

BUCKINGHAM MFG.

BUCKET RESCUE DEVICE (MODEL NO. 3813 / 3813D1)

Buckingham's P/N 3813 / 3813D1 series has been designed to provide a means to rescue a worker from an elevated height. This system and any of its **components must not be used for any other purpose.**

The Buckingham Bucket Rescue Device includes a block and tackle system consisting of two double pulleys to provide a 4:1 reduction in load required to lift the worker.

In compliance with the ANSI Z359.4 standard this product has a user weight limit of 130 to 310 lbs. (59 to 140 kg) when fully equipped. Outside of the ANSI Z359.4 compliance this system can be used as follows:

- Exceptional cases like an accompanied descent (i.e. hurt man rescue): 440 lbs. (200 kg) maximum, when fully equipped. This method of rescue can only be used by rescuers specially trained in this technique.
- Single person load of 420 lbs. (190.5 kg) maximum, when fully equipped and when used with an equivalently rated harness / accessories.

Note: as a minimum use of this system requires:

- no impact loading.
- the rescuer must have the physical ability and adequate strength to hold the worker at any point during the rescue. (i.e. the minimum force on the haul line for a 420 lb. individual based upon the systems 4:1 ratio blocks, is 105 lbs.
- it is recommended that an additional braking system be used. To add additional braking to the system, the user must route the tail end of the haul line around a suitable stationary object (such as a pole) to create friction. The amount of braking / friction can be controlled by varying the number of wraps around the stationary object.

Maintenance and inspection of this rescue equipment is the responsibility of the assigned crew and requires inspection including but not limited to the block and tackle, fall line, swivels, swivel lock rings, springs, straps and buckles. After inspection, operate entire unit. This maintenance and inspection also applies when using a spare bucket truck.

NOTE: Ratchet components as well as the snap hook keeper, locking mechanism and springs should also be thoroughly inspected for corrosion.

Recommended inspection intervals: Visual inspection: Prior to raising the boom, perform a visual examination of the boom attachment strap, ratchet mechanism and storage bag for damage, deterioration or improper attachment.

Inspection should include but not be limited to ensuring that unit is free of burns, cuts, abrasions, kinks, knots, broken strands or excessive wear and dee rings, snaphooks, blocks and buckles (if any) function properly and are not cracked or distorted.

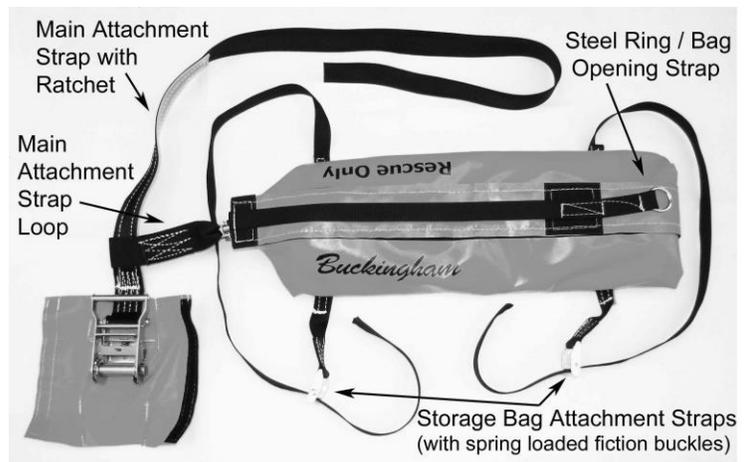
Only Buckingham Mfg. Co. or those people authorized in writing by Buckingham Mfg. Co. may make repairs / modifications to this equipment.

As a minimum annually inspect complete system and repack. As required by ANSI Z359.4: "Equipment shall be inspected by the rescuer before each use and additionally by a competent person other than the rescuer at intervals of no more than one year".

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.

