



SSB 01

User Manual

SECURING SYSTEM SAFE LINK SSB 01

Self-securing system

Subject to technical changes

BRIEF DESCRIPTION

INTENDED USE

The securing system SSB in combination with a body harness that complies with EN 361 or a climbing harness that complies with EN 12277 serve exclusively to protect instructed persons from falling when using the climbing course in commercial and supervised adventure parks or experience-based educational high-rope parks. It is always used in conjunction with suitable sling points: A horizontal or slightly inclined taut textile rope or wire cable. This taut cable and its attachment must be planned and installed correctly and professionally by a qualified person.

If the taut cable or the anchor elements are not strong enough, there is a very high risk of life-threatening injuries.

Parts that are clearly marked as reliable sling points (taut cables, sling rings etc.) must be equipped with a mechanical identification point „TWEEZLE“.

The continuous securing system SSB allows the SSB hook to be attached at these points without compromising safety!

All other uses are deemed improper. The company BORNACK will not be liable for any resulting damage. The user bears the sole risk.

EQUIPMENT

- Safety karabiner hooks SSB (2 pcs), forged from a special high-strength patented aluminium alloy with
 - Self-locking snapper with Key-Lock
 - Wear protection to prevent premature wear
 - Self-locking securing strike plate
 - Holding pins for cowtail safety lines
- Securing mechanism SSB, high-quality CNC milled parts made of stainless steel comprising:
 - SSB sleeve
 - Control piston
 - O-ring to keep dust and damp out of the mechanical elements
 - SSB sleeve head with shape template (to differentiate between different courses)
 - Securing pin to block the strike plate to prevent unauthorised unlocking of the snapper
 - Holder and attachment for the Bowden cable
 - Bowden cable as control element between the two SSB hooks

RIEF DESCRIPTION

- Y-safety lines SSB (cow-tail), comprising:
 - High-strength Dyneema webbing 15.0 mm with sewn end connections (loops)
 - X3-blades in forged aluminium with permanently sewn cowtails and anchor D-ring for lanyards to the full body harness
 - Textile protective hose to prevent wear and to hold the Dyneema webbing and Bowden cable
 - Optional: Safety line loop made of 30.0 mm webbing for looping into the anchor knot in the rigging D-rings and then into the sling hooks of the full body harness

