

# Buckingham Mfg.

## P/N 109 Vertical Lifeline Kit Instructions / Warnings

**Read carefully, understand, and heed these and all included instructions, warnings, and cautions before using this equipment. Failure to do so could result in serious injury or death.**

Buckingham's P/N 109 is a Vertical Lifeline Kit that safely allows climbers vertical access to a structure while keeping them 100% fall protected. This kit and any of its components must not be used for any other purpose.

The P/N 109 Vertical Lifeline Kit contains the following components (Fig.1)

Note: Hardware and components may differ from what is shown in Fig. 1.

- 1 – 39S2Q1-Length Lifeline
- 6 – 5005T Steel Carabiners
- 1 – 5005 Steel Carabiner
- 2 – 5004L4 Fall arresters with BuckSorber 2 Energy Absorbers
- 6 – 3905E-24 Redirect Slings
- 1 – 3902-6 Anchor Strap
- 1 – 4569PQ5-Length Rescue Bag
- 2–5555S4 Triple Action Locking Carabiner



### RECOMENDED USE OF THE PN 109 VERTICAL LIFELINE KIT

1. First person up ascends the structure using a means of fall protection and attaches the 3902-6 temporary anchor strap to the structure to create a suitable anchor (Fig. 2).
2. Ensure temporary anchorage connector is properly secured to anchorage before use.
3. Attach the lifeline carabiner (5005 provided) to the eye of the lifeline, then to the D-ring of the anchor strap (Fig. 3)
4. The first person up can now attach the 5004L4 fall arrester to the lifeline (Fig. 4 –7) then connect the free end of the BuckSorber 2 to their harness frontal attachment element using the 5555S4 triple-action ANSI Z359.12 locking carabiner. (Fig. 7 & 9).
5. Once the first person up reaches their desired work location they can attach themselves at that location using a suitable means of fall protection. Once properly attached they can disconnect the 5004L4 fall arrester from the lifeline.
6. Second person up can now attach an additional 5004L4 fall arrester to the lifeline then connect to their harness (step 4 above) and climb the structure while fall protected.

Note: In the event that the fall arrester experiences a rapid downward movement it will become locked and will need to be unlocked. To unlock remove weight from the fall arrester then press the locking wheel towards the rope and slide the fall arrester up the rope a few inches until you hear a click. The fall arrester is now unlocked (Fig. 9).

7. The second person up while ascending the structure, will attach the 3905-24 redirect sling to the structure, a 5005T carabiner to each redirect sling and then the lifeline to the 5005T carabiner (Fig. 10 - 12). This will keep the lifeline close to the structure.

Note: the second person up while installing the redirect sling must ensure their fall arrester is above each redirect sling being installed.





Fig. 4

a. Pull back yellow Safety Catches and rest these behind the fall arrester frame

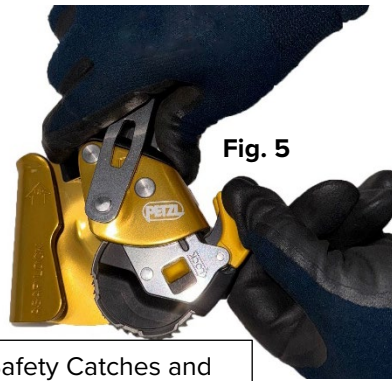


Fig. 5



Fig. 6

b. Insert rope into channel of Fall Arrester, and release safety catches back to original position



Fig. 7

c. Attach a 5555S4 Carabiner to the BuckSorber

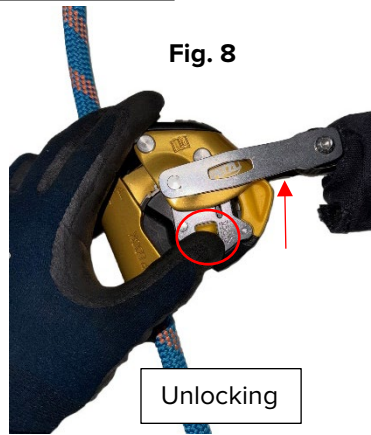


Fig. 8

Unlocking

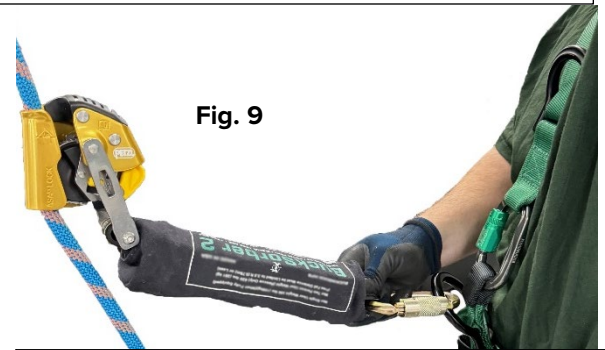


Fig. 9

d.) Connect 5555S4 Locking Carabiner to the front-mounted attachment element of the Harness



