

BUCKINGHAM MFG.

INSTRUCTIONS / WARNINGS

PN PeerCheck-1 and PeerCheck-2 Lanyard Detection Systems

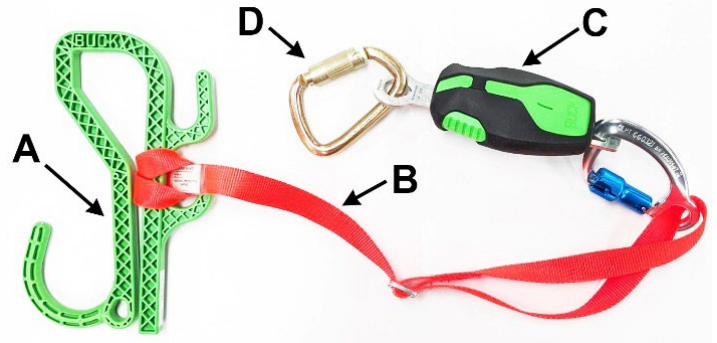
Warning: Do not use these products if you cannot understand and follow the instructions and warnings that come with them and complete all necessary functions.

Buckingham's PeerCheck-1 & PeerCheck-2 Lanyard Detection Systems have been designed as a means to remind the user to properly attach their fall arrest lanyard to a suitable anchor point of the bucket truck before entering the bucket they intend to work from. The bar of the Aerial Alarm Device acts as an approved connector that is to be mounted between the bucket truck anchor point and the user's energy absorbing lanyard. These systems are designed to sound an audible alarm when the snaphook or carabiner of the user's lanyard is not clipped into the Aerial Alarm Device. Once the user's lanyard is connected, the Aerial Alarm Device will not sound until disconnection. These systems are supplied with the battery installed and fully connected as shown below and consists of the following components. **NOTE:** PeerCheck-2 is intended to be used on buckets with anchor points in locations that may interfere with the bucket controls. Use of the PN PEEREXT-1 can redirect the PeerCheck assembly adding needed clearance.

Product options, colors and size may change from that shown below.

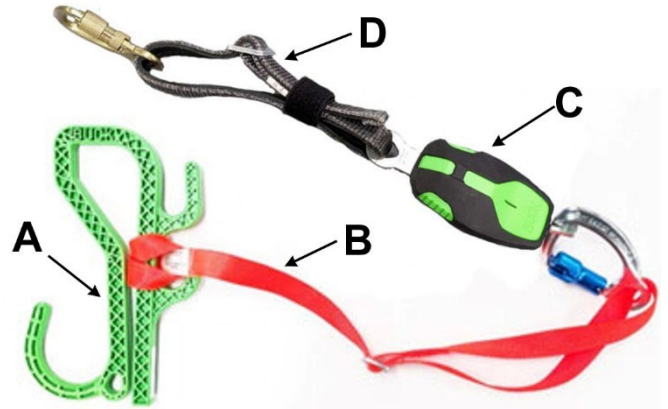
PN PeerCheck-1:

- A. PN 2410 - BuckEye Bucket Hook
- B. PN PEERLAN-1 - PeerCheck 40" Obstruction Lanyard with attached Lightweight Carabiner. (Not to be used as Fall Protection)
- C. PN PEERCHECK - Aerial Alarm Device
- D. PN 5005S3 - 3600 lb. Gate Carabiner



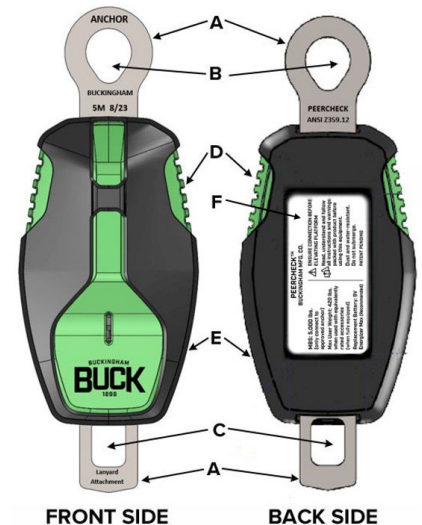
PN PeerCheck-2:

- A. PN 2410 - BuckEye Bucket Hook
- B. PN PEERLAN-1 - PeerCheck 40" Obstruction Lanyard with attached Lightweight Carabiner. (Not to be used as Fall Protection)
- C. PN PEERCHECK - Aerial Alarm Device
- D. PN PEEREXT-1 - Adjustable Extension Strap With PN 1711 Captive Eye Carabiner.



