

BUCKINGHAM MFG.

BUCKINGHAM LADDER LOCK SYSTEM

MODEL 355B / 355BG9 – BOTTOM STRAP

Ladder Lock Systems provide a ladder safety solution that includes ladder stabilizing straps and the convenience of storing the straps on the ladder.

Note: Material color may vary from that shown.

The Buckingham Ladder Lock System is a combination of a ladder stabilizing strap and a redi-access storage bag that is attached to the ladder. The bottom stabilizing strap is used on poles; it can also be used on trees, to aid in stabilizing the bottom of an extension ladder to prevent kick-out and excessive rocking. The redi-access storage bag for the strap is designed to be attached between the two lower rungs, first and second rungs from the bottom, on the base section of the extension ladder. See Fig. 1. Proper setup of your ladder and use of these straps will aid in your compliance to applicable OSHA Regulations.

NOTES: This product cannot thoroughly secure the ladder unless the top of the ladder, depending on the circumstance, is also secured, see Buckingham Model 355T. The strap is not intended to compensate for poor or uneven footing or an improper climbing angle. Loose or soft footing could cause the securement straps to loosen if the ladder settles. To aid in preventing this potential, a recommendation such as placing on a flat firm surface such as an outrigger pad to distribute the weight could be used. In any case, all ladder manufacturers recommendations, cautions and warnings as well as applicable OSHA regulations must be followed.

Components of the Ladder Lock System

The strap is constructed of 1-inch wide webbing with a slip-through cam buckle, a snap-hook and D-ring on each end of the strap. The snap hooks and D-rings are used to secure the ends of the strap around each side rail of the ladder and the cam buckle is used to tighten and secure the strap in place.

The redi-access storage bag is made of water-resistant material with a hook and loop fastener opening. The two upper corner straps each have a plastic friction buckle and the two bottom corner straps have quick connect buckles.

The quick connect buckles are there to enable the bag to be moved so the strap can be removed more easily. When the extension ladder is against the pole at the proper climbing angle, the bag too is also at an angle. By disconnecting the quick connect buckles, the bag will fall to a more vertical angle making it easier to remove the stabilizing strap from inside. This is not a necessity, just a convenience if preferred.

Installation of the redi-access storage bag

The bag is mounted with the hook and loop opening facing the pole, making the enclosed strap readily available so the technician can pull the strap out directly toward the pole.

With the ladder set at the proper climbing angle on the pole and the Hook and loop opening facing the pole, attach the two upper corner straps to the second rung from the bottom on the base section of the ladder. Snug up close to the bottom edge of the rung using the plastic buckles.

Now adjust the length of the two lower straps and loop around the next rung down, the first rung from the bottom, and snap the quick connect buckles together. Then, pull on the loose end of the straps to tighten.

All four straps should be as close to the side rails as possible and tight (See Fig. 2).

The bottom redi-access storage bag is now ready for use. It stays attached to the ladder during storage on the truck's ladder rack, transportation and use. The quick connect buckles are there to enable the bag to be moved so the strap can be removed more easily. When the extension ladder is against the pole at the proper climbing angle, the bag is also at an angle. By disconnecting the quick connect buckles, the bag will fall to a more vertical angle making it easier to remove the stabilizing strap from inside.

Fig. 1



Fig. 2



Fig. 3



Installation of the Buckingham Ladder Lock System

- Step 1: Place the ladder against the pole at approximately a 4 to1 ratio (for every 4 feet of ladder length, the base should be out 1 foot) Fig. 3
- Step 2: Open the hook and loop fastener of the storage bag mounted between the two lower rungs and remove the stabilizing strap. Fig. 3

If the technician prefers, the quick connect buckles on the lower two straps can be released allowing the bag to hang more vertically from the rung.

- Step 3: Wrap one end of the strap around extension ladder side rail directly beneath the 5th. rung from the bottom and secure the snap to the D-ring. Be sure the snap is facing out. Fig. 4

Fig. 4



- Step 4: Wrap the strap around the pole one and one-half times, crossing over itself on the backside of the pole at about the same level as the 5th rung. Fig 5

- Step 5: Wrap the other end of strap around the opposite ladder side rail beneath the 5th. rung and secure by attaching the snap to the D-ring. Snap facing out. Fig. 6

Fig. 5



- Step 6: Stand facing the ladder, tighten ladder stabilizing straps by pulling the free ends of the straps on each side through the cam buckle using equal force on both sides.

Stability Test- Once the strap is securely tightened, test the stability by climbing to the 4th rung, apply a slight twist to ensure ladder base is stable. When properly tightened, side rail movement should not exceed 3 inches. If it is not stable, descend ladder and repeat Step 6 and the stability test.

Fig. 6



Removal- To remove the Buckingham Bottom Strap, stand on the ground facing the ladder at its base, lift both side rails slightly and move the ladder base approximately 6-8 inches towards the pole. This movement will place slack in the stabilizing strap which will allow the technician to release the snaps from the D-rings and remove the strap from the side rails and pole. After removing the strap, simply roll it up and place it back in the redi-access storage bag and secure the hook and loop closure.

Inspection of Bottom Strap

The Bottom Stabilizing Strap must be inspected when first received and prior to each use. The entire strap assembly must be inspected whenever there is suspicion of physical damage such as, but not limited to cuts, abrasions, excessive stress, contact with acids, solvents or other chemicals.

Inspect the cam buckle, snaps and D-rings to ensure they are working properly. Check for cracks or breaks in the metal and ensure springs are working freely.

Through inspection, if any defects are found, the Bottom Strap must not be used and replaced immediately. The defective strap should be cut in half to prevent accidental reuse and disposed of in accordance with local procedures.

Inspect the bag and straps for cuts, holes or loose stitching and the buckles for any broken parts.

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

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