

# All Star Wheelchairs



## Featherweight User Manual ASW-208

# Table of Contents

|  |    |
|--|----|
| Introduction .....                     | 3  |
| Quick Reference Guide .....            | 5  |
| Specifications .....                   | 10 |
| Before Operation Practice .....        | 12 |
| Safety Instructions .....              | 15 |
| Terminology .....                      | 18 |
| Joystick Controller .....              | 19 |
| Rear Wheel Clutch .....                | 25 |
| Folding Your Wheelchair .....          | 28 |
| Adjusting Controller and Armrest ..... | 30 |
| Battery Functions .....                | 32 |

# Introduction

## Safety

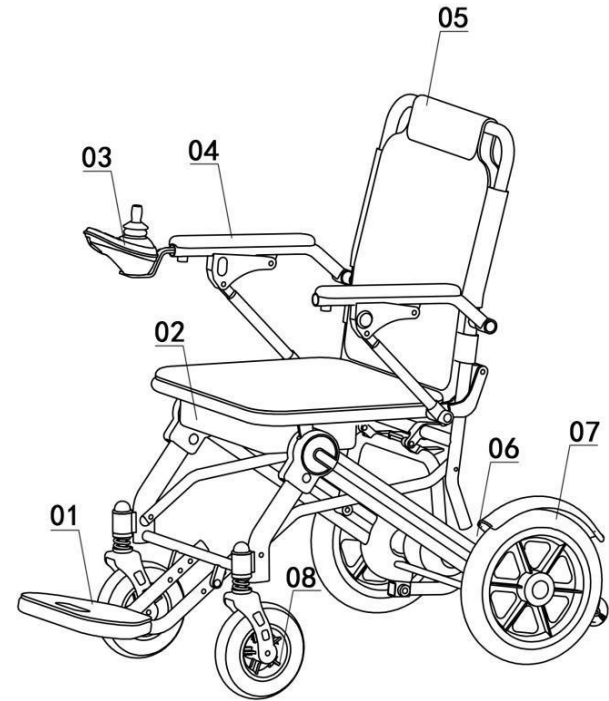
The power chair you have purchased combines **state-of-the-art** components with safety, comfort, and styling in mind. We are confident that these design features will provide you with the conveniences you expect during your daily activities. Once you understand how to safely operate and care for your power chair, it should give you years of trouble-free operation and service.

**Read** and **follow** all instructions, warnings, and notes in this manual before attempting to operate your power chair for the first time. You must also read all instructions, warnings, and notes contained in any supplemental instructional booklets for the controller that accompanied your power chair before initial operation. Your safety depends upon you, as well as your provider, caretaker, or healthcare professional in using good judgment.

If there is any information in this manual which you do not understand, or if you require additional assistance for setup or operation, please contact your authorized Provider. **Failure to follow the instructions in this manual and those located on your power chair can lead to personal injury and/or damage to the power chair, including voiding the warranty.**

# Featherweight Electric Wheelchair (ASW-208)

1. Footrest
2. Battery
3. Joystick Controller
4. Armrest
5. Handlebar
6. Motor
7. Rear Wheel
8. Front Wheel



## Quick Start Reference Guide

Unpack the wheelchair and locate the charger, tool kit, and spare parts. Install and mount the controller on the right or left armrest.



## Quick Start Reference Guide

Grasp the handlebar and pull the seat cushion frame outwards with your other hand



## Quick Start Reference Guide

Pull on the quick release screw, pull out the anti-tip wheel to the proper position with your other hand and then lock the anti-tip wheel in place.



## Quick Start Reference Guide

Connect the battery with the plug underneath the seat.





## Quick Start Reference Guide

Pull up both clutch forks up into electric operation state, which will prevent the wheels from rolling when pushed by hand. If you desire free wheel mode, simple push both clutch forks down.