Aerial Alarm Device front and back views are shown for reference.

- A. Anchorage Bar
- B. Anchorage Attachment Connection Eye
- C. Lanyard Connection Slot (for attachment of Energy Absorbing Lanyard & Obstruction Lanyard)
- D. Housing
- E. Rubberized Protective Cover
- F. Product Label



Initial Installation Instructions

- ◆ Manufacturer's instructions shall be provided to the user of this product. If an additional copy is needed, contact Buckingham Mfg. at 1-800-937-2825. 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.
 - ◆ The PeerCheck Lanyard Detection System must be mounted to the bucket while the bucket is cradled on the truck.
 - ◆ Place the BuckEye Bucket Hook with attached Obstruction Lanyard over the bucket lip in a location opposite from the fall arrest anchor point on the truck. Anchor points may vary dependent on the make and model of the truck.
 - ◆ Disconnect the Lightweight Carabiner from the Lanyard Connection Slot of the Aerial Alarm Device and leave it connected to the lanyard.
 - ◆ NOTE: This disconnection will cause a fifteen second intermittent alarm to sound. After fifteen seconds a steady 83 decibel alarm will sound. The sounding of the intermittent alarm is intended and must be performed in order to test the system's operation. To silence the steady alarm, grasp the bottom of the Anchorage Bar near the Lanyard Connection Slot and push the housing up towards the top of the bar.
 - ◆ Once the above intermittent test has been performed, connect the Aerial Alarm Device by using the PN 5005S3 Carabiner (supplied with PN PeerCheck-1) or 1711 Captive Eye Carabiner (supplied with PN PeerCheck-2) to suitable fall arrest anchor point on the bucket truck. A suitable anchor point, as outlined by OSHA 1926.502 (d) (15) used for attachment of personal fall arrest equipment shall be independent of any anchorage being used to support or suspend platforms and capable of supporting at least 5,000 pounds (22.2 kN) per employee attached.
- NOTES:** PN PEEREXT-1 connected to the aerial alarm device is shown for reference (Fig. 1).
- If using PN PeerCheck-2:
- Detach the hook and loop fastener keeper from the extension strap.
 - Adjust the length of the extension strap webbing through the adjustment buckle as needed so the PeerCheck unit does not interfere with the bucket controls.
 - Once adjusted secure the tail of the extension strap with the hook and loop fastener keeper.
 - Follow the remaining initial installation steps below.
- ◆ Attach the Lightweight Carabiner to the Lanyard Connection Slot in the bar of the Aerial Alarm Device and release your grasp on the bar. The alarm should remain silent until disconnection of the Lightweight Carabiner.
 - ◆ Adjust the buckle of the Obstruction Lanyard to change the length so that the lanyard is taught and forms a barrier across the bucket.
 - ◆ Once properly installed the PeerCheck Lanyard Detection System should appear as shown (Fig 2).
 - ◆ Once installed, this system is intended to be left permanently attached to the bucket when it is not manned.
 - ◆ Buckingham suggests covering the system with a bucket cover when not in use for extended periods and during transportation (Fig 3).

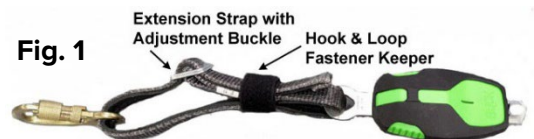
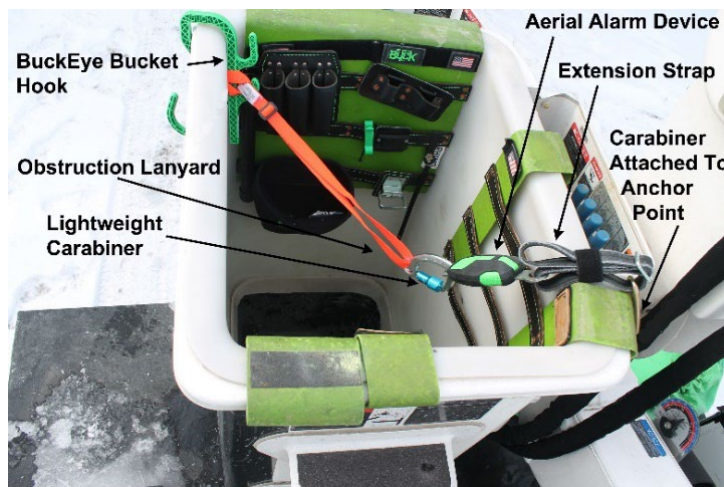


