



USER INSTRUCTION MANUAL
**IRSQ FIGURE 8 DESCENDER &
RESCUE 8 DESCENDER**

**CERTIFIED TO
EN 15151-2:2012**

THESE INSTRUCTIONS APPLY TO THE FOLLOWING MODELS:
AFX208001 & AFX208007

Please read and understand the manufacturer's instructions for each component or part of the complete system. Manufacturer's instructions must be followed for proper use, care, and maintenance of this product. These instructions must be retained and be kept available for the user's reference at all times. Alterations or misuse of this product, or failure to follow instructions, may result in serious injury or death.

Note: The user is advised to keep this user instructions document for the life of the product.

1. **INTRODUCTION:** This product is used as a component of a rope descent system.
2. **APPLICATION:** The descent brake in figure of 8 is designed for mountaineering activities, caving, rafting, and associated rope based rescue activities
3. **TECHNICAL SPECIFICATION:** Complies to EN 15151-2: 2012.

Ref.	Material	Inner dia	Height	Weight	M.B.S	Maximum Rated Load	Finish
AFX208001	Aluminium	Big: 52mm Small: 26mm	145mm	136.0gms	50 kN	Upto 140.0kgs	Natural silver/ Coloured Anodized
AFX208007	Aluminium	Big: 72mm Small: 40mm	171mm	270.0gms	40 kN	Upto 140.0kgs	Coloured Anodized

4. INSPECTION:

- Visually inspect the system before each use to ensure that it is in a serviceable condition and is operating correctly. Inspect for any signs of cuts, sharp edges, burns or abnormal shrinkage, no visible damage, no deformations or oxidation that may damage the rope. If during inspection, doubts are raised about the safety of the system or a component, these should be replaced either by the manufacturer or a competent person.
- For your safety, always inspect your equipment before, during and after the use, and pass it a through a periodic inspection with qualified personnel at least every 12 months. This frequency may vary depending on the frequency and intensity of use. If you have any doubt about the condition of the equipment, replace it immediately and removed from service.
- In the event of deformation or doubt, the descent brake should not be reused and removed from service.

5. PRECAUTIONS:

- Ensure the medical condition of the user does not affect their safety in normal and emergency use.
- The equipment shall only be used by a person trained and competent in its safe use.
- A rescue plan shall be in place to deal with any emergencies that could arise during the work.

6. PRE-USE CHECK:

Check that the devices are used in combination with other systems suitable for mountaineering, caving, rafting and associated rope based rescue activities, and also that they are compatible, check that they comply with the rules, standards and EU directives. In any case, we recommend that you use Connectors according to the EN362, Harnesses to EN361, and Anchors to EN795, before use, refer to the recommendations for the use of each system component.
Never use metallic rope with the descent brake.

7. HOW TO USE:

This user instruction will not teach you the techniques for using this equipment; the use of this equipment is therefore reserved for expert users. So it is essential, to be trained in these techniques before the use. Whatever the technique of using the descent brake: (descent, assurance of the first one on the rope, check during the use the good position of the connector in the descent brake, the efforts of traction on the connector must be only done in the direction of the major axis.

8. **RISK ASSESSMENT:** Before each use, the user shall carry out a risk assessment to ensure the equipment is suitable for the intended application and that the complete system can be used safely.

Verify the following before commencing any descent or lowering operation:

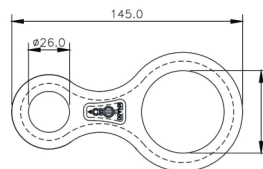
- Anchor System** - Ensure the anchor point has sufficient strength and is suitable for the intended application.
- Ground Clearance** - Confirm there is sufficient clearance below the user to complete the descent safely.
- Swing Fall Hazard** - Position the anchor directly above the user wherever possible to minimise lateral movement during descent.
- Edge Hazards** - Ensure the rope is protected from sharp edges, abrasive surfaces, burrs, and rough concrete or steel edges.
- Environmental Conditions** - Wet or icy conditions that may reduce braking performance, High temperatures or hot surfaces, Chemical contamination.