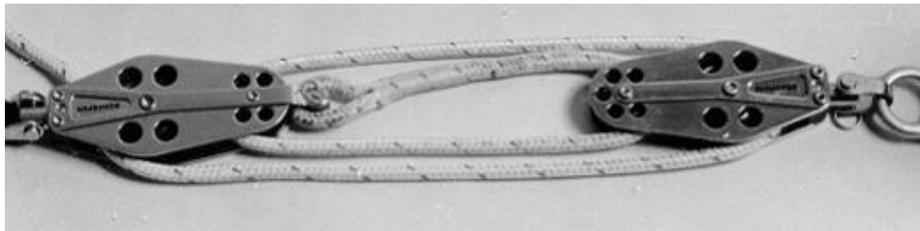
SYSTEM COMPONENTS:

PN 3813 shown

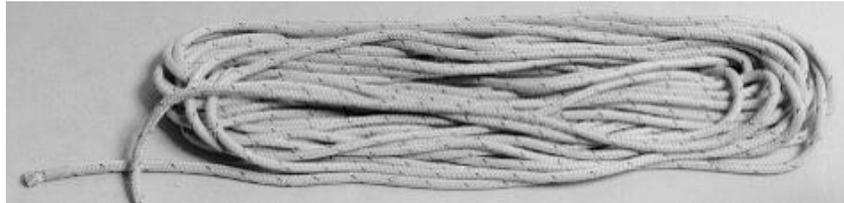


WARNING: Storage Bag Attachment Straps are designed to hold the Storage Bag to the Boom, Not for Human Support.

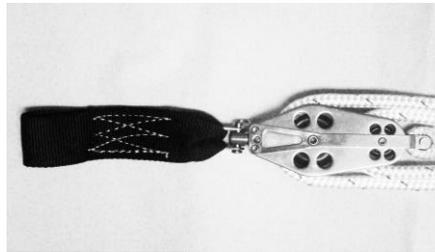
Block and Tackle



Fall Line



Main Attachment Strap with Ratchet and Cover



Top Block with Swivel connected to Main Attachment Strap Loop (Model 3813)



Top Block with Swivel connected to Snap Hook (Model 3813D1)



Snaphook (Style may vary from that shown)

← Velcro Closure

PRIOR TO ATTACHING THE BUCKET RESCUE DEVICE TO THE BOOM:

1. Remove all components including product instructions from the storage bag. See System Components section above for details of the entire system.
2. **Read and fully understand all instructions and warnings before installation and use.**
3. Thoroughly inspect all components and operate swivels, pins, pin lock rings, shives, snap hooks, ratchets, etc. to ensure they function properly.
4. Inspect and operate the blocks for proper rigging. Also, run the blocks several times to assure that they function properly. NOTE: If blocks DO NOT function properly, correct or replace the unit.
5. Ensure a stopper knot is tied approximately one foot from the end of the fall line. If there is no knot near the end of the line, tie an overhand knot approximately one foot from the end of the fall line. See Fig. 1.



Fig. 1

REPACK:

1. Upon completion of inspection, re-pack the unit into the storage bag as described below.
2. PN 3813: Lay out blocks to the interior length of the bag with the snaphook toward the closed end and the 1 3/4" black nylon web main attachment strap loop extending out from the open end of the bag. See Fig. 2.

PN 3813D1: Would follow the same instruction with the only exception being that the top block with attached snaphook should extend from the open end of the bag. See Fig. 2 (PN 3813 shown.)

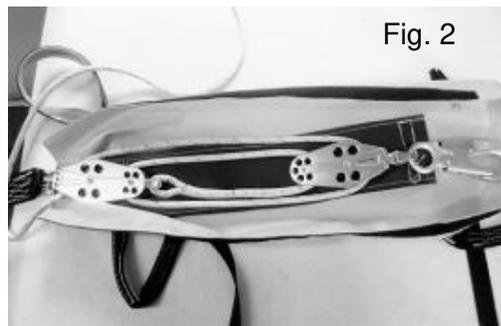


Fig. 2

3. Hand coil the remaining fall line to the size of the storage bag and place it neatly into the bag on top of the blocks (Fig. 3). This will allow the coil to fall out without being entangled into itself.

