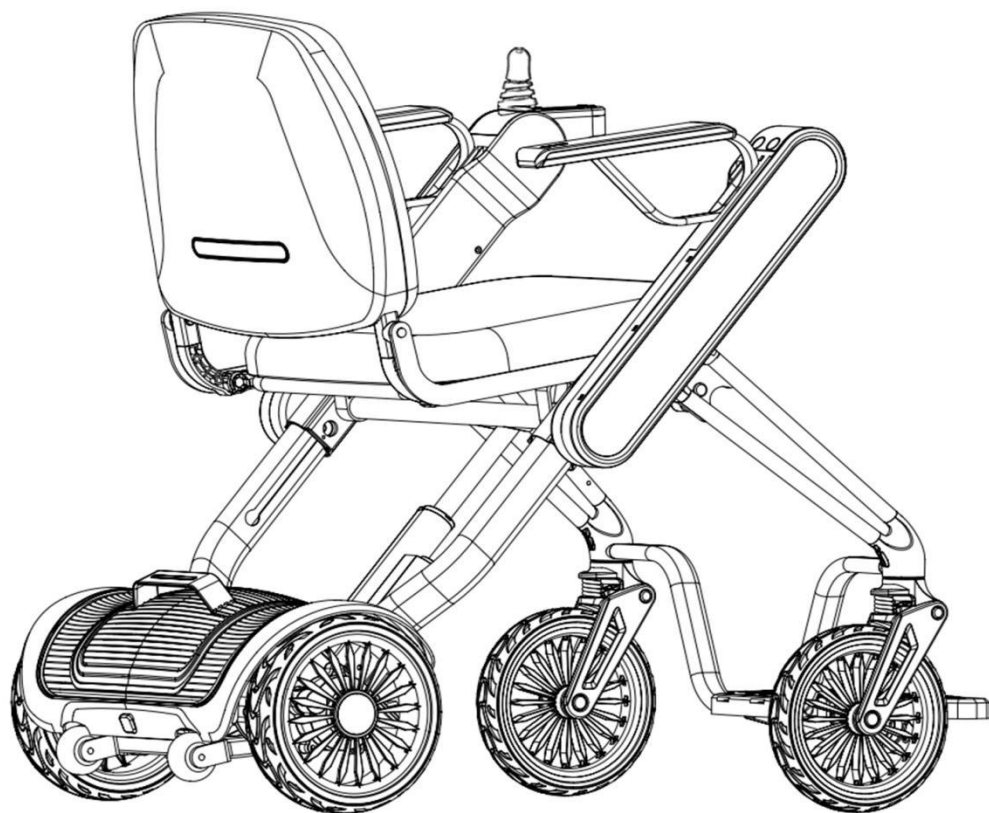


CASWE F10

Electric Wheelchair User Manual



Introduction

Thank you for purchasing the F10 electric wheelchair. This device is designed to provide convenience for individuals who rely on an electric wheelchair for mobility.

This user manual is intended to guide users on the safe operation of the device, as well as provide instructions for basic adjustments, inspections, troubleshooting, and routine maintenance that can be performed by the user. The manual can also be used by dealers, sales personnel, and others who wish to gain a detailed understanding of the main functions. We are committed to ensuring the safety, comfort, and convenience of our users. Please read this manual carefully before use and always operate the device correctly and safely. Keep this manual in a location where it can be easily accessed.

- This manual contains information protected by patent and copyright. No part of this information may be reproduced without our explicit written permission.
- The content of this manual is subject to change without notice. For the latest information on the device, please visit our official website.
- Using the device in ways not described in this manual may cause damage. If you find any inaccuracies or omissions in this manual, please contact our customer support.

Manual Overview

The symbols used in this manual are described below. Always follow the instructions associated with each symbol.

symbol	illustrate
 Warning	Indicates important instructions to prevent urgent hazards that could result in death or serious injury.
 Caution:	Indicates potential hazards that could result in minor injury and/or property damage.
	Indicates required actions.
	Indicates prohibited actions.
	Indicates notes or reference information that must be read to prevent device malfunction or failure and to ensure comfort during use.
	Before beginning work or operating the device or machinery, read the instruction manual/booklet.

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1. Safety Precautions

This device has been designed with safety in mind. However, improper use or ignoring precautions may result in injury or damage.

Safety-related instructions use the terms “Warning” and “Caution” to indicate the level of risk of injury, damage, or hazard. Warning indicates important instructions to prevent urgent hazards that could result in death or serious injury. Caution indicates potential hazards that could result in minor injury and/or property damage.

The F10 electric wheelchair is a mobility device. Before using the device, it is essential to fully understand the contents of this manual. Individuals who feel unable to safely operate the wheelchair should avoid using it. When using and operating the device, pay attention to the following precautions.

This device is designed for use on standard paved surfaces or indoors.

If the device is operated by a caregiver on behalf of the user, the operator must read this manual carefully and fully understand the precautions before use.

Warnings



● If the device shows any signs of abnormal behavior, stop using it immediately and contact the dealer or our customer support. Using the device in poor condition may result in injury or accidents.

● Before use, check for any incorrectly assembled, missing, or damaged components, and ensure the brakes are locked. Otherwise, there is a risk of injury or accidents. If replacement or repair of components is required, stop using the device immediately and contact the dealer.



● Carefully read the instructions regarding the battery and charger in this manual and follow them. Disassembling the battery or charger may cause fire or battery explosion. Do not expose the battery or charger to fire, moisture, or impacts (such as dropping, puncturing with a nail, or standing on them).

● Turn off the device when not in use. Otherwise, accidental contact with the controller may cause unintended movement of the device.

● People with implanted pacemakers, defibrillators, or other electronic medical devices must maintain at least 20 cm distance from magnetic connectors. Magnetic connectors are located between the seat surface and the rear drive base. The magnetic force may adversely affect electronic medical devices.



● Unsafe in MRI environments

The F10 device is not safe in MRI (MR) environments due to ejection hazards. Do not bring it into MR areas to avoid injury.



 Warnings

- The maximum load of this device is 100 kg, including the user and any baggage. Do not exceed this limit, as it may damage the device.



- Do not sit on the controller, invert the removed seat, or overload the controller. Do not press the controller or switches excessively or operate them with sharp objects, as this may damage them and render the device inoperable.



- Do not jump onto the footrest, carry heavy objects while standing on the footrest, or subject the footrest to excessive load, as this may lift or tip over the device.
- Do not attach stickers or paint on the tail light, switches, display, or labels, as this may obscure important components and lead to misuse or accidents.
- Do not lift the device while a person is seated, as there is a risk of dropping or tipping over.
- Do not use the device as a seat in a car or other vehicle, as this may damage the device and cause accidents. The symbol on the right indicates that the device is not intended for use as a car seat.



Warnings



- This mobility device is designed as an integrated unit and comes fully assembled and tested from the factory. The user does not need to perform any installation steps.

