

BUCKINGHAM MFG.

Articulator Harness (PN 69A9D8G7H00 & 69B9DQ5 - Series)

Harness to Body Belt Attachment & Donning Instructions

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.

These instructions are to be used to attach the Articulator Full Body Harness to Work Positioning Body Belt and to describe proper donning and adjustment procedures. The Articulator Harness can be attached to any Body Belt that is equipped with Harness Attachment Slots. PN 69A9D8G7H00 – series is shown below, PN 69B9DQ5-series is not shown.

Articulator Harness



Straightening & Daily Harness Inspection of Your Harness:

Pick up your harness by the Dorsal Attachment and shake it to allow the straps to fall free of each other. Make sure the leg strap buckles are connected at this time. Hold the harness with one shoulder strap in each hand to check for twisted straps. Straighten any twisted straps so that they hang freely. Inspect all areas of your harness for worn or frayed straps, broken stitches, faulty hardware, or any other signs of damage or excessive wear. If any of the above problems are found, destroy and discard the harness.

Attachment:

- At this point, you will note the different colors of the webbing.
 - 69A9D8G7H00 - series the Right Leg Strap is red, the Left Leg Strap is green and all other straps are black.
 - PN 69B9DQ5- series The Right Leg Strap is black, the Left Leg Strap and all other straps are safety green.Lie the harness down on a flat surface with the Dorsal Attachment facing up towards you (Fig. 1).
- Detach the Buckle on the Short Harness Back Strap (Fig. 2).
- Pull the webbing and the Back Strap Buckle through the Articulating Link (Fig. 3).
- Fold the Long Harness Back Strap down so it is lying flat below the Harness Leg Straps (Fig. 4).



- Lie the Body Belt with the inside facing down on top of the harness. The Body Belt should be positioned slightly above the Leg Straps and under the Back Pad (Fig. 5).
- Feed the Long Harness Back Strap up through the right Harness Attachment Slot (Fig. 6 & 7). The strap must go over the D-piece and under the Belt Strap (Fig. 7).



Fig. 5



Fig. 6

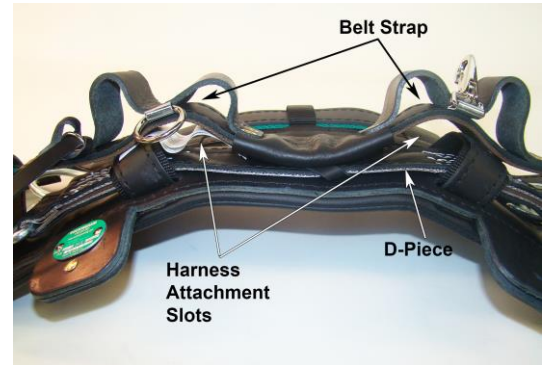


Fig. 7

- Feed the Long Harness Back Strap through the Articulating Link (Fig 8).
- Feed the Long Harness Back Strap down through the left Harness Attachment Slot and connect the Interlock Buckles of the Long Harness Back Strap and the Short Harness Back Strap (Fig. 8a & 8b). Secure any loose webbing in the strap keeper.



Fig. 8



Fig. 9a

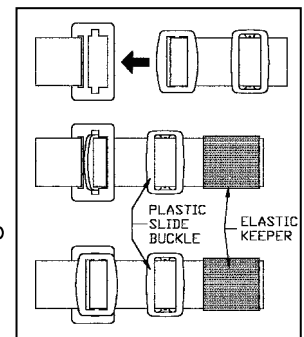


Fig. 9b

Donning the Articulator Harness with Attached Body Belt:

- Begin by holding both shoulder straps in your left hand.
- Slide the shoulder straps over your left shoulder. Put the right shoulder strap over your head. When properly positioned, your head will be between the shoulder straps within an area bounded by the Dorsal Attachment on the back and the Sternal Strap with D-rings on your chest.
- Adjust the Harness Back, Shoulder and Lower Straps as necessary so the Dorsal Attachment is positioned in the upper, middle portion of your back and fall 2 in. above or below the underside of your armpit and the top D-ring of the Sternal Strap is positioned in the upper, middle portion of your chest and fall 2 in. above or below the underside of your armpit (Fig. 10).

