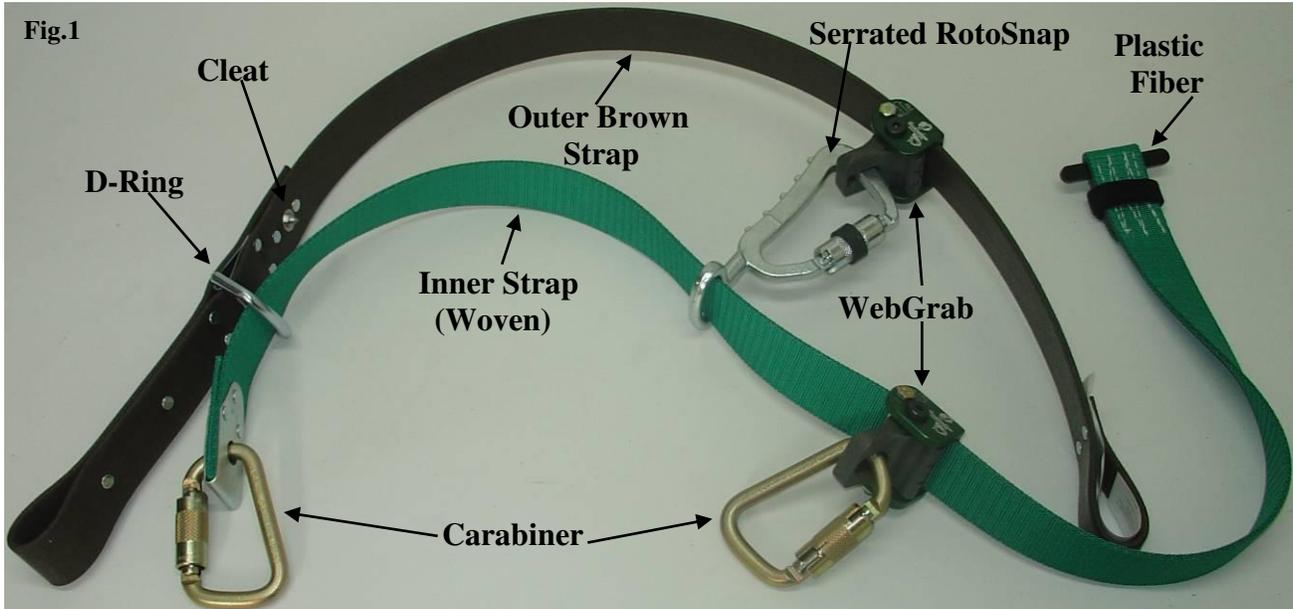


# BUCKINGHAM MFG.

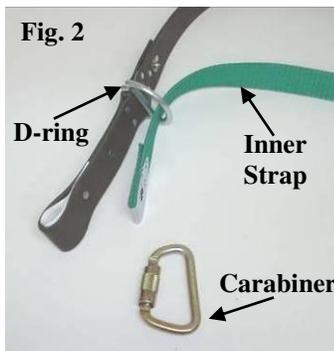
## 488 SERIES OUTER BROWN STRAP REPLACEMENT INSTRUCTIONS

(Note: This Outer Brown Strap must only be used with the SuperSqueeze Assembly)

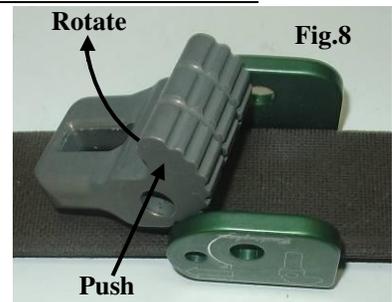
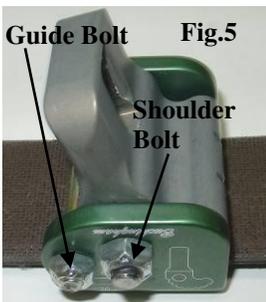
### A. TO REMOVE THE INNER STRAP WITH CARABINERS FROM THE OUTER BROWN STRAP:



1. Figure 1 shows an overall view of the SuperSqueeze with Carabiners (Note: The Plastic Fiber may, or may not, be present on the end of the Inner Strap).
2. Remove the Locking Carabiner from the Inner Strap (Fig.2).
3. Slide the Inner Strap out from the D-ring (Fig.3).
4. Remove the Serrated RotoSnap from the WebGrab on the Outer Brown Strap (Fig. 4).

