

Important

Please read and understand these instructions before use. This product should only be used by trained & competent operatives, or under the supervision of such a person.

Use

The SAR A-B is a multi-function rope adjustment device. Examples of its potential uses are:

- Descender/ lowering device in rope access, rescue and intervention
- Progress capture in a hauling or tensioning system
- Emergency descender

It is the user's responsibility to ensure that any items of PPE or other equipment used with the A-B are compatible and do not interfere with the safe function of any other component. Any item of equipment used must comply to the relevant standard(s).

Note: The information in this guide meets the requirements of the EU PPE Regulation 2016/425 . It is not comprehensive and cannot be substituted for the correct training, which can be provided if required. If in any doubt, contact SAR Products using the supplied information.

Safety

The safety provided by the A-B is dependant on the scenario, the anchors used and the skill of the user. The strength and suitability will be reduced through factors such as, but not limited to, age, wear & tear,

abrasion, cuts, high impact loads, tight/sharp edges, knots, some chemicals (e.g. strong acids or alkalis), UV exposure, environment (damp or icy conditions), failure to store & maintain as recommended, etc.

The A-B will perform differently when used outside of normal climatic conditions. The user should keep any fall factor and lanyard length to a minimum at all times.

An appropriate connection method must always be used between the harness and the anchor or system. The user must consult the instructions for any other components used in a fall protection or fall arrest system and must pay attention to information including fall clearance distances, etc.

This device must not be used for fall arrest. A rescue plan should always be in place prior to any work at height.

Do not alter or repair the product in any way. Any component subjected to a dynamic loading should be examined and discarded if there is any sign of defect, or any doubts about its safety. The user shall assess the suitability of the device and rope for continued safe function.

EN12841 Type B & Type C rope adjustment devices shall always be used in conjunction with a Type A device and a safety line.

Lifespan

The lifespan of any product will be affected by the conditions in which it is used and stored/ maintained. This product is manufactured using high grade aluminium alloy & stainless steel components.

Textile components should be retired no later than 10 years after the Date of Manufacture. Metal components will have an indefinite lifespan, depending on use.

The working life will be reduced through general wear and tear, abrasion, cuts, damage to component parts, inappropriate ancillary equipment, high impact load, prolonged exposure to UV light including sunlight, elevated temperature (50°C max), exposure to some chemicals (e.g. strong alkalis) or failure to store and maintain as recommended. This list is not exhaustive.

Anchorage

Anchor points should always be assessed for strength and suitability for the task (EN795, minimum 12kN). Sharp edges, abrasive or high temperature surfaces should be avoided or protected against. Anchor points, wherever possible, should be above the user.

Cleaning

Rinse in clean cold water. If still soiled, wash in clean warm water (max. 40°C) with pure soap or a mild detergent (within pH range of 5.5 to 8.5). Rinse thoroughly in clean cold water.

Maintenance

Always keep the product clean and dry. Any excess moisture should be removed with a clean cloth and then allowed to dry naturally in a warm room away from direct heat. Metal parts may be lubricated with a dry PTFE lubricant or WD40 type spray. Excess lubricant should be wiped off to avoid attracting dirt.

Chemicals

Avoid contact with any chemicals which could affect the performance of the product. If contact occurs, or is suspected, then remove the product from service immediately. If used in a marine environment, thoroughly rinse in clean cold water and dry after each use.

Storage

After cleaning, store unpacked in a cool, dry, dark place away from excessive heat sources or other possible causes of damage. Do not store wet. Transport in a suitable protective bag. If a long shelf life is required it is advisable to store in a moisture proof package.

Inspection

Before each use, conduct a visual inspection and function test to ensure the product is in serviceable condition and operates correctly. A periodic examination should be carried out at by a competent person at least every 12 months. These inspections should be recorded, paying particular attention to areas of potentially high wear such as

attachment points, textiles, cams, bearings, etc. In the UK, the frequency of periodic inspection should be at least every 6 months; it is the user's responsibility to ensure they comply with the guidance for inspection in their own country or region.

Textiles: Check for cuts, tears & abrasions, damage due to deterioration, contact with heat, alkalis or other corrosives, label legibility.

Stitching: Check for broken, cut, loose or worn threads.