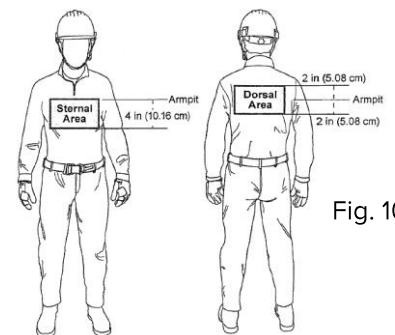


Fig. 10

4. Check to ensure that the straps are not twisted.
5. The long portion of the Leg Straps will be hanging down behind you. Pull this portion between your legs, adjust to length, and connect to the connecting buckle of the other end of the Leg Strap (Fig. 11) Ensure the Leg Straps are not twisted. Secure the excess strap with the strap keepers.
6. Align the Body Belt on your hips and connect the belt strap buckle to obtain a snug but comfortable fit. Stow the remaining belt strap in the belt strap keeper.
The waist belt should be under the harness straps to benefit the design of the Articulator, allowing the harness to float allowing the users freedom of movement such as lifting the arms.

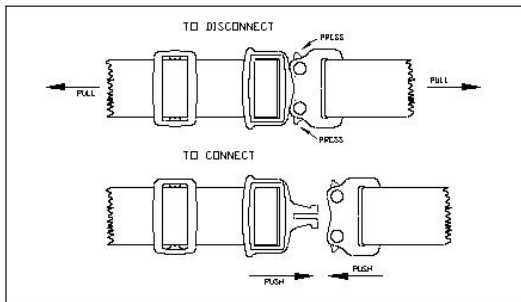


Fig. 11



Fig. 12

Final Adjustments:

Use adjustment points ('A') on Leg Straps, ('B') on Lower Straps, ('C') on Shoulder Straps and ('D') on Back Straps (ref. Fig 12) as needed to properly fit your harness. All straps should be adjusted so they are snug and comfortable, but not loose.

Upon completion of adjustments, ensure the fall arrest attachment is in the upper, middle portion of your back as stated in these instructions under "Donning Harness".

The leg strap buckles should lie on the front of your thighs, slightly below your hipbones.

Shoulder straps must be properly maintained on the shoulder (ref. Fig. 12).

Body Belt should provide a snug fit around your body (4 D-Ring Body Belts are designed to be worn on the waist not on the buttocks like a conventional Body Belt). The circle D-rings of the belt should be equally spaced on either side of the body.

Additional Instructions / Warnings for Quick Connect Buckle

For your information and attention:

Quick Connect Buckles on those Full Body Harnesses and Arborist's Tree Saddles that include this style of buckle 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 obstruction 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 obstructions is 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 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 harness or Arborists tree saddle 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.

Cleaning Instructions:

The Quick Connect Buckle 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.

Maintenance:

Lubricate pawls weekly or as often as required to maintain smooth operation (no binding) with a lightweight lubricant such as WD-40®. Wipe any excess lubricant off with a clean dry cloth.

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.

Should you have any questions regarding equipment manufactured by *Buckingham Manufacturing Co.*, contact us at 607-773-2400.

INSTRUCTIONS / WARNING

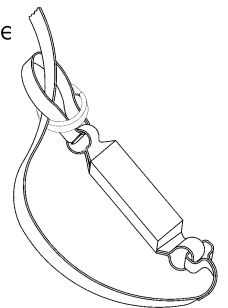
Full Body Harnesses

Manufacturer's instructions shall be provided to the user of this product. If additional copy is needed, contact Buckingham Mfg. Co. Read carefully, understand and heed these and all instructions, warnings and cautions packaged with this product before using this equipment. Failure to do so could result in your serious injury or death. Employer – instruct employee as to the proper use, warnings and cautions before use of this equipment.

