

# BUCKINGHAM MFG.

PN 400KIT - Series

Wood Pole Fall Restriction Kits

INSTRUCTIONS / WARNINGS

Warning: Do not use this product if you cannot understand and follow the instructions and warnings that come with it and complete all necessary functions.

Buckingham Mfg. has designed, tested, and assembled Wood Pole Fall Restriction Kits for 400 lb. users that include a Wood Pole Fall Restriction Devices (either BuckSqueeze, SuperSqueeze or EZSqueeze) that squeeze the pole in the event of a cutout or slip while ascending or descending a pole. Fall distance may vary based upon adjustment, pole condition and the environment in which this product is being used. When adjusted and used in accordance with the Instructions outlined below, fall distance will not exceed that permitted for the Type 'A' unit as defined by the ASTM F887 standard.

(NOTE: For 400 lb. users, the SuperSqueeze or EZSqueeze series require the use of the permanently attached BuckWheel to comply with the ASTM F887 referenced fall distances). The 400 lb. rating applies to include a fully equipped user with all tools and associated equipment, and only when components of these kits are used together. No other components are to be substituted for the components of this kit as Buckingham cannot assure, they are sufficiently weight rated for a 400 lb. user. All components of this kit are designed, tested and manufactured to meet and exceed the requirements of the ASTM F887 standard. These kits (PN 400KIT – series) include one each of the following: Body Belt, Wood Pole Fall Restriction Device, Adjustable Positioning Lanyard, a pair of Aluminum Climbers and a pair of climber Pads. The available components to make up this kit are as follows:

- Body Belt (PN 20192CMQ400-size or PN 20192MQ400-size)
- Wood Pole Fall Restriction Device (WPF RD) (PN 483DQ400 or PN 484TQ400 BuckSqueeze), (PN 488RQ400 or PN 488RTQ400 SuperSqueeze or PN 490W2Q400 or PN490TW2Q400 EZSqueeze)
- Adjustable Positioning Lanyard (APL) (PN 9A4Q400-8 BuckAdjuster or PN 9M8Q400-8 Buck LeverJust)
- Pole Climbers (PN A94089AQ400-MS BuckAlloy - Aluminum Climbers)
- Climber Pads (PN 32021CQ400 or 35021CQ400)

## Notes:

- ◆ Read carefully, understand, and heed all of these instructions and warnings and those of all associated equipment before using this equipment. Failure to do so could result in your serious injury or death.
- ◆ **Hardware / material color may vary from product shown throughout this document.**



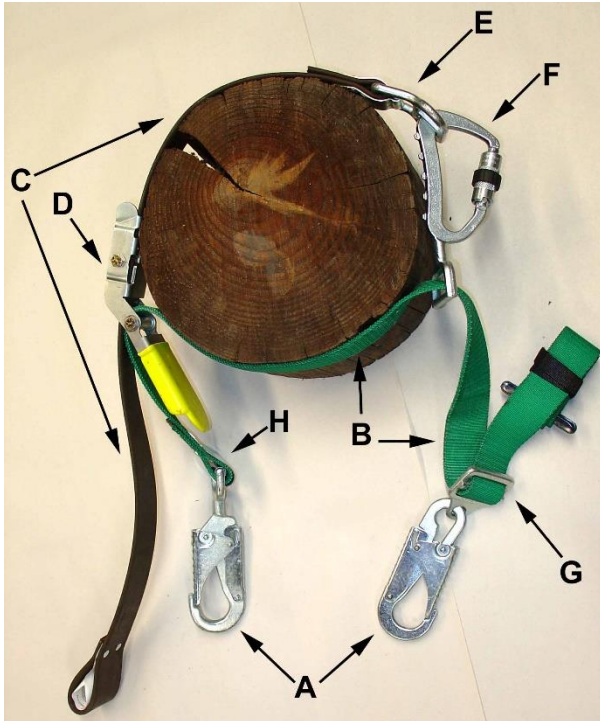
# WOOD POLE FALL RESTRICTION DEVICE

PN 483 / 484 SERIES – BuckSqueeze

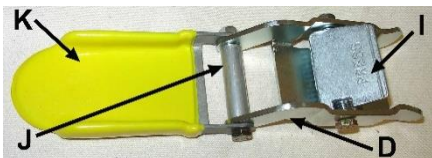
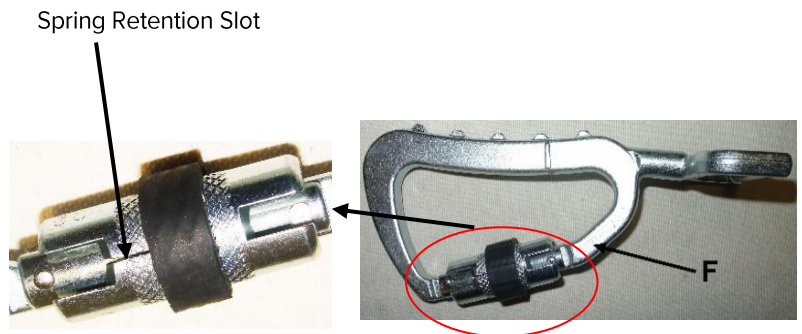
## DESCRIPTION:

- Model 483D Series – Wood Pole Fall Restriction Device (WPFRD) for distribution poles up to a 50" circumference
- Model 484T Series – Wood Pole Fall Restriction Device (WPFRD) for transmission poles up to a 90" circumference

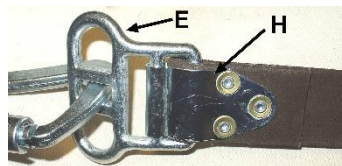
## COMPONENT DESCRIPTION: (Model 483 shown)



- A - Locking Snaphooks (2)
  - B - \*Inner Strap (Woven Web)
  - C - Outer Strap (Brown Neoprene Impregnated Nylon)
  - D - Channel Handle / Cam Assembly
  - E – 3 Slot Dee Ring
  - F - Serrated Rotosnap
  - G – Friction Buckle
  - H - Metal Strap End Clip with Rivets
  - I – Cam Buckle (see photo below)
  - J – Roller (see photo below)
  - K - Channel Handle (see photo below)
  - L – Cleat (see photo below) (Do Not Remove)
- NOTE: \*Inner strap of Model 483 is green woven nylon.  
Inner strap of Model 484 is yellow woven nylon.



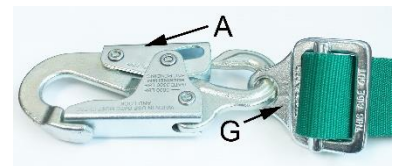
Channel Handle / Cam Assembly shown without straps.



3 Slot Dee Ring & Metal Strap End Clip with rivets, one shown.



Cleat



Locking Snaphook to Friction Buckle with linkless connection

## PRIOR TO USE:

- ◆ This equipment is intended for use by properly trained professionals only.
- ◆ Know the job and the regulations governing performance requirements and select the proper equipment.
- ◆ Manufacturer's instructions shall be provided to users with this product. Read all instructions and warnings provided by Buckingham and included with the product.
- ◆ Wood Pole Fall Restriction Devices must be in proper adjustment before use.
- ◆ All Wood Pole Fall Restriction Devices MUST BE properly adjusted and used in accordance with the manufacturer's instructions to function as designed and intended. Failure to do so could result in serious injury or death.
- ◆ Visually inspect the BuckSqueeze and all related equipment before each use. (See inspection below).

## INSPECTION:

Prior to use, carefully inspect equipment for indications of wear and / or deterioration. The inspection should include, but not be limited to the following:

1. All hardware and connecting devices are clean and functioning properly, are free of cracks, deformation, burrs, excessive wear, or modifications. Also that:
  - Snaphooks: comply with Locking Snaphook Inspection Procedure (located at the end of these instructions).
  - Serrated Rotosnap: gate freely opens and closes without binding. Note: the gate of the Serrated Rotosnap is manufactured with a spring retention slot. Ensure this slot is free from debris as this may cause the gate to bind. Ensure the rubber grip attached to the gate of the Serrated Rotosnap is centered in the knurled section of the gate as shown on page 2.
  - Roller of Channel Handle / Cam Assembly is securely fastened but freely rotates, all nyloc nuts are in place and securely tightened and frame is not bent or bowed (See photo at right).
  - The Cleat is securely in place in the Channel Handle / Cam Assembly. Do Not Use if this cleat is missing as unit will not function as designed.
  - Cam Buckle locks so that there is no slippage when the Outer Strap (brown neoprene impregnated nylon) is pulled in the direction away from the Channel Handle. Ensure the knurling of the Cam Buckle is not worn and that the Cam Buckle cannot rotate more than 30° if pushed upwards towards the Channel Handle. Friction Buckle securely grips the Inner Strap webbing when under tension. Note: When using the BuckSqueeze on poles that contain excessive amounts of preservatives (such as but not limited to, Penta Solution) it is possible for the inner strap webbing to become saturated, causing the webbing to gradually creep through the buckle when under tension. If this condition exists, thoroughly clean the webbing using Rainbow Cleaner Degreaser (PN 4305). See [Cleaning](#) section for more detailed instructions pertaining to precautions and proper use of Rainbow Cleaner.
  - Metal Strap End Clip Rivets are properly peened and tight and hardware is secured to the strap.
2. Bolt Inspection: Component connecting bolts and frames have been designed and manufactured from hardened steel to minimize the possibility of excessive wear and or damage. Evidence of bolt wear may be indicated by excessive play between the bolt and mounting holes. Evidence of bent bolts may be indicated by sticking or binding Roller or Cam Buckle. Roller and Cam Buckle should freely rotate around bolts when bolts are held in place. If evidence of wear or damage are present or you are unsure, the unit should be removed from service and returned to Buckingham Mfg. for inspection.
3. All straps are free from obstructions including kinks, knots, cuts, cracks, burns, abrasions, broken strands, excessive wear, chemical exposure and ice, mud, snow, etc. buildup. If buildup on straps or component assemblies is noted, remove buildup. One method of removal from the straps is to run the 'Cam Buckle' along the length of the outer (brown) strap or the 'Friction Buckle' along the length of the inner (woven) strap. Ensure component assemblies are clean and free of any debris.

**NOTE: Prior To and While in Use, particularly in extreme weather conditions (i.e. blizzards, high winds, etc.) - guard against debris (pebbles, twigs, packed snow, ice, mud, etc.) becoming lodged in any of the component assemblies as well as any buildup on the straps, as debris / buildup could block or restrict proper function. If noted, ensure unit is cleared. Test for slippage by connecting and properly adjusting the BuckSqueeze to the pole and your body belt. While grasping the pole, shift your weight into the BuckSqueeze. The BuckSqueeze should cinch tightly around the pole verifying its adequacy for ascent or descent.**
4. Both the Inner and Outer Straps are not worn to the point of showing the red warning center.

Remove from service, destroy, discard and replace immediately any unit that does not pass the above inspection.

## OPERATION:

### 1. HOW TO MOUNT THE BUCKSQUEEZE ON THE BODY BELT:

The user must connect the Inner Strap (green or yellow woven web) locking snaphooks to each of the body belt dee rings.

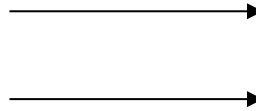


## 2. HOW TO MOUNT THE BUCKSQUEEZE ONTO THE POLE TO BEGIN:

The BuckSqueeze (PN 483 Series only) can be mounted on the pole for either a left hand or right-hand person. The user can hold the Serrated Rotosnap in either the right or left hand and the Channel Handle in the opposite. With the Serrated Rotosnap disconnected from the 3 Slot Dee Ring, wrap the Outer Strap around the back of the pole and connect the Serrated Rotosnap to the 3 Slot Dee Ring. **Notes:** Proper operation requires gate to be fully rotated prior to opening. See section 13 for additional instructions pertaining to poles covered with steel mesh (also known as bird wire) or excessively splintered.

Channel Handle / Cam Assembly mounted on the left side of the pole.

Serrated Rotosnap mounted on the left side of the pole.



Users choice

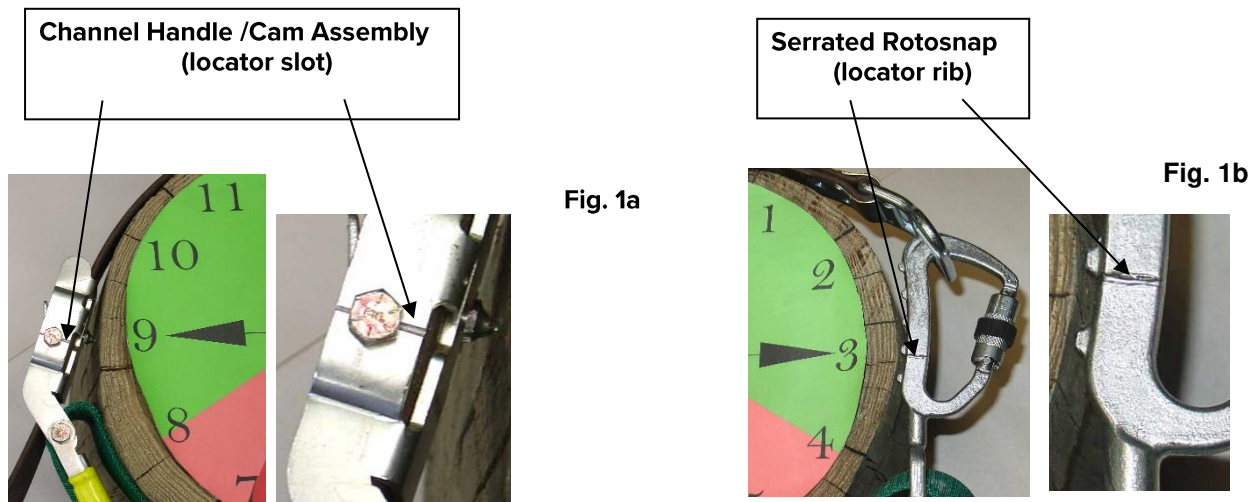
**NOTES:** The center rectangular slot of the 3 Slot Dee Ring is the primary connection point. The outer two circular slots are intended to be used for limited circumstances such as transitioning beyond an obstruction and when it is extremely difficult to connect into the rectangular center slot. The two outer circular slots are not intended to be used as continuous connection points of the dee ring.

To aid in connecting the Serrated Rotosnap to the center rectangular slot of the 3 Slot Dee Ring:

- Adjust the WPFRD by compressing the Cam Buckle and lengthening the Outer Strap.
- Rotate the Outer Strap to a position that allows the center rectangular slot of the 3 Slot Dee Ring to be visible and accessible for connection around the pole. Attach the Serrated Rotosnap to the center slot.
- Rotate back to proper position and re-adjust ensuring the hardware is properly adjusted to the 3:00 & 9:00 o'clock positions.

## 3. HOW TO ADJUST THE LENGTH OF THE OUTER STRAP:

Once the BuckSqueeze is fastened around the pole, the position of the hardware components on the pole is critical for proper operation. The frame of the Channel Handle / Cam Assembly has been manufactured with a machined slot located at the Cam Buckle Bolt and the Serrated Rotosnap is manufactured with a raised rib near the second serration from the webbing slot. The slot and rib are designed to be used as hardware locator markings to help identify proper placement of the BuckSqueeze on the pole. (See photos below).



Consider the circumference of the pole to be the face of a clock. Place the locator slot of the Channel Handle / Cam Assembly at the 3:00 or 9:00 o'clock position on one side and the locator rib of the Serrated Rotosnap at either the 3:00 or 9:00 o'clock position on the opposite side. (See Figures 1a & 1b)

Ideal Placement – 3 and 9 o'clock positions. Never allow locators to fall within the hazardous zone defined by the 4:00 to 8:00 o'clock positions. (See Figures 2 & 3) To adjust the Outer Strap (brown neoprene impregnated nylon) to the proper circumference, compress the Cam Buckle and move the Outer Strap until the hardware is properly located on the pole as outlined in Figures 1a, 1b and 2.

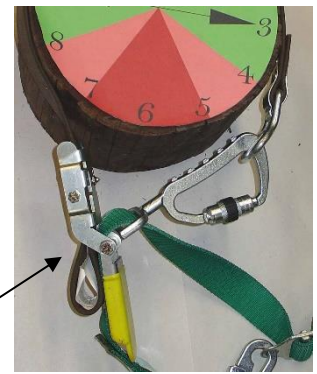
Fig. 2



Two important reasons to properly adjust the hardware around the pole are:

- a.) In the event of a cut out, if the hardware can come together it will not squeeze the pole and will not stop the fall.
- b.) Comfort. If the hardware is mounted on the sides of the pole at the (3:00 and 9:00 o'clock position), the Inner Strap comes straight out, eliminating the small 'V' created if the hardware is positioned beyond the halfway point and reduces pressure on the hips.

