

# BUCKINGHAM MFG.

## WARNINGS / INSTRUCTIONS

### 3809 SERIES BOOM STRAPS

Warning: Do not use this product if you cannot understand and follow the instructions and warnings that come with it and complete all necessary functions.

NOTE: Lengths, colors & options may vary from figures shown.



PN 3809R - RATCHETING BOOM STRAP WITH FALL ARREST D-RING



PN 3809RQ9 - RATCHETING BOOM STRAP WITH QUICK CONNECT BUCKLE & RESCUE FIGURE EIGHT



PN E3809RQ1 - RATCHETING BOOM STRAP WITH FALL ARREST D-RING

## WARNINGS

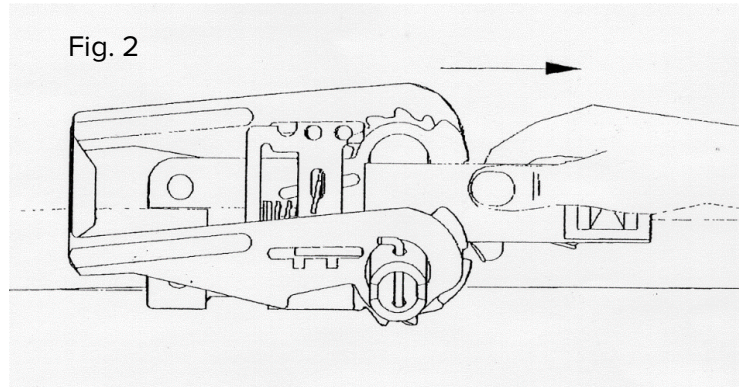
- Read understand and follow all instructions and warnings attached to and/or packed with this product before installation and use.
- This equipment is intended for use by properly trained professionals only.
- Please consult with your physician prior to using this product. Do not use this product under the influence of drugs or alcohol.
- These products are designed to be used by a person with a maximum weight of 420 lbs. when fully equipped and only when used with an equivalently weight rated harness, energy absorbing lanyard / accessories.
- 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.
- Be certain this equipment is suitable for the intended use and work environment. It should only be used as personal protection equipment (PPE). PN 3809R & E3809RQ1 are intended to be used for fall arrest and can also be used for rescue. PN 3809RQ9 is designed and must only be used for rescue / retrieval. If suitability for intended use is in doubt, consult a safety engineer or contact Buckingham Mfg. before using.
- These boom straps have a minimum breaking strength (MBS) of 5000 lbs. and are manufactured to meet OSHA 1926.502 (d) (15) and ANSI Z359.2. NOTES: OSHA requires that impact force in a fall NOT exceed an 1800 lb. limit with a harness. Keep connecting device slack to a minimum or use a deceleration unit to stay under these limits. Ensure the boom or structure the strap is attached to is capable of supporting these loads for fall arrest. For rescue, the user's weight must never be greater than the WLL of the boom or structure it is mounted on. Check the bucket trucks manufacturer's recommendation for boom WLL.
- Use this product only with ANSI Z359.12 certified locking snap hook / carabiners.
- These temporary anchorage connectors shall not be attached to more than one personal fall arrest system.
- Rig to avoid contact with structures below in a fall or rescue operations.
- Always keep anchor point above rear D-ring or retrieval loops of your full body harness.
- Always work directly under fall arrest or rescue anchor point to avoid swing fall injuries (pendulum effect).
- Employer- instruct all employees as to proper use and warnings before use of equipment.
- Use PPE equipment only for the specific purpose for which it is designed and intended. These products must not be used for rigging, lifting, towing or any other purpose other than human support.
- Product must not be altered in any way.
- Equipment subjected to impact loading must be immediately removed from service, destroyed and discarded.
- Avoid contact of this equipment with electrical hazards and moving machinery as well as chemicals, high temperature surfaces, welding or other heat sources which may damage the material.
- Use this product only with compatible fall protection equipment meeting applicable ANSI and OSHA standards.
- PN 3809R & 3809RQ1: Always visually check that the snap hook / carabiner freely engages the anchor strap D-ring and the keeper / gate is completely closed with each use. Never rely solely on the feel or sound of the snap hook / carabiner engaging.
- Ensure snap hooks / carabiners are positioned so that their keepers / gates are never load bearing.
- 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.
- PN 3809RQ9: Ensure the rescue line is properly rigged on the Figure Eight before performing rescue operations. A standard low friction rigged Figure Eight is shown in Figure 1. Additional wraps may be needed to increase friction depending on factors such as your strength, ability, victims weight, etc. Buckingham does not recommend connecting snaphooks or carabiners to the Figure Eight or using it for any other purpose than rescue operations.
- Product covered under these instructions / warnings should not be resold / redistributed or re-used after use by original user.