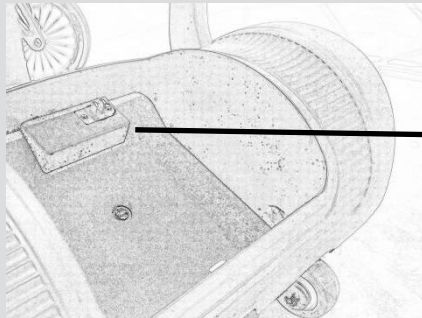
For your safety and proper operation of the device, do not disassemble or modify this product. Performing maintenance or modifications not described in this manual will void the warranty and may create safety hazards.

- Adjustments should be performed on a flat surface with the battery removed and brakes locked, otherwise there is a risk of accidents.



- Do not directly touch the connectors, get them wet, or place them near any metal or foreign objects.

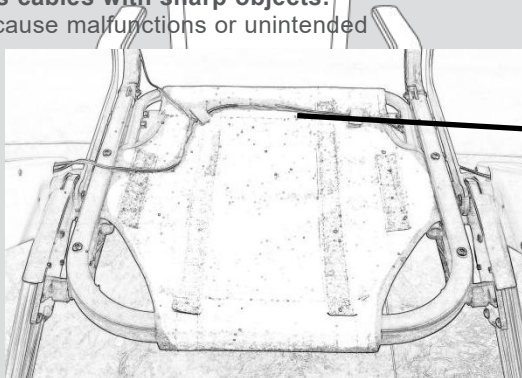
Otherwise, there is a risk of injury, electric shock, or damage to the device or its components.



Connectors

Do not press or stress cables with sharp objects.

- Damaged cables may cause malfunctions or unintended operation of the device



Cables

2. About the Device

2.1. Packaged Items

The device packaging contains the following items. Before using the device, ensure that no items are missing and that all components are undamaged. If any items are missing or the device is damaged, contact your dealer or our customer support.

- F10 Electric Wheelchair
- Battery

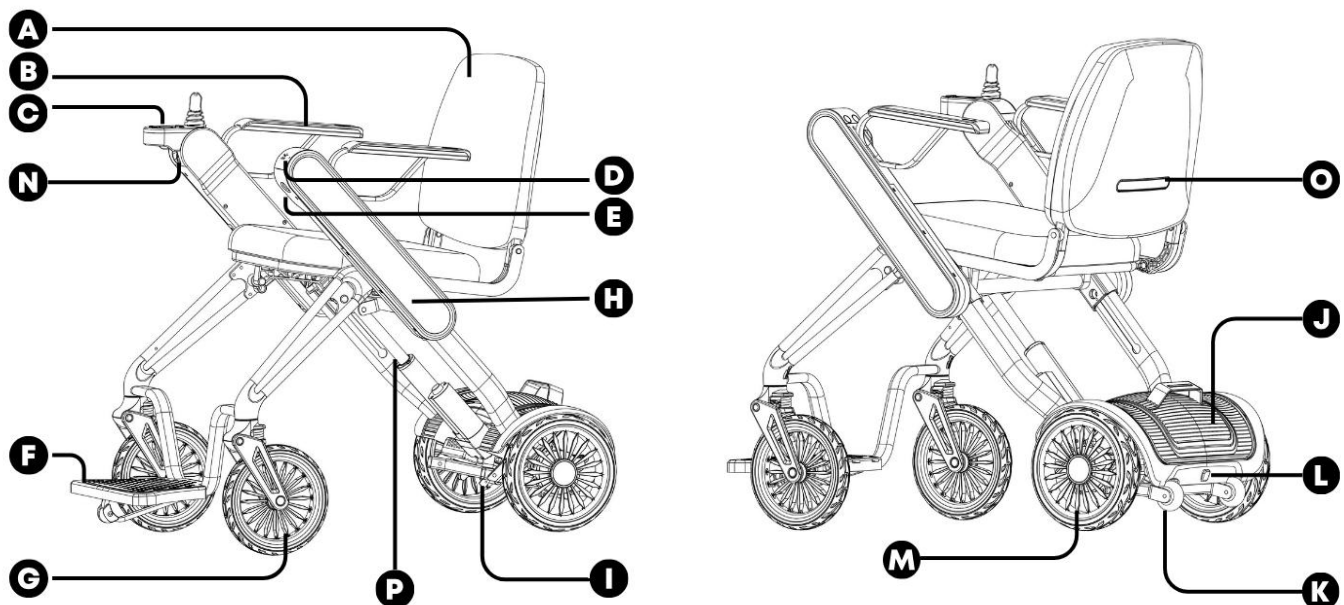
- Charger



When opening the package, handle carefully to avoid scratching the exterior of the device.

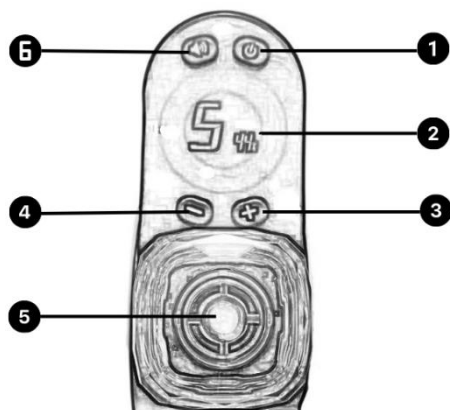
2.2. Component Names and Functions

■ Mobility Device



* The illustration shows the model with the controller on the right side

- A Backrest**
- B Handle**
- C Controller**



- 1 Power Button**
Turns the device on/off.
- 2 Display Screen**
- 3 Speed Increase Button "+"**
Raises speed
- 4 Speed Decrease Button "-"**
Lowers speed
- 5 Joystick**
Controls forward, backward, left, and right movement. The tilt of the joystick also controls acceleration and deceleration
- 6 Horn Button**
Turns the horn on/off

- D Speaker**

- E Lighting**
Touch to turn lights on/off

- F Footrest**
Provides support for the user's feet while seated

- G Front Wheel**

- H Armrest**

- I Brake Release Lever**

Locks/unlocks rear wheel brakes. Located under the seat; there are two levers

- J Battery**

- K Folding Wheel** Ensures the device can slide and remain upright when folding

- L Battery Lock Release Button**

Press to release the battery for removal

- M Rear Wheel**

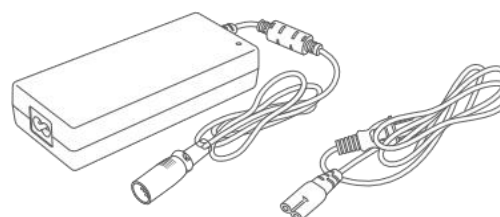
- N Charging Port**

- O Dynamic Signal Light**

- P Push Handle**

■ Charger

Used to charge the battery



3. Battery Charging

Before first using the F10, charge the battery.

If the device has not been used for a long time, make sure to charge the battery before use.

