

BUCKINGHAM MFG

PN 126A Arborist Buck-It Restraint System

Buckingham's bucket restraint system was designed to address the revised OSHA 1910.267 (C) (2) (V) regulations pertaining to the use of fall protection equipment in a bucket truck. The concept being to secure a rated strap around the basket and uses two attachment points to prevent the worker from falling or being catapulted from the basket. In the event the basket was to separate from the boom, an energy absorbing device is attached from the basket back to the boom, that will keep the worker and the basket from hitting the ground. This system fits both single man and man and a half baskets.

Components of the 126A Buckingham Arborist Buck-It Restraint System

Fig. A – PN 126A

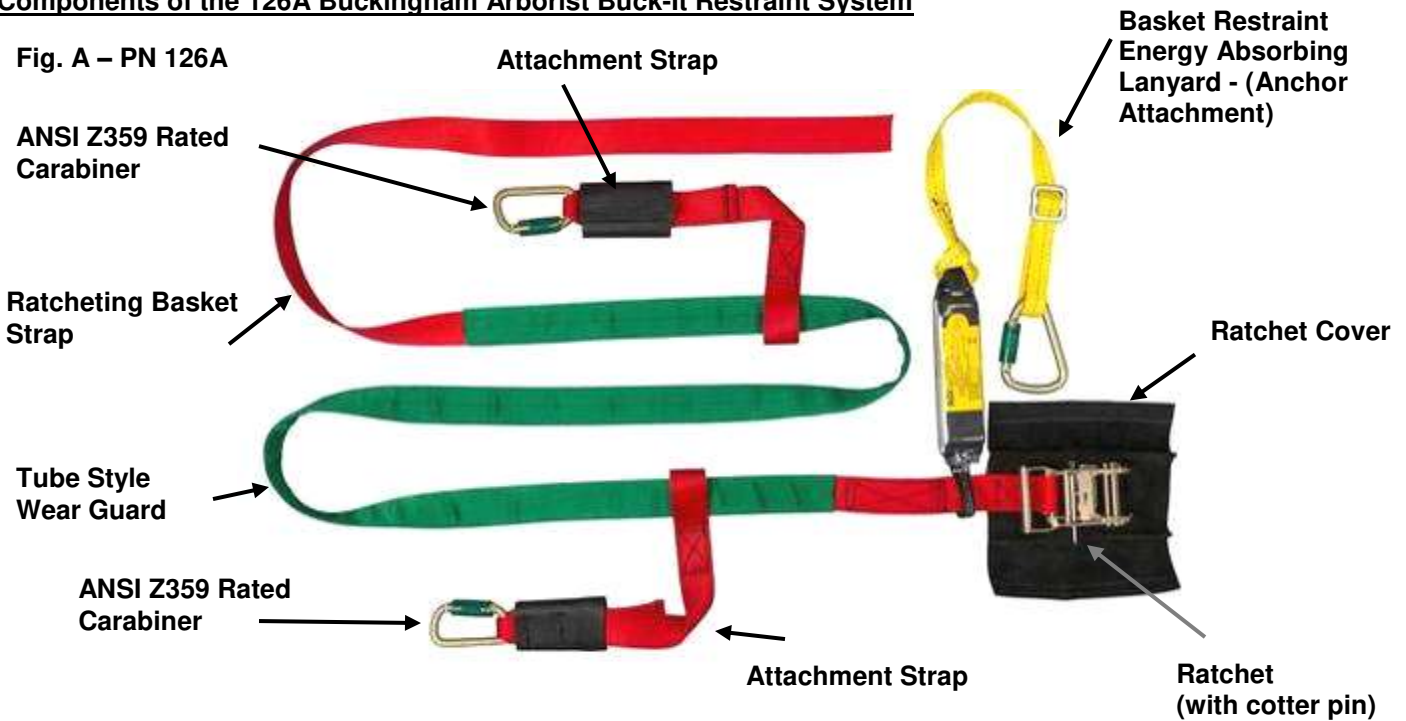


Fig. B – Aerial Belt / Linemens Belt / Arborist Saddle (Sold Separately)

