Instruction Manual

Electric Wheelchair

Infinity

EWCP2

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Safety Instructions

Emergency Power-Off

Immediately switch off the power supply if any of the following occur:

1. Unexpected or sudden movement
2. Loss of directional control
3. Brake failure

Safety Instructions

For safe operation of your electric wheelchair, do not:

- Carry passengers.
- Operate under the influence of alcohol.
- Tailgate other vehicles.
- Exceed the maximum safe climbing angle.
- Use the joystick erratically on inclines or declines.
- Exceed the maximum user weight capacity.
- Press the power button while moving, as this may damage the electromagnetic brakes or joystick controller.
- Disassemble the electric wheelchair without first engaging the electromagnetic brakes and switching off the joystick controller.
- Drive on main roads; always use the footpath.
- Change direction or reverse before the electric wheelchair has come to a complete stop.

Always:

- Wear the safety belt.
- Keep feet on the footrest while moving.
- Ensure the batteries are fully charged before each journey.
- Charge the wheelchair in a well-ventilated area.

Reminder: When operating an electric wheelchair, the driver must obey all road rules and regulations.

Usage Operation

Major Parts

An electric wheelchair consists of the frame, wheels, seat, armrests, battery, motor, and controls.

01 Push Handle
02 Armrest
03 Backrest
04 Seat Cushion
05 Battery
06 Brake Lever
07 Front Wheel
08 Foot Rest

Installation Guide

Installation Procedure

1. Remove the wheelchair from the carton and place it on the ground. First, fold the pedals forward, then insert the battery pack into the battery track.(Fig. 1). Unfold the wheelchair by pulling the backrest with one hand while holding the bottom frame with the other hand.(Fig. 2). When you hear a "click," the latch is securely locked, and the wheelchair is ready for use.

2. Insert the controller into the armrest tube (Fig. 3) and tighten the knob to secure it in place.

3. To remove the battery (Fig. 4): Press the switch with your hand, then pull the battery out easily.

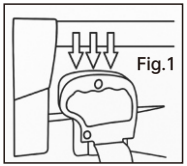


Fig.1

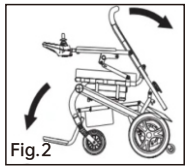


Fig.2

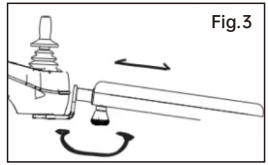


Fig.3

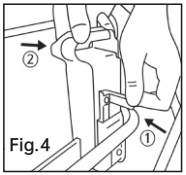
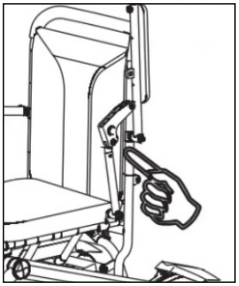
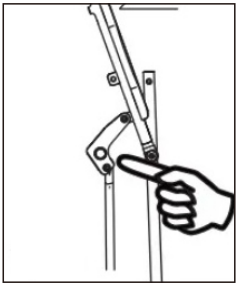


Fig.4

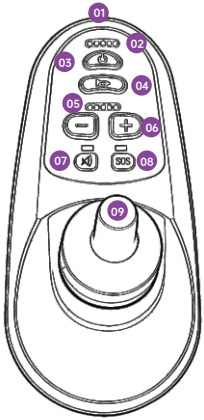
4. For easier access to the wheelchair, the armrests can be flipped up. To raise an armrest, press the lock button located underneath and lift the armrest upward. To lower the armrest, press it downward until you hear a "click," indicating that the lock has engaged and the armrest is securely in place.





