

Castle Winch, LLC



Electric Table Lift User Manual

Product Usage:

This product is designed and intended **ONLY** to be used as a table lift mechanism. Any other use of this system will void any and all written or expressed warranties and indemnify Castle Winch, LLC from any harm which may occur as a result of any other use or misuse of this product.

Operating Precautions:

ALWAYS... Verify all hands and body parts are away from the unit when operating.

ALWAYS... Ensure that the areas above, below and adjacent to the table are free from obstructions before operating.

ALWAYS... Avoid loading the table unevenly.

ALWAYS... Travel with the table in the lowered position.

NEVER... Operate the unit with any items on the table.

NEVER... Use the table as a step.

Operating Instructions:

The unit is operated from the control switch. Pressing and holding the switch in the UP position moves the table upward. Pressing and holding the switch in the DOWN position moves the table downward. However, the table can be stopped and used at any desired height.

When moving the table to the highest position, the table will stop automatically at the standard table height.

When moving the table to the lowest position, use caution when approaching the table stops (the edge of the bench that the table rests on when in the "bed" position). Immediately release the switch when contact is made with the table stops. **Failure to stop pressing the switch at this time could damage the unit and/or the table.** This additional range of travel is used to accommodate various table stop heights.

System Specifications:

System Voltage: 12 VDC

Control Switch Power Fuse: 10 Amp

Load Capacity: 100 Lbs







Caution: Failure to comply with the load capacity could cause unit failure which may result in injury.



Electric Table Lift

Installation Manual

Package Contents:

- Electric Table Lift
- Wiring Harness and Control Switch
- Table Backer Board and Adhesive
- Mounting Hardware
 - (2) Control Switch Mounting Screws #6-3/4" 
 - (6) 2.5" SPAX screws to attach table 
 - (12) Leveling Shims (Optional Use)
 - Fixed Mount Models:
 - (6) 2" SPAX Powerlags to attach to floor 
 - Quick Release/Removable Models:
 - (4) 1/4-20 x 2" Plastic Head Thumb Screw to attach to floor 
 - (4) 1/4-20 Stainless T-Nuts to attach to floor 
 - (2) Plastic Rivets 

Notes:

The table backer board is used to gain more rigidity to the mounting area. It is designed to be used with an existing 3/4" MDF table. The existing table itself does not have adequate depth for the mounting screws. **Caution: If your table is less than 3/4" thick, the provided screws will be too long and protrude through the surface of the table! You will need to purchase your own appropriate length fasteners.** If your house currently has the 3 stage pedestal lift, you might have smaller backer already installed and it will need to be removed.

These instructions and dimensions are specific to Ice Castle Fish Houses with the full dinette in the rear. The wiring harness is sized to work with the dinette bench and wire to the battery located inside of the bench. Please contact us if you have any questions installing this unit in other applications.

Caution:

Use care when extending or retracting the actuator during the assembly process. Keep hands and body parts away from moving parts.

STOP: Do not return to store. Contact Castle Winch, LLC directly if you have any problems or installation questions.

customerservice@castlewinch.com

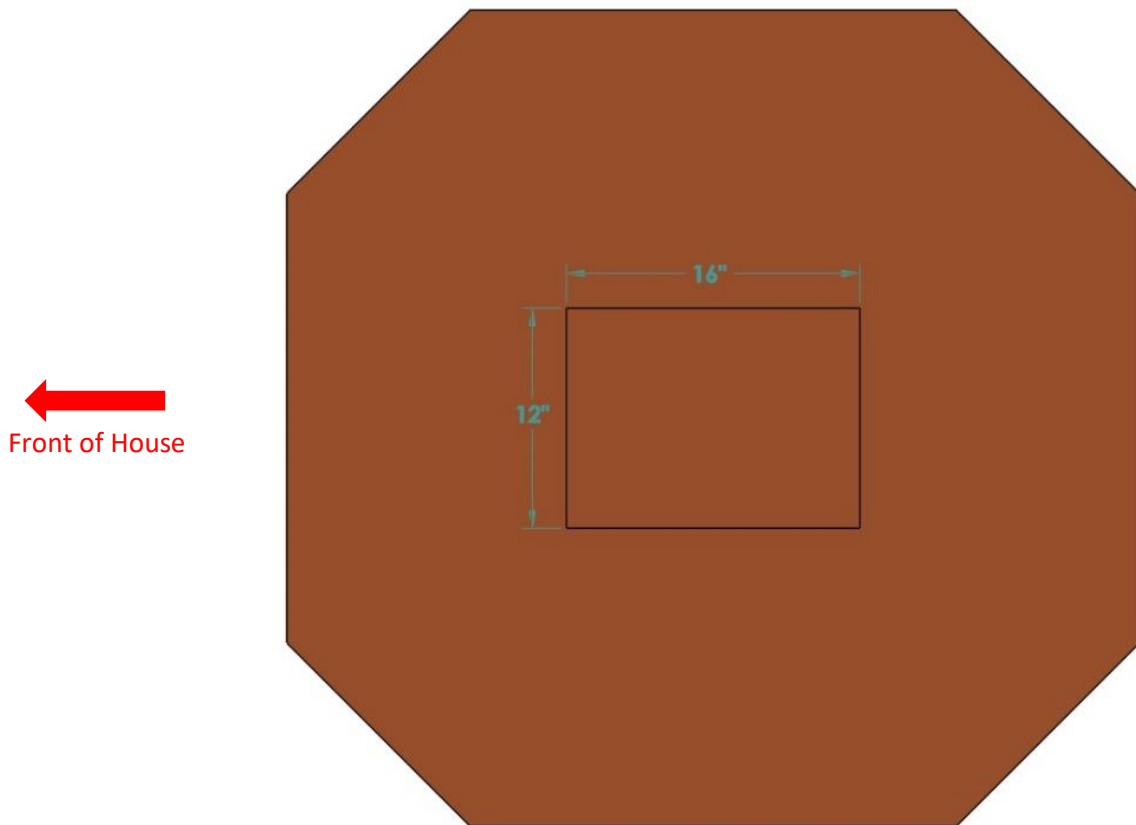
Step 1 – Prepare for installation:

- Remove existing table legs and bases.

Step 2 – Install table backer board:

- The table backer board is 12" x 16". Locate the table backer board in the center of the table and fasten in place with adhesive according to the manufacturer's instructions (you will only need half of the tube). TIP: The table backer board can be brad nailed in place to maintain desired position during fastening of the Electric Table Lift.

Note which way it mounts on the table. The table is usually wider in one dimension and varies between houses.

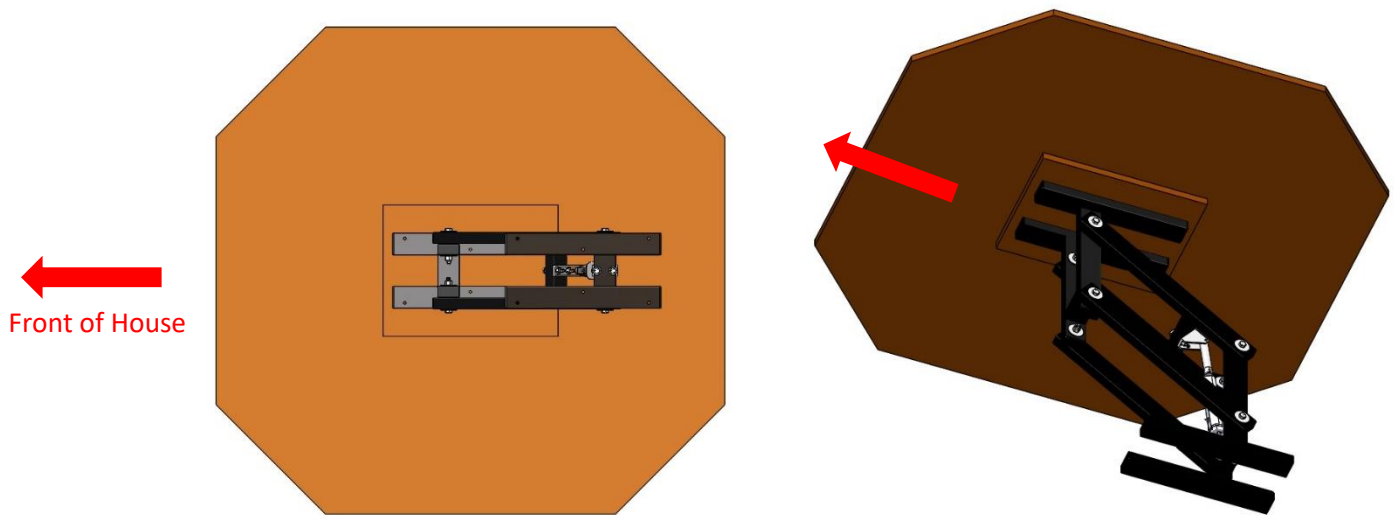


Step 3 – Extend the Unit:

- Temporarily connect the wiring harness and control switch to both a 12 volt power source and the actuator on the Electric Table Lift. The wiring diagram is located towards the end of these instructions. Extend the actuator by pressing the UP position on the control switch until the unit is fully extended. Note which is the UP position on the control switch.
- **Once the fully extended position is reached, disconnect the wiring harness and control switch.**

Step 4 – Fasten the Electric Table Lift to the Table:

- Centrally locate the Electric Table Lift on the table backer board. Fasten it to the table backer board using the (6) 2.5" SPAX screws. Note the direction when mounting.