## Specifications

|                            |   |
|----------------------------|---|
| Model Name                 | <b>ASW-208</b>                                  |
| Wheelchair Size (Unfolded) | <b>39" x 23" x 37.5"</b>                        |
| Net Weight (With Battery)  | <b>39 LBS + 3 LBS      Total Weight: 42 LBS</b> |
| Front Wheel                | <b>8"</b>                                       |
| Rear Wheel                 | <b>12"</b>                                      |
| Weight Capacity            | <b>250 LBS</b>                                  |
| Forward Speed              | <b>Up to 4 MPH</b>                              |
| Range Per Charge           | <b>≥ 8 Miles</b>                                |
| Motor                      | <b>2 - 24V 180W Brushless Motors</b>            |
| Turning Radius             | <b>23.6"</b>                                    |

## Specifications

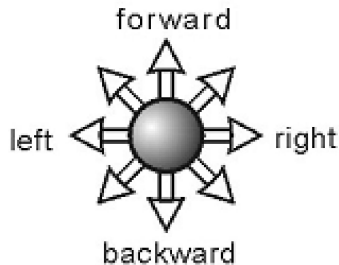
|                  |   |
|------------------|---|
| Lithium Battery  | <b>24V 10AH</b>                             |
| Brake Type       | <b>Intelligent Electromagnetic Brake</b>    |
| Anti-Tip Wheel   | <b>2" x 1"</b>                              |
| Climbing Ability | <b>10°</b>                                  |
| Charger          | <b>AC100-240V 50/60HZ    Output: 24V-2A</b> |

## Practice Before Use

Failure to follow the instructions below may result in serious injury or damage to the electric wheelchair. Before venturing onto the roads, find an open area such as a park and ask a friend to accompany you until you have mastered the power chair's operation.



The power button should always be off before you get on or off the seat. Set the speed control button appropriate for the vicinity in which you are travelling.



We recommend keeping to a slow speed until you are familiar with handling the wheelchair.

# Stop, Forward, and Reverse Operations

Simply push the joystick gently in the directions you wish to move in. First, practice moving forward. Be sure to set the speed to the lowest shift.



After you have accomplished moving forwards, practice an “S” turn.



When you can confidently perform these maneuvers, try reversing. Pay close attention and check for obstacles when reversing backwards.



## Warning!

In the event of one of the following errors, immediately turn off the electric wheelchairs power supply:

1. Sudden Movement
2. Operation Direction Is Not Controlled
3. Brake Failure

# Safety Instructions

**Do not** drive across a slope.

**Do not** drive under the influence of alcohol.

**Do not** tailgate another vehicle.

**Do not** operate hand-held communication devices such as radios or mobile phones.

**Do not** exceed the safe climbing maximum angle.

**Do not** use the joystick in an erratic manner when going up or downhill.

**Do not** exceed the maximum user weight.

**Do not** press the power button of the controller whilst moving as this could damage the electromagnetic brakes or the joystick controller.

**Do not** travel on soft terrain.

**Do not** attempt to climb stairs over two inches tall unless a ramp is installed.

**Do not** disassemble the power wheelchair unless the electromagnetic brakes are engaged and the joystick controller is turned off.

**Do not** operate the power wheelchair without a driver.

**Do not** drive the power wheelchair on the main roads – the footpath must be used.

**Do not** change driving direction or reverse before the power wheelchair has completely stopped.

# Safety Instructions

**Always** engage a slow speed when going down gradients (move the joystick to the central position)

**Always** use the safety belt.

**Always** keep your feet on the footrest while traveling.

**Always** make sure the batteries are fully charged before setting out on a journey.

**Always** charge the power wheelchair in a well-ventilated area.

**Always** replace a loose screw from the center of the wheel with a wrench.

**Reminder!** When using an electric wheelchair, the driver must follow all the rules and regulations of the road.





# Precautions When Driving On Inclines

Driving on a slope is much more dangerous than driving on a flat surface. Please note the following as falling or losing control will result in serious harm to users and others.



