

BUCKINGHAM MFG.

P/N 5100W Series

Battery / Power Supply Hoist Instructions

Instructions for use:

A) Winch:

Note: P/N 5100W Battery Hoist is supplied with a winch that can be driven by turning the Hex Stud using either the Removable Winch Handle (Fig.1) by hand or, turned by a powered tool such as a cordless drill etc. (See Fig. 7). Read carefully and follow all instructions packed with this product.

1. Wind the rope onto the winch reel by turning the handle hex stud in a clock-wise direction. To remove the rope from the winch reel, turn the hex stud in a counter-clockwise direction. Use one of the previously indicated options to turn the Hex Stud.
2. The load will remain in position when the Hex Stud has stopped turning.

Note: Tension must be applied to the rope for the hoist to wind properly.

B) Mounting the Battery Hoist System:

1. Remove all components from the storage bag (Fig.1).
2. If using a ladder, position it directly beneath the battery box, and stabilize it with the supplied Ladder Stabilizing Strap system per the 355B (P/N 230179) instructions (Fig. 2).
3. Using appropriate PPE, climb the ladder (or position bucket) and open the cover to the battery box. It may be necessary to remove the cover if it inhibits the proper function of the hoist.
4. Using a hand line, raise the Battery Hoist to the battery box.
5. Place the Battery Hoist on top of the battery box (Fig. 3). Align the Battery Hoist with the angled bracket on the top left side of the battery box with the winch pointing forward and ensure the J-bracket is under the inside lip of the battery box (Fig. 4 & 5).
6. Wrap the strap attached to the angled bracket around the pole, thread the straps free end through the winding slot of the ratcheting device and pull the webbing through the ratcheting device to remove all the slack. Rotate the ratcheting handle until the strap is securely tight (Fig. 5.)
7. It may be necessary to re-position the ladder to the left side of the box when attaching the Second ratchet strap and to create clearance for hoisting (Fig. 6).
8. Cinch the looped end of the ratchet strap attached to the winch around the pole and above the battery box. Place the free end through the winding slot of the ratcheting device and remove slack. Rotate the ratchet handle to securely tighten the strap and to add extra support to the hoist arm and battery box (Fig. 5.).

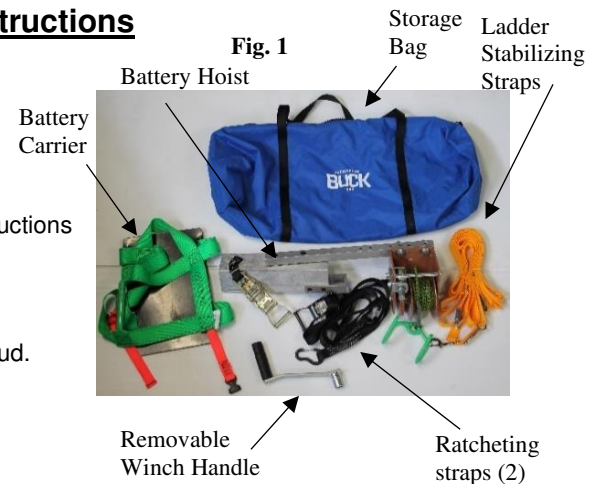


Fig. 2



Fig. 3



Fig. 4



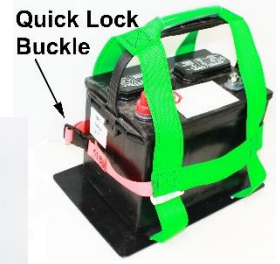
Fig. 5



Fig. 6**Fig. 7**

(C) Removing Battery from the Battery Box:

1. Slightly tilt up one end of the battery and slide the plastic sheeting of the Battery Carrier under the battery. Ensure the battery is completely inside of the Battery Carrier.
2. Secure the battery into the carrier by connecting the Quick Lock Buckle attached to the containment strap (Fig. 8).
3. Place the Battery Carrier Handle onto the prongs of the Dual Hook and center the handle between the prongs (Fig. 9).
4. Rotate the Battery Hoist Hex Stud clockwise (using the removable handle or drill) to raise the battery off the shelf.
5. Swing the battery outward so it clears the battery box and position for lowering.
6. Ensure the area below is clear and rotate the Battery Hoist Hex Stud counterclockwise to slowly lower the battery to the ground. Rotate the Battery Hoist Hex Stud counterclockwise to lower the battery to the ground.
7. Disconnect the Dual Hook and remove the battery from the carrier.