The device's maximum range of 21 km is measured under ideal conditions with a 20Ah battery. Actual range may vary due to slope, turns, curbs, terrain, driving habits, load, and temperature. For long or extended driving, we recommend the following:

- Fully charge the battery before use.
- Minimize the weight of stored items.
- Plan your route to avoid hills and obstacles.
- Maintain a steady speed and avoid sudden braking or frequent stopping.

Warning



- Read the instructions in this manual regarding the battery and charger carefully, and follow these steps:

Removing the battery or charger carries a risk of fire or battery explosion. Do not expose the battery or charger to flames, moisture, or impact (dropping, puncturing, or standing on it).

- Charge the battery in a well-ventilated space, at least twice the size of the device, free from flammable gases or harmful substances.

Charging in a confined or gas-filled space may cause explosion or accidents.

- If the battery is externally damaged or functioning abnormally, stop using or charging it immediately and contact your dealer. Otherwise, there is a risk of electric shock, short circuit, or fire.



- Never attempt to disassemble the battery or charger; doing so may cause explosion.
- Do not touch device connectors, as this may result in serious injury, electric shock, or voiding the warranty.

Note



- If the device is not used for a long time, charge the battery fully before storage. Charge it at least once per month to prevent deep discharge that may prevent future charging.
- After charging, unplug the DC connector from the battery to avoid injury, electric shock, or voiding the warranty.

 Note


- Only use the battery and charger specified for the F10 Electric Wheelchair. Using a non-specified charger or charging a non-specified battery with this charger may cause malfunction.
- Do not use a battery with a damaged or cracked casing. Doing so may cause electric shock, short circuit, or fire.



- If a fully charged battery is inserted and the device does not start correctly, remove the battery, wait 10 seconds, and reinstall it.
- The charger is for indoor use only; do not charge the battery outdoors.
- At low temperatures (0°C or below), the device may slow down as the battery temperature drops. Maximum speed on flat ground is limited to 4 km/h.

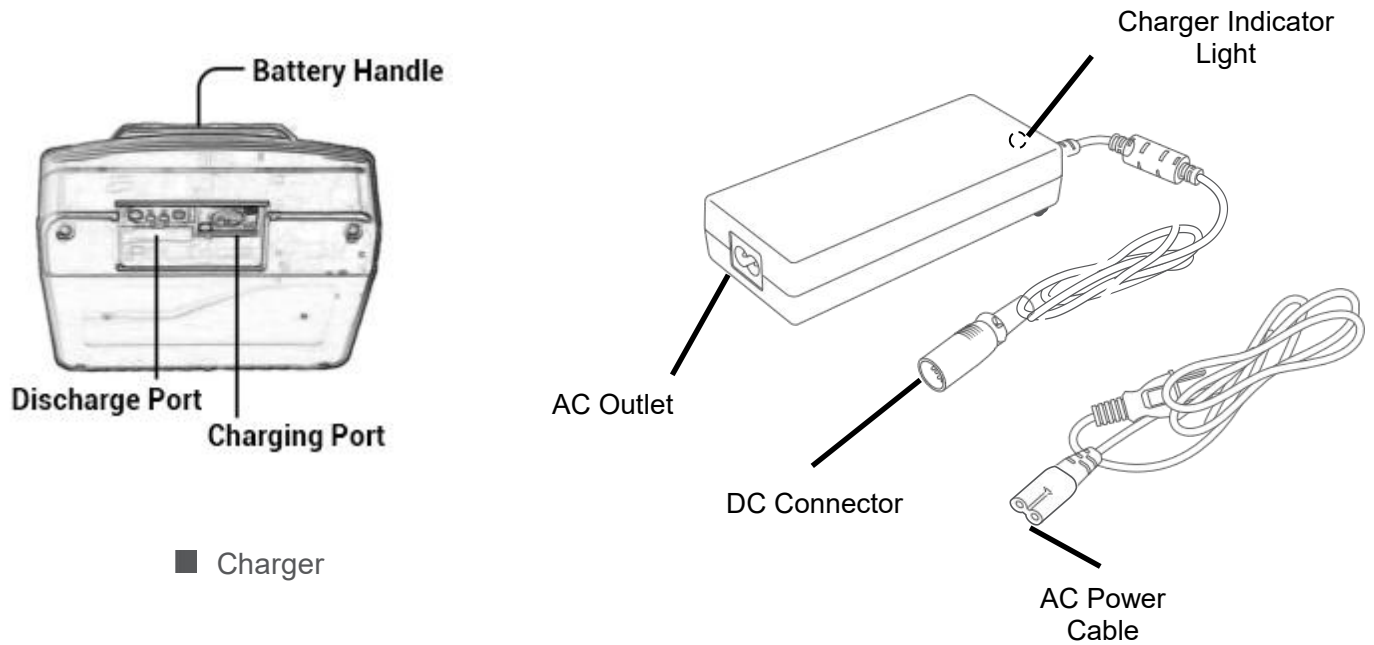
Battery temperature differs from air or environment temperature; ensure battery has stabilized before using in 0°C or colder conditions.

- Driving uphill with a low-temperature battery may cause the device to stop.
- Driving downhill with a nearly full battery may slow the device; the colder the battery, the greater the slowdown.
- Charge the battery regularly, for example after each use, so it's ready when needed. Using the device with a low charge may cause it to stall.
- If you have questions about the battery, contact your dealer or customer support.

3.1. Battery and Charger Components

■ Battery

The device uses a lithium-ion battery. Different specifications have different capacities; maximum supported capacity is 20Ah.



■ Charger

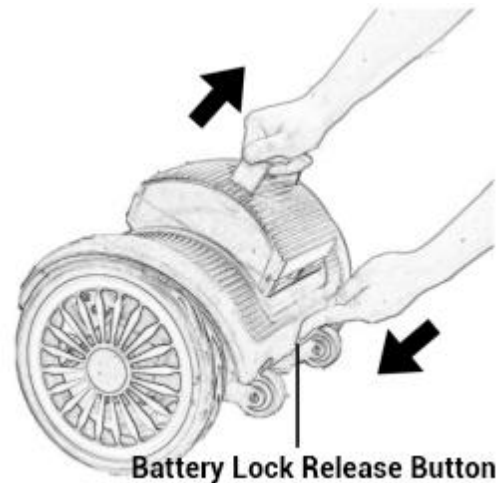
■ Removing the Battery

1. Ensure the device power is off.
2. Press the battery lock release button.

3. Grasp the handle and pull the battery towards you to remove it.



The battery has weight; handle it carefully. Dropping it may cause injury or damage to the battery.



3.2. Charging Procedure

Before first use or after long periods of non-use, always charge the battery.

There are two ways to charge the battery: Charge the battery while it is installed in the device; Remove the battery from the device and charge it separately.

Warning



- Use a household power outlet to charge the device. Using other sources may cause electric shock, short circuits, or fire. Use a wall socket rated 100–240V, 50–60Hz.



- Do not touch the battery or charger during or immediately after charging, as it may cause low-temperature burns.