ANSI Z359.11, ASTM F887, CSA Z259.10 and applicable OSHA regulations are standards / regulations utilized by Buckingham Manufacturing Co. for various full body harnesses (harnesses) manufactured. Harnesses are labeled to these standards as they are applicable.

Buckingham harnesses are intended as personal protection equipment for use by properly trained professionals only. Each piece of equipment is important in its function and design and in its relationship to all other components. Energy absorbing lanyards should be considered as a part of a personal fall arrest system used in conjunction with a harness. The energy absorber (pack end) must always be attached to the fall arrest attachment device included on the users equipment. Cover of energy absorber should not be removed and will not have any effect on the shock absorbing feature. Harness must be worn so the fall arrest attachment is centered in back near shoulder blade level. It is recommended that:

- A connecting device and fall arrest attachment manufactured with a web loop be attached with a hitch (See detail), or carabiner.
- If using a locking snap hook to a web loop fall arrest attachment the web loop must be protected by an integral wear piece to enhance visual inspection.
- All Web loop fall arrest attachments must be inspected before each use. The inspection should include, but not be limited to, inspecting for: webbing cuts, kinks, abrasions, burns, excessive swelling, excessive wear, discoloration, charring, broken fibers, loose stitching and chemical or physical exposures.



Note: The use of a locking snaphook to a web loop fall arrest attachment without an integral wear piece is acceptable in emergency situations (i.e. rescue, evacuation, etc.) Attachment of a locking snap hook to a web loop fall arrest attachment with no wear piece can cause premature wear of the webbing and stitching. This degradation can cause the web loop layers to separate and be incapable of supporting your weight. Therefore, the web loop fall arrest attachment must be inspected before use. Additionally, connections used to attach to the fall arrest attachment must have a minimum gate rating of 3600 lbf. and meet ANSI Z359.12 requirements.

Only positioning connecting devices should be attached to side D-rings, as side D-rings **are not** intended for fall arrest. OSHA requires that impact force in a fall not exceed an 1800 lbf. limit with a harness. Proper use of a harness with an energy absorbing lanyard will allow compliance with these limits when properly assembled.

Harnesses equipped with a front-mounted attachment element for fall arrest shall be used only as part of a personal fall arrest system that limits the maximum free fall distance to two feet and limits the maximum arrest force to 900 lbf. Ensure the front attachment element is properly positioned as stated under “Donning Harness” in these instructions (Harness Wearing Instructions).

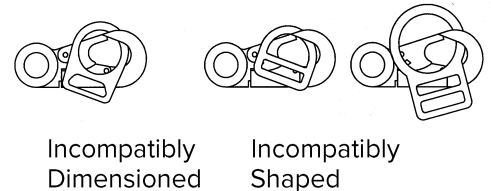
Selection of products should be such that they aid the worker in the performance of his job and particular work situation. Therefore, be certain this equipment is suitable for the intended use and work environment. It should only be used as personal protection equipment if suitability for intended use is questionable, always consult your Supervisor, Safety Director or contact Buckingham Mfg. at (607) 773-2400 or 1-800-937-2825.

No fall protection system can guarantee that you will not sustain injuries should a fall occur. Therefore, lanyards should be kept as short as possible to minimize free fall distance. OSHA specifies that maximum length of lanyard shall provide for a fall of no greater than six (6) feet. In addition, other factors such as harness stretch (Buckingham’s expected harness stretch value is 12” maximum), D-ring / connector length, settling of the user’s body, lanyard length, including energy absorber extension and all other contributing elements should be such that the user can not fall a distance that will allow contact with any lower level. The lanyard attachment point on the user should be in the middle of the back near shoulder blade level. Do not lengthen a lanyard by tying or knotting to another lanyard or connecting a snap to a snap. Lanyards should not be shortened by knotting rope or webbing as this can reduce the strength by 50% or more. NOTE: The hitch detailed above is not considered a knot.

