

# Buckingham Mfg. Co.

## PN 4201 / 4202 Buck LineBacker Series INSTRUCTIONS / WARNINGS

The Buck LineBacker is specifically designed for the line worker who already has a Linemens Two 'D' Body Belt. Simply attach the LineBacker to your existing Linemens Two 'D' Body Belt to convert it into a Four D-ring Body Belt.

Four D-ring Body Belts are designed to be used with Wood Pole Fall Restriction Devices (WPFRD) and Adjustable Positioning Lanyards (APL) in order for the user to be continuously fall protected while performing tasks such as transitioning over obstructions such as crossarms.

The LineBacker can be added to any Linemens Body Belt to give you customizable lumbar support, an abdominal stabilizer system and the Four D-ring option.

The LineBacker, designed in consultation with a Doctor of Physical Therapy to promote immediate comfort and long term benefits to the skeletal structure, can be used with various positioning devices such as a conventional positioning strap, Adjustable Positioning Lanyard or retractable lanyard. Buckingham offers a complete and compatible system to your existing two D-ring Body Belt consisting of the LineBacker (converting your belt to a Four D-ring Body Belt), Wood Pole Fall Restriction Device (SuperSqueeze or BuckSqueeze) and an Adjustable Positioning Lanyard (BuckAdjuster). While working in a Wood Pole Fall Restriction Device (SuperSqueeze or BuckSqueeze) attached to the lower D-rings and the positioning device attached to the upper D-rings, the user is supported around the buttocks providing superior comfort. The lumbar pad offers additional support in the lower back area.



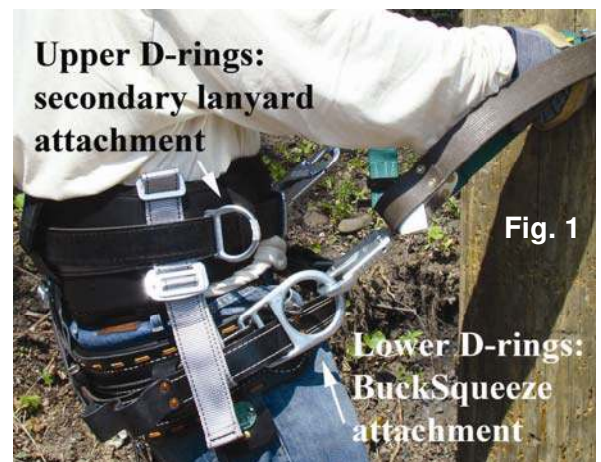
**LineBacker**



**LineBacker attached to a Linemens standard two D-ring Body Belt**

Using the **LineBacker**, **SuperSqueeze** or **BuckSqueeze** and **BuckAdjuster** the section below describes a suggested method for the user to be continuously fall protected while transitioning past obstructions. Ensure you read, understand and follow these instructions as well as those for Buckingham's SuperSqueeze or BuckSqueeze and BuckAdjuster prior to using this equipment.

- 1) The lower Body Belt D-rings are to be used with your primary positioning / WPFR device (Fig. 1).
- 2) The upper Body Belt D-rings are intended only as attachment points for temporary connection while transitioning past obstructions. It is an acceptable practice to stow a positioning device such as the BuckAdjuster or conventional positioning strap from one of the upper D-rings when not in use. The locking connecting device of the BuckAdjuster or conventional positioning strap must be attached to the same upper D-ring during stowage. An alternate method of stowage for the locking connecting device end of the BuckAdjuster is the use of a break-a-way handline hook. The use of the breakaway hook allows the locking connecting device end to pull free in the event it becomes snagged. If using a retractable lanyard, simply stow the webbing in the retracted position.



## How to Attach the Linebacker to a Linemens Two D-ring Body Belt:

- Lay the LineBacker flat inside down on a flat surface. Then lay the Body Belt flat and inside down on a flat surface directly below the Linebacker.
- Disconnect the three Body Belt Attachment Strap Interlocking Buckles of the linebacker (turn the smaller of the two buckles on an angle and slide it through the slot of the larger buckle towards the inside (Fig 2).
- Adjust the linebacker Body Belt attachment straps so they have sufficient slack to thread through the Body Belt (Fig. 3).
- Thread the LineBacker Body Belt attachment straps between the Body Belt D- piece strap and the belt strap of the Body Belt (Fig 4a and 4b) and wrap around the outside of the belt strap of the Body Belt. Re-connect the interlocking buckles as shown in Fig. 5. (Re-connect the interlocking buckles on each side by turning the smaller of the two buckles on an angle and sliding it through the slot of the larger buckle from the rear).
- Adjust the position of the LineBacker as needed by adjusting the length of the Body Belt attachment straps. Pull webbing through the interlocking buckle (to lower) or let webbing out (to raise).