Fig. 3



**HAZARDOUS**

**Incorrect**



**Correct**



#### 4. HOW TO ADJUST THE INNER STRAP: [GREEN OR YELLOW WOVEN WEB]

- a.) The Inner Strap should be continually snug around the pole at all times. To make the strap longer (to go out to the end of a cross arm or to put the user further away from the pole) place one hand behind the pole and lean slightly toward the pole taking tension off the strap then pull back on friction buckle while applying outward pressure until you pull enough strap through the Friction Buckle to have the desired length.



- b.) To shorten the Inner Strap, place one hand behind the pole and lean slightly toward the pole taking tension off the strap and with the other hand, grab the end of the strap pulling it through the Friction Buckle toward the pole, until you have the desired length.

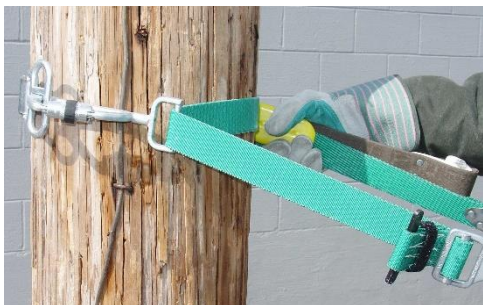


## 5. HOW TO ADJUST THE BUCKSQUEEZE TO CLIMB:

- Attach both locking snaphooks of the BuckSqueeze to the dee rings of your body belt ensuring the keepers are completely closed and facing outward.
- Place the BuckSqueeze around the pole so the position of the locators of the two hardware components are at the 3:00 and 9:00 position
- While standing on the ground at the base of the pole and the BuckSqueeze even with the dee rings of your body belt, adjust the inner strap (woven web) so you are in an ideal climbing position. This is typically measured by placing your elbow into your stomach with fingers outstretched touching the pole.

## 6. HOW TO HOLD THE BUCKSQUEEZE WHEN READY TO CLIMB:

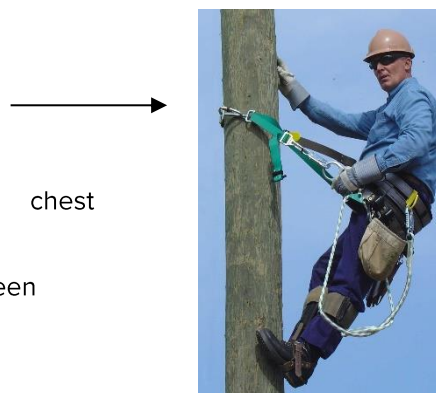
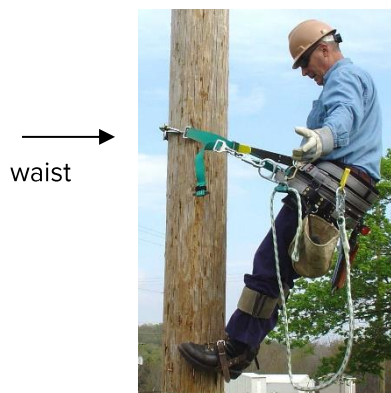
- Just prior to initiating the climb, grasp the Channel Handle / Inner Strap in one hand, and the Serrated Rotosnap in the other hand. Spread the hardware approximately 1" away from the pole and lift the BuckSqueeze to chest height. (NOTE: the BuckSqueeze should be snug).



## 7. HOW TO HITCHHIKE:

- To initiate the ascent, set the 1<sup>st</sup> climber gaff approximately 10" up and the 2<sup>nd</sup> climber gaff approximately 10" above the first. Then with the gaffs set, flip the BuckSqueeze up to chest height using either forearm and elbow motion or shoulder and arm motion.
- With the BuckSqueeze cinched around the pole at chest height take a short step or two with climbers to ascend. Then with the gaffs set, again flip the BuckSqueeze up to chest height. Repeat procedure until reaching desired position.

**Note:** The inner strap (woven web) must always be snug around pole when climbing. In addition shortening the green or yellow woven strap so that the user is closer to the pole and by flipping the BuckSqueeze shorter distances make climbing less strenuous. Flipping the strap approximately the same distance that you can bend your elbows may reduce stress on your body.



Keep BuckSqueeze between the waist and chest as you hitchhike.

## 8. ADJUSTING THE CIRCUMFERENCE OF THE BUCKSQUEEZE

- Pole circumference changes encountered as you ascend or descend the pole requires outer strap length adjustment to keep the hardware locators in the 3 and 9 o'clock positions.
- To shorten, pull the end of the Outer Strap away from the pole as you push the Channel Handle / Cam Assembly toward the pole.
- To lengthen, while applying outward pressure on the BuckSqueeze, slightly depress the Cam Buckle with the palm of your hand until reaching the correct position.



To Shorten



To Lengthen

## 9. LANYARD OPTIONS FOR CLIMBING OVER OBSTRUCTIONS

- a.) When the user ascends or descends the pole and comes to an obstruction, a secondary lanyard is required. Buckingham offers two options:
- i. Option 1 is a BuckAdjuster adjustable positioning lanyard with a length adjustment device.
  - ii. Option 2 is a Buck LeverJust.

Option 1



Option 2



## 10. HOW TO CLIMB OVER AN OBSTRUCTION DURING AN ASCENT WITH A SECONDARY LANYARD OR STRAP.

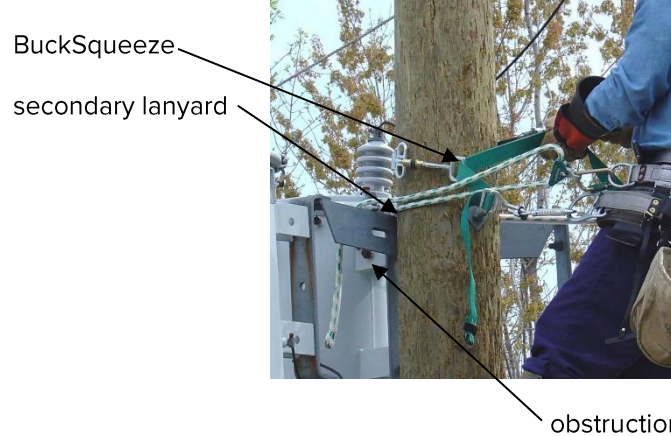
Ensure secondary lanyard device is properly attached to body belt. (Always read carefully, understand, and heed all instructions and warnings included with that device before using this equipment). To ease transitioning over obstructions, step up the pole so chest position is approximately at the same height as the top of the obstruction.

- a.) With obstruction at approximately chest height, adjust secondary lanyard to length so that it will pass around the pole, over the obstruction and back to the opposite side body belt dee ring.
- b.) Place the secondary lanyard around the pole, **over** the obstruction and connect the snaphook or carabiner back to the body belt dee ring. Take a couple of steps up and minimize the fall distance by re-adjusting the length of the secondary lanyard.
- c.) Once the secondary lanyard is secured **over** the obstruction, adjust the WPFRD by compressing the Cam Buckle and lengthen the Outer Strap to disconnect the Serrated Rotosnap from the 3 Slot Dee Ring. Disconnect the Serrated Rotosnap from the 3 Slot Dee Ring and place the outer and inner strap of BuckSqueeze on top of the secondary lanyard so both hands are free.



d.) Place Outer Strap and Serrated Rotosnap around the pole and over the obstruction.

e.) Reconnect the BuckSqueeze above both the obstruction and the secondary lanyard.



f.) Adjust the Outer Strap so the hardware locators are at the 3 and 9 o'clock positions ensuring that the Inner Strap is snug to the pole as shown below. (See instruction 3 for more details).



g.) Once the BuckSqueeze is properly secured, lengthen the adjustment of the secondary lanyard transferring your weight back into the BuckSqueeze, then disconnect the secondary lanyard above the obstruction and continue the ascent.

## 11. HOW TO DESCEND PAST AN OBSTRUCTION WITH A SECONDARY LANYARD OR STRAP.

(Read carefully, understand, and heed all instructions and warnings included with that device before using this equipment).

- As the user descends and comes to an obstruction, adjust secondary lanyard to length so that it will pass around the pole, over the obstruction and back to the opposite side body belt dee ring. Then simply secure the secondary lanyard around the pole and **above** the obstruction and **below** the BuckSqueeze.
- Connect the secondary lanyard snaphook or carabiner back to the body belt dee ring.
- Minimize the fall distance by re-adjusting the length of the secondary lanyard.
- With the secondary lanyard secured, compress the BuckSqueeze Cam Buckle to lengthen the Outer Strap of the BuckSqueeze to ease removal.
- Disconnect the BuckSqueeze Serrated Rotosnap from the 3 Slot Dee Ring.
- Refasten the BuckSqueeze below the obstruction.
- Readjust the BuckSqueeze so the hardware locators are set at the 3 and 9 o'clock positions and readjust the Inner Strap until snug (See instruction 3 & 4 for more details).
- Lengthen the adjustment of the secondary lanyard transferring your weight back into the BuckSqueeze
- Disconnect the secondary lanyard from above the obstruction and continue the descent.





## 12. HOW TO PERFORM A HURTMAN RESCUE

Note: Extreme caution must be taken when practicing or performing hurt man rescue as the rescuer may need to position their BuckSqueeze, SuperSqueeze or EZSqueeze, near the victims. Always visually ensure the strap you are about to cut is that of the victim's unit not yours. Keep your unit as far from the victims as possible.

- a.) Once the victim has been secured using the method described by user's employer's safety practice, either the Outer Strap (brown neoprene impregnated nylon) or the Inner Strap (woven web) may be cut to release the victim from the pole.
- b.) Generally, the Inner Strap will have a gap and be easier to cut (See example below).
- c.) Ensure the victim has been properly secured as outlined by user's employer's safety practice prior to cutting either strap.

**Example: Cut Strap here for hurt man rescue**



## 13. Addendum instructions for using the BuckSqueeze with a hand line.

Under certain circumstances a hand line may come into contact with the gate of the Serrated Rotosnap. Pulling the hand line up under these circumstances, may cause the gate to rotate and open thus allowing the hand line to transfer inside the Serrated Rotosnap. Although inconvenient, we do not believe it to be a safety hazard. The hand line can be easily removed and repositioned from the Serrated Rotosnap.





If using a hand line attached directly to the pole while using the BuckSqueeze, one of the following actions can be initiated to eliminate the aforementioned potential:

- a. Position the Serrated Rotosnap opposite the hand line.
- b. Shift the position of the Serrated Rotosnap forward or backwards (while maintaining proper adjustment).
- c. Reposition the hand line so it does not come into contact with the gate of the Serrated Rotosnap.

## WARNINGS:

- ◆ Read carefully, understand and heed these instructions and warnings before using this equipment. Failure to do so could result in your serious injury or death.
- ◆ This equipment is intended for use by properly trained professionals only.
- ◆ This product is designed to be used by a person with a maximum weight of 400 lbs. when fully equipped.
- ◆ Wood Pole Fall Restriction Devices must be in proper adjustment before use.
- ◆ All Wood Pole Fall Restriction Devices MUST BE properly adjusted and used in accordance with the manufacturer's instructions to function as designed and intended. Failure to do so could result in serious injury or death.
- ◆ Inspect all poles prior to climbing to ensure that there are no service wires running vertically up the pole. If wires are present install U-guard over the wires or de-energize the circuit prior to installing the BuckSqueeze.
- ◆ Fall protection equipment, (i.e. fall arrest, work positioning, climbers, retrieval, suspension etc.) should not be resold or provided to others for re-use after use by original user as assurance cannot be granted that a used product meets criteria of applicable standards and is safe for use to a subsequent user.
- ◆ Only Buckingham Mfg. Co. or those people authorized in writing by Buckingham Mfg. Co. may make repairs to this equipment.
- ◆ Inspect your equipment prior to each use. As a minimum, use all inspection instructions included in this document.
- ◆ **Do not use this device if the cleat is missing from the Channel Handle / Cam Assembly as unit will not function as designed.**
- ◆ Be certain this equipment is suitable for the intended use and work environment. It should only be used as personal protection equipment (PPE). If suitability for intended use is in doubt, consult a safety engineer or contact Buckingham Mfg. before using.
- ◆ Selection of products should be such that they aid the worker in the performance of his/her job and particular work situation. Therefore, be certain this equipment is suitable for the intended use and work environment. It should only be used as personal protection equipment If suitability for intended use is questionable, always consult your Supervisor, Safety Director or contact Buckingham Mfg. at (607) 773-2400 or 1-800-937-2825.
- ◆ Be certain the Outer Strap is properly positioned on the pole and the Inner Strap (woven web) is snug to the pole. **Failure to heed this warning will result in inadequate gripping capabilities of the unit.**
- ◆ **Never hold the BuckSqueeze open while climbing; doing so could result in inadequate gripping capabilities of the unit.**
- ◆ A secondary fall protection device must be used when the Outer Strap is disconnected to relocate it above or below an obstruction on the pole.

- ◆ Before use, ensure locking mechanisms of Locking Snaphooks and Serrated Rotosnap are functioning properly. Never disable locking mechanisms or gates, punch holes in or alter a connecting device or this product in any way.
  - ◆ Make sure each snaphook and the Serrated Rotosnap is positioned so that its keeper / gate is never load bearing.
  - ◆ With each use, visually check that snaphooks and carabiners freely engage the body belt dee rings and that the keeper is completely closed and facing outward. Never rely solely on the feel or sound of a snaphook, or carabiner or engaging.
  - ◆ With each use, visually check that the Serrated Rotosnap engages the 3 Slot Dee Ring and that the gate is closed and facing outward. Never rely solely on the feel or sound of the Serrated Rotosnap engaging.
  - ◆ With each use, visually check that the rubber grip attached to the gate of the Serrated Rotosnap is centered in the knurled section. A rubber grip that has slid out of the knurled center section and towards the top or bottom of the gate may prevent the gate from properly closing and locking.
  - ◆ When in the work position, ensure there is no pressure on the snaphook locking mechanism sufficient to depress it as this will, due to its length, render it incompatible with currently designed dee rings and make it very susceptible to rollout.
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- ◆ **Never let the WPFRD fall below waist level while ascending, descending or working.**  
**NOTE:** In certain transitioning situations, while ascending above or descending below obstructions such as cross arms or transformers, cable battery relay boxes, working on a faulty cut out, etc. it may be necessary to position the WPFRD below the waist. However, never allow the BuckSqueeze to be positioned below the waist without first placing the secondary positioning strap above the obstruction.
  - ◆ The slots of the 3 Slot Dee Ring are designed and intended for connection of the Serrated Rotosnap only, never attach anything other than the Serrated Rotosnap to any slot of the 3 Slot Dee Ring.
  - ◆ The two outer circular slots are intended to be used for limited circumstances such as transitioning beyond an obstruction and when it is extremely difficult to connect into the rectangular center slot and not as the continuous connection point of the dee ring.
  - ◆ **Never allow the Channel Handle / Cam Assembly and the Serrated Rotosnap to come into contact with each other.**
  - ◆ Ensure all connections are complete and proper before climbing.
  - ◆ For personal use only. NOT for towing or hoisting.
  - ◆ If a fall or impact loading has occurred the WPFRD should be removed from service and returned to Buckingham Mfg. for inspection or inspected by a trained, qualified and user's company approved inspector.  
 NOTE: Unit must be taken out of service and replaced if there is any question regarding it being safe for use.
  - ◆ All affixed labels should be left in place and all instructional material should be kept for future reference.
  - ◆ Avoid contact of this equipment with sharp edged or pointed tools, hand saws, chainsaws, hand tools, abrasive surfaces, high temperature surfaces, welding or other heat sources electrical hazards, or chemicals, moving machinery etc.
  - ◆ Be aware of this device's position / placement at all times in relation to the operations being performed. Use extreme caution when performing operations such as cutting, drilling, sawing, etc. Always perform this type of work well above this device to avoid the potential of tool contact, causing damage which may result in a fall, serious injury or death).
  - ◆ When performing a Hurt Man Rescue, be aware of your device's position / placement in relation to the victim's device. Visually ensure the strap you are about to cut is that of the victim's device, not yours.
  - ◆ Never work without independent fall protection if there is danger of a fall.
  - ◆ Never transfer from a ladder to wood pole, steel pole or other structures or vice versa.
  - ◆ Check for build-up of Neoprene rubber on the brown strap and cam teeth during break in period or your first few uses. If rubber is built up, clean the strap and cam with compressed air or wipe the rubber away with a clean cloth.
  - ◆ Ensure a rescue plan and resources are in place before climbing.
  - ◆ Employer – instruct employee as to proper use and warnings before use of equipment.
  - ◆ The BuckSqueeze series meets applicable criteria of OSHA 1926.502(e), and ASTM F887 (Type A) as manufactured and through proper use of product when used on dry, wet and conduit covered round poles and are not to be used on steel, concrete or E-Lam poles.
  - ◆ Product covered under these instructions / warnings should not be resold / redistributed or re-used after use by original user.
  - ◆ The pole to be climbed must have a minimum diameter of 5 inches (127 millimeters) or a minimum circumference of 15.75 inches (400 millimeters). This measurement must be taken when the WPFRD is above the user's waist.