Do not alter your harness or any safety product in any way. If your harness does not fit properly, replace it with one of the correct size. Wear your harness snug but not tight.

Unless the snap hook is a locking type and designed for the following connections, snap hooks shall not be engaged:

- directly to webbing, rope or wire rope
- to each other - they are not intended to be used that way and could twist apart
- to a D-ring to which another snap hook or other connector is attached.
- to a horizontal lifeline
- to any object which is incompatibly shaped or dimensioned in relation to the snap hook such that the connected object could depress the snap hook keeper a sufficient amount to cause it to release. (See Illustration)



Thorough employee training in the selection and proper use of personal protection equipment is imperative.

INSPECTION

Inspection should occur prior to each use of the harness by the user and at a minimum of once a year by a competent person. Carefully inspect the harness for indications of wear, deterioration or impact loading. The inspection should include, but not be limited to, inspecting for:

- all leather strength components. If found, immediately cease use, discard and replace as product does not meet existing standards
- webbing cuts, kinks, abrasions, burns, excessive swelling, excessive wear, discoloration, cracks, charring, broken fibers, loose stitching, chemical or physical exposures and buckle holes in strap are not damaged
- loose, bent or pulled rivets, bent grommets, and broken, cut or burned threads
- tongue of buckle does not bind on buckle frame
- buckles with spring loaded slide type friction bars - slide bars work properly, are not binding, missing, deformed, bent, or otherwise damaged.
- nicks, cracks, distortion or corrosion of hardware (buckle, "D"-ring, etc.)

NOTE: Buckingham harnesses are equipped with an impact load indicator label that is designed to deploy upon arresting a fall (see Harness layout photo on page 1). An impact load will tear the thread exposing this label making the text legible. If you can read the text the harness has been impact loaded. If any evidence of wear, deterioration or impact loading 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. for clarification. Failure to carefully and completely inspect your equipment could result in serious injury or death.

