

BUCKINGHAM MFG.

BuckGrab (PN 5004B)

LENGTH ADJUSTING DEVICE (LAD) RETROFIT INSTRUCTIONS

PN 5004B is designed to add or take up slack in an Adjustable Positioning Lanyard so that the system will accommodate various circumferences (Fully assembled LAD shown in Fig.1).

PN 5004B is supplied disassembled for easy attachment and includes the following components (Fig. 2):

Parts Included:

- Body
- Cam Lever
- Return spring
- 5004BKIT (Note: center lock nut is not re-usable)
 - One 3/8" x 1 3/4" Shoulder Bolt
 - One 5/16" -18 Center Lock Nut
- One Single Use Tube of Loctite® 242
- Product instructions

Tools required:

- One 1/2" wrench
- One 3/16" Allen wrench
- Center punch and Hammer

Assembly Instructions:

1. Insert the rope into the groove of the LAD body. **The arrow shown on the device (Fig. 3) must point to the locking snap hook / carabiner end of the Adjustable Positioning Lanyard and if mounted around a pole, tree, or other structure, the arrow must point towards the same.**
2. Place the spring into the cam spring slot. Ensure the straight leg of the spring is inserted in its designated slot. The 90° bent tab portion of the spring must point outward, away from the cam (Fig.4).
3. Insert the cam lever with spring into the body of the LAD and on top of the rope. The spring 90° bent tab must be started into the small hole in the side of the LAD body first and then rotate the cam lever inward (Fig.5).
4. Align the holes of the cam lever and the body of the LAD by pushing the cam lever in the directions shown (Fig.6 & 7). The cam lever must be mounted in the same direction as shown in the sketch on the side of the LAD (Fig.7).
5. From either side of the body, insert the shoulder bolt completely through the body and the cam lever (Fig.8)

Fig. 1

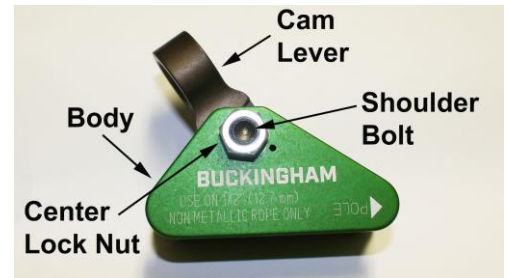


Fig. 2



Fig. 3



Fig. 4



1. Add a small amount of Loctite® 242 to the shoulder bolt threads and thread the center lock nut onto the shoulder bolt and tighten until snug (75 in. lbs. max.) with a 3/16" allen wrench and a 1/2" box end wrench. Do not over tighten the nut.

NOTE: The Supplied Center Lock Nut is a type of locknut designed to resist loosening under vibrations. As an added precautionary measure, Buckingham suggests that once the nut is properly tightened, the end of the shoulder bolt be peened Fig. 9a & 9b.

2. The fully assembled LAD should appear as shown in Fig.10.
3. Check by pulling on the eye of the cam lever that the device grips the rope in the required direction and that the spring has adequate tension to ensure the cam lever returns to a position so that the cam teeth make contact with the rope.

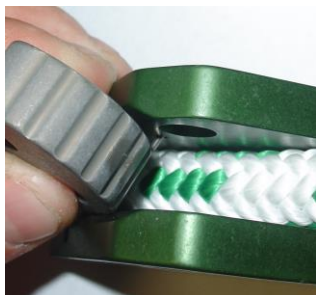


Fig. 5

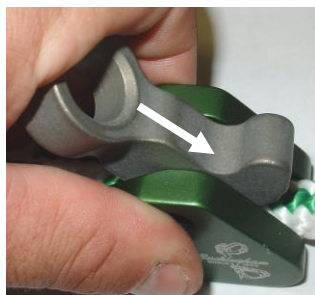


Fig. 6

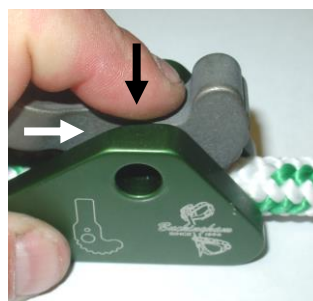


Fig. 7

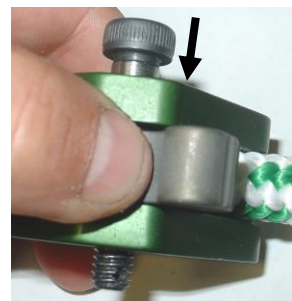


Fig. 8

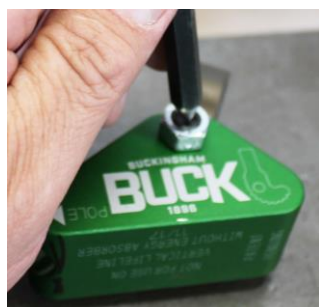


Fig. 9a



Fig. 9b



Fig. 10 Assembled LAD:

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

Warnings:

This device is not to be used on a vertical lifeline without the use of a properly rigged Energy Absorber.

This device has been designed and is intended to be used on 1/2" diameter and rope types denoted below only (see note below).

This device is not to be used on wire rope or steel cable.

Center lock nut is not to be re-used after initial loosening or removal.

NOTES: The Buckingham LAD has been tested and approved for use as a Length Adjusting Device used in conjunction with an Adjustable Positioning Lanyard on only the following types of ropes:

- 1/2" Blue Streak 16 strand rope
- 1/2" XTC 16 strand rope
- 1/2" Kernmantle rope
- 1/2" High Vee rope

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Patent Pending

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. LADRetro.doc