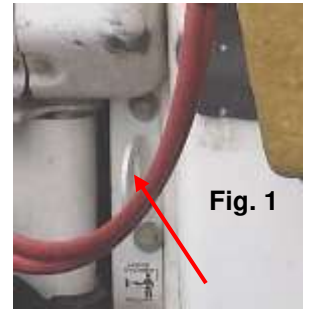
Example: PN 3852Q8
Aerial Belt shown



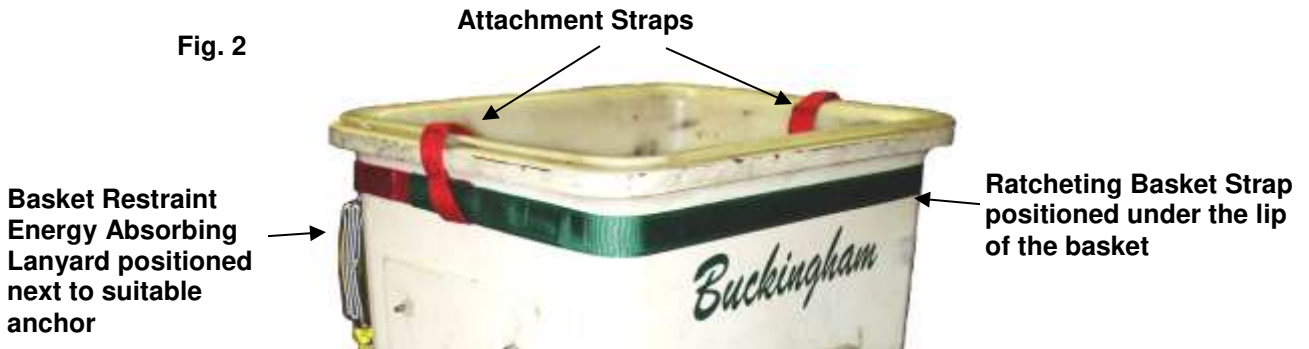
PN 126A Mounted on a Single Man Bucket

Installation of the Buck-It Restraint System:

1. Locate a suitable anchor point that is connected to the boom (Fig. 1) and determine the best location to position the Basket Restraint Energy Absorbing Lanyard.
Note: Buckingham PN 3809R – Ratcheting Boom Strap Anchorage may be used to provide a suitable anchor directly on the boom.
2. Place the Ratcheting Basket Strap just under the lip of the basket, positioning the Attachment Straps on opposite sides of the bucket (Fig. 2).



Note: The Basket Restraint Energy Absorbing Lanyard must connect back to a suitable anchor point on the boom / truck.



Optional - Recess Bracket Installation

Note: Some aerial baskets are manufactured with a recess near the hinge point to allow for access to controls (see Fig. 3). If your basket has this recess, the restraint strap may interfere with the operation of the controls as shown in Fig. 4. To correct this situation, Buckingham offers its optional Recess Bracket (Buckingham PN 126R5) intended to be installed under the lip of the basket directly in front of the recess and in between the mounting ribs of the basket. To install, align the Recess Bracket so that its flat section is towards the outside flat of the basket with the bracket ears facing the controls (see Fig. 5). After installation, thread the webbing of the Ratcheting Basket Strap through the Recess Bracket as shown by Fig. 6 and then continue to wrap around the basket.

Fig. 3



Fig. 4



Fig. 5

Fig. 6

PN 126R5



3. Ensure there are no twists in the webbing when it is wrapped around the perimeter of the basket.

4. Insert the end of the webbing through the ratchet and re-adjust if needed so the Attachment Straps are properly positioned opposite each other.
 - a. Tighten the Ratcheting Basket Strap to create a tight fit around the basket.
 - b. Insert the cotter pin through the pre-drilled hole in ratchet mechanism and bend the legs of the cotter pin outward to ensure the pin cannot be unintentionally removed (Fig. 7).
 - c. Fold the excess webbing over the ratchet (Fig. 8) and wrap the ratchet jacket over the ratchet and excess webbing securing the hook and loop fastener in the closed position (Fig. 9).

