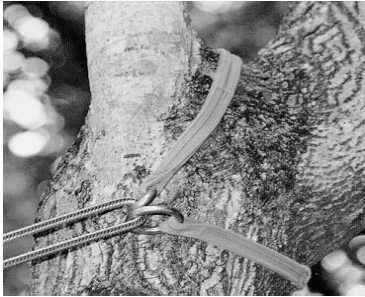


# BUCKINGHAM MFG.

MODEL 57, 59, & 60 SERIES - FRICTION SAVER  
MODEL 57KEY - FRICTION SAVER RETRIEVAL KEY

## Friction Saver Features

- The Friction Saver allows for easy installation and retrieval from the ground.
- The Friction Saver offers consistent friction when working in different positions in the tree.
- The Friction Saver can be wrapped on a stem where no natural crotch exists.
- The Friction Saver benefits include less bend radius, less friction (easier to climb), and reduced wear to a rope.



The following illustrations show both the Preferred Method and an Alternate Method of using either a Web or Rope Friction Saver (Note: The Web Friction Saver is used for illustration purposes).

## Preferred Method

1. Install throw bag and line over desired limb as shown in 1 a. & 1 b. below. **NOTE: Step 1 to be used in both Methods.**
  - 1a. Tie a slippery half hitch in line. This will provide a good finger hold.
  - 1b. Pass the line back through the steel ring creating two finger holds. Then swing back and forth between the legs and toss into tree. Both techniques achieve great distance & accuracy.
2. Lower throw bag to ground and untie it from line. Insert line through large ring. Continue to pull all line through large ring (being careful not to pull line back into tree) (Fig. 2).

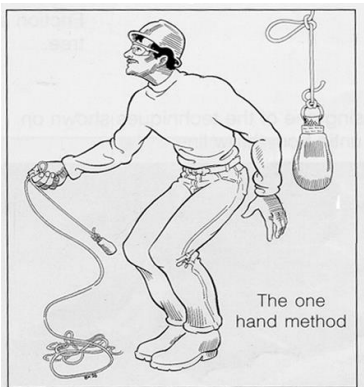


Fig. 1a

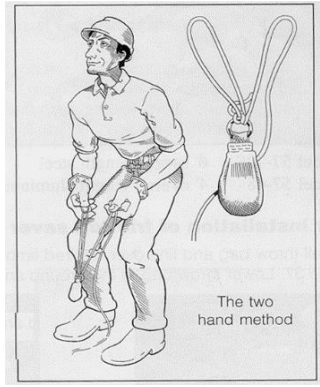


Fig. 1b



Fig. 2

3. Insert end of remaining line through small ring and attach throw bag onto it using a clove hitch (Fig. 3).
4. Pull on line opposite throw bag to raise friction saver into tree (Fig. 4).
5. When friction saver is just below limb, quickly flip it up and over limb, so it does not get hung up (Fig. 5).



Fig. 3



Fig. 4



Fig. 5

6. Lower bag to ground and disconnect (Fig. 6).
7. Attach throw line to climbing line eye using a clove hitch, if climbing line has no eye, attach using a series of 3-4 half hitches with a clove hitch tied 5- 6" in from end of climbing line. Then simply pull the climbing line up and through the friction saver rings (Fig. 7).
8. Climbing line & friction saver are now installed in tree (Fig. 8).

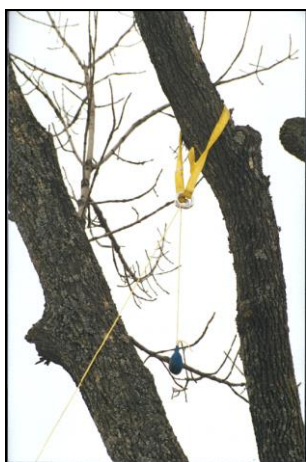


Fig. 6

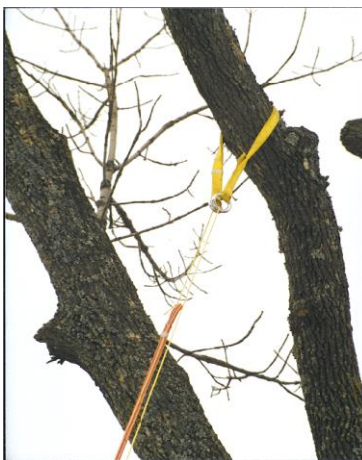


Fig. 7



Fig. 8

## INSTALLATION [Alternate Method]

1. Pass shot pouch with string through large ring and attach carabiner. Pass climbing line through small ring (Fig. 9).
2. Pull friction saver up through crotch while keeping both ends of climbing line on the ground (Fig. 10).
3. Once Friction Saver is through the crotch, lower the pouch and string (Fig. 11).