9. **ROPE INSTALLATION:** The following rope installation procedures apply to both the KStrong AFX208001 Figure 8 Descender and the KStrong AFX208007 Rescue 8 Descender. While the devices differ slightly in shape, the rope installation sequence and operating principles are the same. Compatible Rope EN 1891 9mm-11mm Kernmantle Rope.

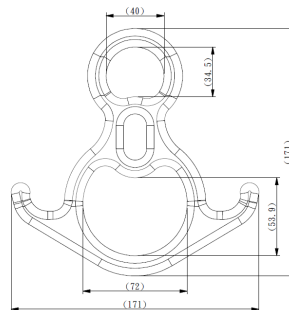
Before installing the rope:

- Ensure the descender has passed the pre-use inspection.
- Verify the rope complies with the rope diameter specified in the Technical Specifications for the model being used.
- Inspect the rope for damage.
- Ensure a compliant EN 362 locking connector is available.
- Confirm the anchor system is suitable.
- Never use wire rope, steel cable, chain or damaged rope

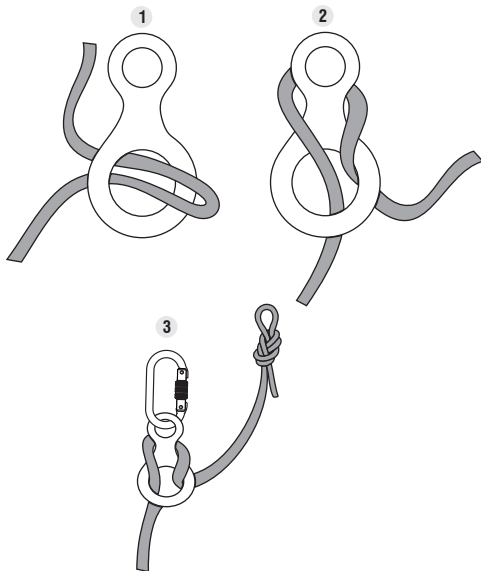
AFX208001



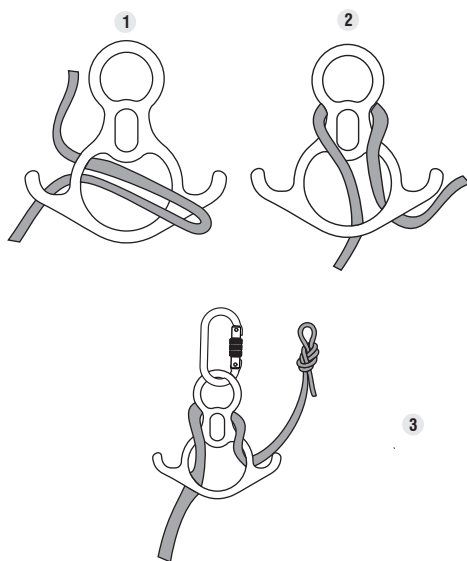
AFX208007



Installation on rope of AFX208001



Installation on rope AFX208007

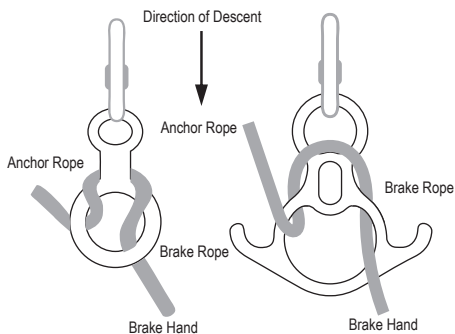


9.1 Single Wrap Configuration (Standard Descent)

- Step 1:** Hold the descender with the large opening facing upward and the attachment hole facing downward. Form a bight in the rope and pass it through the large opening.
- Step 2:** Pass the rope around the neck of the descender until it seats correctly.
- Step 3:** Attach an EN 362 locking connector through the attachment hole marked "Clip In". Ensure the gate is fully closed and locked.