Patented, for more information, visit [BuckinghamMFG.com/Patents](http://BuckinghamMFG.com/Patents).

# WOOD POLE FALL RESTRICTION DEVICE

PN 488 SERIES – SUPERSQUEEZE AND PN 490 SERIES – EZSQUEEZE

## DESCRIPTION:

- Model 488R – Wood Pole Fall Restriction Device (WPFRD) with Rope Inner Strap for Distribution Poles up to a 50” Circumference.
- Model 488RT – Wood Pole Fall Restriction Device (WPFRD) with Rope Inner Strap for Transmission Poles up to a 90” Circumference. (Not shown).

**Mount to pole as shown below - Serrated Rotosnap must be on the left-hand side.**

- |  |                                      |
|--|--------------------------------------|
| A – Locking Carabiners                             | G – Serrated Rotosnap                |
| B – Inner Strap (Rope)                             | H – Cleat (Permanently Attached)     |
| C – Outer Strap (Brown Neoprene Impregnated Nylon) | I – Riveted End                      |
| D – BuckGrab                                       | J – Outer Strap Handle               |
| E – D-ring   | K – Wear Guard                       |
| F – WebGrab / LAD (with BuckHorn)                  | L – Rope Tail                        |
|  | M – BuckWheel (Permanently Attached) |

Note: Hardware / colors may vary from shown.

## 490 SERIES – SuperSqueeze



## 490 SERIES – EZSqueeze

### DESCRIPTION:

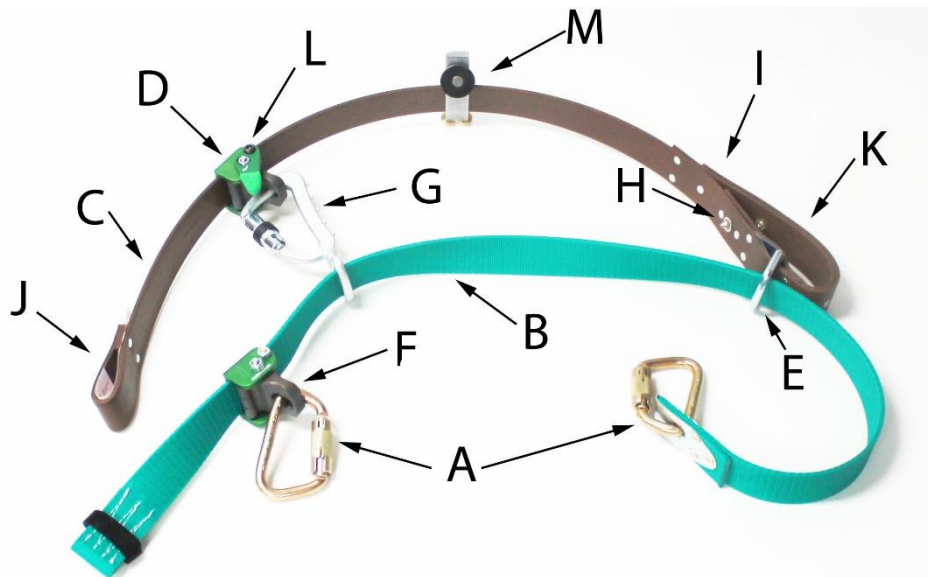
- Model 490W2 – Wood Pole Fall Restriction Device (WPFRD) with BuckHorn on Outer Strap WebGrab and Outer Strap Loop Handle. Woven Inner Strap with WebGrab for Distribution Poles up to a 50" circumference.
- Model 490TW2 – Wood Pole Fall Restriction Device (WPFRD) with BuckHorn on Outer Strap WebGrab and Outer Strap Loop Handle. Woven Inner Strap with WebGrab for Transmission Poles up to a 90" Circumference.

**Mount to pole as shown below - Serrated Rotosnap must be on the left-hand side.**

- |  |                                      |
|--|--------------------------------------|
| A – Locking Carabiners                             | G – Serrated Rotosnap                |
| B – Inner Strap (Woven Web)                        | H – Cleat (Permanently Attached)     |
| C – Outer Strap (Brown Neoprene Impregnated Nylon) | I – Riveted End                      |
| D – WebGrab / LAD (Rectangular Eye)                | J – Outer Strap Fold Over            |
| E – D-ring   | K – Outer Strap Loop Handle          |
| F – WebGrab / LAD (Oval Eye)                       | L – WebGrab BuckHorn                 |
|  | M – BuckWheel (Permanently Attached) |

Note: Hardware / colors may vary from shown.

### Model – 490W2



**PN 5005T carabiners** (Fig. A) included with SuperSqueeze and EZSqueeze carabiner versions include pre-drilled holes in the frame (Fig. B). These holes are intended for user installation of a PN 5005TC captive pin (not included) to make the carabiner non-removable from the eye of the LAD (Length Adjusting Device) or Rope / Webbing (Fig. C) of your SuperSqueeze / EZSqueeze device(s). The use of this pin is optional to the user.

Fig. A



Fig. B



Fig. C



## PRIOR TO USE:

- This equipment is intended for use by properly trained professionals only.
- Know the job and the regulations governing requirements and select proper equipment.
- Manufacturer's instructions shall be provided to users with this product. Read and understand all instructions and warnings provided by Buckingham included with the product before use.
- All Wood Pole Fall Restriction Devices **MUST BE** properly adjusted and used in accordance with the manufacturer's instructions to function as designed and intended. Proper adjustment of this device according to Buckingham's warnings and instructions is the user's responsibility. Death or serious injury may result to the user in the event that the device is used while out of adjustment.
- Visually inspect this, and all related equipment, before each use. (See inspection below)

## INSPECTION:

Prior to use, carefully inspect equipment for indications of wear and/or deterioration. The inspection should include, but not be limited to the following:

1. All hardware and connecting devices are clean and functioning properly, free of cracks, deformation, burrs, excessive wear, corrosion, modifications or additions. Snaphook and Carabiner gate freely opens and closes without binding. All bolts and locking nuts are in place and securely tightened. Note: the gate of the Serrated Rotosnap is manufactured with a spring retention slot. Ensure this slot is free from debris as this may cause the gate to bind. Ensure the rubber grip attached to the gate of the Serrated Rotosnap is centered in the knurled section of the gate as shown.
2. The cams of the LADs rotate freely and locks on the strap / rope when properly adjusted on the pole and the user's weight is on the unit.
3. The cam eye shows no signs of excessive wear. Slight wear from contact with the Serrated Rotosnap is acceptable. Unacceptable wear to the cam is defined as wear resulting in measured dimensions of less than 11/32" eye width (across the eye (Fig. D)) or less than 5/32" eye thickness at the top of eye (Fig. E) as defined by Buckingham's PN 6307 WebGrab / BuckGrab Cam Eye Gauge (sold separately).
4. All straps are free from defects including kinks, knots, cuts, cracks, burns, abrasions, broken strands or stitching, excessive wear, chemical exposure, and ice / mud / snow, etc., buildup. If buildup on straps or component assemblies is noted, remove buildup. One method of removal from the strap is to run the WebGrab along the length of the outer (brown) and inner (green / yellow) strap, and/or run the BuckGrab along the length of the inner (rope) or the friction buckle along the length of the inner (green / yellow) strap. Ensure component assemblies are clean and free of any debris. **NOTE: Prior to and while in use, particularly in extreme weather conditions (i.e. blizzards, high winds, etc.)** – guard against debris (pebbles, twigs, packed snow, ice, mud, etc.) becoming lodged in any of the component assemblies as well as any buildup on the straps, as debris / build up could block or restrict proper function. If noted, ensure unit is clear. Test for slippage by connecting and properly adjusting the SuperSqueeze / EZSqueeze to the pole and your body belt. While grasping the pole, gradually shift your weight onto the SuperSqueeze / EZSqueeze. The SuperSqueeze / EZSqueeze should cinch tightly around the pole verifying its adequacy for ascent or descent.
5. Both Inner and Outer Straps are not worn to the point of showing the warning center.
6. The Cleat on the Outer Strap is in place. Do Not Use if this cleat is missing as unit will not function as designed.
7. Rivets are not loose, or missing.
8. Ensure the wear guard is in the correct location and not excessively worn.

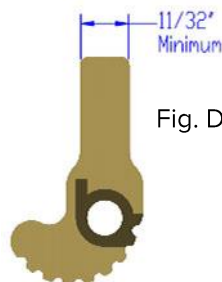
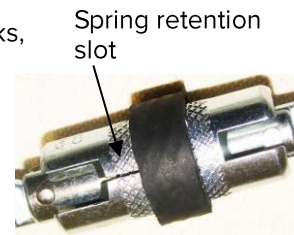


Fig. D

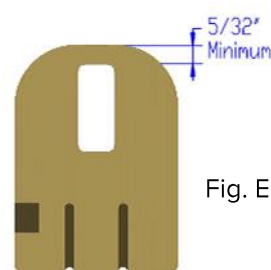


Fig. E

## OPERATION:

### 1. HOW TO MOUNT THE SUPERSQUEEZE / EZSQUEEZE TO THE BODY BELT:

- ◆ The user must connect each Locking Carabiner / Snaphook of the Inner Strap (Rope or Woven) to each of the body belt D-Rings. (Fig.1) With each use, visually check that Carabiners / Snaphooks freely engage the body belt D-rings and that the keeper / gate is completely closed. Never rely solely on the feel or sound of a snaphook or carabiner engaging.

Fig. 1



### 2. HOW TO MOUNT THE SUPERSQUEEZE / EZSQUEEZE ONTO THE POLE TO BEGIN:

**Notes:**

The EZSqueeze series is supplied with a WebGrab BuckHorn installed and facing up when the EZSqueeze is installed on the pole with the WebGrab on your left side as you face the pole.

The SuperSqueeze series is not supplied with a WebGrab BuckHorn. The WebGrab body has threaded retro-fit holes on each side for future retro-fit WebGrab BuckHorn attachment.

The 400 lb. user rated SuperSqueeze and EZSqueeze are supplied from the factory with the Serrated Rotosnap and WebGrab mounted on the left-hand side (as the user faces the pole) and with a permanently attached BuckWheel. These units must only be mounted to the pole with the Serrated Rotosnap on the left side so that the BuckWheel properly angles into towards the pole (Fig. 2). The BuckWheel must be angled in as shown in figure 2 to properly function. The Serrated Rotosnap can only be changed to the right side by returning to Buckingham under the cover of a returned goods authorization (RGA). Do not attempt this change yourself.



Fig. 2

- ◆ Hold the brown Outer Strap handle (SuperSqueeze) / Outer Strap Loop Handle (EZSqueeze) in your right hand (and the Serrated Rotosnap in your left hand (left). With the Serrated Rotosnap disconnected from the eye of the WebGrab cam wrap the outer strap around the back of the pole, slide the WebGrab from behind or the side of the pole towards your body until it can be clearly seen (Fig. 3) and to ensure proper attachment of Serrated Rotosnap to the eye of the WebGrab cam. Then connect the Serrated Rotosnap to the eye of the WebGrab. With each connection, visually check that the Serrated Rotosnap engages the WebGrab cam eye and that the keeper / gate is completely closed and facing outward (Fig. 3). Never rely solely on the feel or sound of the Serrated Rotosnap engaging.

**Note:** Proper operation requires gate of the Serrated Rotosnap to be fully rotated prior to opening.

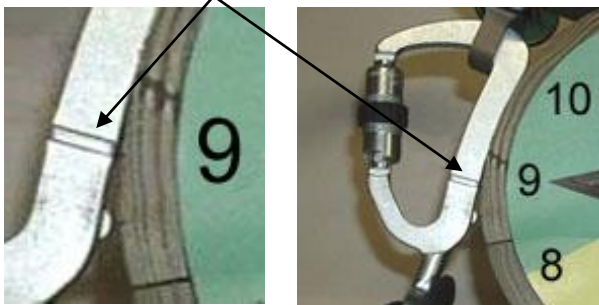


Fig. 3

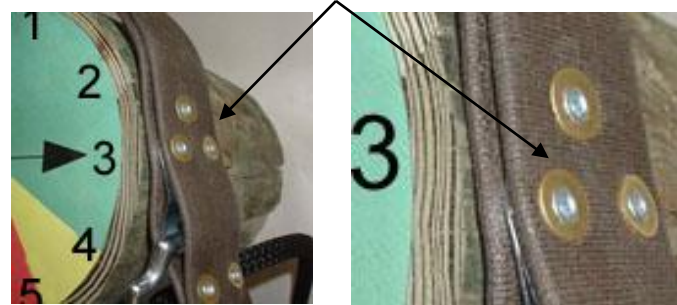
**3. HOW TO ADJUST THE LENGTH OF THE OUTER STRAP (BROWN):**

Serrated Rotosnap Locator Rib and the triangular rivet pattern on the D-ring side of the Outer Strap are used as locators to position the hardware on the pole (See Fig. 4a and 4b).

Serrated Rotosnap (Locator Rib) Fig. 4a



Triangular Rivet Pattern Fig. 4b



Consider the circumference of the pole to be the face of a clock. Place the triangular rivet pattern of the brown Outer Strap at the 3:00 o'clock position on one side and the Serrated Rotosnap Locator Rib at either 9:00 o'clock position on the opposite side (Fig. 5)

Ideal Placements are at the 3 and 9 o'clock positions. Never allow the locators to fall within the hazardous zone defined between the 4:00 to 8:00 o'clock positions (see Fig.5).

To adjust the Outer Strap to the proper circumference, after mounting the SuperSqueeze / EZSqueeze onto the pole, slide the WebGrab along the brown Outer Strap until the hardware is properly located on the pole as shown in Fig.4a, 4b, and 5.

It is imperative that the hardware be properly aligned (Serrated Rotosnap on the left side of pole) and adjusted around the pole (Fig 6a - 6b). Failure to do so (Fig 6c – 6d) could result in a fall.



Fig. 5

Fig. 6a



Correct Alignment

Fig. 6b



Correct Adjustment

Fig. 6c



Incorrect Alignment

Fig. 6d



Incorrect Adjustment

Note: When climbing, the WebGrab must be kept clear of all obstructions that could block the operation of the assembly.

**4. A. HOW TO ADJUST THE INNER STRAP [WOVEN WEB] USING THE WEBGRAB**

(The Inner Strap should be continually snug around the pole at all times.)

1. To lengthen the strap, (to go out to the end of a cross arm or to put the user further away from the pole) place one hand behind the pole and lean slightly toward the pole taking tension off the strap to relax tension on the WebGrab. Gradually depress the WebGrab Cam towards the pole, while slowly leaning back, until you have adjusted to your desired length. (See Fig. 7)
2. To shorten the strap, place one hand behind the pole and lean slightly towards the pole while pulling the free end of the strap through the WebGrab, until you have adjusted it to your desired length. (See Fig. 8)

Fig. 7



To Lengthen



Fig. 8

To Shorten

**B. HOW TO ADJUST THE INNER STRAP [ROPE] USING BUCKGRAB**

(The Inner Strap (Rope) should be continually snug around the pole at all times)

1. To lengthen the strap, (to go out to the end of a cross arm or to put the user further away from the pole) place one hand behind the pole and lean slightly toward the pole taking tension off the strap to relax tension on the BuckGrab. Gradually depress the BuckGrab Cam towards the pole while slowly leaning back until the rope feeds through the LAD and you have adjusted to your desired length (See Fig. 9). Release the cam to stop at your desired position.
2. To shorten the strap, place one hand behind the pole and lean slightly towards the pole while pulling the free end of the Rope through the BuckGrab until you have adjusted it to your desired length. (See Fig. 10)



To Lengthen



To Shorten

**5. HOW TO ADJUST THE SUPERSQUEEZE / EZSQUEEZE TO CLIMB**

**Ensure:**

- a. Each of the two Locking Carabiners / Snaphooks of the SuperSqueeze / EZSqueeze are attached to each side D-ring of your body belt and the gates are completely closed and facing outwards.
- b. The outer Strap of the SuperSqueeze / EZSqueeze is around the pole and the Serrated Rotosnap of the Inner Strap is attached to the eye of the WebGrab.
- c. Hardware components are positioned at the 3:00 and 9:00 position.

- d. While at ground level with the SuperSqueeze / EZSqueeze even with the D-rings of your body belt, the Inner Strap (Rope or Woven Web) is adjusted so you are in an ideal climbing position. This is typically measured by placing your elbow into your stomach with fingers outstretched touching the pole.