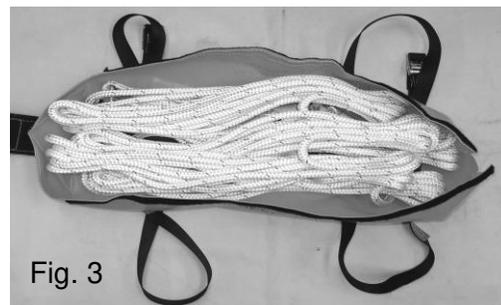


Fig. 3

4. To close the bag, fold the end of the bag inward, then, while holding the two halves of the bag together in the middle, close the bag with the Velcro-lined vinyl strip. See Fig. 4

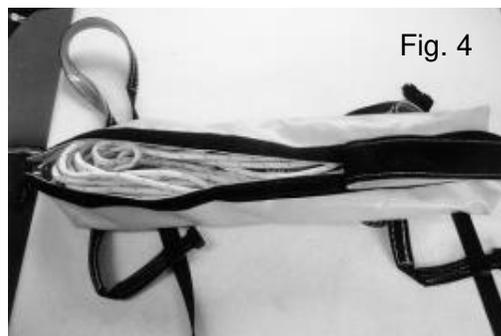


Fig. 4

INSTALLATION:

INSTALLATION INSTRUCTIONS FOR ATTACHING THE STORAGE BAG TO THE BOOM

1. Install the block and tackle storage bag on the boom approximately 7 feet from the centerline of the bucket mounting shaft. (Note; Ensure attachment is at adequate height to remove hurt person from bucket.) The storage bag should be mounted on the bucket side of the boom (Fig. 5), except on double bucket trucks, on which the bag should be mounted on the bottom of the boom to facilitate the two buckets. The bag should be installed with the drain hole facing down so as to not allow water to collect in the bag with the boom stored for transit.
2. Attach by looping the storage bag attachment straps around the boom and feeding them through the spring loaded friction buckles. Then pull the straps tight so that the storage bag is securely in place.



Fig. 5

INSTALLATION INSTRUCTIONS FOR ATTACHING THE BLOCK AND TACKLE TO THE BOOM

1. When securing the main attachment strap / ratchet to the boom, ensure the placement is such that it can be easily accessible for attachment/removal of the bag by any person who may be required to use the unit. Ensure attachment is at adequate height to remove hurt person from bucket.
2. The main attachment strap should be mounted so that the Main Attachment Strap Loop (PN 3813) or dee ring (PN 3813D1) is on the bucket side of the boom, except on double bucket trucks, on which the dee ring should be on the bottom of the boom to facilitate the two buckets.

PN 3813: To mount the block and tackle to the boom, weave the main attachment strap around the boom and through the main attachment strap loop. See Fig 6 & 7.



Fig. 6

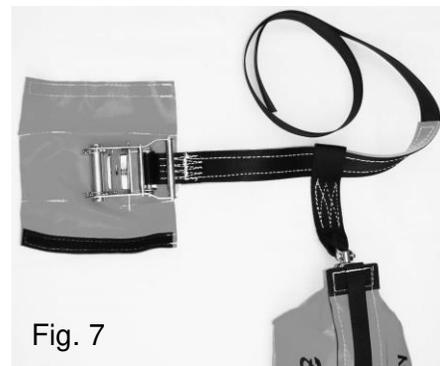
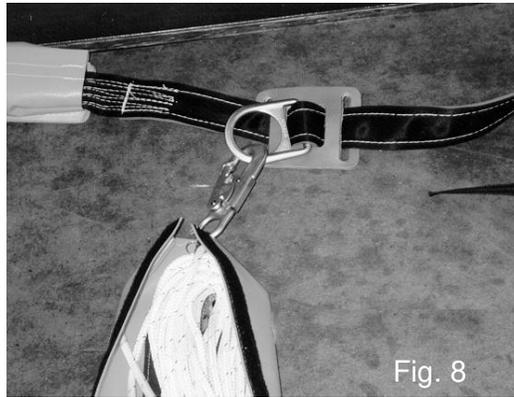


Fig. 7

Main Attachment Strap threaded through the Main Attachment Strap Loop (PN 3813)

PN 3813D1: To mount the block and tackle to the boom weave the main attachment strap around the boom and then connect the snaphook to the dee ring. Always visually check that the connecting device freely engages the dee ring and the keeper/gate is completely closed. See Fig 8.