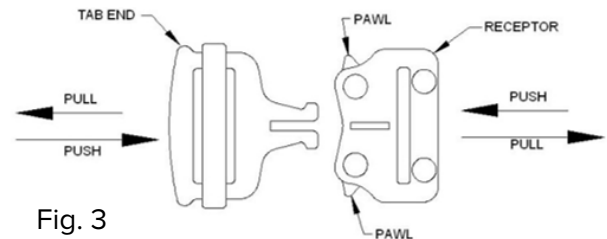
Fig. 1

**INSTALLATION INSTRUCTION:** [Ratcheting Boom Straps - Model No. 3809R, E3809RQ1 and 3809RQ9]

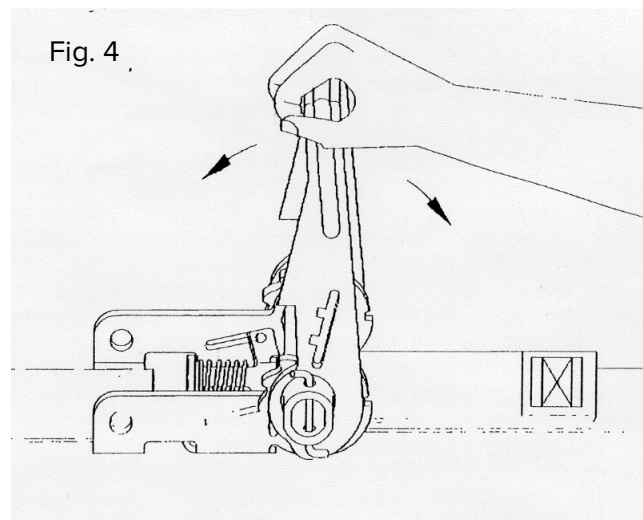
- 1) Place the boom strap at a desired location on the boom. (For installation on a square boom, ensure ratchet lies against the flat surface).
- 2) Wrap the attachment strap around the boom with the rubber side of the strap against the boom.
- 3) Slide the D-ring along the attachment strap so that it will be properly aligned with its intended connecting device.
- 4) Make sure the strap lies flat against the boom without any twists.
- 5a) **For PN 3809R & E3809RQ1:** Thread the free end of the attachment strap through the slot in the winder bar of the ratchet. Eliminate slack by pulling webbing through the winder bar until desired length is obtained. (see Fig. 2)



5b) **For PN 3809RQ9:** Connect the two halves of the Quick Connect Buckle by pushing the tab end of the buckle into the receptor end until you hear a click, and both of the pawls are fully engaged (Fig 3). Grasp the webbing and put tension on the buckle by pulling the webbing in opposite directions to ensure both locking pawls are engaged. See additional information for Quick Connect Buckles below. Eliminate slack by pulling the webbing through the ratchet's winder bar slot until desired length is obtained. (see Fig. 2)



6) Tighten the strap by gripping the ratchet handle and pumping it until the strap is sufficiently snug (to prevent the unit from moving when in use). A minimum of 2 full wraps of webbing should be around the winder bar after tightening. Care should be taken not to place an excessive number of wraps around winder bar as this may cause jamming. (see Fig. 4).

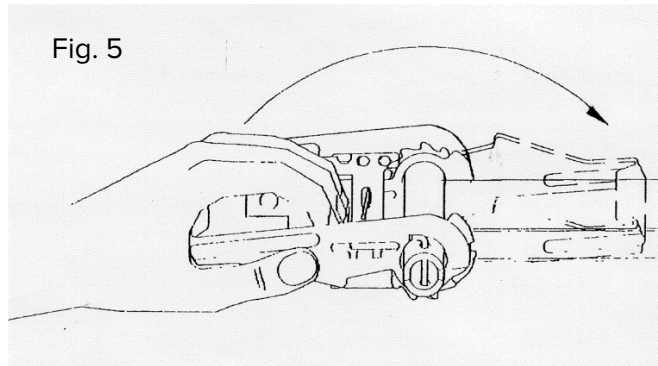


- 7) Upon completion of step 6, pull back on the spring loaded handle pawl and rotate the ratchet handle fully downward ensuring it is in the full closed position. (Fig. 5).

**NOTE:** When tight the excess strap may be cut off, however leave approximately 6" protruding from the ratchet. Singe the cut end of the strap to prevent fraying.

### TO RELEASE

Pull back on the spring loaded handle pawl and rotate the handle up and over to a fully open flat position (Fig. 5) and pull the webbing from around the winder bar.