**6. HOW TO HOLD THE SUPERSQUEEZE / EZSQUEEZE WHEN READY TO CLIMB:**

Prior to initiating the climb, and with the SuperSqueeze / EZSqueeze properly aligned and adjusted at the 3:00 and 9:00 position, grasp the Outer Strap Handle (SuperSqueeze) / Outer Strap Loop Handle (EZSqueeze) with one hand (Fig. 11a / 11 b) and the Serrated Rotosnap in the other (Fig. 12a / 12b). Spread the hardware slightly (1" max) away from the pole and lift the SuperSqueeze / EZSqueeze to chest height. (NOTE: the SuperSqueeze / EZSqueeze must remain snug to the pole) (Fig.11a, 11b, 12a and 12b).

Fig. 11a



Fig. 11b



Fig. 12a



Fig. 12b



**7. HOW TO HITCHHIKE:**

- a. To initiate the ascent, set the 1<sup>st</sup> climber gaff approximately 10" up the pole and the 2<sup>nd</sup> climber gaff approximately 10" above the first. With the gaffs set, flip the SuperSqueeze / EZSqueeze up to chest height (Fig.13) using either forearm and elbow motion or shoulder and arm motion.
- b. With the SuperSqueeze / EZSqueeze adjusted around the pole at chest height take a short step or two with climbers to ascend. Then with the gaffs set, again flip the SuperSqueeze up to chest height (Fig.13). Repeat the described procedure until at the desired height.
- c. To descend, perform steps 7a & 7b above in reverse.

**NOTE:** The inner strap (Rope or Woven Web) must always be snug around the pole when climbing. Also, shortening the inner strap and by flipping the SuperSqueeze / EZSqueeze shorter distances makes climbing less strenuous. Flipping the strap approximately the same distance that you can bend your elbows may aid in reducing stress on your body.



Fig. 13

Chest



← Waist

Keep the SuperSqueeze / EZSqueeze between the waist and chest as you hitchhike

**8. ADJUSTING THE SUPERSQUEEZE / EZSQUEEZE TO THE CIRCUMFERENCE OF THE POLE.**

- a. Pole circumference changes encountered as you ascend or descend the pole requires Outer Strap length adjustment to keep the hardware in the 3 and 9 o'clock positions.



- b. To shorten, grasp the brown Outer Strap behind the WebGrab and pull towards the back of the pole (away from your body). This will cause the WebGrab to adjust towards the pole shortening the Outer Strap (Fig. 14).
- c. To lengthen:
  - (1) the SuperSqueeze, lean slightly towards the pole taking tension off the strap to relax tension on the WebGrab Cam. Gradually depress the WebGrab Cam towards the pole (Fig.15a) while slowly leaning back, until you have adjusted it to your desired length.
  - (2) the EZSqueeze, use the palm of your hand to tap the WebGrab BuckHorn away from you and towards the back of the pole (Fig. 15b). This will lengthen the Outer strap approx. a 1/2" with each tap. Continue until you have adjusted it to your desired length. Note: You do not have to take tension off of the EZSqueeze to make this adjustment.
- d. Alternate method to lengthen the EZSqueeze: Relax tension on the WebGrab Cam by leaning slightly towards the pole and take tension off the strap. Hook your thumb on the WebGrab BuckHorn and twist WebGrab frame towards the pole (Fig.15c) while slowly leaning back, until you have adjusted it to your desired length.



To Shorten



To Lengthen



## 9. LANYARD OPTIONS FOR CLIMBING OVER OBSTRUCTIONS

When the user ascends or descends the pole and comes to an obstruction, a secondary lanyard is required. Buckingham offers two options:

- i. Option 1 is a Buck-A-Juster adjustable positioning lanyard with a length adjustment device.
- ii. Option 2 is a Buck Leverjust.

**Option 1**



**Option 2**



(Read carefully, understand and heed all instructions and warnings included with that device before using this equipment).

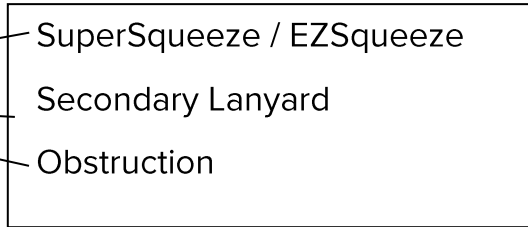
## 10. HOW TO CLIMB OVER AN OBSTRUCTION DURING AN ASCENT WITH A SECONDARY LANYARD.

Ensure secondary lanyard device is properly attached to body belt. (Always read carefully, understand and heed all instructions and warnings included with that device before using this equipment). To ease transitioning over obstructions, step up the pole so chest position is approximately at the same height as the top of the obstruction.

- a.) With obstruction at approximately chest height, adjust secondary lanyard to length so that it will pass around the pole, over the obstruction and back to the opposite side body belt D-ring.
- b.) Place the secondary lanyard around the pole, **over** the obstruction and connect the snaphook or carabiner back to the opposite side body belt D-ring. Take a couple of steps up and minimize the fall distance by re-adjusting the length of the secondary lanyard.



- c.) Once the secondary lanyard is secured **over** the obstruction, adjust the WPFRD by compressing the WebGrab Cam and lengthen the Outer Strap to disconnect the Serrated Rotosnap from the WebGrab. Disconnect the Serrated Rotosnap from the WebGrab and place the outer and inner strap of SuperSqueeze / EZSqueeze on top of the secondary lanyard so both hands are free.
- d.) Wrap the outer strap around the back of the pole and over the obstruction, slide the WebGrab from behind or the side of the pole towards your body until it can be clearly seen (Fig. 3) and to ensure proper attachment of Serrated Rotosnap to the eye of the WebGrab cam.
- e.) Then connect the Serrated Rotosnap to the eye of the WebGrab above both the obstruction and the secondary lanyard. With each connection, visually check that the Serrated Rotosnap engages the WebGrab cam eye and that the keeper / gate is completely closed. Never rely solely on the feel or sound of the Serrated Rotosnap engaging.



- f.) Adjust the Outer Strap so the hardware locators are at the 3 and 9 o'clock positions ensuring that the Inner Strap is snug to the pole as shown below. (See instruction 3 for more details).



- g.) Once the SuperSqueeze / EZSqueeze is properly secured, lengthen the adjustment of the secondary lanyard transferring your weight back into the SuperSqueeze / EZSqueeze, then disconnect the secondary lanyard above the obstruction and continue the ascent.



## 11. HOW TO DESCEND PAST AN OBSTRUCTION WITH A SECONDARY LANYARD.

- a.) As the user descends and comes to an obstruction, adjust secondary lanyard to length so that it will pass around the pole, over the obstruction and back to the opposite side body belt D-ring. Then simply secure the secondary lanyard around the pole and **above** the obstruction and **below** the SuperSqueeze / EZSqueeze.
- b.) Connect the secondary lanyard snaphook or carabiner back to the opposite side body belt D-ring.
- c.) Minimize the fall distance by re-adjusting the length of the secondary lanyard.
- d.) With the secondary lanyard secured, compress the SuperSqueeze / EZSqueeze WebGrab Cam to lengthen the Outer Strap of the SuperSqueeze / EZSqueeze to ease removal.
- e.) Disconnect the SuperSqueeze / EZSqueeze Serrated Rotosnap from the WebGrab.
- f.) Wrap the outer strap around the back of the pole and under the obstruction, slide the WebGrab from behind or the side of the pole towards your body until it can be clearly seen (Fig. 3) and to ensure proper attachment of Serrated Rotosnap to the eye of the WebGrab cam. Then connect the Serrated Rotosnap to the eye of the WebGrab below both the obstruction and the secondary lanyard. With each connection, visually check that the Serrated Rotosnap engages the WebGrab cam eye and that the keeper / gate is completely closed. Never rely solely on the feel or sound of the Serrated Rotosnap engaging.
- g.) Readjust the SuperSqueeze / EZSqueeze so the hardware locators are set at the 3 and 9 o'clock positions and readjust the Inner Strap until snug (See instruction 3 & 4 for more details).
- i.) Lengthen the adjustment of the secondary lanyard transferring your weight back into the SuperSqueeze / EzSqueeze.
- j.) Disconnect the secondary lanyard from above the obstruction and continue the descent.



## 12. HOW TO PERFORM A HURTMAN RESCUE

(Note: Extreme caution must be taken when practicing or performing hurt man rescue as the rescuer may need to position their SuperSqueeze / EZSqueeze, near the victims. Always visually ensure the strap you are about to cut is that of the victim's unit not yours. Keep your unit as far from the victims as possible.

- a.) Once the victim has been secured using the method described by user's employer's safety practice, either the Outer Strap (brown neoprene impregnated nylon) or the Inner Strap (woven web or rope) may be cut to release the victim from the pole.
- b.) Generally, the Inner Strap will have a gap and be easier to cut (See example at right).
- c.) Ensure the victim has been properly secured as outlined by user's employer's safety practice prior to cutting either strap.



**Example:  
Cut Strap Here for Hurt Man Rescue**

## 13. ADDENDUM INSTRUCTIONS FOR USING THE SuperSqueeze / EZSqueeze WITH A HAND LINE.



Under certain circumstances a hand line may come into contact with the gate of the Serrated Rotosnap. Pulling the hand line up under these circumstances, may cause the gate to rotate and open thus allowing the hand line to transfer inside the Serrated Rotosnap. Although inconvenient, we do not believe it to be a safety hazard. The hand line can be easily removed and repositioned from the Serrated Rotosnap.

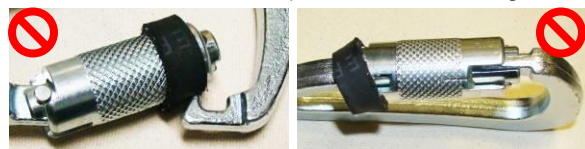
If using a hand line attached directly to the pole while using the SuperSqueeze / EZSqueeze, one of the following actions can be initiated to eliminate the aforementioned potential:

- a. Position the Serrated Rotosnap opposite the hand line.
- b. Shift the position of the Serrated Rotosnap forward or backwards (while maintaining proper adjustment).
- c. Reposition the hand line so it does not come into contact with the gate of the Serrated Rotosnap.

### WARNINGS:

- ◆ Read carefully, understand, and heed these instructions and warnings before using this equipment. Failure to do so could result in your serious injury or death.
- ◆ This equipment is intended for use by properly trained professionals only.
- ◆ This product is designed to be used by a person with a maximum weight of 400 lbs. when fully equipped.
- ◆ All Wood Pole Fall Restriction Devices MUST BE properly adjusted and used in accordance with the manufacturer's instructions to function as designed and intended. Proper adjustment of this device according to Buckingham's warnings and instructions is the user's responsibility. Death or serious injury may result to the user in the event that the device is used while out of adjustment.
- ◆ This product is not to be used on smooth sided steel poles or laminated poles.
- ◆ Inspect pole prior to climbing. Ensure that there are no service wires running vertically up the pole. If wires are present install U-guard over the wires or de-energize the circuit prior to installing the SuperSqueeze / EZSqueeze.
- ◆ Fall protection equipment, (i.e. fall arrest, work positioning, climbers, retrieval, suspension etc.) should not be resold or provided to others for re-use after use by original user as assurance cannot be granted that a used product meets criteria of applicable standards and is safe for use by a subsequent user.
- ◆ Only Buckingham Mfg. Co., or those people authorized in writing by Buckingham Mfg. Co., may make alterations or repairs to this equipment.
- ◆ Inspect your equipment prior to each use. As a minimum, use all inspection instructions included in this document.
- ◆ Do not use this device if the BuckWheel or cleat is missing from the outer strap as unit will not function as designed.
- ◆ Selection of products should be such that they aid the worker in the performance of his/her job and particular work situation. Therefore, be certain this equipment is suitable for the intended use and work environment. It should only be used as personal protection equipment (PPE). If suitability for intended use is in doubt, consult your Supervisor, Safety Director, or contact Buckingham Mfg. at (607) 773-2400 or 1-800-937-2825 (8:00 am – 5:00 pm {EST} M-F) before using.

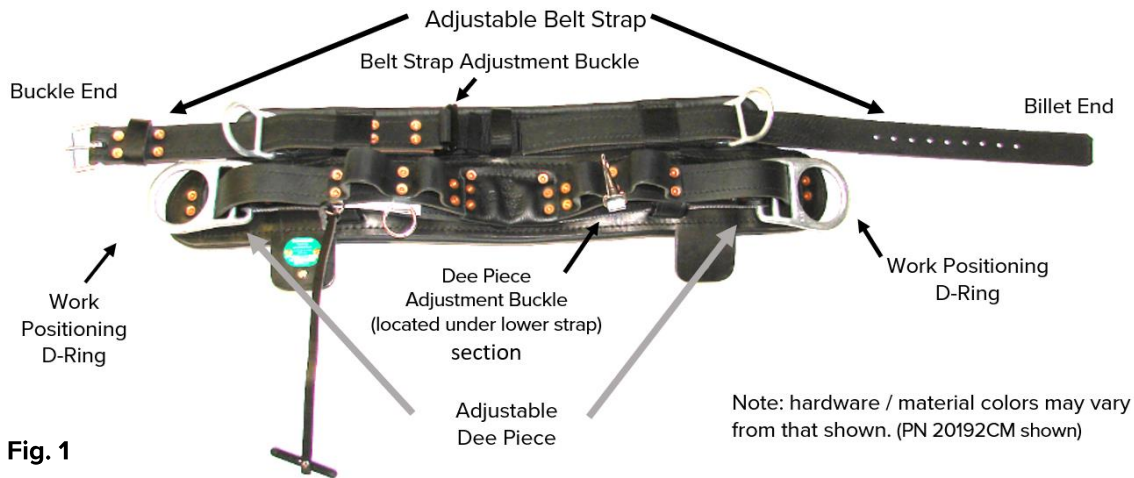
- ◆ Be certain the brown Outer Strap is properly positioned (aligned and adjusted) on the pole and the Inner Strap (Woven Web or Rope) is snug to the pole before using. **Failure to heed this warning will result in inadequate gripping capabilities of the unit.**
- ◆ **Never hold the SuperSqueeze or EZSqueeze open while climbing; doing so will result in inadequate gripping capabilities of the unit.**
- ◆ A secondary fall protection device must be used when transitioning above or below an obstruction (i.e. the Outer Strap is disconnected to relocate it above or below an obstruction on the pole).
- ◆ Before use, ensure locking mechanisms of Locking Carabiners / Snaphooks and Serrated Rotosnap are functioning properly. Never disable locking mechanisms, gates, punch holes in, or alter a connecting device or this product in any way.
- ◆ Make sure each Carabiner / Snaphook and Serrated Rotosnap is positioned so that its keeper / gate is never load bearing.
- ◆ With each use, visually check that Carabiners / Snaphooks freely engage the body belt D-rings and that the keeper / gate is completely closed and is facing outward. Never rely solely on the feel or sound of a snaphook or carabiner engaging.
- ◆ With each use, visually check that the Serrated Rotosnap engages the WebGrab eye and that the keeper / gate is closed and facing outward. Never rely solely on the feel or sound of the Serrated Rotosnap engaging.
- ◆ With each use, visually check that the rubber grip attached to the gate of the Serrated Rotosnap is centered in the knurled section. A rubber grip that has slid out of the knurled center section and towards the top or bottom of the gate may prevent the gate from properly closing and locking.
- ◆ When in the work position, ensure there is no pressure on the Snaphook locking mechanism sufficient to depress it as this will, due to its length, render it incompatible with currently designed D-rings and make it very susceptible to rollout.
- ◆ **Never let the WPF RD fall below waist level while ascending, descending, or working.**  
**NOTE:** When transitioning above or below obstructions such as cross arms, transformers, cable battery relay boxes, working on a faulty cut out, etc., the WPF RD must be used with a secondary positioning device to prevent the possibility of falling down the pole in the event of a cut-out.
- ◆ **Never allow the D-ring and the Serrated Rotosnap to come into contact with each other.**
- ◆ Ensure all connections are complete and proper before climbing.
- ◆ For personal use only. NOT for towing or hoisting.
- ◆ If a fall or impact loading has occurred the WPF RD should be removed from service and returned to Buckingham Mfg. for inspection or inspected by a trained and qualified, user's company approved inspector.  
NOTE: Unit must be taken out of service and replaced if there is any question regarding it being safe for use.
- ◆ All affixed labels should be left in place and all instructional material be kept for future reference.
- ◆ Avoid contact of this equipment with sharp edged or pointed tools, hand saws, chainsaws, hand tools, abrasive surfaces, high temperature surfaces, welding or other heat sources electrical hazards, chemicals, moving machinery etc.
- ◆ Be aware of this device's position / placement at all times in relation to the operations being performed. Use extreme caution when performing operations such as cutting, drilling, sawing, etc. Always perform this type of work well above this device to avoid the potential of tool contact, causing damage which may result in a fall, serious injury or death).
- ◆ When performing a Hurt Man Rescue, be aware of your device's position / placement in relation to the victims device. Visually ensure the strap you are about to cut is that of the victim's device, not yours.
- ◆ Never work without independent fall protection if there is danger of a fall.
- ◆ Never transfer from a ladder to a wood pole, steel pole or other structure or vice versa.
- ◆ Ensure a rescue plan and resources are in place before climbing.
- ◆ Employer – instruct employee as to proper use and warnings before use of equipment.
- ◆ This Product meets applicable criteria of OSHA 1926.502(e), and ASTM F887 (Type A) as manufactured (with a permanently attached BuckWheel and cleat) and through proper use of the product when used on round poles and Type A criteria when used on non-iced poles.
- ◆ Product covered under these instructions / warnings should not be resold, redistributed, or re-used after use by the original user.
- ◆ Consult your doctor if there is reason to doubt your fitness to safely absorb the shock from a fall arrest. Age and fitness seriously affect a worker's ability to withstand falls. Pregnant women or minors must not use any Buckingham Manufacturing equipment.
- ◆ The pole to be climbed must have a minimum diameter of 5 inches (127 millimeters) or a minimum circumference of 15.75 inches (400 millimeters). This measurement must be taken when the WPF RD is above the user's waist.
- ◆ It is essential for safety of the user that if a 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 sold.



