

# Buckingham Mfg Co.

## “BuckAdjuster”

### Adjustable Positioning Lanyard Instructions / Warnings

P/N 9+N08A15MW5 Shown in fig. 1,  
(options & hardware may vary from figures)

**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 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.
- Glossy or glazed areas that generally indicate signs of heat damage.
- Rope, rope stitching or rope splice and all whipped ends are free of defects (fig. 2a & 2b).
- If your BuckAdjuster is manufactured using Matrix Rope Option “8K” do not use rope that has the red warning center / core exposed.

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

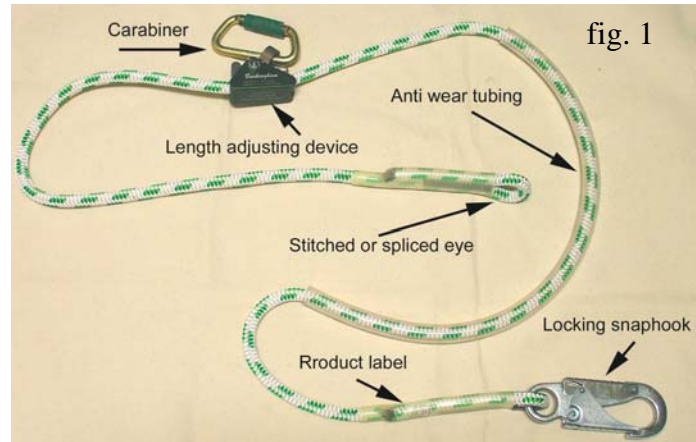


fig. 1

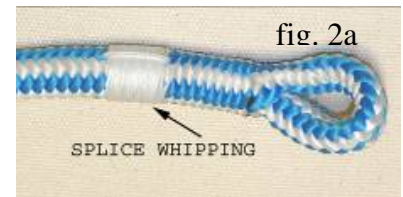


fig. 2a

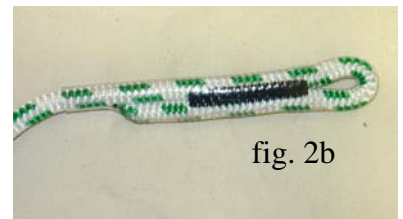
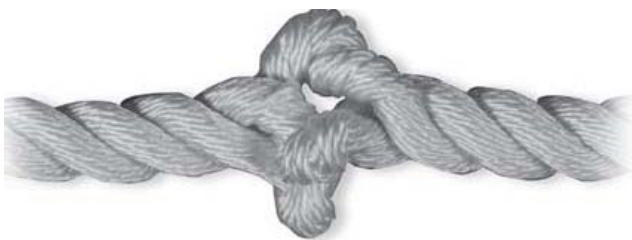


fig. 2b



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 wire is fastened to the cam lever and to the body. Note that both of the locking set screws holding the spring wire in the body and the cam need to be snug.
- 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 split ring is securely seated through the pre drilled shoulder bolt.
- 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.

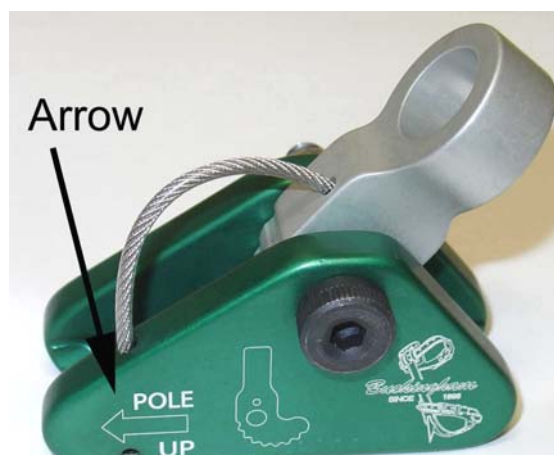
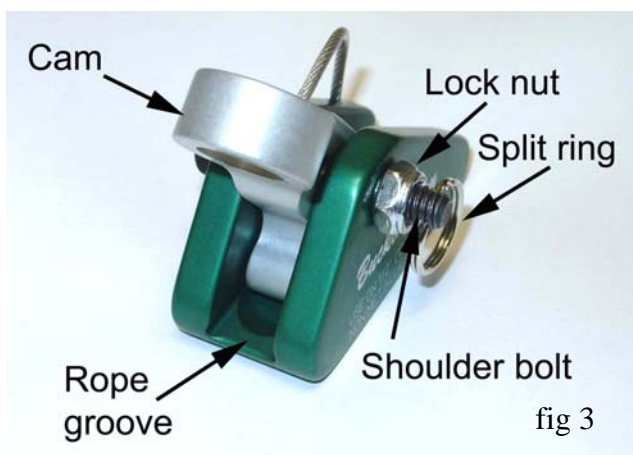
If any evidence of wear or deterioration as outlined above is observed, immediately cease use, destroy the product, and replace it with new equipment. Should any unusual conditions not outlined above be observed or you have reasonable doubt about a particular condition, remove the equipment from service 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.

