

# BUCKINGHAM MFG.

## P/N 2406S 'OX HOOK' / P/N 31291B 'OX HORN'

P/N 2406S 'OX HOOK' (Fig. 1a) and PN 31291B 'OX HORN' (Fig. 1b) are connectors that can be used in conjunction with compatibly rated accessories, for lifting light loads, heavy loads and rescue. These connectors feature a Working Load Limit (WLL) of 2500 lbf. {11.1 kN} (gate closed), 1000 lbf. {4.4 kN} (gate open) in the intended direction of load (Fig. 2). The gate can also be locked in the open position so it can be used in a more traditional Handline / Meat Hook manner (Not for human support) (Fig.4). In addition, P/N 2406S 'OX HOOK' is equipped with an "Eye for Tag Line" intended only to be used to assist in re-directing loads. P/N 31291B 'OX HORN' does not have an "Eye for Tag Line". P/N 2406S is shown throughout for clarity.

Note: WLL's Listed above are for the hook only. When used in a system, all components must be rated in accordance with the applicable standard / OSHA regulation for which it is to be used.

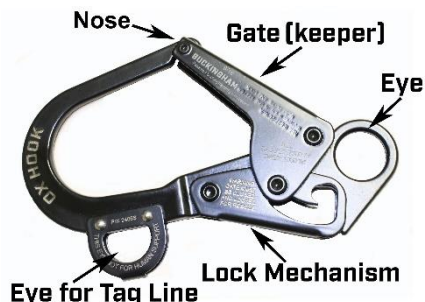


Fig. 1a  
P/N 2406S

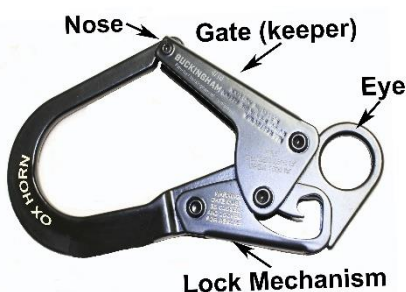


Fig. 1b  
P/N 31291B



Fig. 2

Fig. 3



Eye for Tag Line



Fig. 4 - Not for Human Support

### Operation:

**P/N 2406S 'OX HOOK'- NEVER USE THE "EYE FOR TAG LINE" (Fig. 3) FOR HUMAN SUPPORT AS IT IS INTENDED ONLY FOR TAG LINE ATTACHMENT USED TO ASSIST IN REDIRECTING LOADS.**

- ❖ The 'OX HOOK / OX HORN' features a self-closing, self-locking gate which remains closed until unlocked and depressed open for connection or disconnection. When used for human rescue application, ensure the gate is closed and locked after attachment to individual.
- ❖ When used as a Handline / Meat Hook the 'OX HOOK / OX HORN' can also be locked in the open position. To lock open:
  - Depress the lock mechanism (Fig. 5).
  - Depress the gate (keeper) (Fig. 6).
  - Release the lock mechanism (Fig. 7).
  - Release the gate (keeper) Fig. 8).
  - The gate (keeper) is locked in the open position (Fig. 9).



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

❖ To release the 'OX HOOK / OX HORN' from the Locked Open Position:

**Fig. 10**

- Depress the lock mechanism and the gate (keeper) simultaneously and release (Fig. 10).



### Limitations and Proper Use:

The 'OX HOOK / OX HORN' has been designed and tested to specific load designations. Be aware of the designed load limitations and proper user technique. Do not overload the hook. Connectors can and will fail through improper use. If you are not sure of proper application or user technique, seek proper training in handline hook use and technical rope application.

Working Load Limit (WLL) - refers to the maximum load (rated capacity) that the component is authorized to support in use when the load is applied in line with respect to the centerline of the component (Fig. 2). See Working Load Limits above:

The manufacturer does not accept any liability for damages or injury that results from this product being improperly used, in excess of the stated Working Load Limit or from abuse.