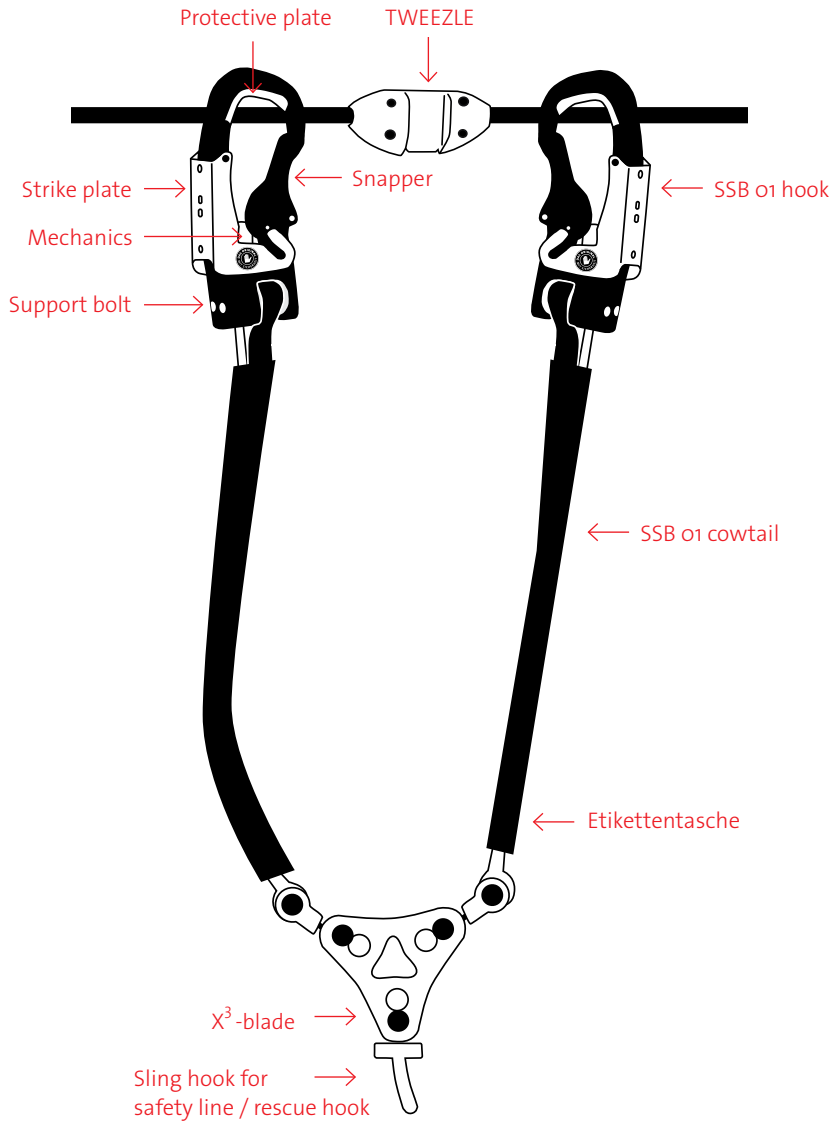
USE

- Securing when climbing on a climbing course
- In horizontal passages with securing taut cables
- In vertical ladders with height securing devices etc. with TWEEZLE 9 (SSB as redundancy).
- In combination with rollers in rope slides with TWEEZLE 8

ACCESSORIES

- Ident points TWEEZLE
- TWEEZLE for clamping onto horizontal securing ropes 10 / 12 mm
- TWEEZLE-8 for swing or base jumps, etc.
- TWEEZEL-9 for height securing devices on ladders
- TWEEZEL-rescue for park supervisors for rescue and evacuation purposes

SSB 01



INFORMATION BEFORE USE



Always carry out a visual and functional test before use!

- If any faults, however minor, are detected during inspection, the equipment may not be used.
- All faults must be tested and repaired in a workshop authorised by the company BORNACK.

VISUAL INSPECTION

- Check the securing system SSB is complete and fully functional: SSB hooks, SSB mechanism, SSB cowtail etc.
- Metal parts are not deformed, cracked, corroded or worn, especially as a result of friction on the taut cables.
- All screw and rivet connections are tight; rivet heads are not worn.
- All textile parts (apart from the protective hose) are not damaged (cuts, wear etc.) and the seams are complete and undamaged.
- The strike plate is not deformed and secures (blocks) the snapper so that it cannot open.
- The SSB system is attached securely and correctly to the safety belt (looped in).

FUNCTION TEST

- All moving parts of the SSB hook move freely.
- Self-locking functions when the snapper is released.
- The strike plate locks the snapper to prevent it opening unintentionally.
- When feeding the SSB hooks into the ident mark TWEEZLE, the Bowden cable unlocks the second hook (and vice versa). The hook locks into position.
- Under no circumstances may both hooks be unlocked at the same time!

USING THE SECURING SYSTEM SSB

PREPARATION

- Read the user manual and pay attention to the briefing provided by the supervisor
- Familiarise yourself with the mechanism for locking and unlocking the SSB hook.
- Check before use that the mechanism mutually locks through the Bowden cable.
- Ask the supervisor for permission to use the equipment!
- Do not use dubious SSB systems and / or taut cables etc.!