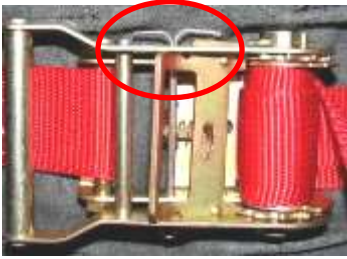


Fig. 7



Fig. 8



Fig. 9

5. Attach the carabiner of the Basket Restraint Energy Absorbing Lanyard to a suitable anchor point on the trucks boom (Fig. 10 – 12) and ensure the keeper / gate is completely closed. Never rely on the feel or sound of a carabiner engaging. Anchor points may be of different configurations or locations dependent on the boom / truck manufacturer. See boom / truck manufacturer's instructions for appropriate anchor point connection.



Fig. 10



Fig. 11



Fig. 12

Connecting the Attachment Straps to the Belt / Saddle Work Positioning D-rings:

1. Open the carabiner of one of the Attachment Straps and connect to the work positioning D-ring of Aerial Belt / Linemens Belt / Arborist Saddle (Fig. 13).
2. Ensure the gate of the carabiner is completely closed (Fig. 14).
3. Repeat steps 1-2 to connect opposite side Attachment Strap to the work positioning D-ring of Aerial Belt / Linemens Belt / Arborist Saddle (Fig. 15-16).



Fig. 13



Fig. 14



Fig. 15

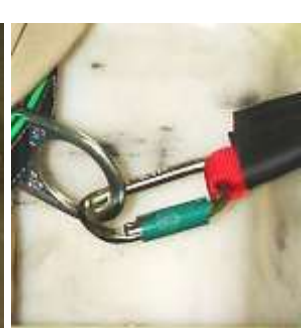


Fig. 16

Adjustment of Attachment Straps:

Adjust the Attachment Straps so the user can not lift off the bottom of the bucket by more than 2”.

1. Shortening the Attachment Straps:

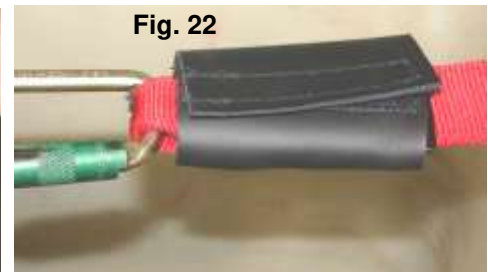
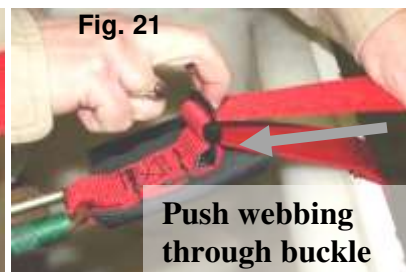
- a. Open the buckle jacket exposing the Attachment Strap adjustment buckle (Fig. 17).
- b. Pull the tail of the webbing away from the adjustment buckle shortening the Adjustment Strap to the desired length (Fig. 18).
- c. Wrap the buckle jacket over the buckle and secure the hook and loop fastener in the closed position (Fig. 19).



2. Lengthening the Attachment Straps:

- a. Open the buckle jacket exposing the Attachment Strap adjustment buckle (Fig. 20).
- b. Rotate the buckle up 90° and push the tail of the webbing through the adjustment buckle lengthening the Adjustment Strap to the desired length (Fig. 21).
- c. Wrap the buckle jacket over the buckle and secure the hook and loop fastener in the closed position (Fig. 22).

When properly attached / adjusted such that the user can not lift off the bottom of the bucket by more than 2”, the system is ready for use.



INSPECTION: Prior to and after each use, carefully inspect each component. Supplement these inspections with periodic inspections on a monthly basis even if the product has not been used. The inspection should include, but not be limited to the following:

Webbing: Ensure webbing is free from cuts, kinks, abrasions, burns, excessive swelling, excessive wear, discoloration, cracks, charring, broken fibers, loose stitching, chemical or physical exposures.