**Do not climb slopes that exceed 12°.**



**Do not drive on soft, uneven or unprotected roads such as grass and gravel.**



**Do not reverse when climbing a slope as you may cause a rollover.**



**Slow your speed when going downhill. It takes longer to stop the wheelchair when braking downhill.**



**Do not drive on the side 3° above the ground.**



**Do not exit the wheelchair if facing up or down a slope. Stop the wheelchair before getting on and off**

# Terminology

**Joystick:** The device used to "move" the power chair.

**Controller:** The device that allows the joystick to function.

**Armrests:** Where arms can rest during time spent on power chair

**Footrest:** Where feet can rest during time spent on the power chair.

**Anti-tip wheels:** Wheels that allow slight tipping, or prevent tipping while driving.

**Rear wheel:** The main wheels that move the power chair.

# Joystick controller operation

## **Assemble the controller**

Install the controller on the controller connection.

Adjust the controller direction then tighten the plum nut.

Fix the cabin plug with battery box ;

## **The operation of the controller**

Try to avoid knocking the controller, especially the joystick. Do not beat the controller and the joystick while traveling. Do not hit the controller.

When operating the wheelchair, ensure that the control system is safe and reliable.

## **Operating environment**

Do not keep the control system and its components in a humid environment for long periods of time. If food or drink is spilled on the control system, it should be cleaned immediately.

## **Cleaning**

Use a soft cloth to gently wipe the control system and the joystick. Do not use abrasives and similar cleaners.

# Control Buttons

**1:** Battery indicator

**2:** On/off button

**3:** Horn

**4:** Speed indicator

**5:** Acceleration button

**6:** Deceleration button

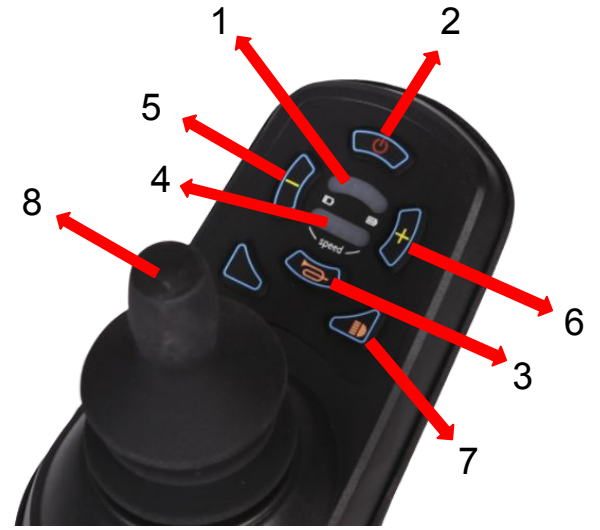
**7:** LED light

**8:** Joystick

**9:** USB

**10:** Charging port

**11:** LED light

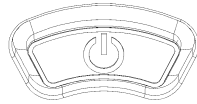


## On/Off Button and Power Display

The on / off button provides power to the electronic components of the control system to provide power to the wheelchair motor. In an emergency, you can use the on / off button to stop the wheelchair.

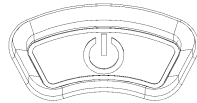
The power display shows the current battery power of the wheelchair. The indicator light tells you that the wheelchair is on. At the same time, the power display also shows the status of the wheelchair.

**Turn on the power**



Press the power button. Both indicators will light up.

**Turn off the power**



Press the power button. The indicator light will go off

# Joystick

The main function of the joystick is to control the speed and direction of the wheelchair. The further the joystick is moved from a central position, the faster the wheelchair runs. When you release the joystick, the wheelchair automatically brakes.

## **Speed Display**

This display indicates the wheelchair setting. With a total of five settings, S1 is the lowest speed, and S5 is the highest.

## **Horn**

Press the horn to sound an alert.

## **Deceleration Button**

This button reduces the speed setting gear and turns the corresponding speed indicator lights off. This button has no effect when driving the wheelchair.