- Do not touch connectors, wet them, or bring them near metal or other foreign objects, as this may cause injury or damage to the device or its components.
- Do not use extension cords with the charger; doing so may cause electric shock, short circuits, or fire.
- Do not pull the power cord forcefully.
- Do not charge with wet hands to avoid electric shock.

Caution



- Charge only in temperatures between 0–40°C. Charging outside this range may prevent proper charging and may degrade or damage the battery.
- If the device will not be used for a long time, fully charge the battery before storage. Charge it at least once per month to avoid over-discharge.



- Do not charge the battery while the brakes are released, as the device may move and cause accidents.
- Use only the charger and power cable supplied with the device. Using other chargers may cause electric shock or burns from overheating. Do not use the supplied charger or cable for any other device.

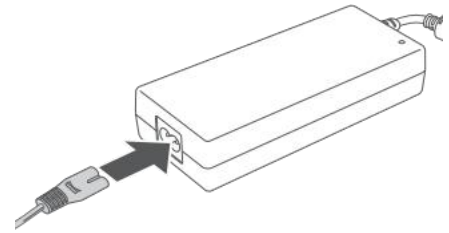


- The device cannot be used while the battery is charging.
- Charging time is approximately 5 hours.
- The charger is designed to prevent overcharging. Even if plugged in longer than 5 hours, it will not damage the device. However, for safety, avoid leaving the charger plugged in for long periods.
- After charging, immediately disconnect the DC connector from the battery.
- If the battery's usable time is abnormally short after charging and needs replacement, contact your dealer or customer support.

■ Charging the Battery While Installed in the Device

For safety, the device cannot be powered on during charging.

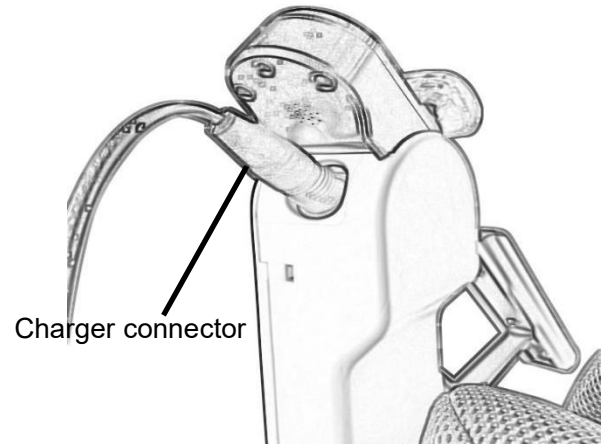
1. Place the device near a wall outlet.
2. Turn off the device.
3. Connect the charger's AC plug and power cable.
4. Connect the DC connector of the charger to the battery charging port, ensuring correct orientation.
5. Plug the charger into the wall outlet. The charger indicator light will turn red, indicating charging has started.



Charger Indicator Light During Charging

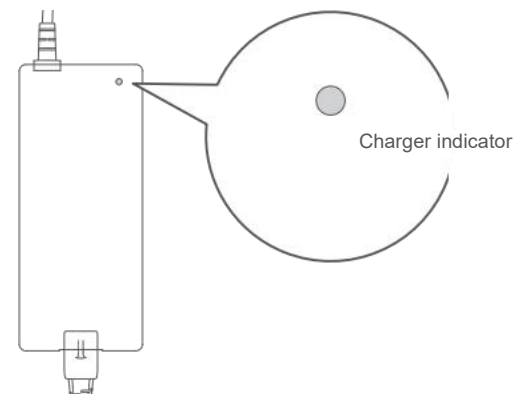
- If the battery is not fully charged and the indicator is green, the charger is not connected correctly. Disconnect and reconnect.
- If it remains green after several attempts, the battery or charger may be faulty.
- If the battery is not full and the indicator immediately turns green, a non-compatible battery may be used.

Please ensure that the charger indicator light is red during the charging process.



3

6. Charging is complete when the indicator changes from red to green.



7. Then unplug from the wall and disconnect the DC connector from the battery.

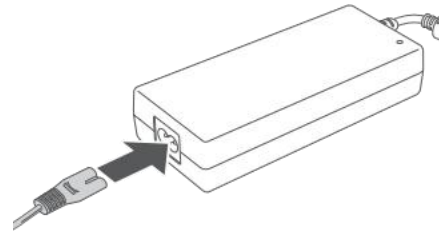
■ Charging the Battery After Removing It

1. Ensure the device is powered off.

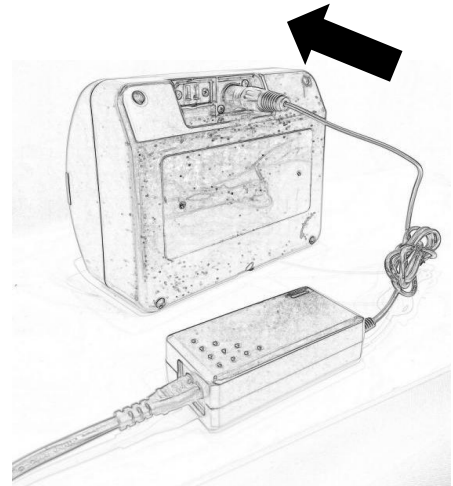
2. Press the battery lock release button, hold the handle, and pull the battery towards you to remove it.



3. Connect the charger AC plug and power cable.



4. Connect the DC connector to the battery charging port, ensuring correct orientation.



5. Plug the charger into the wall outlet.

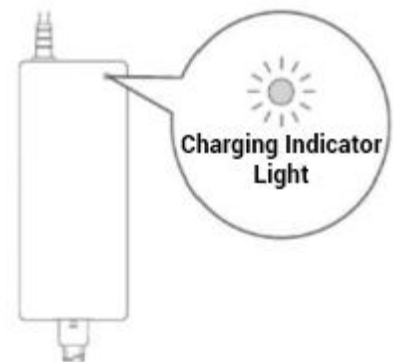
The indicator light will turn red, indicating charging has started.



When the battery is not fully charged

- If the charger indicator light is green, it means the charger is not properly connected. In this case, disconnect and reconnect.
- If after several attempts the charger indicator still shows green, the battery or charger may be faulty.
- If the battery is not fully charged but the charger immediately turns green, it may indicate that a non-compatible battery is being used.

Ensure that the charger indicator light remains red during charging.



6. Charging is complete when the indicator changes from red to green.

7. Unplug from the wall and disconnect the DC connector from the battery.

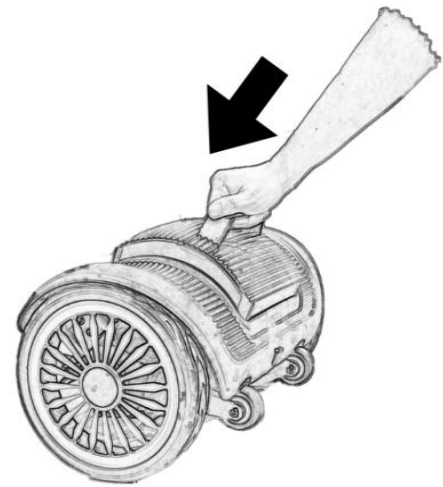


8. Installing the battery into the wheelchair

Make sure the battery unlock button is not pressed.