Metals: Check for cracks, distortion, corrosion, wear by abrasion, burrs, worn or loose rivets or screws, discolouration caused by extreme heat (greater than 100°C) broken springs, seizure of moving parts, broken or missing components, marking legibility.

Immediately withdraw from service any items showing defects. Any repairs must be carried out by the manufacturer or their authorised agent.

Warning

Work at Height and Rescue are hazardous activities. It is the user's responsibility to ensure understanding of the correct and safe use of this equipment, to use it only for the purposes for which it is designed and to practise all proper safety procedures. The time that a casualty is suspended should be kept to a minimum. Attention should be paid to the dangers suspension trauma.

The user shall ensure that the safe function of this product is not impaired by, and does not impair, the safe function of another component or system. When using a work positioning system, the user normally relies on the equipment for support, therefore it is essential to consider the need of using a back-up.

When descending/ lowering, or belaying, the rope diameter, construction, age, wetness, slipperiness, temperature below 4°C, etc will affect how the device performs. Users should familiarise themselves with the braking effect before each use.

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

Dynamic loading or overloading may damage the anchor line. Connection to the anchor point should not impede the descent. Slack in the rope should be avoided.

Descent energy = load (kg) x gravity (9.81) x descent height (m) x number of descents.

Always descend in control; loss of control may be difficult to recover. The device may become hot during use and may damage the line.

Markings

Each individual component is marked, where applicable, with:

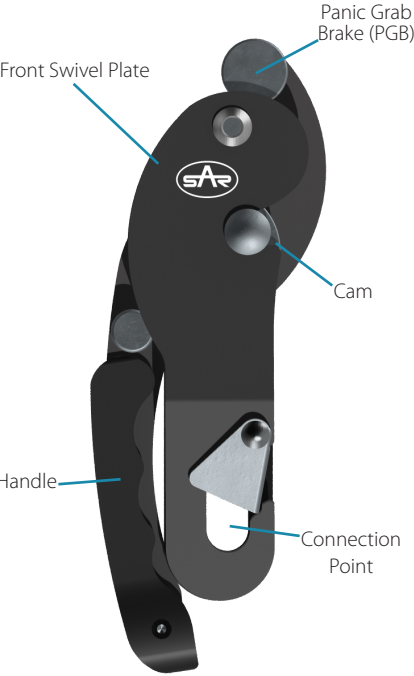
- The name, trademark or any other means of identification provided by the manufacturer or supplier.
- The batch or serial number
- The date of manufacture (DoM)
- Product description and/or reference
- The British &/ or EN standard(s) to which the item conforms
- Min/ Max rope diameter (commercially stated rope diameters have a tolerance up to ± 0,2 mm)
- Load rating
- UKCA &/or CE mark & body number

A-B device serial number: the first two digits are the year, the next six digits are the batch, and the last four are the individual serial number.

Strengths quoted are when the product is tested new and are in accordance with the manufacturer's test methods to the appropriate standard. Any weights and measurements are within the standard's specified tolerances.

It is essential for the safety of the user that if the product is re-sold outside the original country of destination the reseller shall provide instructions for use, for maintenance, for periodic examination and for repair in the language of the country in which the product is to be used.

Nothing in this document affects the consumer's statutory rights.



User Guide
A-B Descender



UK
CA
0120
CE0598



User's Name:
Date of Manufacture:
Date of Purchase:
Date First Used:
Product Serial No.:

Certificate Of Conformity

We certify that the A-B device conforms to the requirements set out in EN12841:2006-C
The A-B had also been independently witnessed as conforming to the test requirements of EN341:2011 Type 2, Class D.

Signature:.....
For SAR Products Ltd.

Instructions for use: EN12841:2006-C
EN12841:2006-C Rope access systems. Rope adjustment devices. For use with 10.5mm to 11mm diameter EN1891 Type A rope. Maximum user weight 150kg (max. 200kg for rescue).