## **Acceleration Button**

This button can increase the speed setting gear and the corresponding speed indicator lights on. This button has no effect when driving the wheelchair.

## **LED Light**

This button can control the light which under the controller.

## Controller Status Indication

| <b>Error Indication</b>                        | <b>Malfunction</b>   | <b>Solution</b>  |
|--|--|--|
| All LED lights are off, with no sound          | The power is off or in standby, and the power cord is in poor contact.                             | Check if the power plug is disconnected.   |
| All LED lights are on                          | The power supply is turned on and the power on self-test passes. The product can be used normally. | Wait for several seconds.  |
| The leftmost red LED is on and the voice alarm | There is an extremely low power supply   | Charge the low battery or replace it.  |
| Two long after two short sounds                | The left motor has failed.   | Check whether the left motor connector is plugged in and the connection is good. |

## Controller Status Indication

|                                   |   |  |
|-----------------------------------|---|--|
| Four long after two short sounds  | The right motor has failed.                         | Check whether the right motor connector is plugged in and the connection is good.  |
| Six long after two short sounds   | The controlled is displaying an over-current status | Just after a heavy load, check whether the vehicle exceeds the rated load, then turn it off and restart.   |
| Seven long after two short sounds | There is a joystick problem                         | When the controller switch is turned on, whether to release the joystick and put the joystick in the center position. After turning the joystick, turn off and on again. |
| Eight long after two short sounds | The controller is faulty                            | Replace the controller   |
| Nine long after two short sounds  | The controller is faulty                            | Replace the controller   |



## Motor Clutch Fork

When the wheelchair is in the electric operation state (power mode), only the controller can be used to move the wheelchair. The wheelchair cannot be pushed by hand, and this will prevent the wheels from rolling.

Manual operation can be triggered by flicking the “motor clutch fork” switch. This means you can easily push the wheelchair, voiding all electronic functions.

**Please refer to the following picture:**



Pull up for electric operation



Press down for manual operation

## ATTENTION

It is advisable to keep the wheelchair in the electric operation state. The role of the clutch device is only to allow the wheelchair to be pushed manually in crowded places. **Please keep both clutch forks in same state.**