Now Repeat for AFX208007

Single Wrap (Standard Descent)



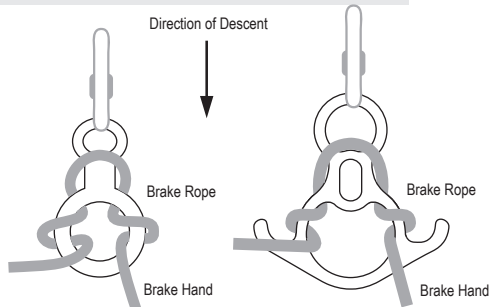
9.2 Double-Wrap Configuration (High Friction)

Use when additional friction is required including wet rope, small diameter rope, long descents, associated rope based rescue activities.

- Step 1:** Complete Steps 1 and 2 of the Single-Wrap Configuration.
- Step 2:** Pass the rope through the large opening a second time and wrap it around the neck to create a second wrap.
- Step 3:** Attach the EN 362 locking connector through the attachment hole marked "Clip In".

Now repeat for AFX208007

Double Wrap (High Friction)



Installation Verification

- Both wraps correctly positioned.
- Rope fully seated.
- Brake rope exits toward the brake hand.
- Connector locked.

9.3 Functional Load

Test Before every descent:

1. Maintain a firm grip on the brake rope.
2. Apply body weight gradually while maintaining full control of the brake rope to confirm the descender provides sufficient braking before committing to the descent.
3. Confirm smooth rope movement and effective braking.
4. If adequate control cannot be achieved, use the Double-Wrap Configuration.

Important Warnings

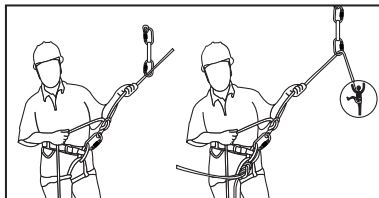
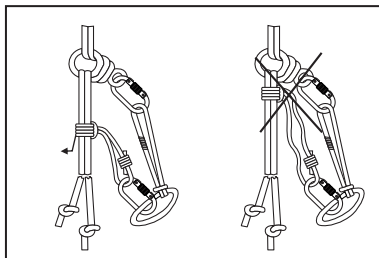
- Never attach a connector through the large opening. Always maintain control of the brake rope.
- Always secure the free end of the rope.
- Perform a functional load test before every descent.
- Never allow the brake rope to pass through the hands.
- The AFX208007 Rescue 8 side ears do not alter the installation procedure.

10. DESCENDING:

The Figure 8 & Rescue 8 Descender is intended for controlled descent operations using approved kernmantle ropes within the specified diameter range.

11. DOUBLE-ROPE DESCENT:

- When descending using a double rope system, install both the rope strands using the appropriate configuration as described in this manual.
- The user shall remain connected to the rope by means of a compatible backup device or friction hitch (such as a Prusik hitch), positioned above the descender.
- Ensure the backup device is positioned so that it cannot contact or interfere with the operation of the descender during use.
- Control the rate of descent at all times. Rapid or uncontrolled descents may generate excessive heat, and reducing braking performance.
- Always maintain a firm grip on the brake rope and never release the brake hand while descending.
- Before each descent, verify that:
 - The rope is correctly installed.
 - The connector is fully closed and locked.
 - The rope is correctly seated in the descender.
 - The backup device operates correctly.
- Descend in a smooth and controlled manner. Sudden acceleration, bouncing, or rapid lowering should be avoided.



12. ADDITIONAL INSTRUCTIONS FOR USE:

The Figure 8 & Rescue 8 Descender may also be used for controlled lowering, rope retrieval, or belaying applications where permitted by applicable work procedures, rescue procedures, and local regulations.