Patented, for more information, visit [BuckinghamMFG.com/Patents](http://BuckinghamMFG.com/Patents).

# ADJUSTABLE BODY BELT ADJUSTMENT INSTRUCTIONS

The Buckingham adjustable body belt (Patent Pending / Stacked Four D-ring Body Belts are Patented) has been designed with an adjustable man rated upper belt strap and an adjustable lower work positioning Dee piece that allows the user to customize the size of their body belt.



## ADJUSTABLE BELT STRAP ADJUSTMENT INSTRUCTIONS:

### To Lengthen the Adjustable Belt Strap:

1. Lay the belt on a flat surface with the belt strap facing up (Fig. 1)
2. Rotate the adjustment buckle 90° so it is perpendicular to the strap (Fig. 2)
3. Feed extra webbing from top of strap through the adjustment buckle forming a slack loop (Fig. 3)
4. Pull webbing slack loop from the bottom, away from the buckle, lengthening the strap to the desired length.
5. Once adjusted, lay the buckle flat against the strap and pull excess strap towards the billet end of the belt, flattening the strap (Fig. 4)



### To Shorten the Adjustable Belt Strap:

1. Lay the belt on a flat surface with the belt strap facing up (Fig. 1)
2. Rotate the adjustment buckle 90° so it is perpendicular to the strap (Fig. 5)
3. Create slack in the belt strap by pulling the billet side of the strap towards the adjustment buckle (Fig. 6)
4. Feed extra webbing from bottom of strap through the adjustment buckle forming a slack loop (Fig. 7)
5. Pull webbing slack loop from the top, away from the buckle, lengthening the strap to the desired length.
6. Once adjusted, lay the buckle flat against the strap and pull excess strap towards the billet end of the belt, flattening the strap (Fig. 8)

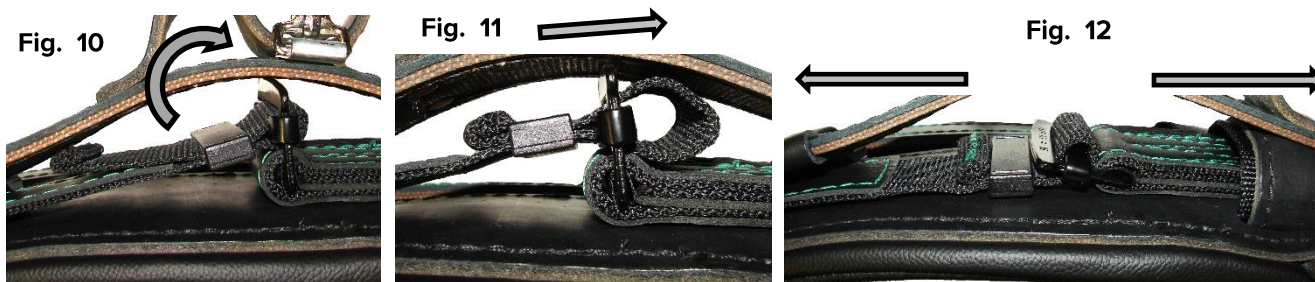




**ADJUSTABLE DEE PIECE ADJUSTMENT INSTRUCTIONS:**

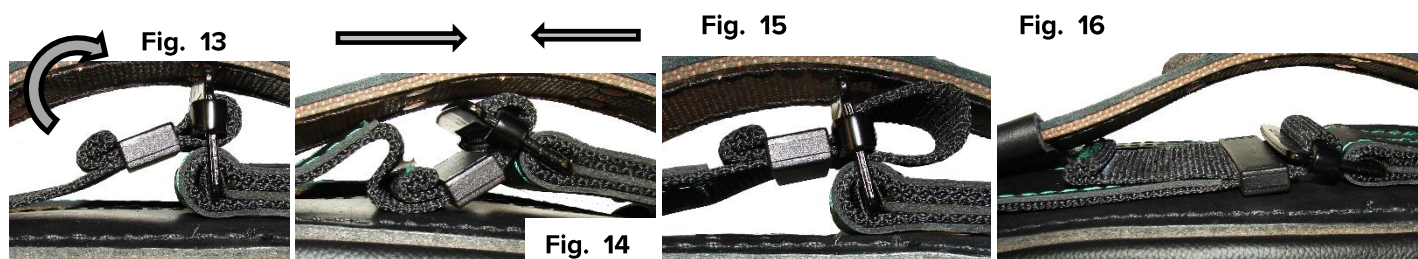
To Lengthen the Adjustable Dee Piece:

1. Lay the belt on its edge with the lower Dee piece facing up and away (Fig. 9)
2. Rotate the adjustment buckle 90° so it is perpendicular to the dee piece strap (Fig. 10)
3. Feed extra webbing from top of strap through the adjustment buckle forming a slack loop (Fig. 11)
4. Pull webbing slack loop from the bottom, away from the buckle, lengthening the Dee piece to the desired length.
5. Once adjusted, lay the buckle flat against the strap and pull the two work positioning D-rings away from each other, tightening and flattening the Dee piece (Fig. 12)



To Shorten the Adjustable Dee Piece:

1. Lay the belt on its edge with the lower Dee piece facing up and away (Fig. 9)
2. Rotate the adjustment buckle 90° so it is perpendicular to the dee piece strap (Fig. 13)
3. Create slack in the Dee piece by pushing the two work positioning D-ring towards each other (Fig. 14)
4. Feed extra webbing from bottom of strap through the adjustment buckle forming a slack loop (Fig. 15)
5. Pull webbing slack loop from the top, away from the buckle, lengthening the strap to the desired length.
6. Once adjusted, lay the buckle flat against the strap and pull the two work positioning D-rings away from each other, tightening and flattening the Dee piece (Fig. 16)



Reference Buckingham's 4 D-ring BODY BELT instructions below for further information regarding the warnings for the Adjustable Body Belt.

Patent Pending

Stacked Four D-ring Body Belts are Patented. For more information, visit [BuckinghamMFG.com/Patents](http://BuckinghamMFG.com/Patents).

# 4 D-ring BODY BELTS

PN 20192CMQ400 & PN 20192MQ400

## Instructions

- ◆ Know the job and the regulations governing performance requirements and select the proper equipment.
- ◆ Read all warnings and instructions provided with all Buckingham belts, positioning devices and related equipment. Should questions arise concerning the proper use or condition of your equipment, consult your Supervisor, Safety Director or contact Buckingham Manufacturing Co. at 1-800-937-2825.
- ◆ All affixed labels should be left in place and all instructional material should be kept for future reference.
- ◆ When securing the belt around your body, ensure the buckle is properly fastened, and the billet end of the belt strap is in its keeper. A belt should provide a snug fit around your body (approximately 4" below your waistline). If this cannot be achieved, replace the belt with one that is a better fit. Refer to the Buckingham catalog to determine the proper belt size and wearing location.
- ◆ When using a body belt, the positioning D-rings should be equally spaced on either side of the lineman's body.
- ◆ When using a positioning strap with the body belt, ensure by visual inspection that each snap hook freely engages each D-ring, that both keepers are completely closed and that keepers face outward (i.e. away from the body).
- ◆ Do not connect any tools, accessory loops / snaps, etc. to the positioning D-rings. D-rings are for attachment of connecting device locking snap hooks only.
- ◆ A barrel nut fastener (post and screw) is supplied loosely threaded through the pouch tab of each body belt, intended for tool pouch attachment to the body belt. The tool pouch may be attached to either pouch tab at user's preference. To attach, insert the post section through the hole of the body belt pouch tab and tool pouch. Thread the screw into the post and securely tighten. To prevent the screw from loosening from the post and accidentally releasing the tool pouch from the belt, Buckingham suggests peening / mushrooming the protruding screw.

## FOUR D-RING BODY BELTS

The Four D-ring Body Belt is designed to be used with a WPFRD and an Adjustable Positioning Lanyard (APL) in order for the user to be continuously connected while performing tasks such as transitioning over obstructions such as crossarms.

Four D-ring Body Belts are available with stacked or in line D-rings.

Stacked 4 D-ring  
Body Belt



In Line 4 D-ring  
Body Belt



Buckingham's suggested method for user continuous connection while transitioning past obstructions is use of the **Four D-ring Body Belt**, WPFRD (BuckSqueeze or SuperSqueeze) and an **Adjustable Position Lanyard** (BuckAdjuster). Ensure you read, understand and follow these instructions as well as those included with each piece of equipment prior to using this equipment. Stacked 4 D-ring Body Belts: The primary / secondary D-ring set determination is at the discretion of the user or using company's specified work practice. In Line D-ring Body Belts: The forward Body Belt D-rings are intended for use as primary attachment points for the WPFRD locking connecting devices. The rear Body Belt D-rings are intended only for use as secondary attachment points for connection while transitioning past obstructions. It is an acceptable practice to stow a secondary lanyard from one of the secondary D-rings when not in use. Note: both locking connecting devices of the Adjustable Positioning Lanyard (i.e. BuckAdjuster) must be connected to the same secondary D-ring during stowage. An alternate method of stowage is the use of a break-a-way handline hook. The carabiner connector of the APL must remain attached to the secondary D-ring at all times. The snap hook end of the APL (i.e. BuckAdjuster) may be stored on a breakaway handline hook when not in use. The use of the breakaway hook allows the snap end to pull free in the event it becomes snagged.

## **HOW TO CLIMB OVER AN OBSTRUCTION DURING AN ASCENT USING THE FOUR D-ring BODY BELT, WPFRD (BuckSqueeze, SuperSqueeze or EZSqueeze) AND THE ADJUSTABLE POSITIONING LANYARD (BuckAdjuster).**

- Ascend the pole until the obstruction is at approximately chest height.
- Ensure the locking carabiner /connector at one end of the APL is properly attached to one secondary D-ring of the body belt. Disconnect the opposite side locking connecting device of the BuckAdjuster from the body belt-secondary D-ring or break-a-way handline hook.
- Place the APL around the pole, **over** the obstruction and connect the connecting device to the secondary D-ring on the opposite side of the body belt.
- Adjust (shorten) the length of the APL so your body weight is transferred from the WPFRD to the APL.
- Loosen the WPFRD by compressing the Cam Buckle (if using the BuckSqueeze) or Cam Lever (if using the SuperSqueeze) and lengthening the Outer Strap.
- Disconnect the WPFRD Serrated Rotosnap from the Outer Strap Connector.
- Step up the pole so your chest position is approximately at the same height as the top of the obstruction and re-adjust (shorten) the APL.
- Place the WPFRD Outer Strap and Serrated Rotosnap around the pole, over the obstruction and the APL.
- Reconnect the Serrated Rotosnap to the Outer Strap Connector.
- Adjust the WPFRD so the hardware locators are at the 3:00 or 9:00 o'clock positions.
- Disconnect the locking connecting device of the APL from the body belt secondary D-ring and connect it back to the other secondary D-ring on the opposite side of the body belt or to the break-a-way handline hook for stowage.
- Continue your ascent.
- To descend pole, follow the applicable sections of above procedure in reverse order.

### ADDITIONAL WARNINGS [Pertaining to Four D-ring Body Belts]

- Proper use is critical to the performance of the 4 D-ring system.
- Always attach each locking connecting device of the positioning strap, WPFRD, retractable lanyard or adjustable positioning lanyard to the proper D-rings of the body belt.
- Never mismatch D-rings by connecting the locking connecting device of a positioning strap, BuckSqueeze or SuperSqueeze, retractable lanyard or Adjustable Positioning Lanyard to a primary D-ring on one side and to an secondary D-ring on the opposite side.
- When using a body belt equipped with a 4 D-ring system ensure by visual inspection that each locking connecting device freely engages each D-ring, that all keeper / gates are completely closed and that keepers / gates face outward (i.e. away from body). Never rely solely on the feel or sound of a connecting device engaging.
- Do Not connect any tools, accessory loops / accessory snaps, etc. to the D-rings. The D-rings are for attachment of locking connecting devices only.
- D-rings are intended for work positioning only. If a fall is possible, a full body harness must be used.

Patented. For more information, visit [BuckinghamMFG.com/Patents](http://BuckinghamMFG.com/Patents).



# BuckAdjuster

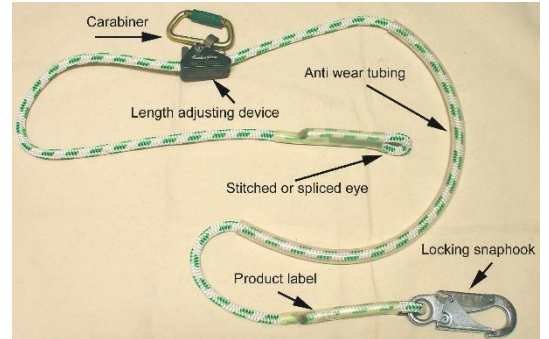
## PN 9A4Q400-8 - ADJUSTABLE POSITIONING LANYARD

**Inspect Prior to each use:** inspection should include but not be limited to the following:

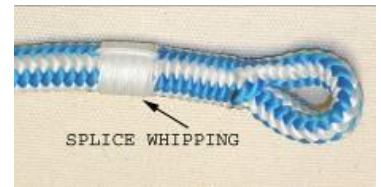
### ROPE INSPECTION:

- Inspecting your rope should be a continuous process of observation before, during, and after each use.
- Inspect rope fibers for signs of excessive wear, burns, cuts, abrasions, kinks, knots, hocking, ice buildup, broken strands in any given area of the rope.
- If ice or snow build-up is noted, remove build-up prior to use by running the length adjusting device along the length of the rope. Ensure the length adjusting device is clean and free of packed snow or ice.
- Both outer and inner fibers contribute to the ropes strength. If either is worn, the rope will naturally be weakened. the rope strands and look for powdered fiber, which is one sign of internal rope wear.
- Inspect the rope for frayed strands and broken yarns. Check for pulled strands. A pulled strand should be re-threaded into the rope if possible, otherwise it may snag on a foreign object during use.
- Inconsistent texture or stiff areas can indicate excessive dirt or grit embedded in the rope or shock load damage. Check that rope has not become hard or compacted. A hard or compacted rope indicates reduced strength.
- Inconsistent diameter (flat areas, bumps, or lumps). This condition indicates core or internal damage from overloading or shock loading.
- With use, all ropes become dirty. Inspect for areas of discoloration that could have been caused by chemical contamination and may result in the rope becoming brittle or stiff.
- Inspect the thread of the stitched eye for discoloration that could have been caused by chemical contamination and may result in the thread becoming brittle.
- Glossy or glazed areas that generally indicate signs of heat damage.
- Rope, rope stitching, splice and all whipped ends are free of defects (see Fig. 1a, 1b). Stitched eyes have no loose, cut, or missing stitching and have a protective cover (shrink tube) over the stitching, and the cover must not be damaged, missing or torn. (see Fig. 1b).
- For personal use only. NOT for towing or hoisting.
- If your Adjustable Positioning Lanyard is manufactured using Matrix Rope Option "8K" or "8R" do not use rope that has the warning center / core exposed.

**Fig. 1**



MODEL 9-8 shown in Fig. 1. Other models may have varying lengths, options & hardware from figures shown.