Fig. 2



Use Instructions

- ◆ 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 nor allow contact with any lower level. Therefore, factors such as D-ring / connector length, extension lanyard length, harness stretch not to exceed 18", settling of the user's body, energy absorber extension and all other contributing elements must be such that the user can not fall a distance greater than 6 feet or that will allow contact with any lower level. Buckingham suggests using only a 4.5' energy absorbing lanyard when using either the PeerCheck- 1 or PeerCheck-2.
- ◆ Use the PeerCheck Lanyard Detection System only in conjunction with ANSI approved PPE such as but not limited to, full body fall arrest harness, energy absorbing lanyards, Locking Snaphooks / carabiners, etc.
- ◆ With the PeerCheck Lanyard Detection System properly attached to the truck as outlined above, don and adjust your PPE in accordance with the manufacturer's instructions.
- ◆ Ensure the bucket is cradled in the down position and then approach the bucket.
- ◆ Ensure the PEERCHECK alarm is sounding and functioning properly before each use.
- ◆ Disconnect the Lightweight Carabiner of the Obstruction Lanyard from the Aerial Alarm Device.

NOTES:

- This disconnection will cause a fifteen second intermittent alarm to sound. After fifteen seconds a steady 83 decibel alarm will sound. The sounding of the intermittent alarm is intended and must be performed in order to test the system's operation and serves as audible reminder when entering the bucket that the user's energy absorbing lanyard carabiner needs to be attached. To silence the steady alarm, grasp the bottom of the Anchorage Bar near the Lanyard Connection Slot and push the housing up towards the top of the bar.
 - The Obstruction Lanyard with attached Lightweight Carabiner must never be used for fall protection.
 - The Obstruction Lanyard is supplied with a Lightweight Carabiner permanently attached with a captive pin. Never attempt to remove the captive pin from the carabiner or the carabiner from the lanyard.
- ◆ Connect the snaphook or carabiner of your energy absorbing lanyard to the Lanyard Connection Slot in the bar of the Aerial Alarm Device (Fig. 4).



Fig. 3



Fig. 4



Fig. 5



Fig. 6

- ◆ Release your grasp on the bar. The alarm should remain silent until disconnection of your energy absorbing lanyard.
- ◆ Visually check to ensure your snaphook or carabiner is properly attached to the bar and the gate is completely closed. Never rely only on the sound of a snaphook or carabiner gate closing (Fig. 5).
- ◆ Stow the Obstruction Lanyard to the BuckEye hook by placing the Lightweight Carabiner over one of the accessory hooks on the BuckEye Hook. (Fig. 6).

- ◆ Carefully enter the bucket as you normally would and raise the bucket to your desired work location.
- ◆ Repeat the above process whenever entering or leaving the bucket.