CAUTION

- ANSI Z359 and CSA Z259.10 recognize the use of this harness only within the capacity range of 130 - 310 lbs.
- Buckingham harnesses can be used by a person with a maximum weight of 420 lbs. when fully equipped and only when used with an equivalently weight rated 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 as assurance can not be granted that a used product meets criteria of applicable standards and is safe for use to a subsequent user.
- Only Buckingham Mfg. Co. or those people authorized in writing by Buckingham Mfg. Co. may make repairs to this equipment.
- Equipment subjected to impact loading must be immediately removed from service, destroyed and discarded.
- In the event of a fall, the employer must have a rescue plan and the means to implement it.
- Attach only locking connecting devices meeting standards / regulations for intended use for positioning and suspension to saddle / belt D-rings and attachment points.
- Only positioning connecting devices should be attached to side D-rings, as side D-rings are not intended for fall arrest.
- Do not connect any tools, accessory loops / snaps, etc. to the positioning circle D-rings. D-rings are for attachment of connecting device locking snap hooks only.
- For units with Work Position Web Loop(s): Buckingham recommends attachment only to carabiner. Buckingham Mfg. does not recommend attachment of a metal connector, other than a carabiner, to a web loop fall arrest attachment unless the web loop is protected by an integral wear piece, the connector meets the requirements of ANSI Z359.12 (3600 lbf. rated gate), the snap hook lock mechanism can not be inadvertently depressed and the web loop fall arrest attachment point is inspected prior to each use. Attachment of a metal connector, such as a locking snap hook, to a web loop fall arrest attachment with no wear piece can cause premature wear of the webbing and stitching. This degradation can cause the web loop layers to separate and be incapable of supporting your weight.
- If connecting to a personal fall arrest system by attaching directly through the web loop of an energy absorber carefully inspect the inside of the web loop for cuts, abrasions, broken strands, or excessive wear.
- Attach only compatibly sized snap hook onto rear fall arrest D-ring on harness and fall arrest anchor point. In the absence of a compatibly sized connector, use a locking type connector designed for the intended application.
- Fall arrest anchor points must support a minimum of 5000 lbf. per attached worker and be independent of worker support.
- For fall arrest, always keep anchor point above rear fall arrest attachment. If climbing above anchor point, attach to a new anchor point higher up. When anchor point to allow for connection above the fall arrest attachment device is not available, lanyard positioning must be such that free fall will be limited to a maximum of 6 feet and there will be no contact with a lower level.
- Never use an energy absorbing lanyard for positioning. Unit can open and extend which could result in a fall.
- Always attach the energy absorbing lanyard to the rear fall arrest attachment device included on the user's equipment.
- Always visually check that: 1) each snap hook / carabiner freely engages D-ring or anchor point, 2) keeper / gate is completely closed with each use. **Never** rely solely on the feel or sound of a snap hook / carabiner engaging.
- Make sure each snap hook / carabiner is positioned so that its keeper / gate is **never** load bearing.
- Never use combinations of components or sub systems, or both, which may affect or interfere with the safe function of each other.
- 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 rings and make it very susceptible to rollout.
- Never disable locking keeper / gate on snap hook / carabiner, punch holes in or alter a connecting device in any way.
- Avoid contact of this equipment with sharp edges, abrasive surfaces, high temperature surfaces, welding, or other heat sources, electrical hazards or moving machinery. When not in use, store to prevent exposure to the elements as well as over exposure to sunlight (U.V. degradation).
- Avoid contact of this equipment with chemicals that may damage the material. If in doubt, contact Buckingham Mfg. Co.
- This equipment is for personal use only, not towing or hoisting.
- Never work without independent fall arrest protection if there is danger of a fall.
- Always visually check that all buckles and snap hooks or carabiners are properly closed before use.
- Shoulder D-rings / attachments (optional) are intended for rescue / retrieval purposes only.
- Product covered under these instructions / warnings should not be resold / redistributed or re-used after use by original user.

Cleaning / Storage

Proper maintenance and storage of your equipment will prolong its useful life and contribute toward its performance. Storage areas should be clean, dry and free of exposure to corrosive elements, fumes, etc. Nylon and polyester 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.

Annex A

Note: This information from the Z359.11 document is required to be included in the instruction manual for the end user: ANSI/ASSE Z359 Requirements for Proper Use and Maintenance of Full Body Harnesses.

These are general requirements and information provided by ANSI/ASSE Z359, the Manufacturer of this equipment may impose more stringent restrictions on the use of the products they manufacture, see the Manufacturer's instructions.)

