelberger KMIII Ø13 mm

Note: This product has been approved for the use under the following specific conditions, as indicated in the standard EN 12841:2006: heat, cold, wet, and oil.

Note: When the adjustable anchor line is loaded by the full weight of the user this becomes a working line and an independently anchored safety line should be used in addition for optimum safety of the user.

Note: The primary function of Type B rope adjustment devices is progression along the working line, and they shall always be used in conjunction with, and connected to, a Type A rope adjustment when used in accordance with EN 12841:2006.

Note: When used as a rope adjustment device compliant with EN 12841, only low stretch Type A kernmantle ropes compliant with EN 1891 shall be used. When used as a rope clamp compliant with EN 567:2013, the device can be used with any of the following options:

- Dynamic mountaineering ropes compliant to EN 892

- Accessory cords compliant to EN 564

- Low stretch kernmantle ropes compliant with EN 1891

Note: The harness must be compliant with EN 813 or EN 12277.

Note: It is recommended to use this device only in conjunction with CE-marked PPE for compliance with 2016/425.

The EU examination certificate was carried out by Certottica S.C.R.L. EU Notified Body (N.B. 2008, Villanova Zona Industriale 7/A, 32013 Lonarone (BL) -- Italy\_Tel. +39 0437 573407).

The EU production control phase was carried out by UL International (Netherlands) B.V. (N.B. 2821, Westervoortsedijk 60, 6827AT Arnhem, The Netherlands – Tel. +31263764974).

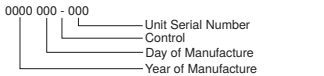
The EU Declaration of Conformity can be downloaded from the website [www.harken.com](http://www.harken.com).

This manual can be changed without notice.

Consult the website for updated versions or other languages not in this manual.

## Product labeling Fig 4

- CE mark and number of the notified body involved in the control of the production
- Certification information regarding EN 12841:2006
- Certification information regarding EN 567:2013
- Latch open direction
- Correct loading direction
- Manufacturer's part number
- Name and address of manufacturer
- Read the manual
- Serial number of device



The Serial number is in the format YYYYDDDD-XXXX. This format represents the following: 4-digit year, 3-digit day (Julian calendar count), and a 4-digit individual identifier. For example, in the Julian calendar, the number 234 represents August 22.

## Use

**Connection to the harness:** Connect the **bottom saddle bracket** to an approved, rated, full-strength point on the harness' ventral (frontal) attachment. The MultiAscend is considered a full point of attachment when properly connected to a full body harness:

- Loop bottom saddle bracket through harness. Fig 11 and Fig 12
- Screw in cap screw until lock nut is tight. Cap screw and nut should turn together free from base. Fig 13
- Loop cotter ring in hole of cap screw. Fig 14
- Connect upper webbing strap to sternal D-ring connection of harness to hold up when not in use. Fig 15

**⚠ WARNING! Not all harnesses are compatible with this chest ascender. Consult manufacturer for recommendations.**

**⚠ WARNING! Only use lock nut once, then replace.**

**⚠ WARNING! When using the MultiAscend as a chest ascender, never connect the chest ascender to the harness attachment point via an additional component (e.g., a connector or a lanyard). Always connect the saddle bracket directly to the harness attachment point.**

