Operator’s Manual

Excel Stairway Lift System
Project 1 for Thalia Almeida

Team 2
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Important Safety Instructions:

- Be sure to read all of the safety instructions and warnings before using the stairway lift system. Not doing so can result in injury to the user or the device itself.
- Ensure that your safety strap is securely fastened before moving up or down the stairs at any time.
- Keep debris and foreign objects away from the track. If there are obstacles inside the track or along the path of the track they must be removed before use.
- The footrest and seat must be lowered in order to use the Excel Stairway Lift system.
- Ensure that the swiveling chair is locked in place before entering or exiting the chair.
- In case of a power outage, the Excel Stairway lift cannot and should not be used.
- The Excel Stairway lift is a system for patients with disabilities and should not be used for other purposes not intended by the manufacturer.
Parts and Accessories:

Collapsible Foot Rest and obstacle detector:
Arm Rests:
Motor With Obstacle Detector:
Back Rest and Safety Belt:
Switch Box (Up/Down):
Collapsible Seat with Detector:
Specifications and/or colors subject to change without notice.

Dimensions are based on standard seat heights with a 3" top track extension. The seat height of the lower landing can be adjusted by the dealer to heights of 22" or 20".

REVIEWS
Features:

- Multiple Switch Boxes fixed to the bottom and top of the stairs as well as underneath the seat of the chair. Multi-accessible.
- Swivel chair at the top of the Stairway Lift. 90° turn with the pull of a lever.
- Safety belt fixed to the seat.
- Multiple obstacle detectors (footrest, seat and motor box).
- Collapsible (Seat, Footrest, armrest).
- Powered by a generic household socket.
- Powder coated track.
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1 Introduction:

1.1 General Overview:

Originally constructed by Access Industries, we have made further fabrications to this device to suit the needs of your home. This lift is easy to operate and is known as the “Cadillac of Stairway Lifts”. Even so, proper operation must be followed and maintenance is required every so often. Please read and adhere to these instructions in this operator’s manual to avoid unnecessary problems and less frequent maintenance.

Powered by a standard 120v household socket, these two excel stairway lift systems can be accessed from the top and bottom of the stairs from up/down switch boxes. Also included in the system is another up/down switch box on the bottom of the chair. To move the stairway lift up the stairs, simply press and hold the switch in
the up direction and similarly use the down switch to move the stairway lift downward.

Continuous power is supplied to this device and can be accessed at all times that the stairway lift is plugged into the wall outlet. A downside to this design is in the case of a power outage, the stairway lift is no longer functional and therefore it is no longer accessible.

The footrest can be folded, and must be in the down position when it is in use. A detector is in the footrest that will automatically stop the lift if there is an obstruction in the way.

1.2 Operating Instructions

To move the stairway lift up the stairs, simply flick the switch in the up direction and similarly use the down switch to move the stairway lift downward.

To use the stairway lift, sit securely in the seat with the safety belt fastened. Place both feet on the footrest for the duration of the ascent or descent. When you have reached the top of the stairs and have come to a complete stop lift the lever on the bottom of the right armrest and pivot the seat 90° into the locked position. Unfasten the safety belt and exit the lift.
2 Maintenance

Inspections should be done regularly to assess if an issue will arise. Please attempt to make the following inspections once a month to ensure proper use and functionality of this device.

- Inspect trailing cable for wear.
- Tighten all fasten anchors.
- Verify the functionality of the footrest sensor
- Ensure that the track is thoroughly lubricated.

For legal purposes within the state of Connecticut any maintenance that must be done to the stairway lift must be completed by a licensed professional within a domestic household. For this reason, if there are any issue with the your Excel
stairway lift, please contact your installer (Pelton’s Home Healthcare) at their company phone (860) 761-0008 ext(232) Matt will answer any question you have and will schedule any maintenance that must be done to the stairway lift in case of an issue. Do not attempt to fix the problem yourself. This is both against the law, and can possibly do further damage to your Stairway lift system.

Before calling for maintenance, there are a few steps you can take in order to troubleshoot your issue.

- Look to make sure no obstacles are interrupting the path of the footrest or the track.
- Ensure that the seat is locked in place after swiveling.

After making these inspections and the stairway lift still does not function please contact your installer to further assess the issue.

3 Technical Description

Rated Load: 300 pounds (135 kg)
Speed: 18-25 fpm (.09 - .13 ms)
Travel: 32’ max. (9.75 m)
Power Supply: 115 VAC, 60 Hz, 3-wire grounded outlet
Incline limits: 25° to 45° U.L. and C/U.L. listed

Standard Equipment
Drive System: Rack and pinion
Control System Options:
Option 1) A/C powered with SoftStart / SoftStop and wired call/send controls.
Motor: 1/2 hp, 120 VDC, 60 Hz (reversible)
Option 2) Battery Operated System (BOS) with SoftStart / SoftStop control board with diagnostic LED’s, and wireless call/send controls with two 12-volt maintenance free batteries. Motor: 1/2 hp, 24 VDC (reversible)
Brake: Self-locking worm gear
Track: 61/2” (165mm) extruded aluminum
Track Length: 16’ stock or custom cut
Track Finish: Clear anodized
Unit Finish: Ivory white powder coat finish
Upholstery: Taupe or misty gray vinyl; mauve or oatmeal fabric
Seat: 19” (483mm) wide seat with two straight fold-up arms, seat belt, and 60° / 90° locking swivel seat at top landing

Safety Devices:
Carriage obstruction sensors
Footrest obstruction sensors
Swivel seat cut-off switch
Final limit switches
Seat belt
Warranty
Five years on drive train and two years on all component parts

Optional Equipment
Key switch unit controls
Key switch on call/send controls (A/C powered unit only)
Joystick control
Handheld pendant control
Controls in ends of straight arms
Manual folding track at lower landing
Overspeed brake
Manual lowering device (hand crank)
References:

- "Excel Stairway Lift." Interview by Bobby M. N.d. Television.