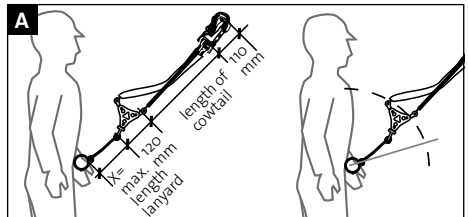
TIE THE SAFETY LINES TO THE ANCHOR KNOT

A Select a suitable length for the safety line depending on body height. Keep slack rope as short as possible.

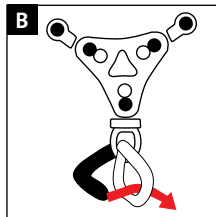
CAUTION !



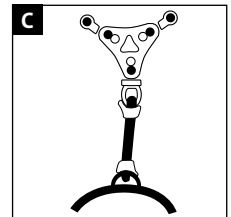
If the safety line is too long, there is a risk of injury or strangulation. To rule out the risk of strangulation, a single cowtail, with longitudinal stitching, is recommended from a length of more than 50.0 cm.



B Thread the belt loop through the sling hook of on the SSB.



C Thread the other end of the belt through the created loop and pull tight.

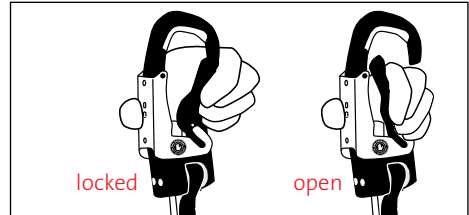


Now repeat steps B and C on the hooks on the belt.

USING THE SECURING SYSTEM SSB

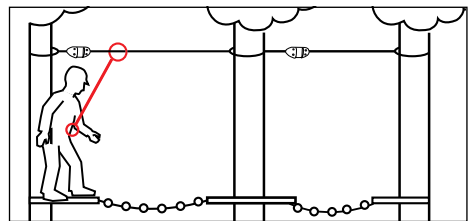
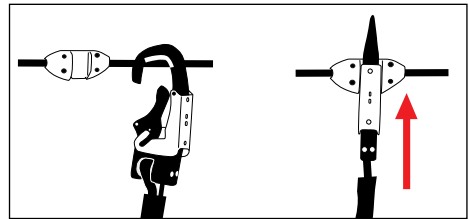
OPENING THE SSB HOOK

- Pick up the SSB hook so that strike plate lies on the palm of the hand and the hook snapper can be operated with your index finger.
- Press the strike plate with the ball of your hand
 - hook snapper is released
 - press the hook snapper back with your finger
 - open hook
- Place or remove the open hook on or from the taut cable.



LOCK THE SSB HOOK USING THE TWEEZLE

- Slide the SSB hook that is on the taut cable over the TWEEZLE
- Feed the SSB hook into the TWEEZLE centring
- Press the SSB hook forcefully upwards into the centring and pull out again > the SSB mechanism activates Bowden cable.
 - the SSB hook locks automatically and can no longer be removed from the taut cable
 - the other SSB hook unlocks and can be repositioned.



To use the SSB system, the entire course needs to be equipped with Tweezle ident marks at all switch points.

CAUTION



- 1 SSB hook must always be hooked on
- Do not twist or cross SSB cowtails
- Release twists and kinks regularly

USING THE SECURING SYSTEM SSB

BRIEF INSPECTION

- SSB lock functions (only one hook can be opened at a time!).
- SSB-securing system is attached securely to the belt.
- Place the „non-secured“ SSB hook onto the taut cable.
- Press the TWEEZLE: unlock the other SSB hook.

ERRORS AND MALFUNCTIONS

Both hooks are closed

Reason:

The SSB hook was not completely inserted into TWEEZLE.

Remedy:

Repeat TWEEZLE process.

Ensure that it is inserted up to the stopper and the mechanics audibly clicks on the 2nd hook.

Both hooks are closed

Reason:

Bowden cable is faulty.

Remedy:

Replace the Bowden cable or strand.

Strike plate is stuck

Reason:

Dirt below the plate or the plate is bent.