- ① Hold the battery handle and insert the battery into the battery compartment.
- ② Insert the battery straight until you hear a click. If it is difficult to insert, press both sides of the battery front and back simultaneously.

If the battery is hard to install, it may be due to a protective cover on the battery connector or foreign objects in the compartment. Illuminate the battery compartment and check. If any foreign objects are found, remove them with a small brush or similar tool before trying again.



■ Charger indicator lights

The charger indicator reflects the battery status as follows:

- Green:

Power is connected but the battery is not connected, or charging is complete.

* If the battery is not fully charged and the indicator shows green, charging has failed and the battery will not charge.

Disconnect the charger from the wall outlet. Wait until the charger light turns off, then reconnect. If the problem persists, contact your dealer or customer support.

- Red: Charging in progress.

4. Operating Steps

This section describes the steps for sitting on and operating the device.

Warning



- Do not sit on the controller, invert the removed seat, or overload the controller. Do not press switches or the controller excessively or operate them with sharp objects.

Otherwise, you risk damaging the controller, which may make the device inoperable.

Caution



- If you plan to store the device for a long time, make sure the battery is fully charged before storage. Charge the battery at least once a month.

Otherwise, the battery may discharge excessively and become impossible to recharge.



- To prevent possible malfunctions, avoid prolonged use in rain or driving through puddles.
- When using the device for the first time, it is recommended to do so in the presence of another person.

4.1. Pre-Seat Checks

Warning



- Before entering the device, check the following.

Ignoring any of these checks may cause injury or accidents. If any components need replacement or repair, stop using the device immediately and contact your dealer or technical support.

■ Checks

1. Power Off Checks

Functions:

- Ensure the joystick moves smoothly.
- Confirm the brakes can be released and that the device can be manually pushed. Also, ensure the brakes lock properly and the device does not move when pushed.
- Check that the device is correctly unlocked.

Wheels:

- Check footrests to ensure wear does not exceed 0.5 mm (1/64 inch).
- Check front and rear wheels for deformation or cracks.
- Check the seat for tears or excessive sagging.

2. Power On Checks

- Check that the battery level on the display is sufficient.
- Check that all switches on the controller work properly.
- Ensure the entire display functions correctly.

- Test the horn button.
- Check for abnormal noise when wheels turn.



If any of the above issues cannot be resolved, contact the customer support.

4.2. Seating in the Device

Before using the device, read this manual carefully and ensure you understand it. Follow the instructions correctly.

Warning



- Ensure boarding and exiting occur on a flat, level surface. Otherwise, accidents may occur.
- Turn off the device before entering or exiting. Accidental contact with the controller may cause the device to move unexpectedly.
- Before sitting, ensure the brakes are locked. Leave the device while brakes are released. If brakes are released, the device may move and tip over.
- If your body is not stable in the seat, use the safety belt (if equipped). Otherwise, there is a risk of falling from the device.
- Maximum load for this device is 100 kg, including occupant and any luggage. Do not exceed this limit. Otherwise, the device may be damaged.
- If using your own cushion, ensure it is sufficiently flame-retardant for safety.



- Do not put your body weight on the controller. Doing so may disconnect components, making the device inoperable.
- Do not jump onto the footrest, stand on it with heavy objects, or overload it. Doing so may lift and tip the device.
- Before seating, ensure no other items (e.g., clothing) are near or touching the wheels. Items such as scarves or clothing that get caught in the wheels may cause injury or result in loss of control (e.g., device stopping), potentially leading to accidents.

Caution



● After setting or adjusting the speed, ensure the device operates safely within a secure area. Otherwise, there is a risk of unexpected movement.

● Both armrests are rotatable. Exercise caution when entering or exiting the device to avoid injury.

● If the device is equipped with a safety belt, fasten it during use. Otherwise, there is a risk of injury.



● Do not apply force to the device from the side. Doing so may cause the device to tip over. Do not push or pull the device forcibly from the side.



The device's maximum range or speed may vary depending on driving conditions, such as hills, curves, steps, terrain, load, and temperature. Under certain conditions, the device may stop suddenly. For errors during use, refer to the "Troubleshooting" section.

4

■ Seating from the Front

1. Ensure the power is off.
2. Stand with your back to the device, hold the handle, and keep both feet clear of the footrest.



Do not stand on the footrest when entering; the device may tip over and cause injury.

3. Sit down in the seat.



- Do not touch the controller with your hands.
- Before using, ensure the brakes are correctly locked.
- Be careful not to hit or trap your feet in the footrest frame.
- Do not stand on or place weight on the footrest frame. The device may tip forward and cause an accident.

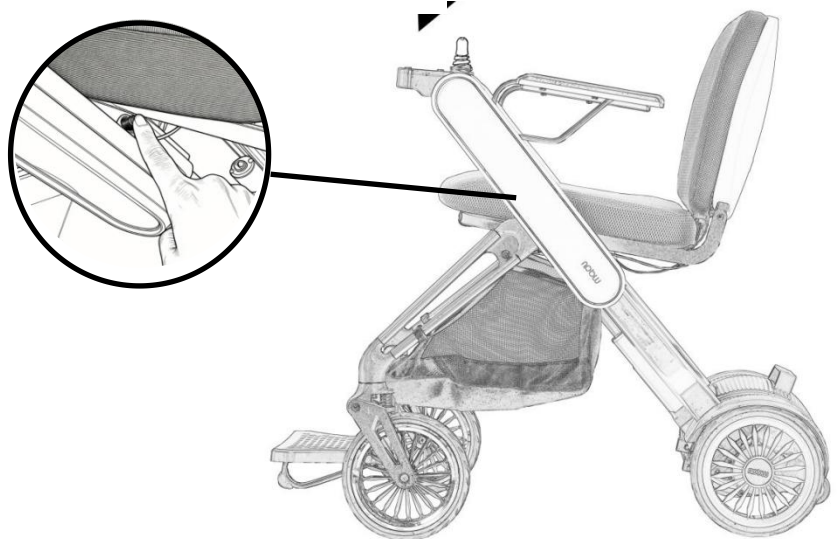
4. Place your feet on the footrest.