Fig. 10

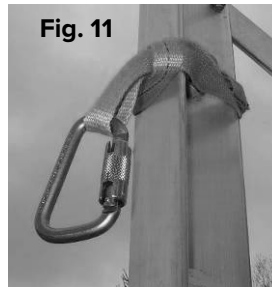


Fig. 11



Fig. 12

## WARNINGS

- Read understand and follow all instructions and warnings attached and/or packed with this product before use.
- This equipment is intended for use by properly trained professionals only.
- Please consult with your physician prior to using this product. Do not use this product under the influence of drugs or alcohol.
- The Fall Arresters supplied with this kit are designed by the manufacturer to be used by workers with a maximum weight of 310 lbs. when fully equipped.
- Fall protection equipment (i.e. fall arrest, work positioning belts, 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.
- Anchor points must support a minimum of 5000 lbf. per attached worker and be independent of worker support.
- Harnesses equipped with a front-mounted attachment element for fall arrest shall be used only as part of a personal fall arrest system that limits the maximum free fall distance to two feet (OSHA 1910.140) and limits the maximum arrest force to 1,800 pounds (ANSI Z359.15 & ANSI Z359.13). Ensure the front attachment element is properly positioned as stated under "Donning Harness" in Buckingham's Harness Wearing Instructions.
- Avoid rubbing of unit components against abrasive surfaces and sharp edges.
- Use this product only in combination with compatible equipment.
- Equipment subjected to impact loading must be immediately removed from service, destroyed and discarded.
- Always visually check that the snap hook / carabiner freely engages the anchor point and the keeper / gate is completely closed. Never rely on the feel or sound of a snap hook / carabiner engaging. Be certain the snap hook / carabiner is positioned so that its keeper / gate is never load bearing.

- Ensure loads applied to carabiners are directed in the proper orientation. Proper and improper loading techniques are shown below in Fig. 13
- Never disable the locking mechanism on the snap hook / carabiner, punch holes in or alter a connecting device or any part of this system in any way.
- Do not let any part of this system come into contact with any chemicals, corrosive materials, acids or basic solvents.
- Wearing gloves while using this product is highly recommended.
- Product covered under these instructions / warnings should not be resold / redistributed or re-used after use by original user.
- Employer - instruct employees as to proper use, warnings and cautions before use of this equipment.

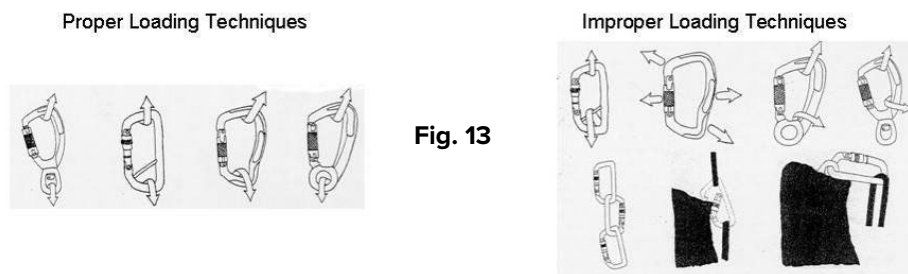


Fig. 13

## Maintenance

- Proper maintenance and storage of your equipment will prolong its useful life and contribute toward its performance. Clean equipment with water and mild soap and allow to dry thoroughly without using excessive heat. Lubricate as necessary.
- Apart from visual examination of product before and after each use, it should be inspected at least twice a year by an authorized person.
- LUBRICATE LOCK MECHANISM AND KEEPER /GATE ON BOTH SIDES OF CONNECTOR AT LEAST WEEKLY OR AS OFTEN AS REQUIRED to maintain smooth operation (no binding) with light weight lubricant such as WD-40®

## INSPECTION

Prior to and after each use, carefully inspect each component. It is also recommended all components be removed from the storage bag and as a minimum, inspected every six months. The inspection should include, but not be limited to the following:

### Fall Arrester with BuckSorber 2

- Inspect to ensure there are no cracks, distortion, nicks or burrs.
- Make sure the rope is woven through the arrester correctly as illustrated on the unit and shown in these instructions.
- Inspect for proper operation of device.
- Inspect energy absorbers to ensure unit has not been impact loaded.

Note: Refer to these as well as the separately included manufacturers Instructions / Warnings for this device

### Temporary Anchors

- Inspect to ensure that unit is free of burns, cuts, abrasions, kinks, knots, broken strands, chemical or physical exposures discoloration, swelling or excessive wear and D-rings and buckles (if any) are not distorted or cracked.
- Inspect stitching to ensure there is no excessive wear, abrasions, cut, broken, missing or unraveling thread or broken fibers.

### Lifeline

- Inspect the entire length of rope to ensure there are no cuts, kinks, abrasions burns, broken fibers, chemical or physical exposures, excessive wear, discoloration, swelling, or herniated rope (core popping through cover).
- Inspect stitched eyes to ensure there is no excessive wear, abrasions, cut, broken, missing or unraveling thread or broken fibers and that shrink tube and thimbles are properly in place.

### Carabiners

- Ensure locking device and or keeper / gate operate freely and smoothly.
- Inspect to ensure there are no cracks, distortion, corrosion or nicks.

If any evidence of 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. or clarification.

## 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).

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

**BUCKINGHAM MFG.**  
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1-800-937-2825  
[www.buckinghammfg.com](http://www.buckinghammfg.com)

Information contained in these written instructions supersedes all other information (written, audio, video etc.) produced by Buckingham Mfg. prior to the revision date of this document.