1. It is essential that the users of this type of equipment receive proper training and instruction, including detailed procedures for the safe use of such equipment in their work application. ANSI/ASSE Z359.2, *Minimum Requirements for a Comprehensive Managed Fall Protection Program*, establishes guidelines and requirements for an employer's managed fall protection program, including policies, duties and training; fall protection procedures; eliminating and controlling fall hazards; rescue procedures; incident investigations; and evaluating program effectiveness.
2. Correct fit of a Full Body Harness is essential to proper performance. Users must be trained to select the size and maintain the fit of their Full Body Harness.
3. Users must follow manufacturer's instructions for proper fit and sizing, paying particular attention to ensure that buckles are connected and aligned correctly, leg straps and shoulder straps are kept snug at all times, chest straps are located in the middle chest area, and leg straps are positioned and snug to avoid contact with the genitalia should a fall occur.
4. Full Body Harnesses which meet ANSI/ASSE Z359.11 are intended to be used with other components of a Personal Fall Arrest system that limit maximum arrest forces to 1800 pounds (8 kN) or less.
5. Suspension intolerance, also called suspension trauma or orthostatic intolerance, is a serious condition that can be controlled with good harness design, prompt rescue, and post fall suspension relief devices. A conscious user may deploy a suspension relief device allowing the user to remove tension from around the legs, freeing blood flow, which can delay the onset of suspension intolerance. An attachment element extender is not intended to be attached directly to an anchorage or anchorage connector for fall arrest. An energy absorber must be used to limit maximum arrest forces to 1800 pounds (8 kN). The length of the attachment element extender may affect free fall distances and free fall clearance calculations.
6. Full Body Harness (FBH) Stretch, the amount the FBH component of a Personal Fall Arrest system will stretch and deform during a fall, can contribute to the overall elongation of the system in stopping a fall. It is important to include the increase in fall distance created by FBH Stretch, as well as the FBH connector length, the settling of the user's body in the FBH, and all other contributing factors when calculating total clearance required for a particular fall arrest system.
7. When not in use, unused lanyard legs that are still attached to a Full Body Harness D-ring should not be attached to a work positioning element or any other structural element on the Full Body Harness unless deemed acceptable by the competent person and manufacturer of the lanyard. This is especially important when using some types of "Y" style lanyards, as some load may be transmitted to the user through the unused lanyard leg if it is not able to release from the harness. The lanyard parking attachment is generally located in the sternal area to help reduce tripping and entanglement hazards.
8. Loose ends of straps can get caught in machinery or cause accidental disengagement of an adjuster. All Full Body Harnesses shall include keepers or other components which serve to control the loose ends of straps.
9. Due to the nature of soft loop connections, it is recommended that soft loop attachments only be used to connect with other soft loops or carabiners. Snap hooks should not be used unless approved for the application by the manufacturer.

Sections 11-17 provide additional information concerning the location and use of various attachments that may be provided on this FBH.

10. **Dorsal** – The dorsal attachment element shall be used as the primary fall arrest attachment, unless the application allows the use of an alternate attachment. The dorsal attachment may also be used for travel restraint or rescue. When supported by the dorsal attachment during a fall, the design of the Full Body Harness shall direct load through the shoulder straps supporting the user, and around the thighs. Supporting the user, post fall, by the dorsal attachment will result in an upright body position with a slight lean to the front with some slight pressure to the lower chest. Considerations should be made when choosing a sliding versus fixed dorsal attachment element. Sliding dorsal attachments are generally easier to adjust to different user sizes, and allow a more vertical rest position post fall, but can increase FBH Stretch.
11. **Sternal** – The sternal attachment may be used as an alternative fall arrest attachment in applications where the dorsal attachment is determined to be inappropriate by a competent person, and where there is no chance to fall in a direction other than feet first. Accepted practical uses for a sternal attachment include, but are not limited to, ladder climbing with a guided type fall arrestor, ladder climbing with an overhead self-retracting lifeline for fall arrest, work positioning, and rope access. The sternal attachment may also be used for travel restraint or rescue.

When supported by the sternal attachment during a fall, the design of the Full Body Harness shall direct load through the shoulder straps supporting the user, and around the thighs. Supporting the user, post fall, by the sternal attachment will result in roughly a sitting or cradled body position with weight concentrated on the thighs, buttocks and lower back. Supporting the user during work positioning by this sternal attachment will result in an approximate upright body position.

If the sternal attachment is used for fall arrest, the competent person evaluating the application should take measures to ensure that a fall can only occur feet first. This may include limiting the allowable free fall distance. - It may be possible for a sternal attachment incorporated into an adjustable style chest strap to cause the chest strap to slide up and possibly choke the user during a fall, extraction, suspension, etc. The competent person should consider Full Body Harness models with a fixed sternal attachment for these applications.

12. **Frontal** – The frontal attachment serves as a ladder climbing connection for guided type fall arrestors where there is no chance to fall in a direction other than feet first, or may be used for work positioning. Supporting the user, post fall or during work positioning, by the frontal attachment will result in a sitting body position, with the upper torso upright, with weight concentrated on the thighs and buttocks.

When supported by the frontal attachment the design of the Full Body Harness shall direct load directly around the thighs and under the buttocks by means of the sub-pelvic strap.