Step 5 – Locate the Table for Final Positioning:

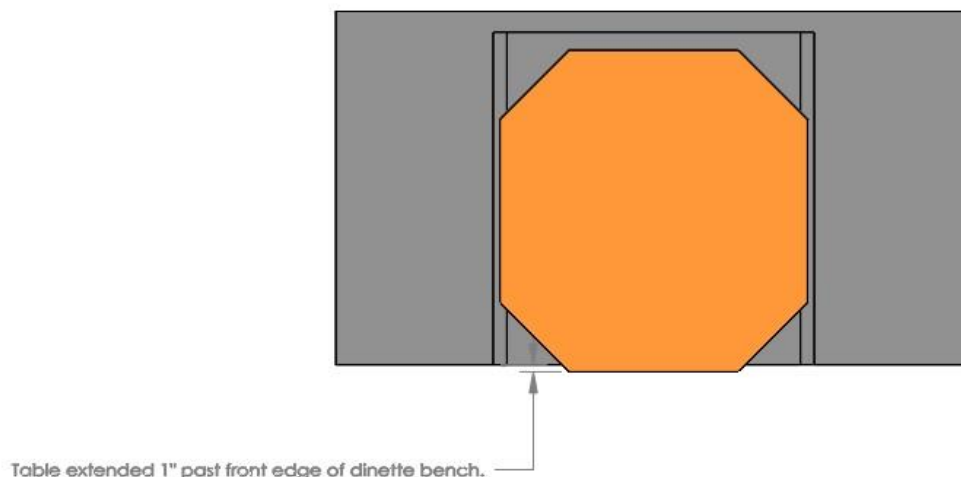
- Set the table back in its approximate position.
- Temporarily connect the wiring harness and control switch to both a 12 volt power source and the actuator on the Electric Table Lift. Retract the actuator by pressing the DOWN position on the control switch until the table is to its desired lowered position.

Caution: Do not retract the Electric Table Lift lower than the 15.25" lower limit. Damage to the strut/actuator assembly can occur.

- Now that the table is in the down position, locate the table exactly where you want it (centered between walls, appropriate forward/rearward position).

NOTE:

- Due to the design of the unit, there will be a 3.5" forward/rearward shift between the upper and lower positions. The recommended mounting location is shown below for the lowered position in a house with a bay window. If your house does not have a bay window, extend the unit up prior to fastening it to the floor to check how close it is to the rear wall. Adjust the position accordingly.



Step 6 – Fasten the Unit to the Floor:

Fixed Mount Models:

- Fasten the unit to the floor using the (6) 2" SPAX Powerlags. Verify screws will not contact any of your frame members prior to fastening.

Quick Release/Removable Models:

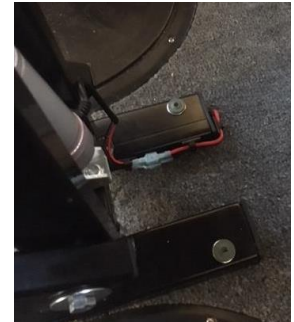
- Install the 2 plastic rivets in the center unused mounting holes in the table lift base.
- Verify mounting hole locations will not contact any of your frame members prior to fastening.
- Using the table lift base as a template, drill through the (4) mounting holes in the base completely through the floor using a 1/4" drill bit.
- Move table to the side and drill out the (4) holes in the floor with a 5/16" drill bit.
- From underneath the house, install the T-Nuts with the prongs facing upward. Apply some leftover adhesive to the prongs prior to installation. Use a hammer to pound them securely in place. Spray foam floors will require some additional foam to be removed to fit the T-Nut.
- Move the table back in place and use the thumb screws to fasten it to the floor.

Step 7 – Wiring Harness and Control Switch:

- Connect the Wiring and Control Switch as shown below. Note the UP/DOWN position of the switch when mounting.
- The wiring harness is intended to route from the electric actuator, under the floor, and then back up into the house inside the dinette bench. If your house has spray foam floors, use a utility knife to cut a path through the foam. The wiring can be pressed deep into the foam slot to hold it in place. If you do not have spray foams floors, it is recommended to fasten the wire underneath the house with wire staples (not included).

Tips:

- Note the position of your frame members when drilling holes in the floor to route the wiring.
- If the table does not sit level, use an appropriate number of leveling shims as needed to level the table.
- Recommended location for the control switch is in the front of the dinette bench.



Electric Table Lift Wiring Diagram