Descending or lowering:

- Connect the device to the attachment point using a locked EN362 connector. **Fig 1.** Attach to the ventral attachment point for use as a descender, or to an appropriate anchor for use as a lowering device

- Open the front swivel plate. **Fig 2**

- Insert the rope, also indicated on the device. **Fig 3**

- Close the swivel plate. **Fig 4**

- The A-B can be used with or without the Panic Grab Brake (PGB). **Fig 5** or **Fig 6** **NOTE:** Only experienced users may use without the PGB

- Operate the handle to control descent. **Fig 7**

- ALWAYS hold the tail end of the rope when operating the handle

- To lock the device against unintentional activation, take a loop of the tail end rope, pass through the connector, and over the PGB bobbin. Pull down on the tail end to secure. **Fig 8 & 9 - Note:** When locked in this way, the device will not slip when overloaded, therefore extreme care must be taken when using this method.

- For use in rescue, with higher loads &/ or when extra friction is required, use an additional friction karabiner. **Fig 10.** **NOTE:** Extreme caution must be used with higher loads if the PGB is not engaged. **Fig 11**

Instructions for use: EN341:2011/2D

EN341:2011/2D Descender devices for rescue. For use with specified EN1891 Type A 10.5mm to 11mm rope (SAR Low Stretch 11mm, SAR Rescue & Access 11mm, Teufelberger Patron 10.5mm, Teufelberger Patron 11mm, Teufelberger Patron+ 11mm). Minimum user weight 40kg. Maximum user weight 120kg. Max 1 descents of 200m.

Rescue only:

- Should only be used by a person competent in its use or following clear emergency protocols

- The descender must be used with the specified rope, and with an appropriate harness

Descent:

- Attach the rope termination to a suitable anchor point using a locked EN362 connector

- Attach the device to a suitable attachment point on the harness or rescue loop. **Fig 1**

- Operate the handle to descend. **Fig 7**

- ALWAYS hold the tail end of the rope when operating the handle, Risk of death

Lowering the casualty:

- Attach the device to a suitable anchor. **Fig 1**

- Attach the rope termination to a suitable attachment point on the harness or rescue loop, using a locked EN362 connector

- Operate the handle to lower. **Fig 7**

- ALWAYS hold the tail end of the rope when operating the handle. The tail end may be routed through an additional connector at the anchor point for direction/extra friction. **Fig 10**

- Although this is classed as a single use device, it may be re-used after a minimum wait of 30 minutes and an inspection between uses

Specifications

When tested with SAR 11mm Low Stretch rope and SAR 11mm Rescue & Access rope (16 plait kernmantle), the average static load before slippage was 4kN. Weight of A-B device: 452g

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Notified Body

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Fig 1



Fig 2



Fig 3

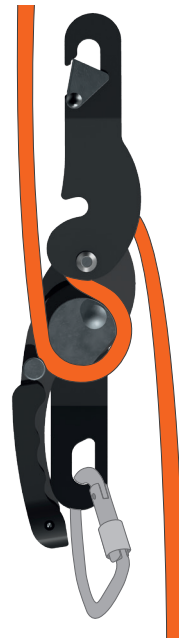


Fig 4



Fig 5



Fig 6



Fig 8



Fig 10

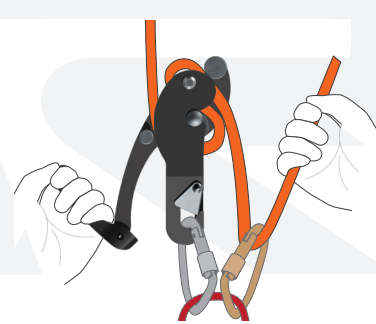


Fig 7



Fig 9

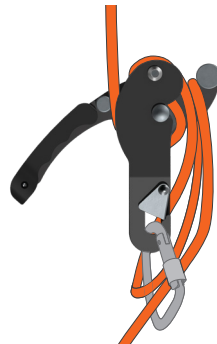
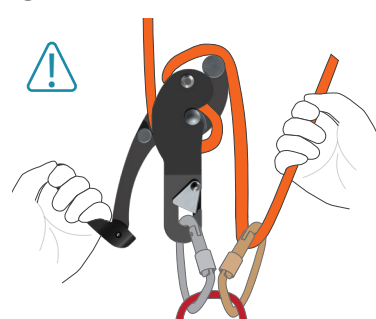


Fig 11



Inspection & Maintenance Record

Next inspection due	Name & Signature of Inspector	Type of inspection & Comments	Date & Time

Declaration Of Conformity

The EU Declaration of conformity is available by scanning the QR code or visiting:
www.sar-products.com/eu-doc/



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