Atlantic
HEALTHCARE PRODUCTS
1-888-972-3631
West Palm Beach & Boynton Beach, FL

# MOTORIZED STAIR CHAIR

## USER MANUAL

MODEL NO: DW-SW03A



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Please be sure to thoroughly read the manufacturer's instructions before use and follow the directions accordingly.

## Preface

Product Model: DW-ST003A / DW-SW03A

Product Description: This product is a track-type transfer device designed for trained caregivers to move individuals who cannot climb stairs. It enables trained caregivers to easily transport individuals with limited mobility up and down stairs. This product is mainly used in homes and multi-story buildings without elevators, ensuring safety, simplicity, and quick folding.



DW-ST003A



DW-SW03A



## Component Names

| | |
|---|---|
| 1. Detachable Back Cushion | 7. Front Handle Extension Button |
| 2. Front Handle | 8. Battery |
| 3. Safety Belt | 9. Power Key |
| 4. Wheelchair Support Frame | 10. Stair Climbing Track |
| 5. Folding Footrest | 11. Foldable Rear Handle |
| 6. Retractable Front Handle | 12. Rear Handle Fixing Button |




DW-SW03A is a large wheel

| | |
|---|---|
| 13. Control Panel | 17. Gear Slot |
| 14. Rod Locking Lever | 18. Rubber Track |
| 15. Foldable Rear Handle | 19. Brushed Motor |
| 16. Horizontal Bar on Track Frame | 20. Pneumatic Free Tires |





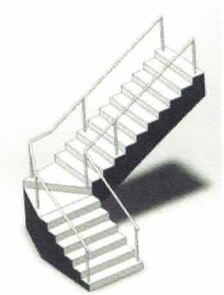

## Warning Precautions

1. Before installing or using this product, please ensure that you listen to the instructions given by a technician and carefully read the "Product Operation Manual."

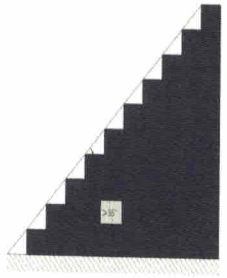
2. This product should not be used on spiral stairs, curved arc stairs, stairs with angles over 50°, or those with rough and uneven surfaces. (Spiral stairs, curved arc stairs, stairs with angles over 50°, or rough stair surfaces)



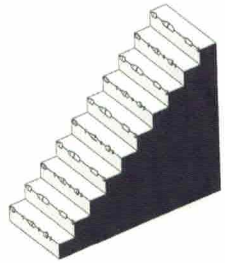
(spiral ladder)



(Curved arc staircase type)



(Angle exceeds 50° trapezoidal)



(Rough and uneven staircase surface)

3. The product is limited to carrying one person at a time; be sure to fasten the safety belt when using it.

4. Before use, always conduct a safety check (such as the track, battery level, and joint slots).

5. The product has a weight limit of 350lb; do not exceed this limit to avoid accidents.

6. Keep children, toddlers, and pets away from the product to avoid danger.

7. Use only the original battery; charge in a dry environment. The battery can be reused; if replacement is needed, purchase a new battery for replacement. Do not open or replace it yourself to avoid danger. Properly dispose of the used battery according to your country's waste disposal laws.

8. If the product malfunctions or is damaged, contact a local agent or manufacturer. Repairs should only be carried out under the guidance of a professional technician.

9. Do not forcefully use the product if it is damaged or excessively worn, as this may cause an accident.



**Pre-Use Precautions**

1. Operators should preferably be males under 50 years old; the elderly and those with weak health are prohibited from operating.

2. Operators must not let go of the handle at any time.

3. During operation, apply downward pressure on the handle to maintain overall balance.

4. If the operator cannot completely control the equipment, ensure that an assistant is in front of the device to maintain balance.