Fig. 2



Fig. 3

## To Properly Don the LineBacker:

- ◆ Unfasten the Belt Strap. Separate the hook and loop fastener of the Abdominal Stabilizer.
- ◆ Place the belt around your back so that the lumbar pad fits snugly in the small of the back.
- ◆ Tighten stomach muscles and securely fasten hook & loop of the Abdominal Stabilizer together (when properly attached, belt should stay in place without belt strap attached).
- ◆ Fasten belt strap securely around the waist, ensure buckles are properly fastened and the billet end of the belt strap is in its keeper. (A belt should provide a snug fit around your body. The LineBacker is designed to be worn on the waist not on the buttocks like a conventional Body Belt). If this cannot be achieved, replace the belt with one that properly fits.
- ◆ Adjust position of the Body Belt, fasten belt strap securely around hips and insert billet end in keeper.
- ◆ Ideally the Body Belt should be positioned low around the buttocks.
- ◆ When using a Body Belt, the positioning circle D-rings should be equally spaced on either side of the body.

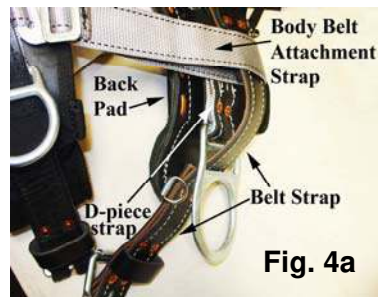


Fig. 4a



Fig. 4b



Fig. 5

## To Insert or Remove the Lumbar Pad: (PN 4201 Only, PN 4202 is non-removable)

- Open the Lumbar Pocket Closure by grasping the flap and separating the hook and loop fastener.
- Grasp the Lumbar Pad and separate the hook and loop fastener of the Abdominal Stabilizer and remove the pad or insert the pad and attach the hook and loop fastener.
- Fold the Lumbar Pocket Closure over to secure it to the Body Belt.



OVER

## **To Remove the Abdominal Stabilizer System: (PN 4201 Only, PN 4202 is non-removable)**

- Remove the Lumbar Pad as instructed above.
- Lay the LineBacker flat inside up on a flat surface.
- Fold the hook and loop fastener covered end of the elastic strap in half as shown in Fig. 6.
- Slide the elastic strap through the web keeper loop, through the Lumbar Pad pocket and the remaining web loop keeper and remove.

**Fig. 6**



## **To Climb Up To And Over An Obstruction During An Ascent Using The LineBacker, WPFRD (SuperSqueeze or BuckSqueeze) And An APL (Adjustable Positioning Lanyard):**

- Connect the WPFRD locking connecting devices to the lower Body Belt D-rings. Connect to ensure conformance to that outlined in WPFRD instructions.
- These locking connecting devices once connected, are not to be disconnected from the D-rings while climbing with the WPFRD.
- Connect the APL locking connecting devices to one of the LineBacker D-rings. As an alternative, connect one of the APL locking connecting devices to one of the LineBacker D-rings and the opposite end to a break-a-way handline hook.
- Ascend the pole until the obstruction is at approximately chest height.
- Ensure the locking connecting device at one end of the APL is properly attached to one D-ring of the LineBacker. Disconnect the opposite side locking connecting device of the APL from the LineBacker D-ring or break-a-way handline hook.
- Place the APL around the pole, **over** the obstruction and attach the connecting device to the opposite side D-ring of the LineBacker.
- Adjust (shorten) the length of the APL so that 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 lengthen 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 over the obstruction and the APL and around the pole.
- Reconnect the Serrated Rotosnap to the Outer Strap Connector.
- Adjust the WPFRD so the hardware locators are at the 3:00 and 9:00 o'clock positions
- Once the WPFRD is properly secured, lengthen the adjustment of the APL transferring your weight back into the WPFRD.
- Disconnect the locking connecting device of the APL from the LineBacker D-ring and connect it back to the LineBacker opposite side D-ring or break-a-way handline hook for stowage.
- Continue your ascent.
- To descend pole, follow the applicable sections of above procedure in reverse order.

