

BUCKINGHAM MFG

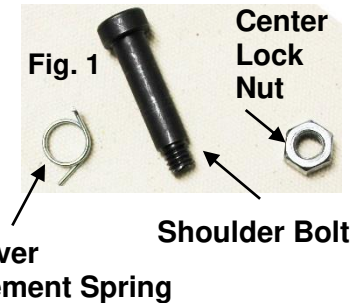
5004BKIT2

Cam Lever Replacement Spring, Bolt and Center Lock Nut for 5004B LAD

PN 5004BKIT2 (Fig. 1) is a cam lever replacement spring, shoulder bolt and center lock nut kit designed as a field replacement for the 5004B LAD (Fully assembled LAD with spring, shoulder bolt and center locking nut shown in Fig.2 and Fully Assembled LAD with spring, shoulder bolt, nyloc nut and split ring shown in Fig. 3) {Cam spring is internal, not visible}:

Parts Included:

- One Cam Lever Replacement Spring
- 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 (Box end, adjustable, etc.)
- One 3/16" Allen wrench

Note: Before proceeding with this component replacement, inspection of the product by at least the user must be completed to ensure it is in a condition acceptable for continued use. If any evidence of wear, deterioration or impact loading is observed, immediately cease use, destroy the product and replace it with new equipment. Should any unusual condition 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. at 1-800-937-2825 for clarification.

Instructions:

A. Replacing the Cam Lever Attachment Hardware

a. 5004B (Shoulder Bolt, Nyloc Nut and Split Ring) Disassembly (Fig. 3)

1. Remove split ring from shoulder bolt (Fig. 4)
2. Remove nyloc nut from shoulder bolt using a 3/16" Allen wrench and a 1/2" wrench (Fig. 5)
3. Remove the shoulder bolt from the cam and the body of the LAD, (Fig. 6 - 7).
4. Remove the cam lever and the cam spring from the LAD body. Discard used spring, shoulder bolt, nyloc nut and split ring (Fig. 8).
5. Inspect rope and replace if needed, Use only approved replacement ropes from Buckingham.
6. See 'c' for 5004B re-assembly with new 5004BKIT2 replacement spring, shoulder bolt and center lock nut.

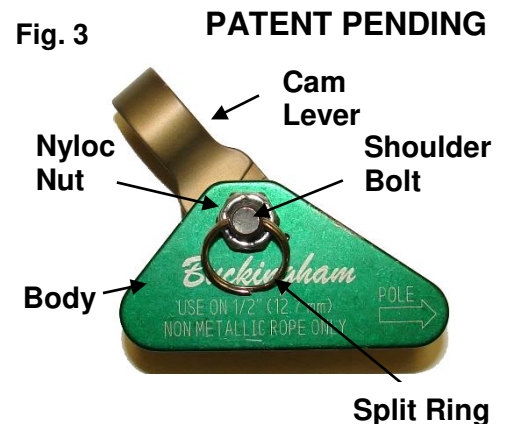


Fig. 4



Fig. 5

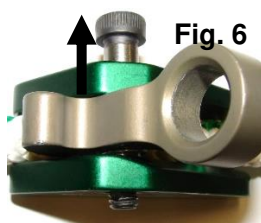


Fig. 6



Fig. 7

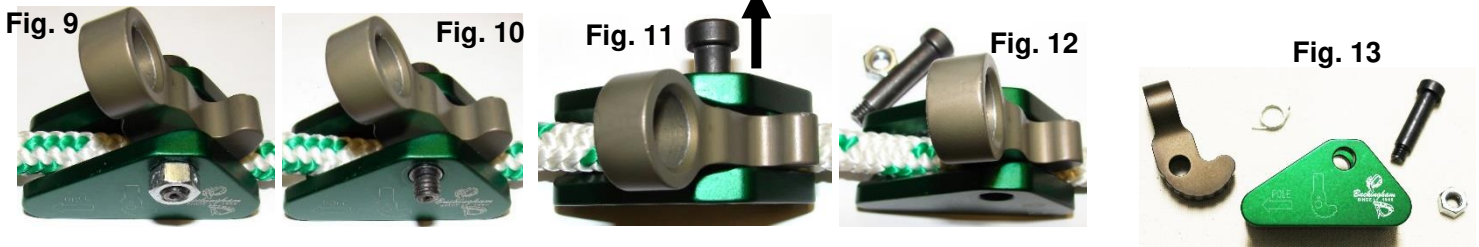


Fig. 8

b. 5004B (Shoulder Bolt and Center Lock Nut) Disassembly (Fig. 9)

1. Remove the center lock nut from the shoulder bolt using a 3/16" Allen wrench and a 1/2" wrench (Fig. 10)
2. Remove the shoulder bolt from the cam and the body of the LAD, (Fig. 11 - 12).