**Fig. 1a**



**Fig. 1b**

See photos below for examples of a variety of conditions indicated above:



Hockled Rope



Rope with a Pulled Strand



Rope with Broken or Cut Strands



Melted / Glossy or Glazed Strands



Rope with Excessive Abrasion Wear

## SNAP HOOK / CARABINER INSPECTION:

- Ensure locking device and keeper / gate operate freely and smoothly and that keeper / gate closes and remains closed and locked until intentionally opened.
- Inspect to ensure component is free of cracks, distortion, corrosion, or nicks.
- Ensure keeper / gate is not bent, is free of burrs, not packed with snow or ice, and that snap hooks / carabiners are clean and functioning properly.

## LENGTH ADJUSTING DEVICE (LAD) INSPECTION:

- Unit is free of cracks – (usually depicted by fine jagged lines) and extensive wear or corrosion to cam lever, housing, or cam lever eye.
- The spring is assembled into the cam lever and body correctly.
- Ensure that the cam lever is installed in the proper orientation to the body (cam lever must be mounted in the same direction as shown in the sketch on the side of Length Adjusting Device (LAD)).
- Ensure that the centerlock nut is securely attached to the shoulder bolt. The bolt should be above or flush with the surface of the nut.
- Proper operation of mechanism by pivoting cam lever back and forth. Movement should be unrestricted with no binding. Binding could be caused by burrs, packed snow, or ice. A burr can be removed by disassembling the Length Adjusting Device (LAD) and lightly sanding the burr down with fine grit emery cloth.

NOTE: Also read and follow other instructions, warnings, and inspection guidelines enclosed with this product.

If any evidence of wear or deterioration as outlined above is observed, immediately cease use, destroy the product, and replace it with new equipment. Should any unusual conditions not outlined above be observed, or you have reasonable doubt about a particular condition, remove the equipment from service and notify your Supervisor, Safety Director, or contact Buckingham Mfg. Co. for clarification. Failure to carefully and completely inspect your equipment could result in serious injury or death.

Be sure to perform a trial test while standing on the ground to ensure the LAD properly grips the rope / locks prior to climbing.

## ADJUSTABLE POSITIONING LANYARD ATTACHMENT: (OPTIONS & HARDWARE MAY VARY FROM PRODUCT SHOWN BELOW)

### Proper Attachment



Fig.15



Fig.16a

### Examples of Improper Attachment



Fig.16b



Fig.17

Proper Attachment: Carabiner and locking snaphook must be attached to work positioning D-rings as shown in Fig. 15. Gates of the carabiner and locking snaphook must be facing out.

Examples of Improper Attachment: Do not connect locking snaphook to anchor point other than work positioning D-rings. See Fig. 16a & 16b. Do not connect Adjustable Positioning Lanyard back onto itself and use as a cinch or choking device. See Fig.17.

## TO OPERATE:

1. Ensure Adjustable Positioning Lanyard is properly attached by leaning back slowly. Unit should support user.
2. To shorten the Adjustable Positioning Lanyard, lean slightly into the pole, tree, or other structure while pulling the free end of the rope through the cam lever and towards the same (Fig.18).
3. To lengthen the Adjustable Positioning Lanyard, slightly lean into the pole, tree, or other structure, to relax tension on the cam lever, slowly depress the cam lever towards the pole, tree, or other structure while leaning back slowly. (Fig.19).
4. While climbing above or below obstructions adjust Adjustable Positioning Lanyard to minimize fall distance to under two feet (2').



Fig. 18



## Warnings:

- Know the job and the regulations governing performance requirements and select the proper equipment.
- Read carefully, understand, and heed these and all other included instructions, warnings, and cautions before using this equipment. Failure to do so could result in your serious injury or death. Should questions arise concerning the proper use or condition of your equipment, contact Buckingham Manufacturing Co. at 1-800-937-2825.
- All affixed labels should be left in place and all instructional material kept for future reference.
- This equipment is intended for use by properly trained professionals only.

- This product is designed to be used by a person with a maximum weight of 400 lbs. when fully equipped.
- For personal use only. NOT for towing or hoisting.
- Fall protection equipment, (i.e. fall arrest, work positioning belts, climbers, retrieval, suspension etc.) should not be resold or provided to others for re-use after use by original user as assurance cannot be granted that a used product meets criteria of applicable standards and is safe for use to a subsequent user.
- Be certain this equipment is suitable for the intended use and work environment. It should only be used as personal protection equipment (PPE). If suitability for intended use is in doubt, consult a safety engineer or contact Buckingham Mfg. before using.
- Destroy any and all equipment subjected to impact loading.
- Always attach each snap hook of the positioning strap to the proper circle D-ring of the body belt.
- Do not attach work positioning snap hooks to accessory rings. Accessory rings are intended for attachment of a belt supporter only. Note: Belt supporters are intended to distribute belt weight of users who carry an unusually heavy load of tools. Belt supporters are not intended to support the weight of the user.
- As outlined by OSHA 1926.502 (e)(2) positioning devices shall be secured to an anchorage capable of supporting at least twice the potential impact load of an employee's fall or 3,000 lbf. (13.3 kN), whichever is greater.
- Manufactured to the following standards / regulations as they are applicable ASTM F887 / ANSI Z359.3 / OSHA 1926.959 / CA. OSHA 2940.6
- The Adjustable Positioning Lanyard is only one component / element of a positioning system outlined by ASTM F887 / ANSI Z359.3.
- Avoid contact of this equipment with sharp edged or pointed tools, high temperature surfaces, welding or other heat sources. (Be aware of the lanyards position / placement on the pole or tree at all times in relation to the operations being performed. Use extreme caution when performing operations such as cutting, drilling, sawing, etc. Always perform this type of work well above the lanyard to avoid the potential of tool contact with the lanyard, causing damage which may result in a fall, serious injury or death).
- Avoid contact of this equipment with chemicals which may damage the material. If in doubt, contact supplier or Buckingham Mfg. Co.
- Guard against debris which could block the action of the cam (pebbles, twigs, ice, snow, etc.).
- If ice or snow buildup is noted, run the adjusting device along the length of the rope to remove the build-up and ensure the adjusting device is clean and free of packed snow or ice.
- Only Buckingham Mfg. Co., or those authorized in writing by Buckingham Mfg. Co., may make repairs / modifications to this equipment.
- Remove from service if subjected to impact loading. Even though no visible signs are present, internal damage may have occurred thus reducing its strength and margin of safety.
- This product is intended for work positioning only.
- The arrow on the housing should always point away from the user & towards the attached locking snaphook. **Note:** - Improper orientation of the LAD will result in the loss of locking action required to maintain adjustment of the rope when in use.
- The cam lever must be installed in the body in the same direction as shown in the sketch on the LAD body. **Note:** - Improper orientation of the cam lever will result in the loss of locking action required to maintain adjustment of the rope when in use.
- Center lock nut is not to be re-used after initial loosening or removal.
- LAD shall not be used on steel cable or wire rope.
- In the event of a cutout and if the cam lever of the LAD is held in the open position, rope will continue to feed through unit. Therefore, cam lever must be released for rope to stop feeding through LAD.
- Never use the Adjustable Positioning Lanyard where contact of the rope with sharp edges, corners or abrasive surfaces are likely. Sharp and abrasive surfaces may include but not be limited to (sheet metal, steel, concrete, block, stone, laminated materials etc.)
- Never wrap an Adjustable Positioning Lanyard around a sharp member as the material could be cut or damaged.
- Units manufactured with Anti Wear Tubing intended to minimize wear (i.e. abrasion, cuts, etc.) to the rope is intended for use on poles, trees, and other structures. When used for this function, ensure Anti Wear Tubing is adjusted properly to cover all contact points of pole, tree, or structure.
- With each use, visually check that the Adjustable Positioning Lanyard snap hook / carabiner freely engages the body belt circle D-ring and that the keeper / gate is completely closed and facing outward. Never rely solely on the feel or sound of a snap hook / carabiner engaging.
- Make sure each snap hook / carabiner is positioned so that its keeper / gate is never load bearing.
- When in the work position, ensure there is no pressure on the snap hook locking mechanism sufficient to depress it as this will, due to its length, render it incompatible with currently designed D-rings and make it very susceptible to rollout.
- Lubricate lock mechanism and keeper on both sides of snap hook at least weekly or as often as required to maintain smooth operation (no binding) with light weight lubricant such as BuckLube, WD-40®, Etc.
- Product covered under these instructions / warnings should not be resold / redistributed or re-used after use by original user.

# Buck LeverJust™

## PN 9M8-8 ADJUSTABLE POSITIONING LANYARD (APL)

The **Buck LeverJust™** APL is available in 1/2" (12.7mm) Kernmantle rope (Fig. 1) and 11.65mm TrebleKern rope (Fig. 2) and 1/2" XTC rope (not shown)



Fig. 1



Fig. 2

**INSPECT PRIOR TO EACH USE:** INSPECTION SHOULD INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

### ROPE INSPECTION:

- Inspecting your rope should be a continuous process of observation before, during, and after each use.
- Inspect rope fibers for signs of excessive wear, burns, cuts, abrasions, kinks, knots, hockling, ice buildup, broken strands in any given area of the rope.
- If ice or snow build-up is noted, remove build-up prior to use by running the length adjusting device along the length of the rope. Ensure the length adjusting device is clean and free of packed snow or ice.
- Both outer and inner fibers contribute to the ropes strength. If either is worn, the rope will naturally be weakened. Open the rope strands and look for powdered fiber, which is one sign of internal rope wear.
- Inspect the rope for frayed strands and broken yarns. Check for pulled strands. A pulled strand should be re-threaded into the rope if possible, otherwise it may snag on a foreign object during use.
- Inconsistent texture or stiff areas can indicate excessive dirt / grit embedded in the rope or shock load damage. Check that rope has not become hard or compacted. A hard or compacted rope indicates reduced strength.
- Inconsistent diameter (flat areas, bumps, or lumps). This condition indicates core or internal damage from overloading or shock loading.
- With use, all ropes become dirty. Inspect for areas of discoloration that could have been caused by chemical contamination and may result in the rope becoming brittle or stiff.
- Glossy or glazed areas that generally indicate signs of heat damage.
- Rope stitching is free of defects. Stitched eyes must have a protective cover (shrink tube) over the stitching and the cover must not be damaged, missing or torn. (Fig. 3).
- Do not use lanyard that has the ropes warning center / core exposed.

Fig. 3



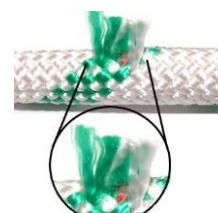
See below photo for examples of a variety of conditions indicated above that require product replacement:



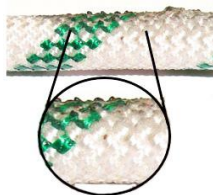
Hockled Rope



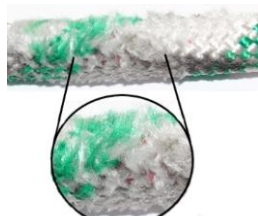
Rope with a Pulled Strand



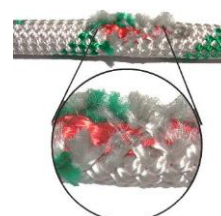
Rope with Broken or Cut Strands



Melted / Glossy / Glazed Strands



Rope with Excessive Abrasion Wear



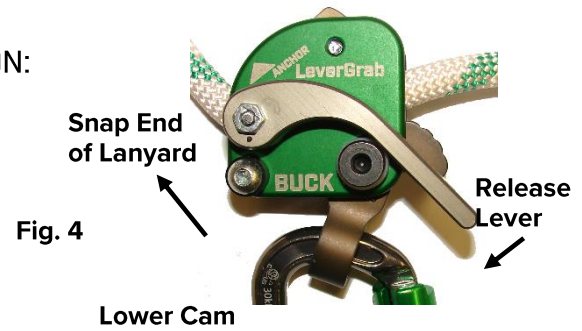
Rope with Warning Center (Red) Exposed

### SNAP HOOK / CARABINER INSPECTION:

- Ensure locking device and keeper / gate operates freely and smoothly and that keeper / gate closes and remains closed and locked until intentionally opened.
- Inspect to ensure component is free of cracks, distortion, corrosion, or nicks.
- Ensure keeper / gate is not bent, is free of burrs, not packed with snow or ice, and is clean and functioning properly.

## BUCK LEVERGRAB™ LENGTH ADJUSTING DEVICE (LAD) INSPECTION:

- Unit is free of cracks – (usually depicted by fine jagged lines) and extensive wear or corrosion to cam, or housing.
- Lanyard is properly installed into LAD, snap end of lanyard exits the LAD with the anchor arrow facing the snap end (Fig. 4).
- Proper operation of mechanism by pivoting release lever back and forth. Movement must be unrestricted with no binding. Binding could be caused by burrs, packed snow, or ice.
- Ensure all bolts, nuts and screw are properly in place and tightened.



If any evidence of wear or deterioration as outlined above is observed, immediately cease use, destroy the product, and replace it with new equipment. Should any unusual conditions not outlined above be observed, or you have reasonable doubt about a particular condition, remove the equipment from service and notify your Supervisor, Safety Director, or contact Buckingham Mfg. Co. for clarification. Failure to carefully and completely inspect your equipment could result in serious injury or death.



It is imperative that you perform a trial test while standing on the ground to ensure the LAD properly grips the rope / locks prior to climbing.

## ADJUSTABLE POSITIONING LANYARD ATTACHMENT:

### Proper Attachment



### Examples of Improper Attachment



Proper Attachment: connecting hardware of APL must be attached to work positioning D-rings of your body belt as shown in Fig. 5. Gates of the carabiner and locking snaphook must be facing out.

Examples of Improper Attachment: Do not connect Adjustable Positioning Lanyard back onto itself and use as a cinch or choking device (Fig. 6). Do not connect lanyard to a single work positioning D-ring (Fig. 7).

## TO OPERATE:

1. Ensure Adjustable Positioning Lanyard is properly attached by holding onto the pole and leaning back slowly into the unit. Unit should support user.
2. To shorten the Adjustable Positioning Lanyard, lean slightly towards the pole, tree, or other structure while pulling the free end of the rope through the Buck LeverGrab™ LAD. (Fig. 8).
3. To lengthen the Adjustable Positioning Lanyard, slowly rotate the release lever towards your body until the rope feeds through the LAD, lengthening the lanyard, release lever to stop at your desired position (Fig. 9). Use caution when lengthening device as the LAD will not stop until the lever is released or you reach the sewn termination at the end of the lanyard.  
Alternate method to lengthen Adjustable Positioning Lanyard: lean slightly towards the pole, tree, or other structure, grasp housing of LAD and rotate entire device towards your body as you rotate your hip backwards lengthening the lanyard (Fig. 10).
4. While using the Adjustable Positioning Lanyard, adjust length to minimize fall distance to under two feet (2').



## LeverGrab Carabiner Positioning



LeverGrab positioned on left side with Carabiner oriented as it leaves the factory (Right hand adjustment set-up).



LeverGrab positioned on left side with Carabiner reversed (Left hand adjustment set-up)

### A. TO REMOVE THE CARABINER FROM RIGHT HAND ADJUSTMENT SET-UP

1. With the handle of the LeverGrab (Green face plate) facing up (Fig. 11)
2. Rotate the carabiner clockwise (Fig. 11 – 12).
3. Open barrel of carabiner and rotate the carabiner clockwise out of the eye of the LeverGrab eye (Fig. 13 – 14).



### B. TO INSTALL THE CARABINER FOR LEFT HAND ADJUSTMENT SET-UP

1. With the handle of the LeverGrab (Green face plate) facing up (Fig. 15).
2. Open the barrel of the carabiner and rotate the carabiner clockwise into the eye of the LeverGrab eye (Fig. 15 – 16).
3. Continue to rotate carabiner clockwise until the carabiner is properly positioned (Fig. 17 – 18).