### ADDITIONAL INSTRUCTIONS / WARNINGS FOR QUICK CONNECT BUCKLE:

#### For your information and attention:

Quick Connect Buckles on these Ratcheting Anchor Straps may unintentionally disengage under the condition outlined below:

If the pawls of the buckle do not freely rotate, proper engagement of the tab end to the receptor end of the buckle will be hindered / restricted. If as a result of the user's movements or through contact with an obstruction during the course of his/her work, one of the two pawls of the receptor end of the buckle is depressed while tension is induced on the strapping attached to the buckle, the potential exists that disengagement of the tab end of that side from the pawl may occur. If that position is maintained and again through the user's movements or contact with an object the opposite side pawl is depressed, the tab end of the buckle may totally disengage from the receptor end.

#### To eliminate the potential for this condition, you the user should:

1. Inspect your equipment before each use as you would for all safety equipment. Equipment should be replaced if you have any question / doubt about it being safe for use.
2. Always position the buckles of your equipment so that contact with objects are avoided.
3. Test the pawls on your Quick Connect Buckles to ensure they freely rotate and return back to their original position. If any pawl does not freely rotate, the buckle should be (a) cleaned as outlined below in the maintenance section, to ensure there are no obstructions inside the buckle hindering its intended function and (b) lubricated with a lightweight lubricant such as WD-40® as recommended for locking snaphooks. If the pawl still does not freely rotate, you should contact Buckingham Mfg. at the telephone number outlined below and request a Returned Goods Authorization Number for immediate return of your Ratcheting Anchor Strap for our inspection and/or buckle replacement.
4. Ensure the receptor end and tab end of the Quick Connect Buckle is fully connected with both locking pawls engaged. When the two halves are properly attached together, a clicking sound should be heard. Complete by pulling the adjuster strap through the buckle and tighten until it is snug but comfortable, thus ensuring complete engagement.

Buckingham's primary concern is to provide a quality product to its customers to enable them to carry out their profession in a safe manner. However, we always require our customer's assistance in proper equipment operation, inspection and maintenance.

## **INSPECTION:**

**NOTE:** Boom strap as well as all other related equipment should be thoroughly inspected prior to each use. Inspection should include but not be limited to performing a visual examination of the attachment strap, ratchet mechanism, D-ring, quick connect buckle and all other components.

This inspection should include but not be limited to ensuring that: 1.) ratchet mechanism is functioning properly. 2.) the attachment strap is free of burns, cuts, abrasions, kinks, knots, broken strands and excessive wear. 3.) ratchet, quick connect buckle, figure eight and D-ring are not distorted, cracked or bent and are free of burrs, excessive wear and are clean and functioning properly. 4.) quick connect buckle pawls freely rotate, and buckles connect and function properly. 5.) unit has no signs of impact loading or any other defects.

Ensure the system is in good working order. If there is any question about the condition of any component of the system, discard the unit and replace with a new unit.

## **CLEANING & MAINTENANCE**

- Proper maintenance and storage of your equipment will prolong its useful life and contribute toward its performance.
- Webbing should be cleaned with mild soap and water and be allowed to air dry thoroughly without using excessive heat. Do not use any type of corrosive substance or acid, which will gradually eat away the fabric.
- All Syles Quick Connect Buckles including Dielectric Quick Connect Buckles may be cleaned by using a cotton swab, limited air pressure or dipping it into a container of water to remove fine particles and any foreign matter which may enter the receptor end of the buckle and preventing proper engagement and function. The exterior of the buckle should be dried with a clean cloth. The inside of the receptor end of the buckle should be air-dried and re-lubricated.
- Additionally, all Quick Connect Buckle pawls should be lubricated weekly or as often as required to maintain smooth operation (no binding) with a lightweight lubricant such as, WD-40®. To lubricate, disconnect the buckle and insert the spray straw near the pivot point of the buckle pawl (Fig. 6 & 7). Give a quick spray and then repeat for the pawl on the opposite side. Wipe any excess lubricant off with a clean dry cloth.
- To inspect buckle pawl function, push the receptor end and the tab end of the Quick Connect Buckle together ensuring it is fully connected with both pawls engaged. When the two halves are properly connected a clicking sound should be heard. A faint sound may be heard from the male end connecting to the female end of the buckle. Grasp the webbing and put tension on the buckle by pulling the webbing in opposite directions to ensure both locking pawls are engaged. The buckle halves should not disengage when tension is applied to the buckle assembly. Perform a Pawl Function Test on both of the locking pawls by pushing one of the pawls to the open position, when released the pawl should rotate back to the closed position. Repeat for the opposite pawl.

Fig. 6



Fig. 7



**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 the 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).

**BUCKINGHAM MFG.**  
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