5. When starting to climb the stairs, the device will tilt upward; be sure to press down on the handle.

6. If a break is needed, ensure the track is in contact with at least three stair edges.

7. Before descending stairs, pause before the last two steps to ensure the track aligns with the step.

8. During climbing or descending, if you need to stop urgently, release the button to halt the operation.

9. During descending, keep the front wheels away from the stair edge; at this point, raise the front wheels to let the track touch the ground. Use both hands to hold the handle to maintain balance and press the downward button for descending.

10. During ascending, hold the upward button with your right hand while pushing the handle with your left hand. When all four wheels touch the

ground, move away from the stairs to avoid the stair-climbing chair from slipping due to loss of control.

11. Any injury resulting from improper operation not following the user manual or instructions will be the operator's responsibility.

12. This equipment should only be used by individuals trained in its operation and after thoroughly reading the user manual.

13. Ensure both front handles are opened when climbing or descending to prevent the user from tipping sideways. Use safety belts to secure the user.

14. If there are more than 50° stairs or curved arc stairs, or if stairs are oily, icy, or slippery, do not use the machine.

15. Operators should not leave the machine unless in an emergency. If the user weighs less than 80 kg, one operator can manage the device. If the user weighs more than 80 kg but less than 100 kg, it is advised to have an assistant.

**Operation Method and Precautions**





1. Safety check before use:

a: Check the power supply: Turn the key switch on the battery box to the ON position. The product has four lights, three of which

Indicates capacity. If the red light comes on, do not

Use this product; please fully charge it before use.

b. Check control panel: Ensure the upward and



downward buttons are functioning normally.

c:Parking brake: Ensure it is working properly.

d:Safety belt: Check that it's tightened and all screws are secure.

e:Track: Check for cracks or excessive wear; follow the manual for troubleshooting.

2. Preparing to Climb Stairs and Operational Details:

a: Place the user in the center of the seat cushion and fasten the safety belt.

b: Headrest: Adjust the headrest to fit the user's height and secure it with the velcro.

c: Battery Power Key Switch: Make sure it is turned to the ON position. Please keep the power key switch in the OFF position when not in use.

d: Stair climbing track: Lower the track to a suitable angle (generally at a 30° angle), ensuring easy stair climbing.

e: Foot pedal: Check for stability.

f: Locking lever: Use the locking lever to adjust the device's height.

3. Preparation and operation details for going upstairs:

a: Assist in placing the passenger in the center of the seat cushion and fasten the seat belt.

Headrest: According to the height of the passenger, place the pillow behind the passenger's head and adjust it to the appropriate tightness. Glue the Velcro on both sides to secure the headrest.

Seat belt: After the passengers are seated, fix the seat belt as shown in the figure, insert the plug into the socket to lock it, and adjust the length of the seat belt to the comfort of the passenger.

b: Turn on the battery power switch, put down the crawler device on the rear side of the stair climbing vehicle, and adjust the lowering angle of the crawler device to an appropriate angle (referring to the best angle for the operator to pull the stair climbing vehicle upstairs, which is generally 30° with the horizontal plane. Operation Try to keep this angle when doing it. This angle is the angle that saves the operator the most effort).

c: Pull the stair climbing truck to the front of the stairs, adjust the height of the telescopic handrail according to the operator's convenience (as shown in the picture), and step down on the thick crossbar of the track frame with your feet (marked on page 5: 16) , use both hands to tilt the stair climbing vehicle backwards, try to make the crawler tracks contact the stair facade as much as possible, turn on the power switch button of the telescopic rod, press the button to go upstairs and at the same time press the telescopic rod downward firmly to prevent the car body from leaning forward, and climb the stairs. The car can go upstairs. Release the button to go upstairs, and the car will stop going upstairs.