Stitching: Ensure there is no loose stitching, broken, cut or burned threads.

Buckle: Ensure the buckle has no cracks, distortion and /or excessive nicks, corrosion, etc. that may be detrimental to its intended function.

Aerial Belt / Linemens Belt / Arborist Saddle: Inspect as outlined in the instructions and warnings supplied with that product.

Carabiner: Ensure locking device and gate operate freely and smoothly. Inspect to ensure no cracks, distortion, corrosion or nicks exist.

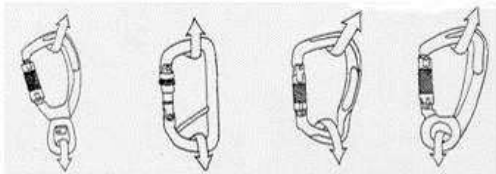
If any evidence of wear or deterioration as outlined is observed, immediately cease use, destroy the product, and replace it with new equipment. Should any unusual conditions not outlined above be observed or you have reasonable doubt about a particular condition, remove the equipment from service and notify your Supervisor, Safety Director, or contact Buckingham Mfg. Co. for clarification. Failure to carefully and completely inspect your equipment could result in serious injury or death.

WARNINGS:

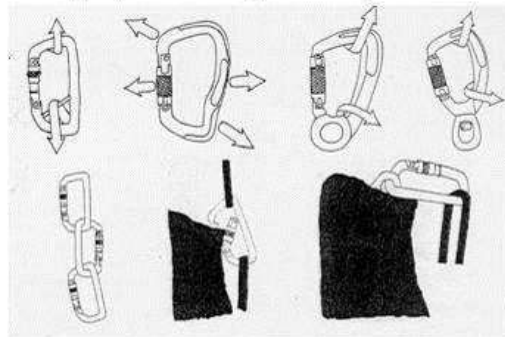
- Ensure:
 - Complete and proper installation of this system.
 - The Aerial Belt (Fig. B) / Linemens Belt / Arborist Saddle is properly secured to the user (waist strap must be secured tightly around the user's waist, do not leave the waist strap loose).
 - The Ratcheting Basket Strap is properly attached to the basket.
 - The Attachment Straps are properly attached to the user and to the Ratcheting Basket Strap.
 - Ensure the Energy Absorbing Lanyard is attached to the anchor point of the boom/ truck before elevating the basket.
- Read understand and follow all instructions and warnings attached to and / or packed with this product before use.
- This equipment is intended for use by properly trained professionals only.
- Anchor points must support a minimum of 5000 lbs. per attached worker.
- Avoid contact of system components against abrasive surfaces and sharp edges.
- Use this product only in combination with compatible equipment.
- Equipment subjected to impact loading must be immediately removed from service, destroyed and discarded.
- Always visually check that the carabiner freely engages the anchor point and the gate is completely closed. Never rely on the feel or sound of a carabiner engaging.
- Be certain the carabiner is positioned so that its gate is never load bearing.
- Ensure loads applied to carabiners are directed in the proper orientation. (Proper and improper loading techniques are shown in Fig. 23).

Fig. 23

Proper Loading Techniques



Improper Loading Techniques



- Never disable the locking mechanism on the carabiner, punch holes in or alter a connecting device in any way.
- Do not let any part of this kit come into contact with any chemicals, corrosive materials, acids or basic solvents.
- Product covered under these instructions / warnings should not be resold / redistributed or re-used after use by original user
- Employer - instruct employees as to proper use, warnings and cautions before use of this equipment.

MAINTAINANCE: Proper maintenance and storage of your equipment will prolong its useful life and contribute toward its performance. Clean equipment with water and mild soap and allow to dry thoroughly without using excessive heat. Lubricate as necessary. Apart from visual examination of product before and after each use, it should be inspected at least once a year by an authorized person.

NOTE: This product cannot be returned unless it is in new / unused condition.

Buckingham Mfg. Co

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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