■ Seating from the Side

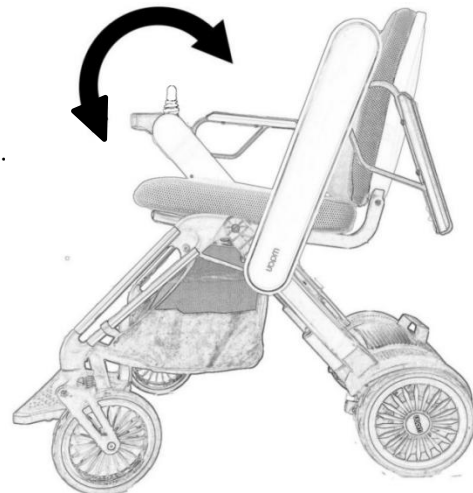
When entering the device from a chair, it is recommended to follow these

1. Ensure the power is off.
2. Press the unlock button (as shown), lift the armrest, and rotate it



3. Sit down in the seat.

4. Rotate the armrest forward and ensure it is locked in place.



Confirm the arm is secured

4.3. Powering On

Warning



- Lock the brakes before turning on the power. If brakes are released, the device may move or tip over.



- Do not press switches on the controller too forcefully or use sharp objects. Otherwise, the controller may be damaged, making the device inoperable.

Caution



- After setting or adjusting speed, ensure the device operates safely within a secure area. Otherwise, there is a risk of unexpected movement.

1. Press the power button.

The device will start, and indicator lights will flash.



If a fully charged battery is inserted and the device does not start correctly, remove the battery, wait 10 seconds, then reinstall it.

power button



4

When the device is on, the display shows the current speed gear and remaining battery percentage.

4.3.1. Checking Battery Level

1. The battery level is shown as 0%–100%. A fully charged battery displays “100%.”



Due to the characteristics of lithium-ion batteries, the battery level may drop quickly or unexpectedly for various reasons, such as environmental conditions or battery status. Always fully charge the battery before use, regardless of the planned travel distance.



4.3.2. Adjusting Speed

1. Use the speed adjustment buttons to set the maximum speed from 1 (slow) to 5 (fast) in 5 levels (when the joystick is fully tilted).

+ Button: Increase speed

- Button: Decrease speed

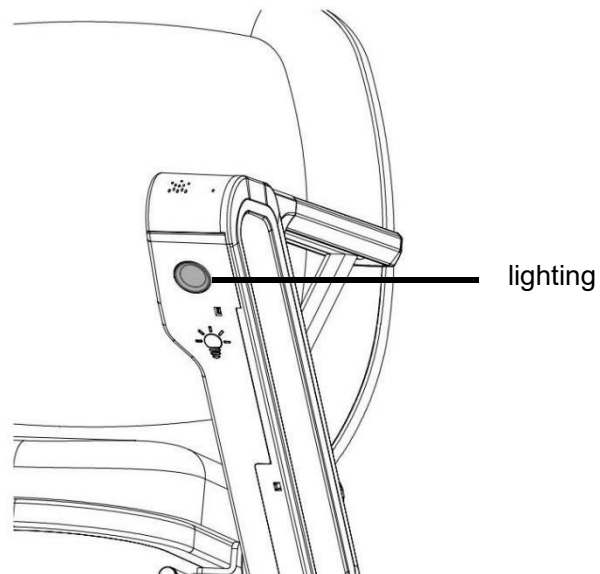
The device speed can also be controlled by the degree of joystick tilt.

4.3.3. Using the Horn

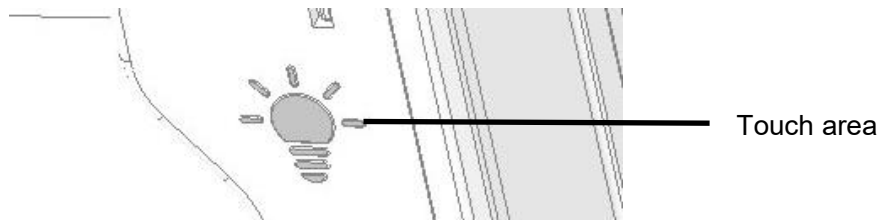
1. To alert people nearby, press the horn button.

4.3.4. Using the Lighting

1. The light is located at the front of the armrest.



2. The light is touch-sensitive; the area with the light icon is the touch zone. Lightly touch this area to turn the light on or off.



4.4. Driving

Move the joystick forward, backward, left, or right to move the device in the desired direction. The speed can be controlled by the joystick tilt.

Releasing the joystick automatically applies the brakes and stops the device.

When driving outdoors, always follow all traffic regulations.



Practice driving in open areas with good visibility.

Warning



- Before driving, ensure the battery is locked.

The device may stop during use due to connection issues between the battery and device.

- If wearing gloves, be careful not to catch them in the device, as this may cause unexpected movement.
- Always watch your surroundings and the road surface. Drive slowly near crowds, walls, obstacles, narrow areas, uneven surfaces, or slopes.

Driving on wet slopes may reduce stability.

- Approach curbs, steps, slopes, and similar obstacles at a 90° angle and pass slowly.
- Keep people and objects away from the joystick and wheels to prevent collisions or injuries.
- Avoid touching the wheels with your body. Do not allow anyone nearby to touch the wheels. Otherwise, there is a risk of injury.
- When stopping on a downward slope, release the joystick early to ensure enough clearance around the device. The stopping distance on slopes is longer.
- Keep a safe distance from platforms or drainage edges.

Warning



- Only release the brakes on flat surfaces and in emergencies with the power off. After manually moving the device with brakes released, lift the brake release levers and lock the brakes.
- When crossing railways or tram tracks, approach at a right angle and do not turn on the tracks, or wheels may get stuck.



- Do not press the controller switches too hard or use sharp objects; this may damage the controller or make the device inoperable.
- Do not lean out of the device, and be mindful of your center of gravity. Ask for help when reaching for distant objects.
- Do not hold objects or place items on your legs while driving.
- Do not drive on: escalators, stairs, steps higher than 35 mm, slopes $\geq 10^\circ$, soft surfaces like sand, mud, snow, or ice.
- Avoid driving through puddles.
- Do not extend arms, legs, or luggage beyond the device.
- Do not use the device for towing.
- Do not drive over curbs or steps higher than 35 mm. This could cause the front wheels to get stuck on the step, making it impossible to drive the equipment.
- Avoid clothes, scarves, or other items touching the wheels.

If clothing, scarves, or other items touch and become entangled on the rollers, there is a risk of injury and it may cause the equipment to become uncontrollable (e.g., it may stop operating), thus causing an accident.

 Caution


- Ensure the armrests are locked before driving.

Otherwise, there is a risk of accidents caused by the moving arm during operation.

- The device may slow down or stop suddenly if:
 - Battery level is low
 - Battery temperature drops significantly
 - Driving downhill at high speed in cold conditions
 - Driving on a steep slope with the battery fully charged.
 - Driving on steep or raised surfaces
- When driving outdoors, use sidewalks.

The device is not designed for roads; ensure visibility and caution when crossing streets.



- Do not bend the joystick assembly except when replacing it.
Otherwise, there is a risk that the control lever may become loose or damaged, rendering the equipment inoperable.

- Do not operate the brake release lever with your foot.
Otherwise, the brake release lever may become deformed, damaged, or unusable.