### Top adjustment strap

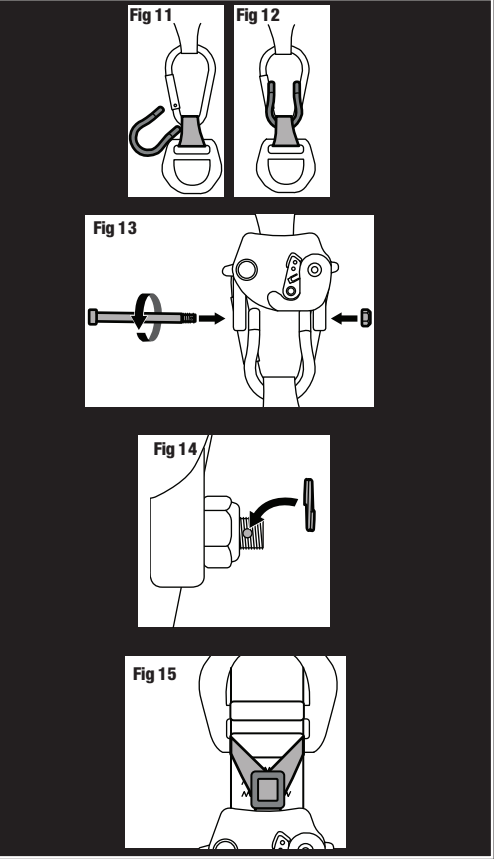
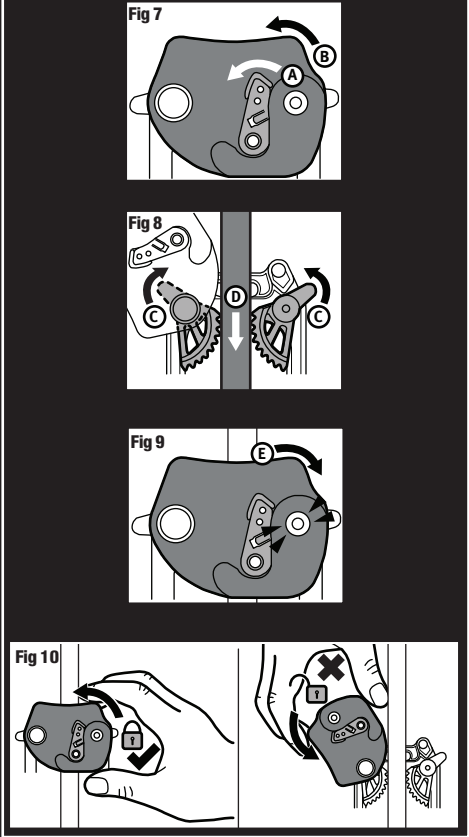
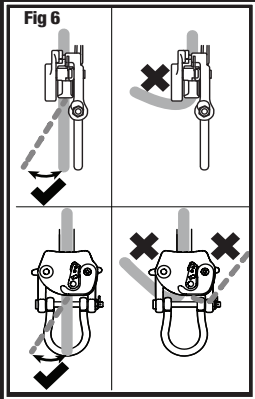
Attach as an alignment support per harness instructions. See Fig 1 diagram of strap reeving. Ensure that the top adjustment strap cannot get caught in the pawls.

**⚠ WARNING! Strap not for load bearing, only for alignment purposes**

### Selecting other components for the system

Verify that this product is compatible with the other elements of the system in your application. Equipment used with the Ninja MultiAscend must meet the current standard in your country. Do not use with any equipment that could impede the safe function of the MultiAscend, dangers could arise if the function of the MultiAscend is compromised.

Note: Use this device only in conjunction with CE-marked PPE.



Annual Inspection				
Date	Reason for entry (Periodic exam or usage)	Defect notes and other important information	Name and signature of competent person	Date of next periodic examination

### Characteristics for the anchor

- Anchor ropes should be attached to the anchor points above the user. Avoid slack in the anchor rope between the anchor point and the user.
- Rope must run straight or directly through the device and not deviate. **Fig 6**
- When used in a haul system, the MultiAscend must be allowed to align with the load.
- Anchor must meet requirements of EN 795 standard, 12kN minimum strength or meet the current standard in your country.
- When used as a chest ascent device and the rope is not vertical, the user must keep the tail of the working rope between their legs to ensure proper loading of the device.

### Pre-use inspection

Inspect the MultiAscend prior to each use to ensure that the MultiAscend is in serviceable condition and operates correctly. Use the following list as a guide to determine its operability:

- Ensure that the latch moves freely, has spring pressure and locks with an audible click. Verify that the swing plate cannot be rotated open by pulling up on plate.
- Ensure that the pawls move freely by rotating the pawl triggers and that the pawl springs readily return the pawls to their closed position.
- Ensure that there is not excessive wear on pawl teeth that could affect function. Do not alter the pawl teeth in any way.
- Ensure that cap screw runs through both legs of body, locknut is in place, and cotter ring is in cap screw.
- Ensure that cap screw and the bottom saddle bracket have no deformation, wear, and/or corrosion.

### Installation on rope for progress capture/ascent

- Open swing plate by rotating latch (A) and rotating swing plate (B). **Fig 7**
- Separate the pawls (C) and install the rope (D). **Fig 8**
- Close swing plate and ensure that you hear a click as swing plate latches (E). Ensure that it cannot open by pulling upward on the bottom of the plate. **Fig 9, Fig 10**
- While climbing, check progress capture during ascent.