Warnings

- ◆ 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.
- ◆ Ensure the PEERCHECK alarm is sounding and functioning properly before each use.
- ◆ The Aerial Alarm Device is manufactured with an ANSI Z359.12 rated bar / connector section with an eye for carabiner connection to the bucket truck anchor point and another for attachment of the connector of the user's energy absorbing lanyard. Use the Aerial Alarm Device only for this purpose.
- ◆ This product functions as an extension to a suitable personal fall arrest anchor point with a 5000 lbf. rated capacity when in new condition and properly attached. Many factors must be taken into account when attaching, such as but not limited to attachment method, angle of loading, etc.
- ◆ Buckingham's Aerial Alarm Devices are manufactured, tested and rated for use by a person with a maximum weight of 350 lbs. (158.8 kg) when fully equipped.
- ◆ Be certain this equipment is suitable for the intended use and work environment. It should only be used as personal protection equipment (PPE). If suitability for intended use is in doubt, consult a safety engineer or contact Buckingham Mfg. before using.
- ◆ Never use the Obstruction Lanyard for fall arrest or any other purpose. It is intended to be used as a barrier to the bucket only and when disconnected as an audible reminder to attach the user's energy absorbing lanyard.
- ◆ Fall protection equipment, (i.e. lanyard detection systems, fall arrest, work positioning belts and straps, climbers, retrieval, suspension etc.) should not be resold or provided to others for re-use after use by the original user.
- ◆ Use the Aerial Alarm Device for fall arrest only with ANSI Z359.12 approved connecting components with 3600 lb. rated gates.
- ◆ The Product or any of its components must not be altered in any way.
- ◆ Only Buckingham Mfg. or those people authorized in writing by Buckingham Mfg. Co. may make repairs / modifications to this equipment. Note: battery change out is not considered a repair.
- ◆ Equipment subjected to impact loading must be immediately removed from service, destroyed, and discarded.
- ◆ Never attach more than one personal fall arrest system to the Aerial Alarm Device.
- ◆ 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 fall distance.
- ◆ OSHA specifies that personal fall arrest systems, when stopping a fall, limit arrest force to a maximum of 1800 lbf. (8 kN) when used with a harness, be rigged such that free fall does not exceed 6 feet nor allow contact with any lower level and limit maximum deceleration distance of the energy absorber to 3.5 feet.
- ◆ Attach and configure to avoid contact with structures below in a fall.
- ◆ Never use this product where your energy absorbing lanyard may make contact with sharp edges, corners or other sharp structural members, electrical hazards and moving machinery as well as chemicals, high temperature surfaces, welding or other heat sources which may damage the material. Sharp and abrasive surfaces may include but not be limited to (sheet metal, steel, concrete, block, stone, laminated materials etc.).
- ◆ Use Personal Protective Equipment (PPE) only for the specific purpose for which it is designed and intended. Never use PPE for rigging, hoisting, or towing.
- ◆ Ensure there is no pressure on any of the connecting hardware's locking mechanisms 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.
- ◆ Ensure snap hooks / carabiners are positioned so that their keepers / gates are never load bearing.
- ◆ When disconnected, the Lanyard Detection Device permits an audible alarm at 83 decibel which some studies show hearing damage may occur after extended periods of time. Therefore, hearing protection should be used when working near the Lanyard Detection Device. Always wear proper hearing protection in accordance with your employer's policies / procedures.
- ◆ Never try to override the system by obstructing the Lanyard Connection end of the Aerial Alarm Device with any object or device or in any other manner.

- ◆ Inspect prior to each use to ensure the audible alarm sounds when disconnected, no alarm may indicate a weak or dead battery or a malfunctioning unit. Do not use a Lanyard Detection Device that does not sound when disconnected.
- ◆ A weak battery is indicated by intermittent chirping, similar to a residential smoke alarm. If the Aerial Alarm Device is chirping while a Carabiner or Snaphook is connected to the Lanyard Connection end of the Anchorage Bar, cease use and replace the battery.
- ◆ Inspect the Lanyard Detection System and all associated equipment prior to each use. Inspection should include but not be limited to ensuring that unit is free of burns, cuts, abrasions, kinks, knots, broken strands, loose stitching, excessive swelling, discoloration, charring, chemical or physical exposures or excessive wear and connecting components (if any) are not distorted or cracked, keeper / gate is not bent, is free of burrs, clean and functioning properly. Remove from service, destroy and discard unit if it does not pass this inspection and replace immediately.
- ◆ Inspect to ensure Anchorage Bar moves freely through the housing with no binding and has no cracks, deformation, sharp edges, corrosion, abrasion, burrs, or excessive wear.
- ◆ The PeerCheck-1 Lanyard Detection System is supplied with an ANSI Z359.12, 3600 lb. gate rated Carabiner (PN 5005S3). Other 3600 lb. gate rated carabiners meeting the ANSI Z359.12 standard may also be used for attachment. Ensure the carabiners used are properly secured to the anchor end of the Aerial Alarm Device Bar and to an adequate anchorage point, and that the locking snaphook or carabiner of your lanyard is properly secured to the opposite end of Aerial Alarm Device Bar before use. Visually check that keepers / gates freely engage and are completely closed, never rely on the sound of the gate of a snaphook or carabiner closing.
- ◆ Never tie knots in a Lanyard as knots can significantly reduce the strength of the webbing.
- ◆ Employer - instruct employee as to proper use and warnings before use of equipment.
- ◆ Product covered under these instructions / warnings should not be resold / redistributed or re-used after use by original user.
- ◆ The PeerCheck Series Lanyard Detection Systems contain magnets and magnetic components. Some electronic devices are known to emit electromagnetic fields. Magnets and electromagnetic fields may impact or interfere with the operation of certain types of medical equipment or devices. Please discuss with your medical provider or medical device manufacturer before using any PeerCheck Series Lanyard Detection System. If at any time you believe a PeerCheck Lanyard Detection System is interfering with your medical device, stop use of the PeerCheck Lanyard Detection System immediately and seek further medical consultation.