### **Warnings:**

- 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.
- This equipment is intended for use by properly trained professionals only.
- Manufactured to the following standards / regulations as they are applicable ASTM F887 / ANSI Z359.3 / OSHA 1926.959 / CA. OSHA 2940.6.
- The BuckAdjuster is only one component / element of a positioning system outlined by ANSI Z359.3.
- 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.
- The split ring that is inserted through the shoulder bolt is intended as a secondary locking device in the event that the lock nut becomes loose and is the only function which it is to serve.
- 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.

- 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 LAD will result in the loss of locking action required to maintain adjustment of the rope when in use.
- 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 wrap a rope 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.

**Disconnecting / Reconnecting Length Adjusting Device (LAD) onto Rope:** This section applies only in the event the Adjustable Positioning Lanyard (rope line which includes locking snaphook and stitched or spliced eye) is replaced or LAD requires cleaning or the removal of a burr. Otherwise LAD is not to be disassembled. (See fig. 3 for LAD part description).



### **To Disconnect / Disassemble:**

1. Remove split ring from the shoulder bolt.
2. Inspect the split ring for defects or distortion, if the split ring is in good condition it may be reused for assembly.
3. Remove the lock nut from the shoulder bolt using a 3/16" Allen wrench and a 1/2" box end wrench.
4. Remove the washer (locking pin slot style only) and pull the shoulder bolt and out through the cam and the body of the LAD.
5. Remove the cam lever from the body and remove the rope from the LAD.

### **To Connect / Assemble:**

1. Insert the rope into the groove of the LAD. The arrow shown on the device (fig. 4) must point to the locking snap hook / carabiner end of the Adjustable Positioning Lanyard. If the BuckAdjuster is mounted on a pole, tree or other structure, the arrow must point towards the same.
2. Insert the cam lever back into the groove of the LAD (on top of the rope) and align the holes of the cam and the body of the LAD. (cam lever must be mounted in the same direction as shown in the sketch on the side of the LAD).
3. From either side of the body insert the shoulder bolt completely through the body and the cam lever. (If LAD has locking pin slot the bolt should be inserted from the locking pin slot side of the LAD).
4. Place the washer (locking pin slot style only) over the exposed section of the shoulder bolt ensuring it is flush with the LAD body.
5. Thread the locking nut onto the shoulder bolt and tighten until snug (20 in. lbs. max.) with a 3/16" Allen wrench and a 1/2" box end wrench. Do not over tighten the nut.
6. Insert the split ring entirely through the pre drilled hole in the shoulder bolt.
7. Check by pulling on the eye of the cam lever that the device grips the rope in the required direction.

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

**Adjustable Positioning Lanyard Attachment: (options & hardware may vary from product shown below)**

**Proper Attachment**



fig. 5

**Examples of Improper Attachment**



fig. 6a



fig. 6b



fig. 7

Proper Attachment: Carabiner and locking snaphook must be attached to work positioning D-rings as shown in fig. 5. 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. 6a & 6b. Do not connect Adjustable Positioning Lanyard back onto itself and use as a cinch or choking device. See fig. 7.

**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 (see photo below).



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. (see photo below).



4. While climbing above or below obstructions adjust Adjustable Positioning Lanyard to minimize fall distance to under two feet (2').

**Cleaning / Storage Instructions:**

A dirty product should be washed and rinsed in clean water, then 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. Ropes should be stored on racks or hooks to provide ventilation and should never be stored on concrete or dirt surfaces.

**Patent Pending**

**BUCKINGHAM MFG. INC.**

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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.