Fig. 9



Fig. 10

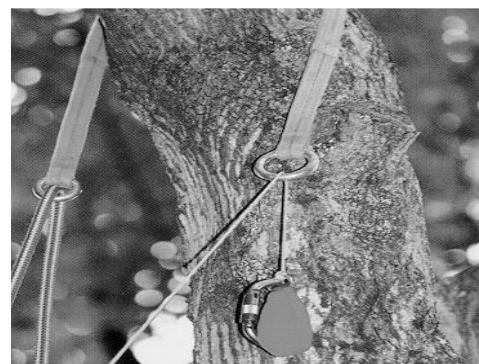


Fig. 11

4. Tie the string near the end of the climbing line and pull the rope up to the large ring (Fig. 12).
5. Pull the end of the rope through the large ring and down to the ground (Fig. 13).
6. The Friction Saver is now installed in tree (Fig. 14).

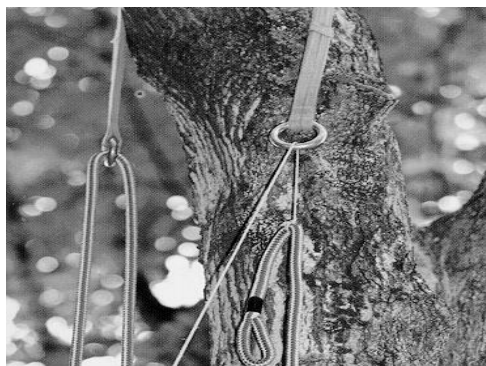


Fig. 12



Fig. 13



Fig. 14

## To Remove Friction Saver From The Tree [Not Pictured]

1. Tie a knot near the end of the climbing line and then attach the throw line to the climbing line Fig. 15.
2. Pull on the other end of the climbing line, the knot will pass through the large ring, but not through the smaller ring, dislodging the Friction Saver.
3. The Friction Saver can then be lowered.

Fig. 15



### [Alternate Method]

#### [Using the Buckingham Retrieval Key] {PN 57KEY - Fig. 16}

1. Attach the Retrieval Key near the end of the climbing line. Use a Girth Hitch (Fig. 17 a, b & c) or a Pile Hitch (Fig. 18a, b & c) to attach.
2. Attach the throw line to the climbing line (Fig. 19).
3. Pull on the other end of the climbing line, the retrieval key will pass through the large ring, but not through the smaller ring, dislodging the Friction Saver.
4. The Friction Saver can then be lowered.

Fig. 16



Fig. 17a



Fig. 17b



Fig. 17c



Fig. 18a



Fig. 18b



Fig. 18c



Fig. 19

## MODEL 57, 59, & 60 SERIES - FRICTION SAVER

### MODEL DESIGNATIONS:

**Model 57 Series – Web Friction Saver**

**Model 59 Series – Rope Friction Saver with Stitched Eyes**

**Model 60 Series – Rope Friction Saver with Spliced Eyes**

### LENGTH DESIGNATION EXAMPLES:

**Model 57-36 is 3 ft. length**

**Model 59-36 is 3 ft. length**

**Model 60-48 is 4 ft. length**

## WARNINGS

- ◆ This equipment is intended for use by properly trained professionals only.
- ◆ Be certain this equipment is suitable for the intended use and work environment. If suitability for intended use is in doubt, consult a safety engineer or contact Buckingham Mfg. before using.
- ◆ This Friction saver is to be used for climbing purposes only. Do not use for hoisting equipment or material.
- ◆ User weight not to exceed 350 lbs. when fully equipped.
- ◆ Destroy any and all equipment subjected to impact loading.
- ◆ Avoid contact of this equipment with high temperature surfaces, welding or other heat sources.
- ◆ Use PPE equipment only for the specific purpose for which it is designed and intended.
- ◆ Use only with equipment meeting standards for intended use.
- ◆ Before each use check that: 1) unit is free of burns, cuts, abrasions, kinks, knots, broken strands, excessive wear or evidence of impact loading. 2) Rings are not bent, distorted, cracked, corroded or show signs of excessive wear. Remove from service, destroy and discard unit if it does not pass this inspection and replace immediately.
- ◆ Replace if protective cover of stitching (shrink tube) is damaged, missing or torn (Model 59 series only)
- ◆ Never wrap a friction saver around a sharp structural member. The material could be cut or damaged.
- ◆ To control descent of friction saver use throw line while removing. Failure to do so could result in personal injury or property damage. Make sure throw line is long enough for removal process.
- ◆ Employer - instruct employee as to proper use and warnings before use of equipment.
- ◆ Read, understand and follow all instructions and cautions attached to and/or packed with product before using this equipment.
- ◆ Know and follow the ANSI Z133.1-2017 Standard.

### Cleaning

Proper maintenance and storage of your equipment will prolong its useful life and contribute toward its performance. Soiled friction savers should be cleaned with water and mild soap (a dish washing soap that removes grease (i.e. Dawn)) and be allowed to dry thoroughly without using excessive heat.

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

### 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/>

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