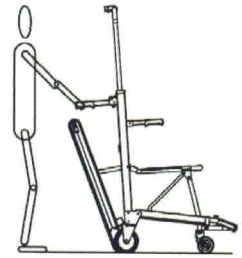




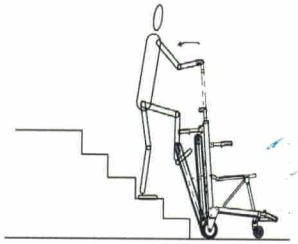

d: Raise: Press the locking lever inward and pull the lever upward at the same time. When it is close to the ideal height, release the locking lever and press the lever until the adjustment lock locks the lever.

e: Lowering: Press the locking lever inward and press the pull rod downward at the same time. When it is close to the ideal height, release the locking lever and press the pull rod until the adjustment lock locks the pull rod.

## Stair Climbing Techniques



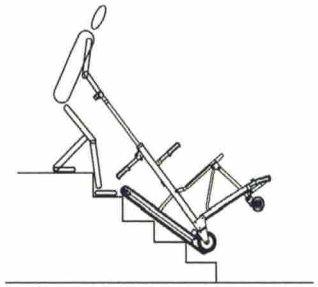
a. Expand the stair climbing car to the state shown in the picture, make sure the battery power is on, and adjust the pull rod to the appropriate height.



b. Adjust the posture of the stair climbing vehicle and align the crawler tracks vertically with the edge of the stair steps. When the edge of the rear wheel is 30cm-40cm away from the stairs; stand with your left foot on the second step and step on the crossbar of the stair climbing device with your right foot. At the same time, pull the tie rod inward until the tracks contact the stair treads.



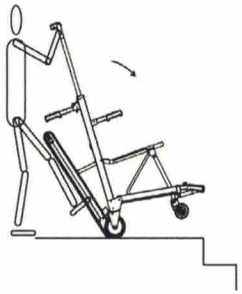
c. Press the power button of the stair climbing car to start it, apply a little force downward in the vertical direction of the angle of the stairs, hold the upstairs button and move upward at the same speed as the stair climbing car.



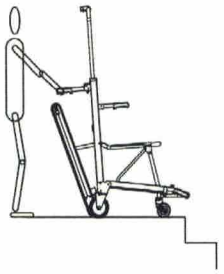
d. If you need to stop going upstairs halfway, just release the button to go upstairs. Note: When the crawler tracks contact less than 3 steps at the same time, a small amount of force must be exerted downward in the vertical direction of the angle of the stairs to prevent the stair climbing vehicle from tilting forward.



e. When reaching the second last step, pull the lever with both hands until it is no lower than the operator's chest, press and hold the upstairs button, and slowly pull the stair-climbing car up to the level.



f. When the front wheel of the stair climbing vehicle enters the flat ground, release the button to go upstairs, step on the crossbar of the stair climbing device with your right foot, slowly lift the lever upwards and lower it gently to the flat ground.



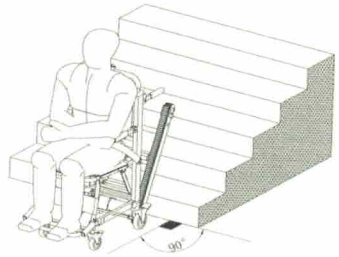
g. Hold the rear handle and push the stair climbing car to the next stairwell.

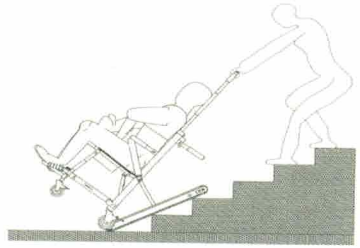
h. Repeat steps b-g.



## Essentials of Stair Climbing Techniques

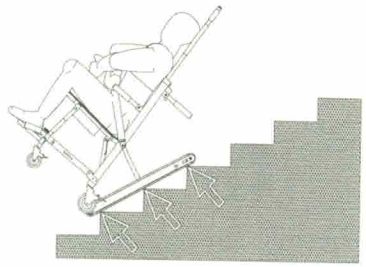
a:During the process of going upstairs, the operator should always use appropriate force to press down smoothly. It is recommended that the operator masters the essentials according to the steps before letting the passenger ride.