Fig. 15



Fig. 16



Fig. 17



Fig. 18



## Warnings:

- Know the job and the regulations governing performance requirements and select the proper equipment.
- Read carefully, understand, and heed these and all other included instructions, warnings, and cautions before using this equipment. Failure to do so could result in your serious injury or death. Should questions arise concerning the proper use or condition of your equipment, contact Buckingham Manufacturing Co. at 1-800-937-2825.
- All affixed labels / markings should be left in place / unaltered and all instructional material kept for future reference.
- This equipment is intended for use by properly trained professionals only.
- This product is designed to be used by a person with a maximum weight of 400 lbs. when fully equipped.
- For personal use only. NOT for towing or hoisting.
- Fall protection equipment, (i.e. fall arrest, work positioning belts, climbers, retrieval, suspension etc.) should not be resold or provided to others for re-use after use by original user as assurance cannot be granted that a used product meets criteria of applicable standards and is safe for use to a subsequent user.
- Be certain this equipment is suitable for the intended use and work environment. It should only be used as personal protection equipment (PPE). If suitability for intended use is in doubt, consult a safety engineer or contact Buckingham Mfg. before using.
- Destroy any and all equipment subjected to impact loading.
- Always attach each snap hook / carabiner of the Adjustable Positioning Lanyard to the proper D-ring of the body belt.
- Do not attach work positioning snap hooks / carabiner to accessory rings. Accessory rings are intended for attachment of a belt supporter only. Note: Belt supporters are intended to distribute belt weight of users who carry an unusually heavy load of tools. Belt supporters are not intended to support the weight of the user.
- As outlined by OSHA 1926.502 (e)(2) positioning devices shall be secured to an anchorage capable of supporting at least twice the potential impact load of an employee's fall or 3,000 lbf. (13.3 kN), whichever is greater. Additionally, reference ANSI Z359.2 anchorage requirements.
- Product is manufactured to meet the following standards / regulations as they are applicable: ASTM F887 / OSHA 1926.959 / CA. OSHA 2940.6 / ANSI Z359.3.
- The Adjustable Positioning Lanyard is only one component / element of a positioning system outlined by ASTM F887.
- Avoid contact of this equipment with sharp edged or pointed tools, high temperature surfaces, welding or other heat sources, electrical hazards or moving machinery. (Be aware of the lanyards position / placement on the pole or tree at all times in relation to the operations being performed. Use extreme caution when performing operations such as cutting, drilling, sawing, etc. Always perform this type of work well above the lanyard to avoid the potential of tool contact with the lanyard, causing damage which may result in a fall, serious injury or death).
- Avoid exposing equipment to chemicals which may produce a harmful effect. Contact manufacturer if in doubt of damage by chemical exposure.
- Guard against debris which could block the action of the cam (pebbles, twigs, ice, snow, etc.).
- If ice or snow buildup is noted, run the adjusting device along the length of the rope to remove the build-up and ensure the adjusting device is clean and free of packed snow or ice.
- Only Buckingham Mfg. Co., or those authorized in writing by Buckingham Mfg. Co., may make repairs to this equipment.
- Remove from service if subjected to impact loading. Even though no visible signs are present, internal damage may have occurred thus reducing its strength and margin of safety.
- This product is intended for work positioning only.
- Buck LeverGrab™ LAD must not be used on steel cable or wire rope.
- Holding the Release Lever of the Buck LeverGrab™ LAD in the open position, will result in the rope to continue to feed through the unit. Therefore, in the event of a cutout, the Buck LeverGrab™ LAD Release Lever must be released for rope to stop feeding through LAD.
- Never wrap an Adjustable Positioning Lanyard around a sharp member as the material could be cut or damaged.
- The optional wear guard is intended for use on poles, trees, and other structures to minimize wear (i.e. abrasion, cuts, etc.) to the rope. Ensure the wear guard is adjusted properly to cover all contact points of pole, tree, or structure.
- With each use, visually check that the Adjustable Positioning Lanyard snap hook / carabiner freely engages each body belt positioning D-ring and that the keeper / gate is completely closed and facing outward. Never rely solely on the feel or sound of a snap hook / carabiner engaging.
- Ensure each snap hook / carabiner is positioned so that its keeper / gate is never load bearing.
- When in the work position, ensure there is no pressure on the snap hook locking mechanism sufficient to depress it, as this will due to its length, render it incompatible with currently designed D-rings and make it very susceptible to rollout.
- Lubricate lock mechanism and keeper / gate on both sides of snap hook / carabiner at least weekly or as often as required to maintain smooth operation (no binding) with light weight lubricant such as BuckLube, WD-40®, Etc.
- Do not use lanyard for material handling purposes.
- Product covered under these instructions / warnings should not be resold / redistributed or re-used after use by original user.

Patented, for more information, visit [BuckinghamMFG.com/Patents](http://BuckinghamMFG.com/Patents).

# **BuckAlloy Instructions**

PN A94089AQ400-MS ALUMINUM CLIMBERS

## **READ CAREFULLY**

- Buckingham climbers are not intended for, and not to be used by, individuals not properly trained. Use by such persons could cause a fall and result in serious injury or death.
- This product is designed to be used by a person with a maximum weight of 400 lbs. when fully equipped.
- Proper fit of the climber requires that the leg iron, with pad attached, extend from the instep to about ½” below the bottom of the inside projection of the knee joint.
- Buckingham climbers are manufactured in accordance to the ASTM F887 standard.
- Climbers are designed and intended to be used for ascending, descending, and maintaining the working position on poles or trees. Kicking or jamming gaffs into a pole or tree should be avoided. When descending, do not take long steps, jump or try to coast or slide, as this could shorten product use life or may cause the climber to break which may result in a fall leading to serious injury or death.
- Buckingham recommends completing the plane and pole cut out test defined by the ASTM F887 standard when climbers are first received, and whenever gaffs have been maintained. Also as stated in OSHA 1910.268 (g)(2)(iii) a gaff cut-out test shall be performed at least weekly when in use.
- The point of the gaff should function as a chisel, cutting its way into the pole or tree. It should not have to be driven like a spike or needle. Spike or needle pointed gaffs, due to the reduction in cross-sectional area, may break or cause you to cut-out and may result in a fall and cause serious injury or death.
- Pole climbers have relatively short gaffs (approx. 1-1/2 inches). Tree climbers have relatively long gaffs (approx. 3-1/2 inches for permanent gaff type, approx. 2-1/2 inches for replaceable gaff type) so they can penetrate tree bark and reach solid trunk wood.
- Gaff lengths when measured on the underside must not be less than 1-1/4" for pole gaffs (OSHA 1910.268(g)(2)(i) or 2 1/4" for tree gaffs.
- Buckingham Mfg. understands that under certain circumstances, pole gaffs are used to climb trees. These circumstances should be limited to climbing thin bark hardwoods such as Maple, Beech, Dead wood, or while working near the top of a tree where the bark has a tendency to be thinner. Only replaceable pole gaffs should be used on trees as they have a slightly longer length and greater projection from the climber shank than the permanent pole gaff. Use extreme caution while using replaceable pole gaffs on trees.
- Wear high quality climbing boots which are specifically designed for climbing application.
- Adjust climber straps securely for optimum fit around your feet and legs. Straps should be snug but never so tight as to restrict circulation.
- When climbers are not in use, place gaff guards over the gaff points to protect equipment and the handler (OSHA 1910.268(g)(2)(i).
- Store climbers separately from other climbing equipment.
- This equipment should be a personal issue to the employee using it.
- Keep climber sets together. Fasten them together when they are stored or transported. Never climb with a mix matched set of climbers.
- Carry the climbers to the base of the pole or tree. Remove the gaff guards from the climbers and place them near the base of the pole or tree for attachment. After dismounting, immediately remove your climbers and place gaff guards over the gaffs. To minimize the danger of personal injury and / or damage to the equipment, never walk around while wearing climbers.
- Pole climbers may not be worn when working on ladders, in aerial lifts, while driving a vehicle or walking on rocky, hard, frozen, brushy or hilly terrain (OSHA 1910.268(g)(2)(iv).
- Do not paint climbers. Paint can hide defects that can cause premature failure.
- The care, inspection, and proper use of safety equipment is the responsibility of you, the user, therefore:
  - ◆ Take proper care of your equipment at all times.
  - ◆ Use equipment for its intended purpose only.
  - ◆ Properly dispose of equipment unsafe for use.
- Fall protection equipment, (i.e. fall arrest, work positioning belts, climbers, retrieval, suspension etc.) should not be resold or provided to others for re-use after use by original user, as assurance cannot be granted that a used product meets criteria of applicable standards and is safe for use to a subsequent user.
- Ensure proper fit / size of product before use. This product cannot be returned unless it is in new / unused condition. Unauthorized modifications to the climbers such as but not limited to drilling, bending, twisting, etching, or scribing may reduce climber strength causing fracture or breakage. Therefore, product that has been modified or altered by customer misuse cannot be returned.



## CLIMBERS WITH DOWEL & SCREW ATTACHMENT GAFFS:

Dowel & screw attachment style (Fig. 1) consists of three circular holes in the leg iron. The top and bottom holes are used for the gaff attachment screws and the center hole for the gaff dowel. This style is supplied with two 5/16"-18 x 7/8" long gaff attachment screws.

Note: Ensure the Gaff dowel is securely seated in gaff prior to attaching to leg iron.

Hand tighten the bottom gaff screw (nearest the gaff tip). Repeat hand tightening on the top gaff screw. Tighten using a 3/16" x 4" length Allen wrench (with maximum torque to achieve complete and maximum tightness, this method can yield Buckingham's 235 inch pound tightening recommendation for these screws). Note: use of a longer wrench can yield results exceeding the 235 inch pound recommendation and result in stripping and / or fracture of the screw head. Visually inspect to ensure screw heads are flush with the inside surface of the climber leg iron. Gaff attachment screws should be replaced after the first time removed, but if re-using, apply a low to medium strength thread sealant (Loctite® or equivalent) to prevent the screws from loosening. Screws may not be removable if a permanent type thread sealant is used.



**Fig. 1**

If you require additional instructions or should questions arise concerning the proper use or condition of your equipment, contact Buckingham Manufacturing Co. at 1-800-937-2825.

## INSPECTION:

Leg irons and gaffs must be inspected, maintained, and replaced by the user at regular intervals. This interval should be dictated by the amount of use the product receives rather than a set time frame. Therefore, Buckingham does not place a time limit on these operations. Due to the rigorous strain leg irons and gaffs endure, inspection is extremely important.

Climbers (pole and tree) must have properly shaped gaffs. Never file the gaff to a needlepoint. When necessary to shape the gaff, it should be filed lengthwise on the flat underside. Crosswise file marks on a gaff cause stress risers, weaken the steel, and may result in a broken gaff. Never file on the beehive (rounded) side of a gaff, this will result in a mis-shaped gaff. Use a honing stone to repair minimal damage to the gaff (gaffs are nicked or damaged from contact with nails or pole hardware).

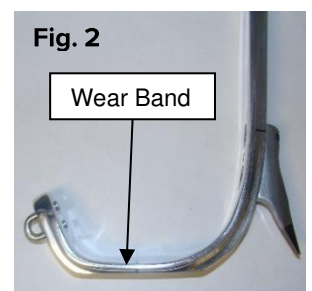
An improperly shaped gaff can cause cut-out, a fall, and serious injury or death. Use Buckingham P/N 6303 gaff gauges for all pole climbers with standard and CCA Gaffs.

Complete gaff maintenance kits are also available (P/N 6025 for standard pole and CCA gaffs).

Note: Buckingham gaffs from the tip to approximately 1" up the gaff are coated with a rust inhibitor, as opposed to powder coating used on the remainder of the gaff, to aid in gaff penetration and proper gauging. The gaff gauge is recommended for use to check the gaff anytime other damage and / or excessive wear is suspected.

Climbers should be checked for but not be limited to the following before each use:

- Gaffs are not loose, cracked, or broken.
- Leg irons are not cracked, damaged and/or exhibit burn marks.
- Gaffs are properly attached to the climber leg iron using appropriate hardware.
- Gaff dowel is in place and properly seated in leg iron.
- Both gaff attachment screws are in place and are properly tightened.
- Climber straps are properly attached, are in good condition and as a minimum, do not have cuts, kinks, abrasions, burns, excessive swelling, excessive wear, discoloration, charring, broken fibers, loose stitching, elongated holes, loose or damaged buckles or rivets or chemical or physical exposures, etc.
- Climber pads are properly attached and in good condition, have no broken stitching, rivets, or loops. If equipped with hook and loop style pads ensure that the hook and loop is not worn or excessively dirty and that it properly adheres to itself.
- Sleeves are properly attached to the climber leg iron with the two barrel nuts and fasteners provided with the climber, are not cracked, or have broken or bent strap loops.
- Sleeves are adjusted for proper climber fit and are secured to the climber leg iron.
- Gaff length, width, thickness, point profile, and sharpness of cutting edges should be inspected with appropriate gauges which are available from Buckingham.
- Aluminum climber stirrup width should be inspected with the PN 6303 gauge. if the stirrup section is worn so severe that the worn surface reaches the wear band (see Fig 2), these climbers must be destroyed and replaced with new.
- As a general rule, assuming all inspection criteria is met, Buckingham recommends that all replaceable gaff climbers be replaced when the original gaff and one replacement set of gaffs have been worn out from normal use. Leg irons should be replaced, and gaffs should be maintained or replaced at the earliest signs of wear.



**Fig. 2**

If any evidence of excessive wear or deterioration as outlined is observed, immediately cease use, destroy the product, and replace it with new equipment. Should any unusual conditions not outlined above be observed, or you have reasonable doubt about a particular condition, remove the equipment from service and notify your Supervisor, Safety Director, or contact Buckingham Mfg. (1-800-937-2825) for clarification.

Failure to carefully and completely inspect your equipment could result in serious injury or death.

### **CLIMBER ASSEMBLY PAD ATTACHMENT:**

Notes: Leg iron and pads are marked 'L' and 'R'. Ensure you attach the left side pad to left side leg iron and right side pad to right side leg iron.

When assembling climbers to pads; because climber pad shank slots are made for a snug fit, twisting the shank on an angle will ease the climber shank into the shank slot of the pad.

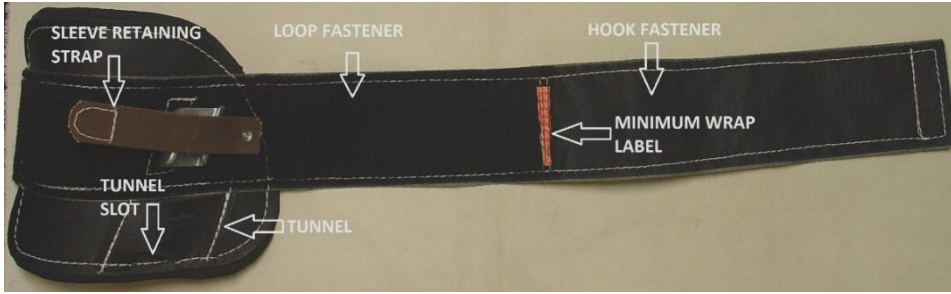
### **WARNINGS:**

- Completely read, understand, and follow all instructions, warnings, and guidelines pertaining to this and all associated equipment before use. Failure to do so could result in your serious injury or death.
- Buckingham climbers are not intended for, and not to be used by, individuals not properly trained. Use by such persons could cause a fall and result in serious injury or death.
- Only Buckingham Mfg. Co. or those people authorized in writing by Buckingham Mfg. Co. may make additions, alterations, modifications or repairs to this equipment.
- Buckingham Mfg. Co. prohibits the use of aftermarket components such as, but not limited to rope ascenders, replacement screws, etc. being used with Buckingham climbers.
- Buckingham climbers must not be drilled, tapped, riveted, bonded, welded or have any other means of attachment performed to or on the climber under any circumstance. Such modifications or use of aftermarket components shall void any and all warranties. Buckingham Mfg. Co. shall be held harmless for any injuries or deaths that may result from the use of such modified climbers or aftermarket components.
- Do not bend, etch, or scribe any component of the climber.
- Field modifications to the climbers, such as but not limited to, bending or twisting may reduce climber strength causing premature fracture or breakage. Therefore, any climber that has been permanently deformed, must not be re-straightened, but immediately removed from service.
- Marking from etching or scribing could cause the climber to break at the marked point. If this condition exists immediately remove climber from service.
- Climber accessories must be in good condition. Material shall be kept clean, and leather shall be properly oiled. Climbing equipment that shows signs of excessive wear, or cracking of components, should be immediately discarded.
- Sleeves must be properly attached to the climber leg iron using appropriate hardware (screw fastener, star washer and barrel nut) and two points of attachment. Tighten sleeve screw fasteners until snug. Do not over tighten, torque to 25 inch pounds maximum.
- No equipment lasts forever. Therefore, should you have any doubt about the safety of your equipment, replace it.
- Remove any climber from service that has come into contact with an electrical arc.
- Do not use aluminum alloy climbers with climbing boots that have a steel heel guard. The heel guard wears deeply into the stirrup of the climber and will require premature replacement of the leg irons.