Fig. 8**Fig. 9**

(D) Raising Battery from the Ground:

1. Slightly tilt up one end of the battery and slide the plastic sheeting of the Battery Carrier under the battery. Ensure the battery is completely inside of the Battery Carrier.
3. Secure the battery into the carrier by connecting the Quick Lock Buckle attached to the containment strap (Fig. 8).
4. Place the Battery Carrier Handle onto the prongs of the Dual Hook and center the handle between the prongs (Fig. 9).
5. Rotate the Battery Hoist Hex Stud clockwise (using the removable handle or drill) to raise the battery to the desired height.

(E) Battery Replacement

1. Open the door of the Battery Box and secure it so it cannot accidentally swing or close while changing the battery. A bungee cord or an additional ratchet strap can be used to secure the door.
2. Rotate the Battery Hoist Hex Stud clockwise to raise the battery from the ground to a level slightly above the shelf of the Battery Box.
3. Swing the battery inward so it will land on the desired location of the shelf when being lowered.
4. Rotate the Battery Hoist Hex Stud counterclockwise to lower the battery onto the shelf.
5. Disconnect the Dual Hook and remove the battery from the carrier.

Repeat steps 'C' through 'E' for each battery to be removed/replaced.

Remove the Battery Hoist system and its components in the reverse order/direction of steps in 'B' above.

Inspection to include but not be limited to the following:

- Inspect the Battery Hoist for any sign of loose fasteners, excessive wear, damage, cracks, corrosion, or malfunction of equipment.
- Inspect entire length of Battery Hoist rope for cuts, nicks, kinks, abrasion burns, broken fibers, chemical or physical exposures, excessive wear, discoloration, swelling, or herniation (core popping through cover).
- Inspect the Battery Hoist rope stitched/spliced eye connected to the dual hook for excessive wear, abrasions, cut/broke/missing/unraveling thread, that the heat shrunk plastic cover is intact, not nicked or cut.
- Inspect the Battery Carrier, its base and Quick Lock Buckle for excessive wear or damage, abrasions, cut/broke/missing/unraveling thread, that the heat shrunk plastic handle cover is intact, not nicked or cut.
- Inspect the Ladder Stabilizing Strap system per instructions (P/N 230179, 355B Instructions).

If any evidence of wear or deterioration as outlined above 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:

- 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.
- Never work without independent fall protection if there is danger of a fall.
- This product is for equipment hoisting only. **NOT** for human support / hoisting. Use this equipment only for the specific purpose for which it is designed and intended.
- Always inspect this equipment and check winch for proper operation prior to use.
- Never exceed rated capacity. Excess loads may cause premature failure. This winch is rated on the first layer of rope on the reel. Using more layers of rope increases the load on the winch.
- Never apply a load on the winch with the cable fully extended. Keep at least three full turns of rope on the reel.
- Secure the load properly. When winching operation is complete, do not depend on the winch to support the load.
- Operate the winch with hand or drill power only.
- Avoid any contact with live electrical wires or components.
- Never stand, or allow anyone, under the Battery Hoist when in operation.
- Ensure that the battery/power box is securely mounted to pole (or structure) and is capable of supporting this hoist and associated loads.
- Ensure that the battery/power box door cannot swing open or closed while working near the battery box.
- When raising, or lowering tools/materials, place yourself in a position where the movement of the load can be observed to its destination.
- Destroy any and all equipment subjected to impact loading.
- Do not exceed the hoist maximum load rating of **100 lbs.**
- Never tie knots in the Battery Hoist Rope. Knots can reduce the strength of the rope up to 50%.
- Keep fingers and loose clothing away from pinch points of the winch.
- Only Buckingham Mfg. Co. or those authorized in writing by Buckingham Mfg. Co. may make repairs / modifications to this equipment.

Maintenance, Storage and Cleaning:

- Proper maintenance and storage of your equipment will prolong its useful life and contribute toward its performance. Webbing and rope 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.
- Store in a cool, dry area and away from moisture, corrosion, physical or electrical damage.

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

BUCKINGHAM MFG. CO., INC.
BINGHAMTON, NY
1-800-937-2825
www.buckinghammfg.com