Usage Operation

Control Panel



01 Charger Socket

02 Battery Gauge

03 On/Off Button

04 Horn Button

05 Speed Light

06 Speed Down Button

07 Mute Mode

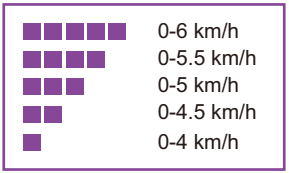
08 SOS Button

09 Joystick

- The **power switch** provides electricity to the control system, which then powers the wheelchair motor. Except in emergencies, do not use the switch to stop the wheelchair, as this may shorten the lifespan of the drive components.

- The **joystick controls** the wheelchair's direction and speed. The farther it is pushed from the center, the faster the wheelchair moves; closer to the center, it moves more slowly. When released, the joystick automatically returns to center and engages the brake.

- Once the power is on, the speed indicator shows the current maximum driving speed. Press the speed down or speed up button to decrease or increase the speed by one bar at a time. The number of bars displayed represents the current maximum speed, which can be adjusted by the user.

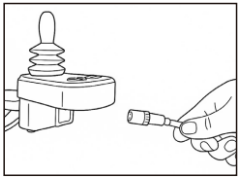


- This socket is solely for charging the wheelchair and should not be used to power any other electrical devices. Connecting other devices may damage the control system or affect the wheelchair's electromagnetic compatibility (E.M.C.) performance.

Charging

The battery charger is an essential component of the wheelchair. It allows the batteries to be charged quickly and efficiently to keep the wheelchair operating at optimal performance. Always use the off-board charger provided.

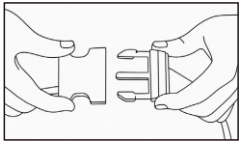
- Always ensure the wheelchair is powered off before connecting the rechargeable battery to the joystick.
- Insert the charger's output plug into the 3-hole socket on the battery pack located at the back of the wheelchair.
- Plug the other end of the charger into a standard power outlet. The blue light will illuminate during charging, and the green light will turn on when the battery is nearly fully charged.
- We recommend to charge the batteries for 4-6 hours.
- Remove the power plug and charger when the batteries are fully charged.



Overload protector and under-voltage protector

This safety feature protects the wheelchair by cutting off power if the motor is overloaded or the battery voltage is too low, preventing damage to the motor and electrical components.

To reset the protector, recharge the wheelchair or reconnect the battery.



Safety belt

For your safety, always fasten your seatbelt while using the wheelchair.

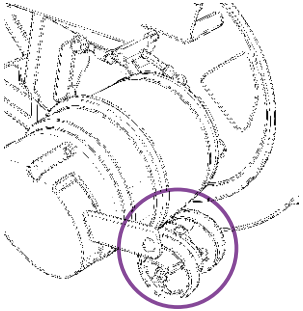
Fault Diagnosis And Troubleshooting

Check the connection and condition of all plug terminals and brakes on each cable. Charge the battery of a new wheelchair and verify the charging status. Ensure the controller model matches and identify any issues using the troubleshooting table. Fault diagnosis applies to model 5516 with brush motors:

2 Warning Tones + 1 Error Tone	If the connection is poor, inspect both the joystick and the controller.
2 Warning Tones + 2 Error Tone	Check for right motor failure or a loose/poor connection at the plug.
2 Warning Tones + 3 Error Tone	Inspect the right brake for failure or a loose/poor plug connection.
2 Warning Tones + 4 Error Tone	Inspect the left brake for failure or a loose/poor plug connection.
2 Warning Tones + 5 Error Tone	Check the left brake for malfunction or a loose/poor plug connection.
2 Warning Tones + 6 Error Tone	The controller may be experiencing an overcurrent, or the motor could have a short circuit or be overloaded.
2 Warning Tones + 7 Error Tone	Check for a Hall joystick failure, a rocker that does not reset, or a poor connection.
2 Warning Tones + 8 Error Tone	The controller may have experienced a self-failure and needs inspection or replacement.
2 Warning Tones + 9 Error Tone	Check for a failure in the controller or the battery.

Electric Operation / Manual Push Mode

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.



motor clutch fork

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