### Inspection and Retirement Criteria:

The 'OX HOOK / OX HORN' must be inspected by the user at time of purchase, before and after each use and at least annually by a competent person, other than the user. Inspection should include but not be limited to ensuring:

- It is in good working condition
- Rivets have adequate head and are not loose such that function is compromised.
- All surfaces of the hook are free of cracks, distortion, sharp edges, corrosion, burrs and excessive wear.
- Gate (keeper) is not bent or distorted, ensure it does not bind and properly seats in the bill.
- Gate (keeper) and lock mechanism are free of burrs.
- Gate (keeper) and lock mechanism closes completely.
- Gate (keeper) and lock mechanism and rivet attachment points are properly lubricated.
- Gate (keeper) rivet is properly seated / positioned in the rivet slot of the snaphook bill. (rivet should be centered and resting against snaphook body surface). (Fig. 1)
- Gate (keeper) and lock mechanism springs are properly seated and aligned.
- Gate (keeper) opens completely, moves through its full range of motion smoothly, and returns to its original position within the bill.

An 'OX HOOK / OX HORN' that does not pass this inspection must be removed from service and destroyed.

### **Inspect each system component or subsystem according to the supplied manufacturer's instructions.**

If inspection reveals a defective condition, remove the unit from service and destroy it, or contact an authorized service center for repair. Only Buckingham Mfg. Co. or those people authorized in writing by Buckingham Mfg. Co. may make repairs to this equipment. Product must not be altered in any way.

### **WARNINGS SPECIFIC TO THIS PRODUCT:**

- Completely read, understand, and follow all instructions, warnings, and guidelines pertaining to this and all associated equipment before use. Failure to do so could result in your serious injury or death.
- This equipment is intended for use by properly trained professionals only.
- Employer - instruct your employees as to proper use, warnings and cautions before use of this equipment.
- Use and inspect this equipment in accordance with the manufacturer's instructions and applicable OSHA regulations.
- Misuse / abuse could lead to improper functioning with risk of injury!!! Never attempt to alter or modify.
- Never use the 'OX HOOK / OX HORN' for rescue when the gate is in the locked open position. Gate must be closed and locked.
- Do not file, engrave, etch or modify for any reason.
- Product must be immediately removed from service and destroyed if subjected to fall arrest, impact loading or fails to pass inspection criteria.
- When making a connection using these connectors, ensure the connection is in accordance with safe practice for the intended application of use.

- Improper loading directions can cause the hook to fail or the gate (keeper) to open, releasing the load. Only load in the longitudinal direction as shown (Fig. 2).
- Do not install more than one 'OX HOOK / OX HORN' into a single connection ring or opening (except in an emergency situation).
- Do not connect the 'OX HOOK / OX HORN' to objects or openings that may abrade or wear the hook material.
- When the 'OX HOOK / OX HORN' is in the closed position, ensure the lock mechanism cannot come into contact with your body or foreign objects including but not limited to beams, structural members, cables, branches etc. and be accidentally depressed/disengaged as this will make it very susceptible to rollout.
- When the lock mechanism is not activated, the gate (keeper) should remain securely locked when depressed.
- Depress the lock mechanism. It should move downward easily and spring back to its original position without binding or sticking.
- Refer to additional product manufacturer's instructions that maybe furnished with equipment before use.
- Contact Buckingham Mfg. Co. at 1-800-937-2825 should you have component / product inspection / findings/ use questions.

Buckingham Mfg. is not responsible for subsystem assemblies we do not manufacture and used in conjunction with this component.

It is the responsibility of users of this equipment to understand these instructions and to be trained in its correct installation, use, and maintenance. These individuals must be aware of the consequences of improper installation or use of this product. These instructions are not a substitute for a comprehensive training program. Training must be provided on a periodic basis to ensure proficiency of the users.

IF YOU HAVE ANY DOUBT CONCERNING THE USE OF THIS PRODUCT - DO NOT USE IT!

### **Maintenance, Cleaning & Storage:**

Keep the 'OX HOOK / OX HORN' dry and clean. Do not store in humid or salty air, at extreme temperatures, with damp clothing or near solvents or corrosive chemicals. A dirty product should be washed and rinsed in clean water, then dried. The use of lukewarm water with dish soap such as 'Dawn' provides the best and safest method of cleaning without having any adverse effects on the plating. Rinse connector in lukewarm water after cleaning. A clean dry cloth can be used to dry the connector. LUBRICATE lock mechanism and gate (keeper) on both sides after cleaning and AT LEAST WEEKLY or AS OFTEN AS REQUIRED to maintain smooth operation (no binding) with light weight lubricant such as BuckLube, WD-40®, Etc.

### **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/>

Patented, for more information, visit [BuckinghamMfg.com/Patents](http://BuckinghamMfg.com/Patents).

**BUCKINGHAM MFG.**  
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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.