Snaphook connected to the dee ring (PN 3813D1)

3. Threading main attachment strap through ratchet:

- a. Thread the free end of the nylon strap through the slot in the winder bar (Fig. 9).



- b. Pull the strap through the winder bar until the strap is taut (Fig 10).



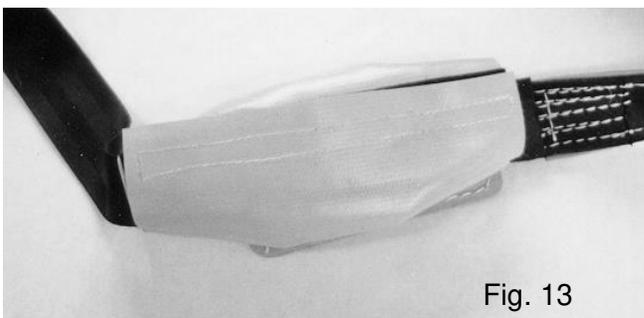
- c. Tighten the strap with the ratchet until the strap is sufficiently snug to prevent the unit from moving when in use (Fig. 11). NOTE: For installation on a square boom, ensure ratchet lies against the flat surface.



- d. Lock the ratchet by inserting the cotter pin through the holes in the ratchet housing and handle and spreading the ends of the cotter pin (Fig 12).



- e. Cut off excess strap, leaving approximately 6" protruding from the ratchet. Burn the cut end of the strap to prevent fraying.
- f. Cover the ratchet by folding the vinyl flaps of the cover over the ratchet and mating the Velcro strips (Fig.13).



OPERATION:

1. Rescuer positions the bucket then pulls downward on steel ring to open the bag. The fall line, block and snaphook release from the bag. Do not allow the fall line to fall into the bed of the truck where it could become tangled.



2. Rescuer secures the fall line snaphook to the fall arrest attachment of the lineman's harness and removes his fall arrest lanyard.



3. The victim is then hoisted out of the bucket.

Note: Prior to initiating this step, rescuer must ensure he / she has the physical ability and adequate strength to hold the worker at any point during the rescue. (i.e. the minimum force on the haul line for a 420 lb. individual based upon the systems 4:1 ratio blocks, is 105 lbs.)



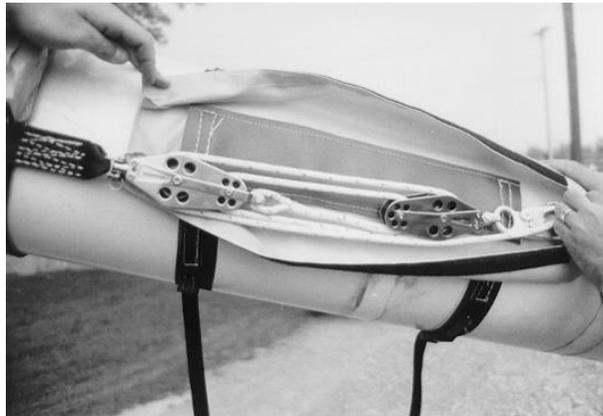
4. The rescuer lowers the victim to the ground for medical attention.



INSTRUCTIONS FOR RE-PACKING WHILE THE BAG IS ATTACHED TO THE BOOM:

1. Two people are required to place the unit in the storage bag. Using the full capacity of the storage bag, adjust the length of the block and tackle to the dimensions of the interior of the bag and insert the block and tackle with the snap hook positioned toward the bucket (Fig. 14).

Fig. 14



2. The remaining fall line is hand coiled to the size of the storage bag and placed neatly into the bag (Fig. 15). This will allow the coil to fall out without being entangled into itself.

Fig. 15



3. The storage bag can now be closed by mating the Velcro strips (Fig. 16). Remember, the drain hole of the storage bag will face down when properly installed.

Fig. 16



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

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Hardware may vary from that shown in figures.

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.