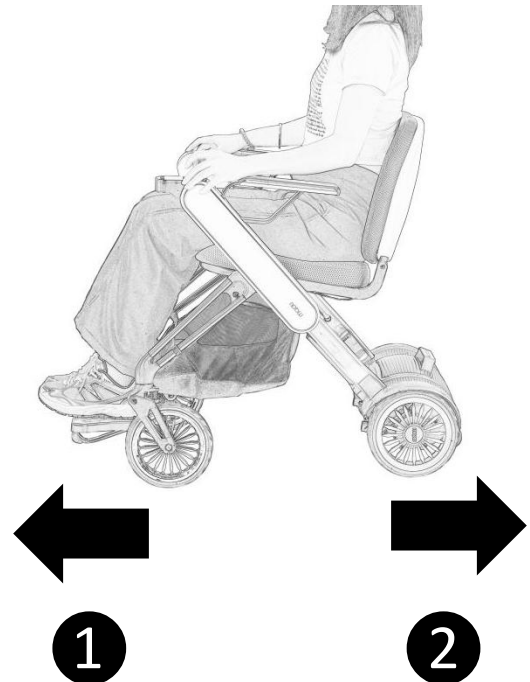
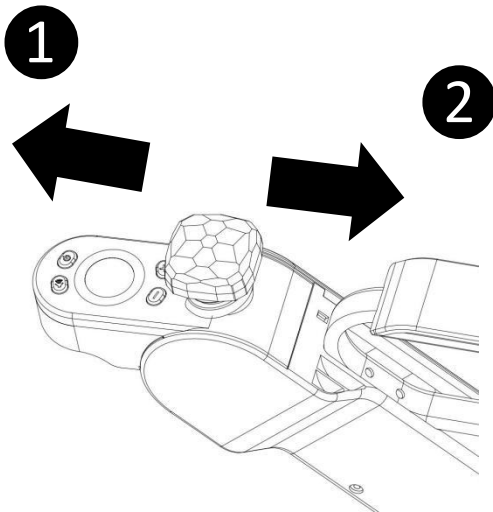
4



- When driving on steep slopes, the equipment's deceleration rate may change automatically.
- If the equipment is used indoors, the floor may be damaged or soiled.

■ Forward/Backward Movement

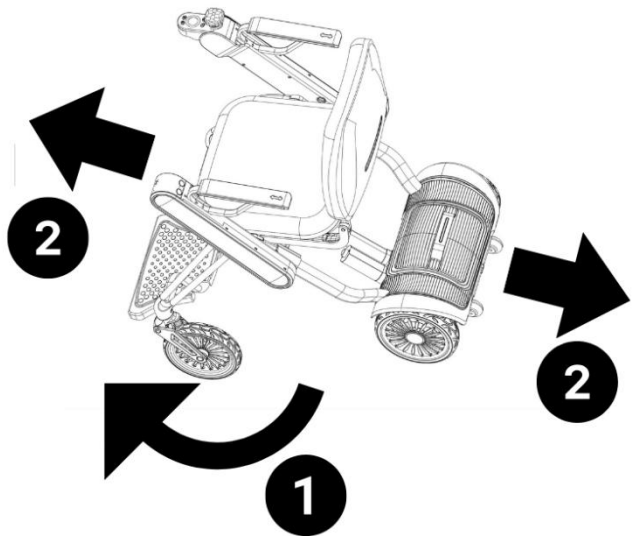
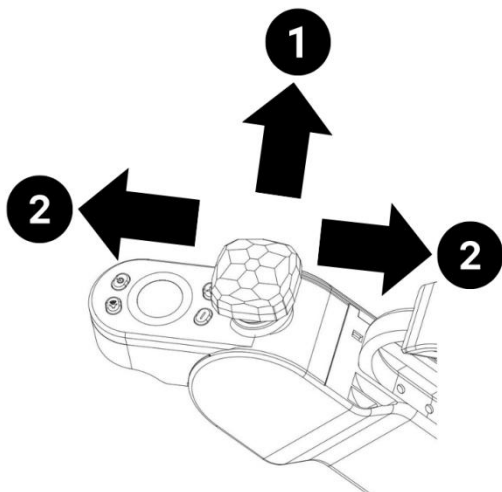
Push the joystick forward to move the device forward, and backward to move it backward.



4

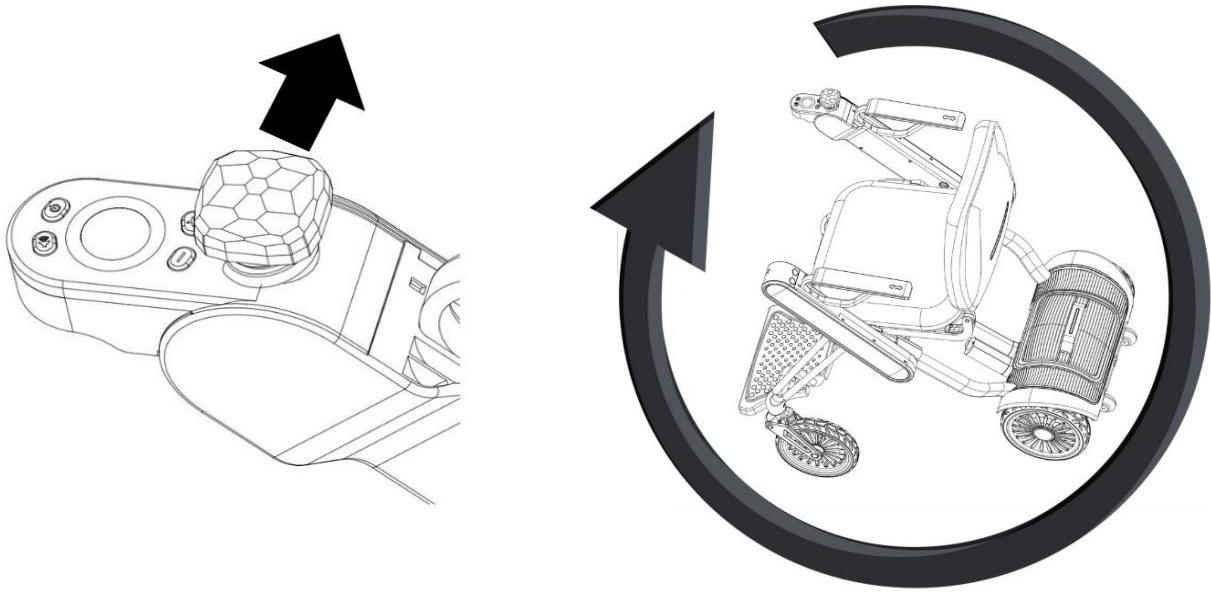
■ Diagonal Movement

To move diagonally, first turn the device to face the desired direction. Then move the joystick straight forward or backward to move diagonally in that direction.