### Down-climbing operation

- Remove weight from MultiAscend.
- Lift up on each pawl trigger.
- Gently lower to new weighted position on the rope.
- Release pawl triggers to reengage MultiAscend by weighting device.

**⚠ WARNING: Do not shock load pawls as you down climb.**

**When used in a haul system:** The MultiAscend can be used in a haul system, where the MultiAscend will clamp on the rope in one direction and move freely in the other. The MultiAscend can be connected directly into the system with the bottom saddle bracket, with a carabiner, or with a lanyard up to 1 m long. The arrow on the MultiAscend should be in line with the vector being lifted.

**Rescue plan:** You must have a rescue plan and the means to rapidly implement it in case of difficulties encountered while using this equipment.

**Operating temperature:** -30°C and +50°C (-22°F and 122°F)  
Note: Suitable conditions of use: wet and oily conditions; not intended for use under dusty conditions.

### Removing from service

If the MultiAscend has been subjected to the forces of arresting a fall it must be immediately withdrawn from use. Product can be severely damaged if exposed to chemical agents, heat, abrasion, or a drop that results in visible damage or loss of function. It should be removed from service if safe function is in doubt. If in doubt check with Harken. Once removed from service do not use the device again until it has been confirmed in writing by a competent person that it is acceptable to do so.

Do not use if the product has become severely damaged by contact with chemical reagents. Immediately withdraw the device if it cannot function safely.

### Annual Inspection

**⚠ WARNING! Regularly conduct periodic examinations. User safety depends upon the continued efficiency and durability of the product. The periodic examination frequency shall be at least every 12 months by a competent person, and in accordance with the manufacturer's periodic examination procedures.**

The MultiAscend must be inspected thoroughly at least once every 12 months to ensure the safety of the device which is dependent on the continued function. Annual or periodic exams must be completed by competent persons according to the manufacturer's instructions. Follow the pre-use inspection guide described above. Record the service. **Fig. 16** gives an example of the Equipment Record and Inspection Log, which must be kept for the MultiAscend.

Note: It is the user or user organization's responsibility to fill out the equipment record.

**⚠ WARNING! The periodic examination frequency shall be at least every 12 months. Determine if more frequent examinations are required based on applicable regulatory requirements, equipment type, frequency of use, and environmental conditions.**

### Lifespan

- The maximum lifespan of the top adjustment strap is five years from the date of manufacture. However, this can be considerably shorter depending on the usage intensity and environment in which it is used.
- The main metal body has an unlimited lifespan based upon passing inspection before each use.

**⚠ WARNING! Only a competent person should conduct the periodic examination, and the examination should be strictly in accordance with the manufacturer's periodic examination recommendations.**

### Maintenance

- If soiled, rinse in clean warm water (maximum temperature 25°C [77°F]) with non-detergent at appropriate dilution (Ph range 5.5–8.5), thoroughly rinse.
- When the equipment becomes wet, either from being in use or when due to cleaning, dry naturally, and keep it away from direct heat.
- Light surface corrosion may be removed with a wire brush (no power tools). Retire if corrosion is heavy.
- Spare components can be purchased for the top adjustment strap (IN910) and the bottom saddle bracket (IN909).
- Repairs to these parts should only be performed by a competent person or at a Harken service center.

### Lubrication

- Lubricate the cam axle with a silicone based lubricant or dry graphite. This should be carried out after cleaning and drying. Ensure that all excess lubricant is removed before installing rope.
- If any pivoting elements are sticky or do not have full range of motion, cleaning and lubrication may solve the problem. If they do not, replace the product immediately.

### Packaging, storage, and transportation

- Keep dry, away from solvents and corrosive materials.
- Do not store at extreme temperatures or with direct exposure to UV.
- To prevent damage, ensure swing plate is closed during storage and transportation.

### Warranty

Harken guarantees this product for three years against any defects in materials or manufacture. The guarantee does not cover this product from normal wear and tear, oxidation, modification or alternation, incorrect use or storage, poor maintenance, accidental damage, negligence or any usage for which the product was not designed.

### EU Type-Examination Certificate

Please visit [www.harken.com](http://www.harken.com)

Equipment Record		
Product:		
Model/Type IN403/IN403.BLACK	Description Ninja MultiAscend	Serial Number
Manufacturer Harken	Address N15W24983 Bluemound Rd Pewaukee, WI 53072-4974 USA	Tel/Website + 1 262-691-3320 www.harken.com
Year of manufacture	Purchase date	Date first put into use