Cleaning /Storage

- ◆ Proper maintenance and storage of your equipment will prolong its useful life and contribute toward its performance.
- ◆ Clean the housing with a soft damp cloth. The Aerial Alarm Device should not be subject to submersion in any liquid as well as any high-pressure flow of liquid against the device.
- ◆ Clean and Lubricate carabiners at least weekly or as often as required to maintain smooth operation (no binding) with lightweight lubricant such as WD-40®.
- ◆ Do not lubricate Aerial Alarm Device
- ◆ Webbing should be cleaned with water and mild soap (a dish washing soap that removes grease (i.e. dawn)) 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.
- ◆ Your equipment should be stored and transported so that it does not come into contact with degrading elements including, but not limited to, moisture, ultraviolet rays, extreme temperatures, oil, chemical agents or their vapors or other degrading elements.
- ◆ When attached to a bucket and not in use, always keep covered with a proper fitting bucket cover.

Battery Replacement

Buckingham recommends using a 9 volt Energizer Max Alkaline battery or equivalent for replacement. For use in temperatures below 0° F, Buckingham recommends using a 9 volt lithium battery.

- ♦ Carefully remove the outer rubberized protective cover by pulling the top front edge of the cover just enough to move past the lanyard attachment end of the Anchorage Bar (Fig. 7).
- ♦ Pull the cover around the housing towards the backside as far as possible (Fig. 8).
- ♦ Continue by pulling the slot in the cover over the anchor end of the bar, the cover should stretch slightly as it moves past the bar. Make sure the cover is moving around the housing as well (Fig. 9).
- ♦ Pull the anchor end of the blade out of the large opening at the top of the cover (Fig. 10 & 11).



Fig. 7



Fig. 8



Fig. 9



Fig. 10

- ♦ Using a phillips head screwdriver loosen the four screws from the back of the housing. (The housing screws are captured making them non-removable from the housing).
- ♦ Separate the front section of the housing from the back section by pulling the two apart (Fig. 12).
- ♦ Remove the battery from the housing (Fig. 13) and dispose of it properly.
- ♦ Align the positive and negative battery contacts with the markings on the housing. Tilt the contact end in first after ensuring the positive and negative terminals are in their correct locations and insert the new battery into battery slot (Fig. 14).
- ♦ Align and re-attach the front housing to the back housing.
- ♦ Alternate tightening from corner to corner until the housing is completely closed. Do not overtighten. Perform a function test on the anchor bar as overtightening may restrict the proper full movement of the bar, verify the bar is free to move and if restricted very slightly relax the screws until full free movement is achieved.



Fig. 11



Fig. 12



Fig. 13



Fig. 14

- ♦ Carefully replace rubberized protective cover by placing the anchor end of the blade into the large hole at the top of the cover (Fig. 15).
- ♦ Continue by pulling the anchor end of the bar through the slot in the cover, the cover should stretch slightly as it moves past the bar. Make sure the cover is moving around the housing as well (Fig. 16).
- ♦ Pull the cover around the housing towards the backside as far as possible (Fig. 17).
- ♦ Pull on the top front edge of the cover just enough to stretch it around the lanyard attachment end of the bar. Once the top edge is over the bar you can slide the cover up further until the bar falls into the slot and the cover is fully in place (Fig. 18 & 19).
- ♦ Reattach carabiners and lanyard as needed.
- ♦ Test for proper function.



Fig. 15



Fig. 16



Fig. 17



Fig. 18



Fig. 19

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

Patent Pending

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/](https://buckinghammfg.com/terms%20conditions/)

REGISTRATION:

Before use of the product, ensure to register and confirm the product at www.buckinghammfg.com/register.

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