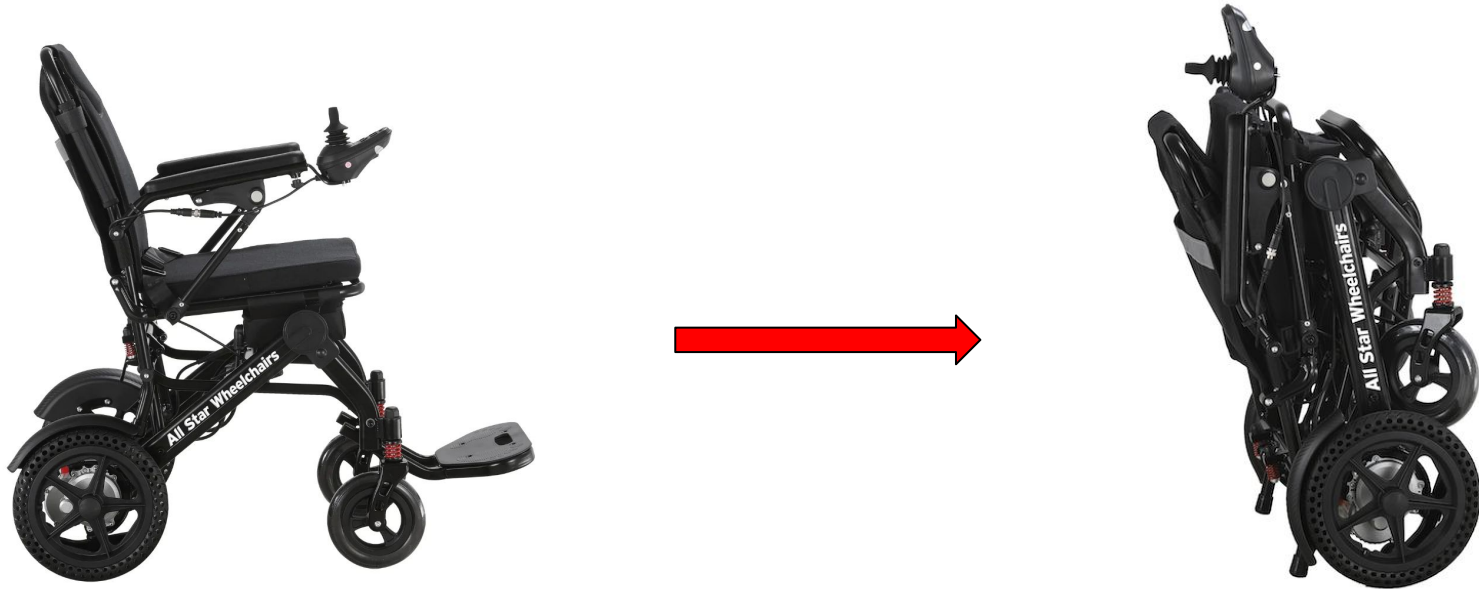
## Folding Your Wheelchair

**Step 1:** Use foot or hand to push the fold button, to make the wheelchair unlock.



## Folding Your Wheelchair

**Step 2:** Hold the handlebar with one hand and the seat cushion frame with the other. Use both hands to force the wheelchair until it is completely folded.



## Adjust The Controller

Install the controller on the left as needed, remove the controller bracket and install it on the left. You can also control the length by yourself.



## Armrest

Press the button on the underside of the armrests to loosen them.



## Remove The Battery

Unplug the cable of battery, unzip the zipper, and take out the battery



## Battery Use

The electric wheelchair uses a 24 voltage battery. It is a good idea to carry a replacement 24V10AH battery, in case you need to charge the one in use.

This is a maintenance-free sealed lithium battery. The batteries are designed to handle deep discharges. Although they are similar in performance to car batteries, they cannot be replaced. Car batteries are not safe for use in electric wheelchairs.

## Battery Charge and Discharge

You can charge the battery directly , or can charge by controller.The wheelchair does not work when charging.





When the indicator light of the charger turns green, unplug the plug of the charger, then pull out the power plug.

**In order to maximize the efficiency of your wheelchair battery, you should:**

1. Fully charge your battery during initial use.
2. Start slowly when using the wheelchair in your home or on the driveway.
3. Give your battery charge 4-6 hours, and then re-operate the wheelchair.
4. After 4-5 cycles of charging and discharging, the battery effect can reach 100%, and can continue for a long time.

**Important information about the battery:**

Frequently charged batteries provide reliable performance and long battery life. If the battery is not charged often or not fully charged, it may cause damage to the battery permanently, causing unreliable operation and reduced battery life.

# Charger

**If you do not often use your electric wheelchair, you must charge once a month to maintain battery life.**

If you want to ship your wheelchair, you must contact the shipping company in advance to ensure that the wheelchair meets the special requirements of the transport.

Maintenance-free fully enclosed lead-acid batteries are designed for wheelchairs and other mobile vehicles. Overall, maintenance-free, fully enclosed lead-acid batteries are safe, green and environmentally friendly, such as aircraft, buses and trains. We recommend that you contact the public transport department for packaging and shipping according to special performance.

Used batteries should be carefully discarded according to your local council's regulations.

## **Charger**

The charger is a very important part of your wheelchair and provides energy to your wheelchair quickly and safely.

Your electric wheelchair is designed to be maintenance free, however we recommend the following checks be completed on a regular basis:

## **Joystick/Controller**

Ensure that the controller is kept away from the damp air as this can easily damage it and void the warranty.

## **Battery Cable**

Check the battery cables to make sure they are not corroded.

## **Cleaning Your Wheelchair**

Clean your wheelchair with a damp cloth, DO NOT use water to clean your wheelchair.