Remedy:

Clean the strike plate or replace.

Snapper is stuck

Reason:

Dry joint without lubrication.

Remedy:

Apply oil to the snapper axis and snapper. Activate several times until it moves freely again.

Very twisted cowtails

Reason:

Bowden cable sleeve does not turn freely in the hook.

Remedy:

Oil the Bowden cable inlet into the hook body. Ensure that the cowtail is not soiled by the oil, as this will shorten its service life.

SAFETY INSTRUCTIONS

There is a risk of life-threatening injuries if the safety instructions are not observed.

- If even the slightest of faults is detected during the inspection, the device may not be used.
- Damaged, fall-stressed, dubious personal protective equipment or safety devices must be immediately withdrawn and not used. The equipment may only be inspected by an expert or the manufacturer.
- No independent changes or repairs may be carried out.
- The full body harness and the securing system are part of the personal protective equipment and should be assigned to a specific person.
- The protective and safety systems may only be used by persons who are familiar with the material and have been briefed about the possible risks associated with its use.
- Only use under supervision after being briefed directly before use.
- Accessories from other manufacturers may only be used if approved by BORNACK and may not impair the function and safety of the protective equipment.
- Clothing and shoes must be suitable for the task at hand and the weather conditions.
- Adjust the full body harness to your personal dimensions (take clothing into account).
- Only use if you are fully fit.
- The securing system SSB can only be used in full in combination with slinging equipment (taut cable or sling points). The sling equipment must be suitable for this in terms of load-bearing capability and arrangement (height of rope).
- In the case of arresting systems, it is important for safety to ensure every time before use that the required clearance below the user is adequately measured so that in case of a fall, the user cannot land on a protruding obstacle or the ground.
- Possible fall path if all required protection equipment components are used correctly: length of the safety line (cow-tail) + deflection of taut cable (under load) + braking path of possible arresters (max. 175.0 cm) + body height + safety reserve 1.0 m = possible fall path.
- Protect the protective equipment and safety devices from the effects of welding flames and sparks, acids, alkalis, sharp edges etc.
- The guidelines issued by the professional associations BGR 198 and BGR 199 and the national / local safety guidelines and the accident prevention guidelines for the specific industry must be observed.
- Trees used as supporting elements are „moving bodies“ and can lead to premature wear near the cable guides or, in some cases, exert extreme loads on the taut cable via the end points of the cable. Additional checks after storms etc.
- A responsible person must draw up an emergency plan (rescue plan) stating how a person who has fallen in the rope protection system can be rescued from his suspended position safely and quickly and how first aid can be administered. (This type of rescue must be effected within 10 to 30 minutes.) BORNACK can help you draw up tailor-made rescue plans in specific training courses.

OTHER

APPROVAL

Complies with the EC Directive 89/686/EEC
Product certification „Lanyards“ EN 354

Type testing and production control by:
TÜV Süd Product Service
Ridlerstr. 65, 80339 Munich
CE 0123

Quality testing
Quality assurance by the manufacturer.
Production monitoring by a certified office
(Cat. III)

SALES

If the goods are marketed in countries where German is not spoken, the dealer must ensure that user manuals in the respective national language are enclosed with deliveries. The respective translation must be authorised by BORNACK.

SERVICE

If you have any questions about the safe use of this personal protective equipment or other services provided by BORNACK, such as

- risk analysis
- rescue plans
- training
- expertise tests

Please contact our E-mail hotline:
hotline@bornack.de

We will be happy to help!

REGULAR INSPECTIONS

- Carry out a visual and functional test every time before use.
- Sling equipment, harnesses and lanyards must be inspected regularly, however at least once a year, by an expert and the results of the inspection must be entered into the test card. Experts are authorised by BORNACK by means of a specific training course.
- Greater levels of wear can be expected. The test cycles must be adapted accordingly.

CAUTION:



PPE and securing systems used in climbing parks are subject to extremely high usage frequencies.