General Requirements

- The braking performance of the descender depends on:
 - Rope diameter
 - Rope construction
 - Rope condition (wet, dirty, icy, worn, etc.)
 - Applied load
- Always conduct a functional test before use, particularly when using a different rope type, new rope, smaller diameter rope, or rope with a low-friction sheath.
- Never rely solely on the descender to stop a fall. The device is not a fall arrest device.
- Never attempt to belay or lower two ropes simultaneously through a single descender unless specifically described within this manual. Incorrect rope installation may prevent adequate braking.
- During rescue or hauling operations, use appropriate extension connectors or rigging arrangements where required to maintain correct rope alignment and safe operation.
- Always ensure the free end of the rope is secured with a stopper knot or other suitable method to prevent the rope accidentally passing completely through the descender.
- During lowering or belaying operations, keep the brake hand below the descender at all times and maintain continuous control of the rope.
- Before every use, confirm there is sufficient rope available to complete the intended descent safely.

13. WARNING:

- Never use the descenders in any orientation other than that shown in the this manual.
- Never remove your brake hand from the rope during operation.
- Never release the brake rope. Always maintain control at all times.
- Never connect to any point other than the designated attachment hole.
- Never exceed the maximum rated user capacity specified for the device.
- Do not use damaged, contaminated, chemically exposed, or incompatible ropes.
- If there is any doubt regarding the correct installation or operation of the descender, remove the equipment from service until it has been inspected by a competent person.

14. LIMITATIONS OF USE:

The Figure 8 Descenders shall only be used within the limits specified in this User Instruction Manual.

- This equipment should be assigned to an individual user wherever practical to ensure traceability, inspection history, and familiarity with its condition.
- The device shall only be used by persons who have received appropriate training and are competent in work at height, rope access, rescue, or other intended applications.
- This product shall only be used for its intended purpose and in accordance with the instructions contained in this manual.
- Do not use the descender for lifting materials, towing loads, or any application for which it has not been designed or certified.
- The device shall only be used with compatible equipment that meets the relevant applicable standards.
- Any modification, repair, or alteration not authorised by KStrong is prohibited and may compromise the performance and safety of the equipment.
- Remove the equipment from service immediately if there is any doubt regarding its condition, inspection status, or safe operation.

15. RESCUE PLAN:

Rescue operation must be performed by the trained and competent personnel. The rescue operation must be performed under the supervision of the rescue expert team or personal. It is advised that while working on site work in pairs. Before going for the work the user must have the rescue plan according to the work.

16. CLEANING, MAINTENANCE AND STORAGE:

Proper care and maintenance are essential to ensure the continued safe performance of the equipment.

Cleaning & Drying

- Clean the descender using clean water and, if necessary, a mild pH-neutral soap.
- Do not use bleach, solvents, abrasive cleaners, degreasers, or other aggressive chemicals, as these may damage the equipment.
- After cleaning, rinse thoroughly to remove any soap residue.
- Allow the equipment to dry naturally in a clean, well-ventilated area.
- Keep the equipment away from direct sunlight, open flames, heaters, radiators, or other artificial heat sources during drying.
- Do not use mechanical drying equipment.
- Protect the equipment from impact, sharp edges, contaminants, excessive moisture, and chemical exposure during transportation.
- Where possible, transport the descender in a suitable protective storage bag or container.

Storage

Store the equipment:

- In a clean, dry, well-ventilated location.
- Away from direct sunlight and ultraviolet exposure.
- Away from corrosive substances, chemicals, oils, acids, alkalis, and salt contamination.
- Away from excessive heat, humidity, or freezing conditions.
- In a manner that prevents mechanical damage or contact with sharp objects.

Before each use, inspect the equipment to ensure it remains clean, undamaged, and suitable for service.

17. WARNING: Failure to follow these instructions may result in serious injury or death.

- Read and understand this User Instruction Manual before using the equipment.
- Always perform a pre-use inspection before each use.
- Never use equipment that is damaged, worn, modified, or has failed inspection.
- Always verify that the rope is correctly installed before loading the descender.
- Always maintain control of the brake rope during descent or lowering operations.
- Never release the brake hand while the descender is loaded.
- Ensure all system components are compatible and comply with the applicable standards.
- Use only approved ropes within the specified diameter and construction requirements.
- Always provide a suitable backup system where required by your work method or applicable regulations.
- Protect ropes and equipment from sharp edges, abrasive surfaces, heat sources, molten metal, electrical hazards, and chemical contamination.
- Ensure sufficient clearance exists below the user before commencing any descent.
- Do not exceed the maximum rated user capacity specified for this product.
- If the equipment has been subjected to a fall, shock load, or abnormal loading, remove it from service immediately and have it inspected by a competent person before reuse.
- Users are responsible for ensuring that the equipment is suitable for the intended application and is used in accordance with applicable legislation, standards, and safe work procedures.
- KStrong accepts no responsibility for injury, damage, or loss resulting from misuse, unauthorised modification, improper maintenance, or use outside the limitations specified in this manual.