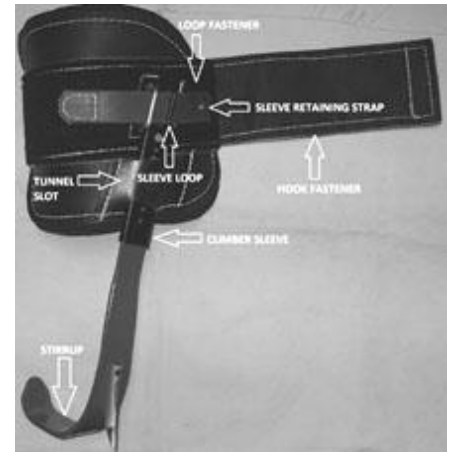
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# **BIG BUCK WRAP PADS**

MODEL NO. 32021C SERIES - ANGLED STYLE WRAP PAD



(Right Side shown)



## **ASSEMBLING PAD TO CLIMBER**

1. Squeeze the pad so the tunnel protrudes outward, away from the pad.
2. Properly orientate climber and push the sleeve (attached to climber) from the bottom upward until the sleeve loop is exposed in the tunnel slot.
3. Adjust the length of the climber using the adjustable climber sleeve so that the top of pad is 1/2" below the projecting knee bone. (Fig. 1)
4. Slide the sleeve retaining strap under the climber sleeve loop and metal insert loop and pull sleeve retaining strap through both loops.
5. Adhere the sleeve retaining strap to the loop fastener on the pad.



Fig. 1

## **ATTACHING PAD TO LEG**

1. Place your foot on the stirrup of the climber with padded fabric portion facing toward the inside of your leg.
2. To secure the pad to your leg, begin by threading the hook and loop strap through the steel loop. (Fig. 2 and Fig. 3)
3. Continue to pull the hook and loop strap through the steel loop until the pad is snug on the leg. Always ensure that the MINIMUM WRAP LABEL has been pulled through the steel loop. This ensures a proper wrap. Failure to do so may cause release, resulting in serious injury or death. (Fig. 3 and Fig.4)



Fig. 2



Fig. 3



Fig. 4



Fig. 5

4. Wrap the free end around the pad, adhering the hook fastener to the loop fastener on the body of the pad. (Fig. 4)

\*Note: Attach and fasten foot strap for climber after attaching pad to leg. (Fig 1 and 5)

# CUSHION WRAP PADS

## PN 35021c - CINCH STYLE PADS WITH ANGLED TUNNEL & STEEL INSERTS

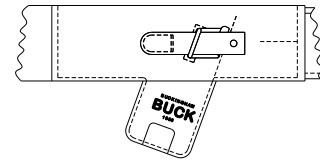
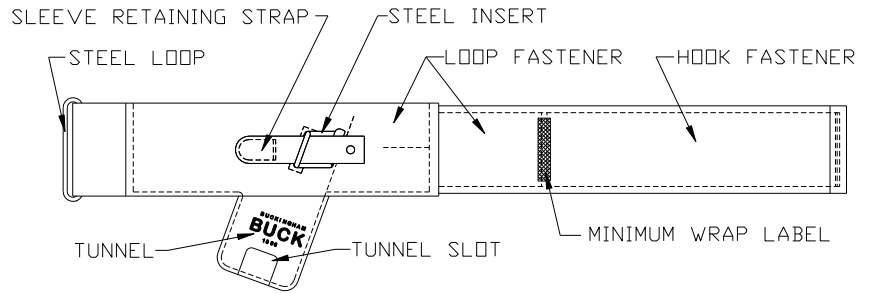
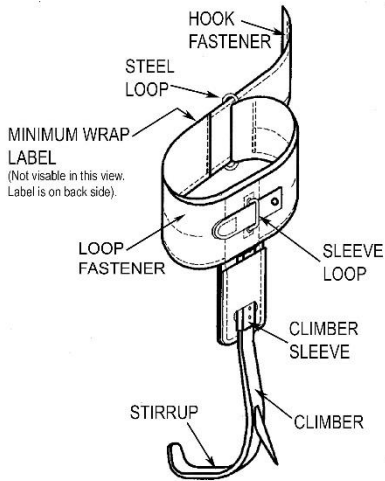


Fig. 1 ANGLED TUNNEL

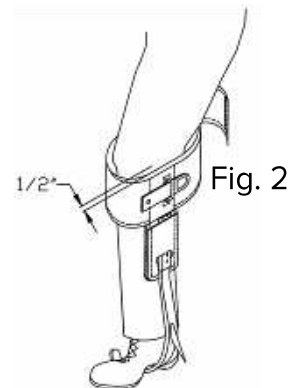


### ASSEMBLING PAD TO CLIMBER

1. Squeeze the pad so the tunnel protrudes outward, away from the pad.
2. Push the sleeve (attached to climber) from the bottom upward until the sleeve loop is exposed in the tunnel slot.
3. To ease weaving the sleeve retaining strap under the sleeve loop, first slide a piece of paper through the sleeve loop. Then slide the sleeve retaining strap under the sleeve loop. The paper will prevent the hook fastener on the strap from catching on the loop fastener of the pad. Pull paper and sleeve retaining strap through the sleeve loop together.
4. Remove the paper, attach the hook and loop fastener strap to the pad and you are now ready to attach pad to leg.

### ATTACHING CINCH STYLE PAD TO LEG

1. Place foot on the stirrup of the climber. The padded, leather portion of the pad should be toward the inside of the leg.
2. Adjust the length of the climber using the adjustable climber sleeve so that the top of pad is 1/2" below the projecting knee bone (Fig. 2).
3. To secure the pad to the leg, begin by threading the free end of the pad through the steel loop (Fig. 3).
4. Continue to pull the end of the pad through the steel loop until the pad is snug to the leg. *Always* ensure that the MINIMUM WRAP LABEL has been pulled completely through the steel loop (Fig. 4 and Fig. 5). Wrap the free end around the pad, adhering the hook fastener to the loop fastener on the body of the pad (Fig. 5). This ensures a proper wrap. Failure to do so may cause release, resulting in serious injury or death.



**Note:** Do not use product if the minimum wrap label does not properly protrude through the steel loop as instructed above. Contact Buckingham Mfg. for alternate option.

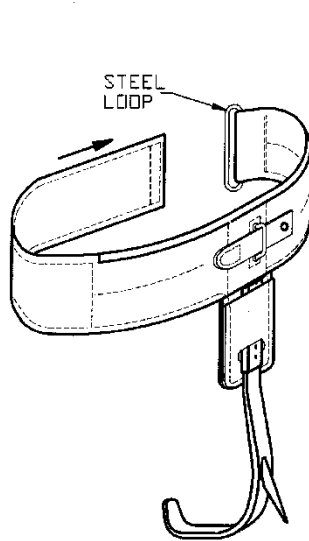


Fig. 3

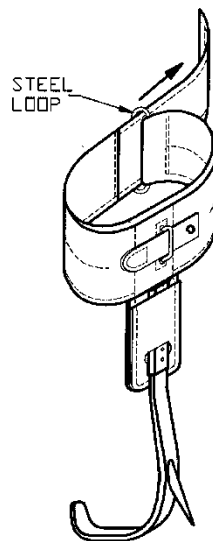


Fig. 4

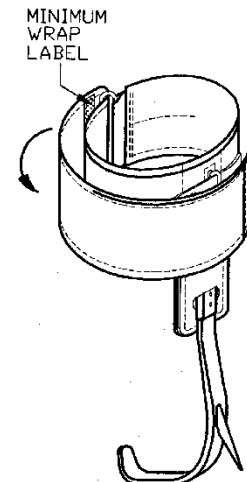


Fig. 5

### CLEANING:

Proper maintenance and storage of your equipment will prolong its useful life and contribute toward its performance. The equipment should be cleaned and maintained at regular intervals depending on usage.

**Nylon** - Clean with water and mild soap (a dish washing soap that removes grease (i.e. Dawn)) and allow to dry thoroughly without using excessive heat. Use Rainbow Cleaner and Degreaser (PN 4305) if the Woven Web becomes excessively dirty / coated with pole preservatives such as creosote / penta. Follow manufacturer's instructions. It may be helpful to gently scrub using a soft brush prior to rinsing. Rainbow products are available at [www.rainbowtech.net](http://www.rainbowtech.net).

Do not use any type of corrosive substance or acid, which will gradually eat away the fabric. **Note:** Rainbow cleaner is a highly flammable material. Therefore, manufacturer's directions and warnings must be followed. In addition, materials cleaned with this product must be thoroughly rinsed with water and allowed to dry prior to use.

**Leather** - Using a sponge, wash leather with saddle soap and water, then wipe with a clean damp cloth. Allow the leather to dry completely - avoid high temperature heat sources. After drying, the leather should be oiled with 100% Neatsfoot Oil, wiping off any excess with a dry cloth.

**Hook & loop fasteners** - Clean hook & loop fasteners with a soft bristle brush.

**Rope:** Dirty ropes should be washed and rinsed in clean water and allowed to air dry without using excessive heat.

### STORAGE:

These products should be stored in a clean and dry environment out of direct sunlight and away from extreme climate conditions. Do not store near solvents or corrosive chemicals. Buckingham Mfg. Co. recommends using appropriately sized storage bags when products are not in use. Ropes should be stored on racks or hooks to provide ventilation and should never be stored on concrete or dirt surfaces. Product with friction buckle (PN 483 / 484 series) when not in use, or when storing the unit, it is recommended that the friction buckle on the woven strap be adjusted out to the end of the strap to prevent rigid memory spots from forming in the woven strap due to the buckle being left in one position for extended periods of time.

### LUBRICATION:

Lubricate lock mechanisms, keepers and gates of Carabiners / Snaphooks at least weekly or as often as required to maintain smooth operation (no binding). Lubricate springs on LADs (WebGrab / BuckGrab or LeverGrab™ as often as required to maintain smooth operation. Use a lightweight lubricant such as BuckLube™, WD-40®, etc.

# LOCKING SNAPHOOK INSPECTION PROCEDURE:

- THOROUGHLY INSPECT EACH SNAPHOOK BEFORE EACH USE TO ENSURE:

- > Rivets have adequate head and are not loose such that function is compromised.
- > Snaphook is not cracked, corroded or distorted, ensure the gate (keeper) does not bind and properly seats in the bill.
- > Keeper is not bent or distorted, ensure it properly seats in the bill.
- > Keeper and lock mechanism are free of burrs.
- > Keeper and lock mechanism and rivet attachment points are properly lubricated.
- > Keeper extends into the bill, 3/16" min. (Fig. 1)
- > Keeper and lock mechanism springs are properly seated and aligned.
- > Roller turns freely and is not distorted.

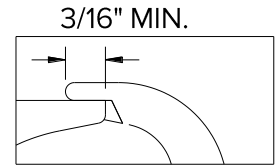


Fig. 1

- LUBRICATE lock mechanism and keeper on **both sides** AT LEAST WEEKLY or AS OFTEN AS REQUIRED to maintain smooth operation (no binding) with light weight lubricant such as BuckLube™, WD-40®, etc.

- LOCKING SNAPHOOKS FEATURE A SELF-CLOSING, SELF-LOCKING MECHANISM WHICH REMAINS CLOSED UNTIL UNLOCKED AND PRESSED OPEN FOR CONNECTION OR DISCONNECTION.

- > When the lock mechanism is not activated, the keeper should remain securely locked when depressed.

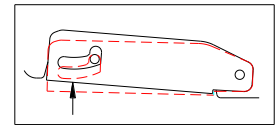


Fig. 2

- > Depress the lock mechanism. It should move downward easily and spring back to its original position without binding or sticking (Fig. 2).

- > Depress the keeper and lock mechanism simultaneously, (Fig. 3), checking for:

- >> ease of movement — no binding
- >> keeper unlocks completely
- >> keeper opens completely, moves through its full range of motion smoothly, and returns to its original position within the bill.

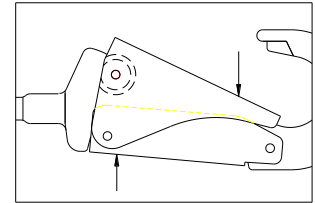


Fig. 3

- > Move the keeper side to side to check for excessive side movement (Fig. 4). Side movement is excessive if the keeper hangs up on the tab of the split bill (Fig. 5)

- **NOTE:** MISUSE / ABUSE OF THIS PRODUCT COULD LEAD TO IMPROPER FUNCTIONING WITH RISK OF INJURY!!! NEVER ATTEMPT TO ALTER OR MODIFY A SNAPHOOK TO BYPASS THE LOCK MECHANISM!!!

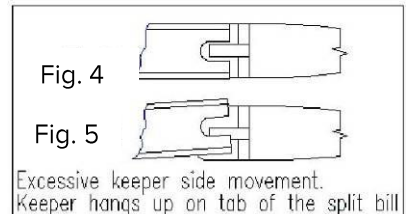
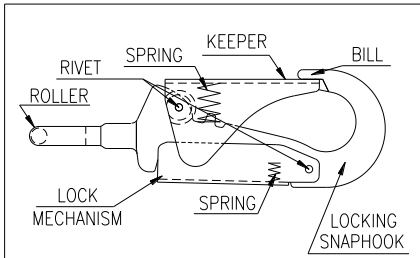


Fig. 4

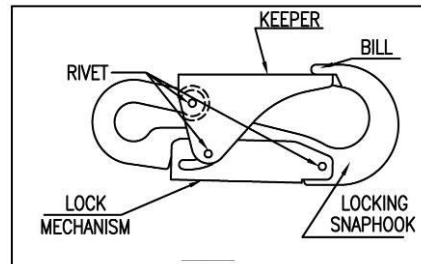
Fig. 5

Excessive keeper side movement.  
Keeper hangs up on tab of the split bill

Hardware shown may vary.



LOCKING POSITIONING STRAP SNAPHOOK



LOCKING SNAPHOOK (LINKLESS CONNECTION)

**NOTE:** Ensure proper fit / size of product before use. This product cannot be returned unless it is in new / unused condition.

## STATEMENT of OBSOLESCENCE:

Precise “useful life expectancy” or “shelf life” for this product is not specified, as the degree of use, conditions of use, and the degree of care and storage determines useful life. All users maintain responsibility to select proper equipment for the job, be properly trained in its use, and ensure all personnel support equipment passes inspection before each use. Upon evidence of defects, damage or deterioration, all equipment shall be removed from service immediately and tagged or marked as unusable or destroyed. Additionally, all equipment shall be inspected on a regular basis not to exceed one year by a Competent Person, as defined by OSHA/ANSI, to verify that the equipment is safe for use. In the event of any question or concern regarding the condition of such equipment, users shall remove the equipment from service for further inspection. All users must comply with OSHA/ANSI/ASTM standards prior to and in using such equipment. For more information regarding safe and appropriate use of equipment, please contact Buckingham Manufacturing at 1-800-937-2825.

## INTERNATIONAL USERS:

Notwithstanding the above, please know that certain international jurisdictions require manufacturers of equipment to provide customers with a maximum useful lifespan (sometimes referred to as a “Statement of Obsolescence”). To the extent required, Buckingham personal protective equipment manufactured from synthetic fiber materials including but not limited to items such as webbing and/or rope are subject to a maximum useful lifespan of ten (10) years from the date of manufacture. As stated above proper usage, storage, maintenance, and care impacts the useful lifespan of equipment. Extreme circumstances may require that product must be retired after only one use. This statement is made in conformance and compliance with BS EN 365:2004. International users must ensure that product inspections are completed by Competent Persons as defined by international standards including but not limited to British Standard (“BS”). If equipment fails any inspections, it must be immediately withdrawn from service and destroyed. For more information regarding safe and appropriate use of equipment, please contact Buckingham Manufacturing at 1-800-937-2825.

## OUR GUARANTEE:

We guarantee the equipment we manufacture to be free from defects in material and workmanship. We will repair any equipment deemed to be defective which is returned to us by the original purchaser. However, this guarantee is void if any product is changed or altered in any way, or if the product is used in a manner other than for which it is intended. This express guarantee supersedes all other expressed or implied guarantees, obligations or liabilities. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND AS SUCH, ALL IMPLIED WARRANTIES ARE SPECIFICALLY DISCLAIMED.

## LIMITATION ON LIABILITY:

IN NO EVENT WILL BUCKINGHAM OR BUYER BE LIABLE TO THE OTHER FOR LOST REVENUES, LOST PROFITS OR ANY OTHER INDIRECT, CONSEQUENTIAL, SPECIAL OR PUNITIVE LOSSES OR DAMAGES, HOWEVER CAUSED, WHETHER IN ACTION FOR BREACH OF CONTRACT, STRICT LIABILITY, TORT, OR OTHERWISE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH LOSSES OR DAMAGES. IN NO EVENT WILL BUCKINGHAM'S LIABILITY EXCEED THE TOTAL AMOUNT PAID BY BUYER TO BUCKINGHAM FOR THE PRODUCT OR EQUIPMENT GIVING RISE TO SUCH CLAIM(S).

PLEASE SEE OTHER TERMS AND CONDITIONS RELATING TO THIS PRODUCT AT  
<https://buckinghammfg.com/terms-conditions/>

## REGISTRATION:

Before use of the product, ensure to register and confirm the product at [www.buckinghammfg.com/register](http://www.buckinghammfg.com/register).

**BUCKINGHAM MFG.**  
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