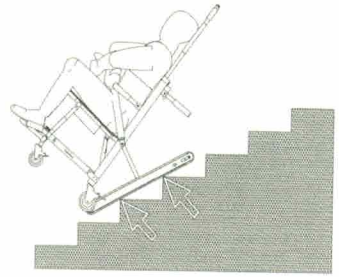


b: When turning: When the stair climbing vehicle reaches the stair platform, release the switch to go upstairs, adjust the stair climbing vehicle to a horizontal position, so that the four wheels of the stair climbing vehicle touch the ground, and then turn on the platform in the middle of the stairs. operation, and then perform the subsequent upstairs operation.

c: Emergency stop on the stairs: If the operator needs to stop on the stairs for special reasons when going up or down the stairs, he can release the up and down button and hold the telescopic pull rod with his hand. When temporarily stopping, it must be ensured that the crawler tracks are in contact with at least three steps at the same time.





d: When going down the stairs: Push the stair climbing car forward so that the front and lower running wheels are close to the first step facade. At this time, it is ready to go down the stairs. Turn on the battery power switch and adjust the stair climbing car according to the operator's personal operating habits. After adjusting the angle of the crawler device, step down on the thick crossbar of the crawler frame (marked on page 5: 16) with your feet. Use your hands to tilt the stair climbing vehicle backwards so that the crawler tracks are in contact with the ground. Turn on the power switch button of the telescopic rod. , press the downstairs button, the stair climbing car will go downstairs, release the downstairs button, the stair climbing car will stop going downstairs. When the track of the stair climbing vehicle touches the ground, release the downstairs button, stop the motor rotation, straighten the tilting stair climbing vehicle, and then use the running wheels to move on the platform in the middle of the stairs.

**Battery Charging and Use**

a:Please charge the battery fully before using it for the first time.

b: If only the red light is on, do not use the product and charge it immediately.

c:Unplug the controller power cable from the battery charging and discharging interface, first unscrew the ring buckle, and then pull out the three-pin plug. Insert the three-pin plug of the charger into the battery charging and discharging port. Pay attention to proper alignment. After insertion, tighten the ring clockwise to prevent loosening during use.



1) Unscrew the controller power socket ring counterclockwise.

2) Unplug the controller power plug.





3) Insert the three-pin round plug of the charger. Pay attention to the direction. Align the concave surface of the plug with the convex surface of the socket and tighten the ring clockwise to prevent it from loosening during use. Refer to the following picture.









d: Before charging, read and follow the charging guide and warning instructions.

e: Only use the designated charger.

f: Ensure the charger is kept away from oil, thinner, and sharp tools.

g: The device cannot operate while charging for safety.

h: Ensure hands are dry when plugging or unplugging the charger.

j:After charging, please unplug the charger power plug first, and then unplug the charger output plug.

k: If there is abnormal heat or odor during charging, stop charging and contact your dealer.

l:Recharge the battery once a month for maintenance.

**Daily Maintenance and Simple Repair**

- Regular inspection and maintenance can significantly extend the product's lifespan.

- Regular safety checks are essential for user safety.

- If parts are damaged or wear out, replace or repair them as necessary.

- If there are unusual conditions, contact the manufacturer or dealer.

**Adjust and replace the track tension**

*Note: The original factory or dealer has adjusted the track tightness before leaving the factory.



*After the track has been used for a period of time, it needs to be adjusted when it becomes loose or too tight.




a:Tightening: Use the Allen wrench in the required tool as shown in the figure to insert into the adjustment hole. (As shown in the picture on the right) Rotate the wrench clockwise to adjust the track to a suitable tightness (each track has two adjusters, please adjust them separately to maintain track balance.

b: Loosen: Use the Allen wrench in the required tool as shown in the figure to insert into the adjustment hole. (As shown in the picture on the right) Rotate the wrench counterclockwise to adjust the track to a suitable tightness (each track has two adjusters, please adjust them separately to maintain track balance).

*Brake

Lock: Lift the brake lever so that it blocks the tire.

Unlock: Press down on the brake lever to separate it from the tire tread.