If the frontal attachment is used for fall arrest, the competent person evaluating the application should take measures to ensure that a fall can only occur feet first. This may include limiting the allowable free fall distance.

13. Shoulder – The shoulder attachment elements shall be used as a pair, and are an acceptable attachment for rescue, and entry/retrieval. The shoulder attachment elements shall not be used for fall arrest. It is recommended that the shoulder attachment elements be used in conjunction with a yoke which incorporates a spreader element to keep the Full Body Harness shoulder straps separate.

14. Waist, Rear – The waist, rear attachment shall be used solely for travel restraint. The waist, rear attachment element shall not be used for fall arrest. Under no circumstances is it acceptable to use the waist, rear attachment for purposes other than travel restraint. The waist, rear attachment shall only be subjected to minimal loading through the waist of the user, and shall never be used to support the full weight of the user.

15. Hip – The hip attachment elements shall be used as a pair, and shall be used solely for work positioning. The hip attachment elements shall not be used for fall arrest. Hip attachments are often used for work positioning by arborists, utility workers climbing poles, and construction workers tying rebar and climbing on form walls. Users are cautioned against using the hip attachment elements (or any other rigid point on the Full Body Harness) to store the unused end of a fall arrest lanyard, as this may cause a tripping hazard, or, in the case multiple leg lanyards, could cause adverse loading to the Full Body Harness and the wearer through the unused portion of the lanyard.

16. Suspension seat - The suspension seat attachment elements shall be used as a pair, and shall be used solely for work positioning. The suspension seat attachment elements shall not be used for fall arrest. Suspension seat attachments are often used for prolonged work activities where the user is suspended, allowing the user to sit on the suspension seat formed between the two attachment elements. An example of this use would be window washers on large buildings.

USER INSPECTION, MAINTENANCE AND STORAGE OF EQUIPMENT

Users of personal fall arrest systems shall, at a minimum, comply with all manufacturer instructions regarding the inspection, maintenance and storage of the equipment. The user's organization shall retain the manufacturer's instructions and make them readily available to all users. See **ANSI/ASSE Z359.2, Minimum Requirements for a Comprehensive Managed Fall Protection Program** regarding user inspection, maintenance and storage of equipment.

1. In addition to the inspection requirements set forth in the manufacturer's instructions, the equipment shall be inspected by the user before each use and, additionally, by a competent person, other than the user, at interval of no more than one year for:

- Absence or illegibility of markings;
- Absence of any elements affecting the equipment form, fit or function;
- Evidence of defects in or damage to hardware elements including cracks, sharp edges, deformation, corrosion, chemical attack, excessive heating, alteration and excessive wear.
- Evidence of defects in or damage to strap or ropes including fraying, unsplicing, unlaying, kinking, knotting, roping, broken or pulled stitches, excessive elongation, chemical attack, excessive soiling, abrasion, alteration, needed or excessive lubrication, excessive aging and excessive wear.

2. Inspection criteria for the equipment shall be set by the user's organization. Such criteria for the equipment shall equal or exceed the criteria established by this standard or the manufacturer's instructions, whichever is greater.

3. When inspection reveals defects in, damage to, or inadequate maintenance of equipment, the equipment shall be permanently removed from service or undergo adequate corrective maintenance, by the original equipment manufacturer or their designate, before return to service.

Maintenance and Storage

1. Maintenance and storage of equipment shall be conducted by the user's organization in accordance with the manufacturer's instructions. Unique issues, which may arise due to conditions of use, shall be addressed with the manufacturer.

2. Equipment which is in need of, or scheduled for maintenance shall be tagged as "unusable" and removed from service.

3. Equipment shall be stored in a manner as to preclude damage from environmental factors such as temperature, light, UV, excessive moisture, oil, chemicals and their vapors or other degrading elements.

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.

BUCKINGHAM MFG. COMPANY, INC.
1-800-937-2825
www.buckinghammfg.com

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.