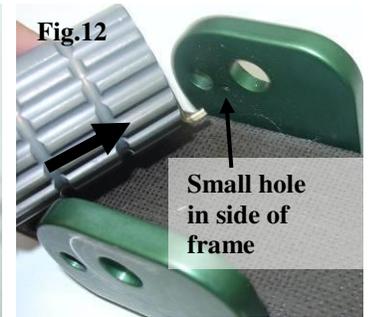


5. The Outer Brown Strap should now be completely separated from the Inner Strap.
6. The WebGrab on the Outer Brown Strap (Fig.5) will now need to be disassembled.
  - a. Remove the Guide Bolt using two 7/16" wrenches, or similar tools (Fig.6). Discard the removed nut.

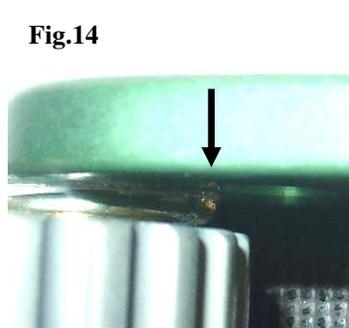


- b. Next, remove the Shoulder Bolt using a 3/16" Allen wrench and a 1/2" wrench (Fig.7). Note: This bolt has thread locker on it when it is installed. The Allen wrench may have to be placed into a vise to assist in removing the nut. Discard the removed nut.

- c. The cam is being held in place by the return spring and the frame. To remove the cam, push on the edge and rotate the cam outward as shown in Figure 8. Be careful not to lose the spring upon removal (Fig.9).
- d. The WebGrab frame can now be removed from the used Outer Brown Strap (Fig.10).
7. Now the New Outer Brown Strap can be replaced and the WebGrab can be re-assembled.
  - a. Place the new Outer Brown Strap onto the WebGrab frame with the Cleat and D-Ring facing upwards and the arrow on the WebGrab frame pointing towards them (Fig.9).
  - b. Place the spring into the cam (Fig.11).
  - c. Align the cam and spring to install the spring tab into the small hole in the frame according to the diagram on the base (Fig.12). The small spring tab should start into the hole. Next, you need to compress the spring slightly by pushing on the side and rotating inward towards the base ears (opposite rotation as in Fig.8).



- d. The cam should now “lay” inside the frame (Fig.13).
- e. **Ensure** that the spring tab is **FULLY** inserted into the small hole in the side of the frame (Fig.14)
- f. Align the hole in the cam with the holes in the frame and insert the shoulder bolt through the frame (from the spring side) and cam (cam lever must be aligned as shown in the sketch on the side of the frame) (Fig.15).
- g. Insert the Guide Bolt through both sides of the frame as shown in Figure 16.