## **Warnings**

- ◆ Know the job and the regulations governing performance requirements and select the proper equipment.
- ◆ Read and understand all instructions and warnings provided with product before use. Failure to do so could result in your serious injury or death. 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 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 350 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 locking connecting device of the SuperSqueeze, BuckSqueeze, positioning strap, retractable lanyard, Adjustable Positioning Lanyard, etc. to the proper circle D-ring of the Body Belt / LineBacker.
- ◆ Do not attach work positioning snap hooks / carabiners to accessory rings.
- ◆ Body Belts are intended for work positioning only. If the potential for a free fall exists, a Full Body Harness must be used.
- ◆ Do not use a Linemens work positioning belt for arborists work. Use an Arborist saddle designed for that application.
- ◆ 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 pounds (13.3 kN), whichever is greater.
- ◆ Avoid contact of this equipment with sharp edged or pointed tools, high temperature surfaces, welding or other heat sources.
- ◆ With each use, visually check that your SuperSqueeze, BuckSqueeze, positioning strap, retractable lanyard, Adjustable Positioning Lanyard, etc. locking connecting device freely engages each Body Belt / LineBacker circle D-ring and that the keeper is completely closed and facing outward (i.e. away from body). Never rely solely on the feel or sound of a snap hook / carabiner engaging.
- ◆ Attach only proper accessories to linemen's Body Belts / LineBackers. Accessories and tool pouches should only be attached to the Body Belt / LineBacker using the belt's accessory snaps, rings and pouch tabs. Keep all accessories and pouches well away from the circle D-rings.
- ◆ Use SuperSqueeze, BuckSqueeze, positioning strap, retractable lanyard Adjustable Positioning Lanyard, etc. only with belts meeting standards for intended use.
- ◆ Before each use check that: 1) unit is free of burns, cuts, abrasions, kinks, knots, broken strands and excessive wear. 2) snap hooks, carabiners, circle D-rings and buckles are not distorted or cracked. 3) snap hook / carbiner gate / lock mechanism is not bent, is free of burrs, clean and functioning properly. 4) your SuperSqueeze, BuckSqueeze, positioning strap, Adjustable Positioning Lanyard, etc. is not worn to the point of showing the red warning center. Remove from service, destroy and discard unit if it does not pass this inspection and replace immediately.
- ◆ Make sure each snap hook / carabiner is positioned so that its keeper is never load bearing.
- ◆ When in the work position, ensure there is no pressure on the snap hook / carabiner 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.
- ◆ Before use ensure locking mechanism of locking snap hook / carabiner is functioning properly. Never disable locking mechanism of the locking snap hook / carabiner, punch holes in or alter a connecting device in any way.
- ◆ Never work without independent fall-arrest protection if there is danger of a free fall.
- ◆ Employer - instruct employee as to proper use and warnings before use of equipment.
- ◆ Body Belt is manufactured in accordance to applicable OSHA regulations (1926.959, 1910.268, and 1910.269).
- ◆ Product covered under these instructions / warnings should not be resold / redistributed or re-used after use by original user.

#### **ADDITIONAL WARNINGS (Pertaining to Four D-Ring Body Belts):**

- Proper use is critical to the performance of the 4 D-ring system.
- Never mismatch D-rings by connecting the locking connecting device of your positioning strap, SuperSqueeze, BuckSqueeze, retractable lanyard, Adjustable Positioning Lanyard, etc. to an upper D-ring on one side and to a lower D-ring on the opposite side.
- Both upper and lower D-rings are intended for work positioning only, not fall arrest.

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

**OVER**

**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. Do not use any type of corrosive substance or acid, which will gradually eat away the fabric.

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.

**Storage:** A dirty product should be washed and rinsed in clean water, then air dried. Do not store near solvents or corrosive chemicals or at extreme temperatures. Inspect your equipment carefully before use. This product should be stored in a clean and dry environment out of direct sunlight and away from extreme climate conditions. When storing the LineBacker it is recommended the hook and loop fastener of the Abdominal Stabilizer be secured together. This minimizes dirt and debris coming in contact with the hook and loop thus extending its life.

### **Harness Attachment to the LineBacker (PN 4201 Only)**

Optional Full Body Harnesses are available for use with the LineBacker that attach by means of interlocking buckles. Order a harness with Body Belt attachment option 4C (**Interlocking Buckles see Fig. 7**) and attach as follows. Ensure you have read, understood and follow applicable harness instructions prior to using this equipment.



**Fig. 7**

- Connect the small interlocking buckle of the harness (Fig. 7) to the mating interlocking buckle of the Linebacker (Fig 8).
- Connect Interlocking buckles as shown in Fig 9a through 9c. (Tilt the smaller buckle away from the larger and insert it from the back side of the larger buckle. When small buckle starts through the slot of the larger buckle, the webbing should be touching as shown in Fig. 9b. Pull the smaller buckle completely through the larger so they lay flat to each other Fig. 9c.
- Don the Body Belt, raise the harness and slide it over your head.
- Attach the leg straps and connect the leg strap buckles.
- Connect the chest strap buckles.
- Adjust the webbing through the leg strap buckles until leg straps are comfortable but snug.
- Adjust the fit of the harness by pulling the webbing through the connecting buckles on the chest straps until the harness is comfortable but snug.
- Secure all loose webbing ends under the strap keepers.



**Fig. 8**



**Fig. 9a**



**Fig. 9b**



**Fig. 9c**

**BUCKINGHAM MFG. CO., INC.**

BINGHAMTON, NY

1-800-937-2825

[www.buckinghammfg.com](http://www.buckinghammfg.com)