LABELLING



AFX208001



50 kN



AFX208007

Maximum Rated User Weight: 140 kg

Kernmantle Rope: Ø 9mm to 11mm

18. WARRANTY:

All KStrong products are manufactured under strict quality control and tested in accordance with relevant international standards to ensure reliability, durability, and user safety.

KStrong warrants that its products are free from manufacturing defects in material and workmanship for a period of two (2) years from the date of purchase, unless otherwise specified. This warranty applies under normal conditions of use, storage and maintenance as described in the User Instruction Manual (UIM).

Warranty Conditions - This warranty is valid only when:

- The product has been used strictly in accordance with manufacturer guidelines and safety instructions.
- The product has been installed, maintained and inspected by trained and competent personnel.
- The product has not been altered, modified or repaired by any unauthorized party.
- The product has not been exposed to misuse, negligence or abnormal conditions (e.g., chemical contamination, fire, impact or excessive loading).
- The product is registered with KStrong at the time of purchase or installation, where applicable.

Exclusions - This warranty does not cover:

- Abnormal wear and tear resulting from irregular use.
- Damage due to improper installation, storage or maintenance.
- Products that have been subjected to a fall arrest or load event.
- Unauthorized modifications or repairs.
- Consequential or incidental damages arising from product failure.

Once a product has been involved in a fall or impact, it must be removed from service and inspected by an authorized KStrong representative before any decision regarding reuse or replacement is made.

Warranty Claims - To make a warranty claim:

- The client must notify KStrong or the authorized distributor in writing, providing full details of the issue, including proof of purchase, serial number and system identification.
- The product must be returned to KStrong or its designated service centre for inspection and evaluation.
- If the defect is confirmed to be due to manufacturing defects, KStrong will, at its sole discretion, repair or replace the product free of charge.

KStrong reserves the right to determine the validity of all warranty claims and its decision shall be considered final and binding.

Disclaimer

This warranty is in addition to, and does not affect the consumer's statutory rights under applicable local laws.

KStrong liability under this warranty is limited strictly to the repair or replacement of the defective product and does not extend to any indirect, incidental or consequential damages.

DISCLAIMER: Prior to use, the end user must read and understand the manufacturer's instructions supplied with this product at the time of shipment and seek training from their employer's trained personnel on its proper use. Users are required to complete and record the pre-use inspection as outlined in this UIM. Failure to follow these inspection and usage requirements significantly increases the user's liability exposure, as improper or undocumented use may not be supported during an incident investigation and could affect warranty or service outcomes. The manufacturer is not liable or responsible for any loss, damage, or injury caused or incurred by any person due to improper usage or installation of this product.

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PERIODIC EXAMINATION AND REPAIR HISTORY				
Date	Reason for entry (periodic examination or repair)	Defects noted, repair carried out and other relevant information	Name and signature of competent user	Periodic examination next due date

*Updates to the UIM are part of our regular revision cycle to keep the manual current and aligned with evolving best practices. While the UIM has always been compliant with the equipment’s intended design and safety requirements, periodic updates are important to ensure continued clarity, accuracy and optimal user guidance.

Certification Body :
SATRA Technology Europe Ltd, Bracetown Business Park, Clonee, Dublin D15 YN2P Ireland (Notified Body 2777)

For EU Declaration, please visit <https://kstrong.com/asia/eu-declaration-form/>



KStrong Asia Pte Ltd
12-05 OG Albert Street, Complex AT Singapore 189969
Contact Email: customercare@kstrongasia.com

www.kstrong.com