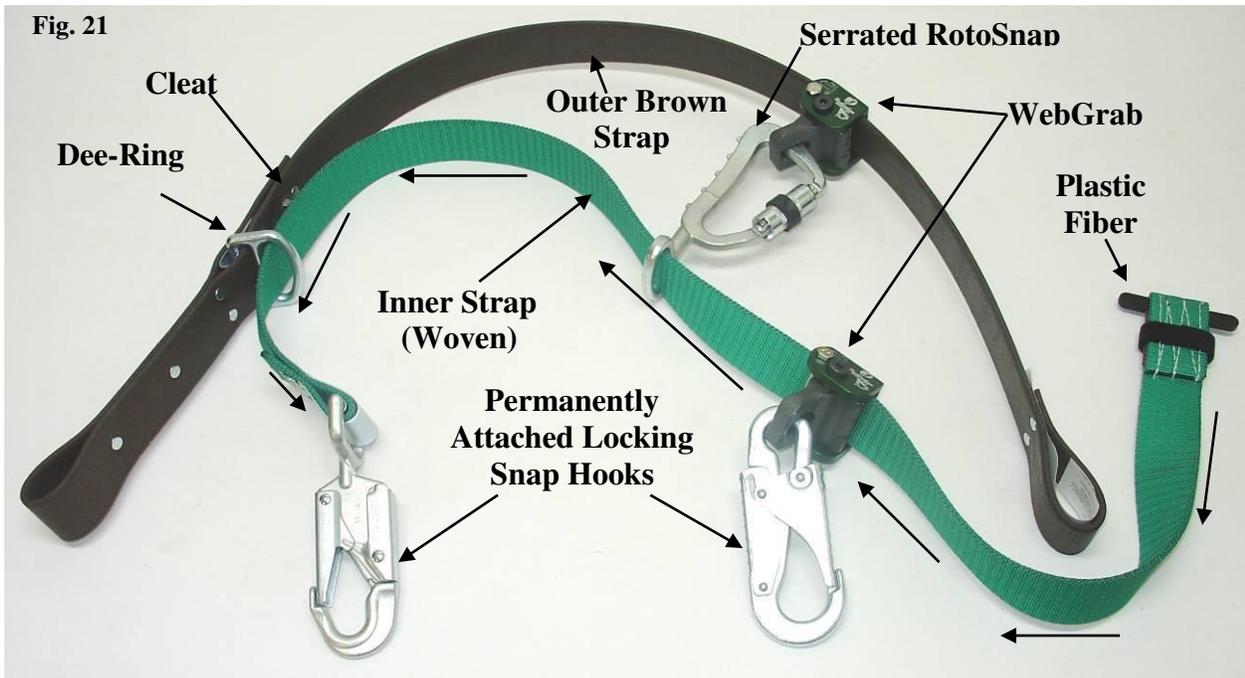


- h. Apply a small amount of Blue Loctite 242™ Removable Blue thread locker to the Shoulder Bolt and Guide Bolt threads (Fig.17 & 18) protruding from the frame.
- i. Install the two **NEW** nuts onto the threaded bolts (Fig19). The Shoulder Bolt nut should be tightened until the threads come in contact with the shoulder of the bolt. The Guide Bolt nut should be installed as far as possible, **but not tightened**, such that the Guide Bolt and nut **FREELY ROTATE** while installed into the cam frame. Both bolts should be able to be rotated by hand (Fig.20). Test that the WebGrab cam rotates **FREELY**, and has sufficient spring tension to bring the cam back into contact with the outer strap. Allow 24 hours for the thread locker to dry.
- j. The WebGrab should now be fully assembled onto the new Outer Brown Strap.

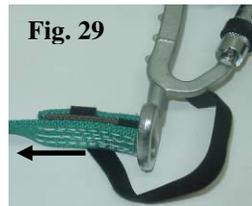
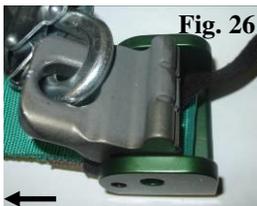
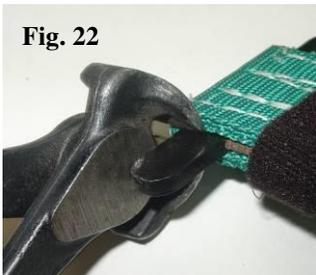


8. The Serrated RotoSnap can now be reattached onto the Outer Brown Strap WebGrab Eye (Fig.4).
9. Re-insert the Inner Strap end through the D-ring and reconnect the Carabiner (Fig. 2 & 3).
10. The completed assembly should now look like Figure 1 above. Ensure there are no twists in the Inner Strap.

