

TRANGO®

EXTRAORDINARY CLIMBING GEAR®

BigBro™ Expandable Tube Chock

How to Enjoy Off-Widths with BigBros™

BEFORE USING:

Thoroughly read and understand these instructions.

Sling the BigBro with 75cm (30") of 5.5mm Tech Cord. The knot should be tied on the side of the BigBro directly opposite the trigger.

TO PLACE:

Carry the BigBro in its compressed position. Make sure the collar can rotate freely.

Place the BigBro in a crack or pocket, press the end of the inner tube flush against the rock and push the trigger button.

Let the BigBro expand slowly to the exact crack width. The best placement will be when both faces are flush against the rock and the end of the inner tube is lower than the the outer tube.

SPIN THE LOCKING COLLAR TIGHT AGAINST THE OUTER TUBE TO LOCK THE BIGBRO IN PLACE.

Test the stability of the placement by tugging firmly on the BigBro sling in all potential directions of pull.

TO REMOVE:

Spin the collar to the outside end of the inner tube.

Collapse the BigBro until the trigger catches.

IMPORTANT:

Always allow the BigBro to expand slowly. Press the inner tube against the rock or other surface before pushing the trigger.

FOR UNMATCHED STABILITY:

Find the most parallel placement available to achieve full contact between both tube ends and the rock.

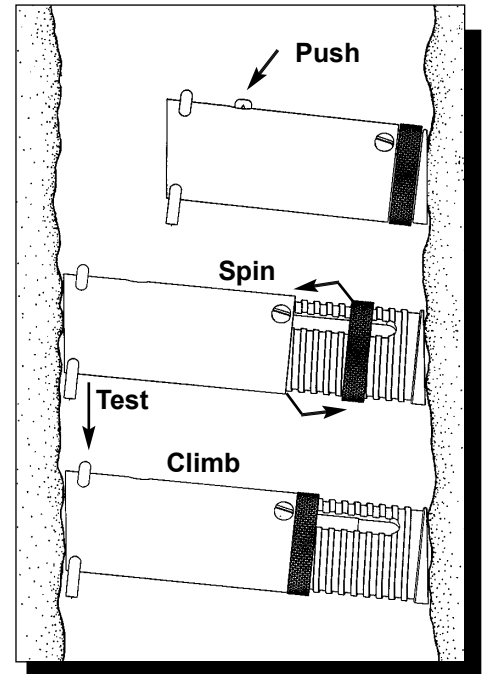
Tighten the collar securely to lock the BigBro in place.

When possible place the threaded end of the inner tube on the right side of the crack so the moving rope tends to tighten the collar as you move up.

FOR NON-PARALLEL PLACEMENTS:

Try to locate the end of the inner tube on a small bulge or other irregularity. Make sure the end of the outer tube is in full contact with the rock. At the minimum, try to achieve a tripod effect with the outer tube of the BigBro in full contact with the rock and the inner tube contacting at one point.

As with all climbing protection stability becomes more difficult to attain as the flare angle of the crack increases. BigBros do not work well in radically flaring cracks.



IMPORTANT!!!

This product is designed for climbing and mountaineering only. Climbing, and any other activity for which this product may be used, is inherently dangerous. It is the user's responsibility to understand and follow all instructions for proper use.

FOR LONG LIFE:

Never push the trigger when there is no resistance against the inner tube. The explosive release of the inner tube could injure someone and will eventually damage the BigBro.

Practice placing BigBros and testing their stability extensively on the ground before relying on them in a climbing situation.

Do not forget to tighten the collar and test for stability before clipping the rope to a BigBro.

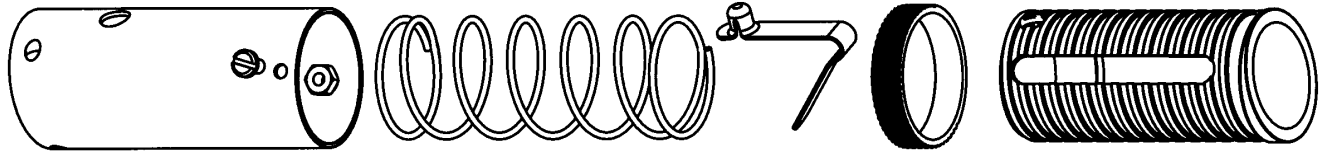
Always carry and store the BigBro in the compressed position to protect the threads.

Keep your BigBros out of the dirt whenever possible.

IF YOUR BIGBRO BECOMES SLUGGISH:

Wash them in warm soapy water. Lubricate them with Elmer's "Slide-All" dry teflon lubricant. Never use an oil-based lubricant or WD-40.

After extensive use the aluminum may become galled, resulting in sluggish BigBro action. If cleaning does not improve the performance disassemble the BigBro and sand (use 600 grit emery paper) the rough or worn areas on the threads and inside the outer tube. Wash them and lube with Elmer's "Slide-All".



Outer Tube

Spring

Trigger

Collar

Inner Tube

TO DISASSEMBLE

Collapse the BigBro and make sure the trigger is fully engaged. Remove the guide bolt with a screwdriver.

CAUTION—THE BIGBRO IS NOW A LOADED WEAPON WITH NO SAFETY. THE INNER TUBE IS A DANGEROUS PROJECTILE WHEN THE GUIDE BOLT IS REMOVED.

With your hands holding the ends of the BigBro together, carefully push the trigger.

Allow the BigBro to expand and pull the inner tube and spring out of the outer tube.

TO ASSEMBLE

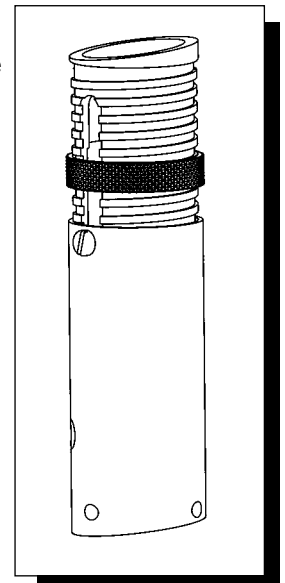
Put the spring in the outer tube and compress the inner tube until the trigger catches.

Place the guide nut in the slot and screw the guide bolt into it through the guide hole.

Tighten it securely.

Turn the bolt in the reverse direction to align the nut parallel to the slot. Check to see that the inner tube slides freely.

SIZE	RANGE	WEIGHT
#.5	2.7" - 3.4"	4.7 oz.
#1	3.2" - 4.3"	6.2 oz.
#2	4.0" - 5.7"	7.2 oz.
#3	5.3" - 8.0"	9.3 oz.
#4	7.5" - 12.0"	12.3 oz.
#5	11.3" - 18.4"	20.4 oz.



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