CLEANING

- Dry damp harnesses and taut cables in the air, not on artificial heat sources.
- Brush soiled textile components carefully or clean with lukewarm water and a little detergent for delicates, rinse with clean water.
- No other cleaning agents may be used because they may damage the material!
- Protective equipment and securing systems that are well looked after will last longer.

OTHER

LIFE SPAN

- Maximum storage period of straps, slings and cowtails before using for the first time: up to 3 years
- Maximum usage period of straps, slings and cowtails after being used for the first time: up to 10 years

Storage period (before first use):

- Correct storage is: dry, protected from direct sunlight. As airy as possible, room temperature approx. +20°C, protected against damaging influences such as chemicals.
- The BORNACK climate packaging is easy to control and protects against damaging influences (sealed).

Usage period:

- The stated maximum storage period is reduced by damaging influences such as temperatures, mechanical loads, regular or intensive use, fall loads, damage caused by wear, cuts, chemicals, melting caused by high temperatures etc. These influences can reduce the usage period to varying degrees depending on the intensity, length of exposure or a combination of different influences, which may occur during use, storage or transportation. The decision is taken by the expert with technical expertise.
- Intensive use and / or extreme usage conditions, such as sharp edges, chemical influences etc., can reduce the usage period for reasons of safety. The company owner must take this into consideration in the risk analysis.

- The company owner must ensure compliance with the maximum usage period by documenting first-time use in the test card or the rope log.
- The test card at the end of this user manual must be presented during the regular expert inspections and must be completed by the expert.
- For more information, please see the BORNACK brochure „Life-span of textile personal protection equipment components“ at www.bornack.de.

REPAIRS

- Only the manufacturer may carry out repairs.
- Only original parts from the manufacturer may be used.

STORAGE

- Dry damp securing equipment before storing.
- Store away from light in a dry place.
- Do not store personal protection equipment close to radiators.
- Permanent temperatures of over +50 °C have a negative impact on the strength of the textile material and will reduce the life-span.
- Do not allow personal protection equipment to come into contact with aggressive substances (e.g. oils, grease, acids, or other chemicals).
- Store the personal protection equipment in the device case or bag.

TRANSPORT

- Transport the personal protection equipment protected in a device case or bag.

OTHER

PRODUCT IDENTIFICATION

This fall protection equipment bears the following information:

<p>Product name →</p> <p>Product type →</p> <p>Product model →</p> <p>Size →</p> <p>Article no. →</p> <p>Series no. →</p> <p>Charge / yr. of prod. →</p> <p>Useful load →</p>	<p>SAFE LINK SSB</p> <p>Selbstsicherungsgerät</p> <p>Typ: SSB 01</p> <p>Size: L</p> <p>Art. Nr. 791 003</p> <p>SN: 001</p> <p>Charge: 14-1234567</p> <p>Max. Pers.: 1 Pers.</p> <p style="text-align: right;">EN 354</p> <p style="text-align: center; font-size: 2em;">CE 0123</p>	<p>← Logo</p> <p>← Contact</p> <p>← Read / observe user manual</p> <p>← EN standard</p> <p>← CE symbol</p>
	 <p>↑ QR Code</p>	

TEST CARD

FOR ANNUAL MONITORING

The test card must be completed in full by the expert during the annual inspection.

Type Product name: _____

Manufactured on: _____

This test card does not claim to cover all test criteria and does not relieve the expert from his decision about the overall condition.

Serial no.: _____

Purchase date: _____

Date of first use: _____

	Date	Signature	Next inspection	Reason for inspection
Year 1				
Year 2				
Year 3				
Year 4				
Year 5				
Year 6				
Year 7				
Year 8				
Year 9				
Year 10				



FALLSTOP

Equipment for securing and rescuing at heights and depths

SAFEPOINT

Stationary securing systems for architecture and industrial applications

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