**B. TO REMOVE THE INNER STRAP WITH SNAP HOOKS FROM THE OUTER BROWN STRAP:**

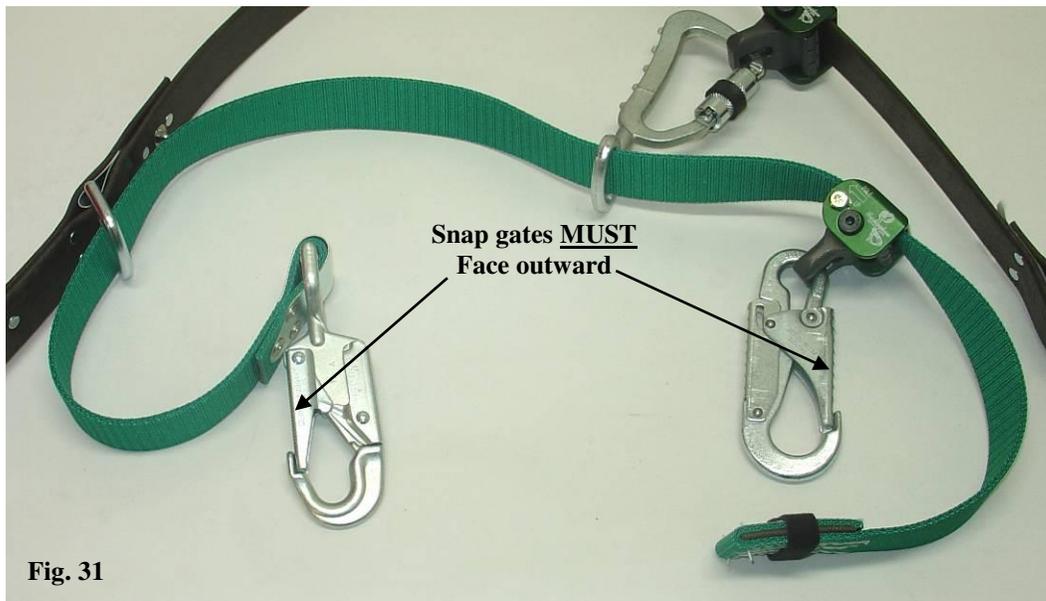


1. Remove the Serrated RotoSnap from the WebGrab on the Outer Brown Strap (Fig.4).
2. **IF** a Plastic Fiber is included, it will be required to cut the tabs off on each side using cutters (Fig.22 & 23).
3. The WebGrab on the Inner Green Strap will now have to be partially disassembled.
  - a. Remove the nut from the Guide Bolt by using two 7/16" wrenches. Then remove the nut from the Shoulder Bolt by using a 3/16" Allen wrench and a 1/2" wrench. The Shoulder Bolt has thread locker on it when it is installed. Therefore, it may be necessary to place the Allen wrench in a vise to assist in removing the nut. Discard both removed nuts. (Fig.24)
  - b. Remove the two bolts. Note: It is not necessary to remove the cam from the frame to remove the woven material.
  - c. Unwrap the hook & loop strap retainer from the fold over end of the Inner Strap.
  - d. Pull the Inner Strap through the WebGrab. The cam may be rotated upwards slightly to assist in removing the Inner Strap. (Fig.25-27)



- e. Next, pull the Inner Strap through the Serrated RotoSnap eye (Fig.28 & 29).
  - f. Finally, pull the Inner Strap through the D-Ring (Fig.30).
4. The Inner Strap should now be completely separated from the Outer Brown Strap.
  5. Replace the Outer Brown Strap by following the instructions A.6. through A.8. above.
  6. Reinstall the Inner Strap by reversing step B.3.f above, and proceed to B.3.d (start at Fig.30 and work backwards to Fig.25--Slide Inner Strap-fold over end-through the D-Ring, the Serrated RotoSnap eye, and then the WebGrab).

7. Ensure the Inner Strap is oriented correctly, without any twists. The snap hook gates **MUST** face outward. Ensure the WebGrab is oriented correctly with the arrow on the frame facing the permanently attached snap hook end of the Inner Strap (Fig.31).
8. The Inner Strap WebGrab can be reassembled by following the instructions above beginning at A.7.e. through A.7.i.
9. Connect the Serrated RotoSnap to the WebGrab on the Outer Brown Strap.
10. The final assembly should be as shown in Figure 31.



**It is imperative that a trial test while standing on the ground be performed to ensure the SuperSqueeze is functioning properly prior to climbing.**

**Patent Pending**

**BUCKINGHAM MFG. CO.  
BINGHAMTON, NY  
www.buckinghammfg.com  
1-800-937-2825  
Web site – www.buckinghammfg.com**

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