3. Remove the cam lever and the cam spring from the LAD body. Discard used spring, shoulder bolt and center lock nut (Fig. 13).
4. Inspect rope and replace if needed, Use only approved replacement ropes from Buckingham.
5. See 'c' for 5004B re-assembly with new 5004BKIT2 replacement spring, shoulder bolt and center lock nut.

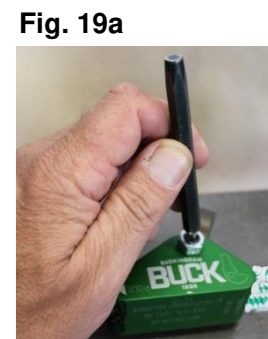
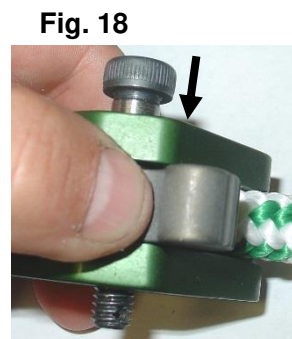
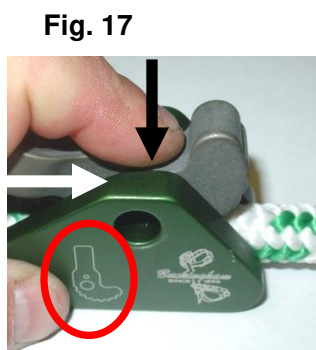
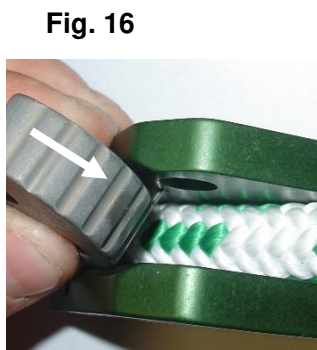
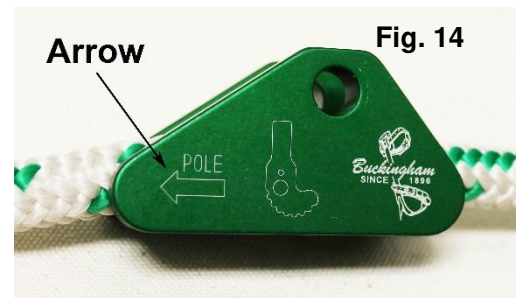


c. 5004B Assembly with new 5004BKIT2 Replacement Spring, Shoulder Bolt and Center Lock Nut

If replacement Rope is Required:

Insert the new rope into the groove of the LAD body. The arrow shown on the device (Fig. 14) 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.

1. 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. 15).
2. The cam lever with spring must be inserted into the body of the LAD on top of the rope. Begin by ensuring the spring 90° bent tab is started into the small hole in the side of the LAD body and then rotate the cam lever inward (Fig. 16).
3. Align the holes of the cam lever and the body of the LAD by pushing the cam lever in the directions shown (Fig. 17). The cam lever must be mounted in the same direction as shown in the sketch on the side of the LAD (Fig. 17).
4. From either side of the body, insert the shoulder bolt completely through the body and cam lever (Fig. 18).
5. Add a small amount of Loctite® 242 to the shoulder bolt threads and thread the center lock nut onto the shoulder bolt. Using a 3/16" Allen wrench and 1/2" wrench, tighten the center lock nut until it comes in contact with the shoulder of the bolt. Using a torque wrench, torque the nut to 75 in. lbs. max.



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. 19a & 20b.

6. The fully assembled LAD should appear as shown in Fig. 21.
7. Check the LAD by pulling on the eye of the cam lever ensuring 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. 19b



Fig. 20

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.

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

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