■ Turning

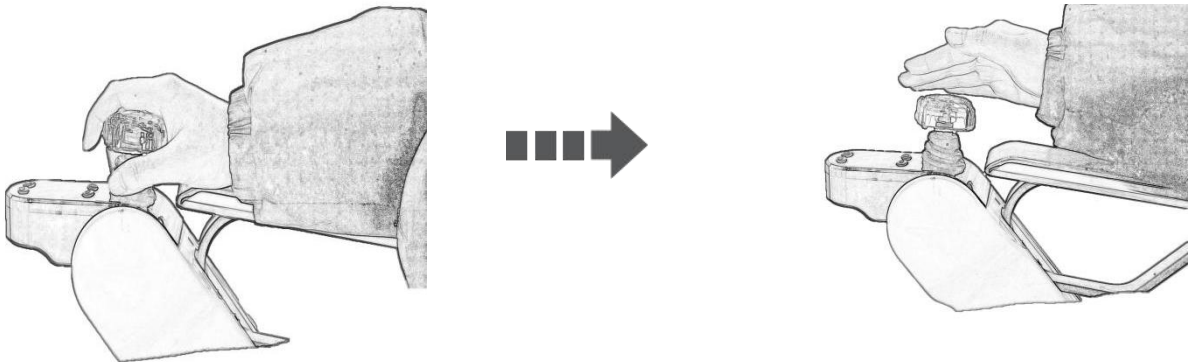
To turn in the desired position, move the joystick left or right and hold.



4

■ Stopping

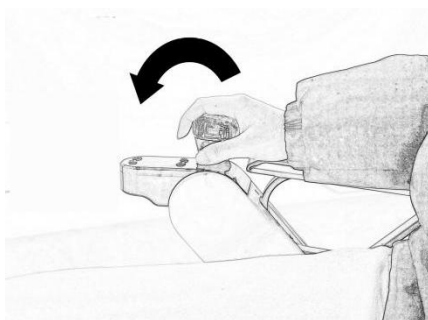
Releasing the joystick automatically engages the brakes and stops the device.



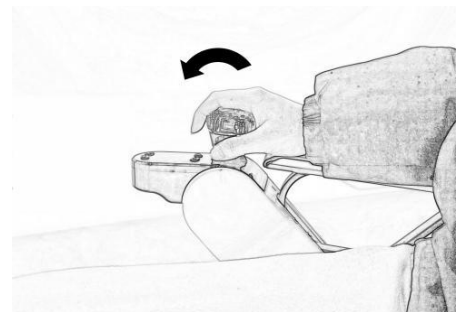
■ Speed Control

The device speed can be controlled by the degree of joystick tilt.

Greater joystick tilt increases speed; smaller tilt reduces speed.



High speed (large tilt)



Low speed (small tilt)

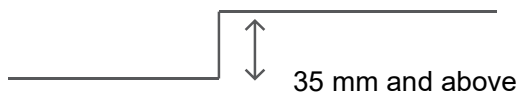
- When starting to drive, move the joystick only as much as needed to begin moving slowly.
- Maximum speed when the joystick is fully tilted depends on the speed setting chosen with the speed adjustment buttons.

■ Driving on Different Surfaces

The device is stable on various surfaces.

However, it cannot drive under the following conditions:

- Steps higher than 35 mm



- Slopes with a gradient of 10° or greater

Slopes $\geq 10^\circ$



- Soft surfaces such as sand, mud, snow, or icy paths

The device can drive on gravel, light snow, and grass.



4.5. Releasing the Brakes

To manually move the device, press the brake release levers located under the seat assembly.

Warning



- Only release the brakes on flat surfaces and in emergencies, with the device powered off. After manually moving the device with brakes released, lift the brake release levers and lock the brakes.

Otherwise, there is a risk of an accident due to the equipment moving freely when the brake is released.



- Do not manually go up or down slopes with the brakes released. Brake failure could lead to accidents.

Caution



- When moving the device after releasing brakes, push slowly and carefully, paying attention to the road conditions.
The device will move freely when brakes are released. Forcing it may cause it to move unexpectedly. Pushing at speeds of 8 km/h or higher may overload the battery.
- Be careful not to pinch or injure your hands or fingers when operating the brake release levers.



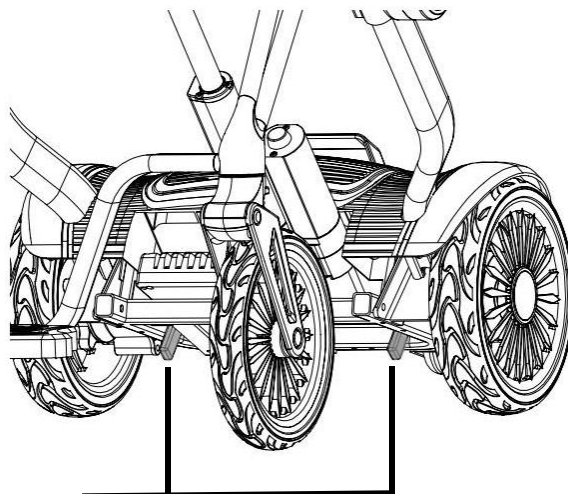
- Do not operate the brake release lever with your feet. The lever may deform, break, or become unusable.

4

■ Release Procedure

1. Turn off the device power.

2. Press both brake release levers (left and right) under the seat to release brakes. To re-lock, lift both levers.



Brake release lever

4.6. Carrying Items

Warning



- Do not place items in the storage basket before folding or while folding the device.
- When using the basket, ensure:
 - Items do not protrude from the basket sides.
 - Always turn off the device and confirm safety before placing or removing items.



Maximum basket load: 2 kg. Exceeding this may damage the basket.

5. Folding Procedure

5.1. Safety Tips

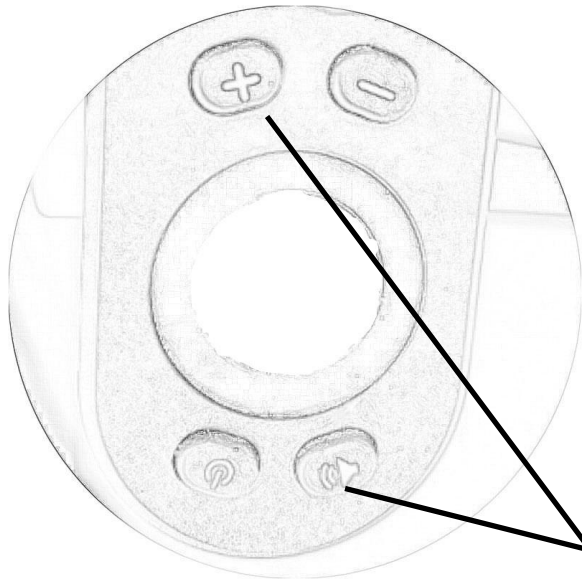
This section explains how to fold and unfold the device.

Warning



- Always fold and unfold the device on a flat, level surface. Otherwise, accidents may occur.
- Always perform folding and unfolding with brakes engaged. Otherwise, the device may move unexpectedly, causing accidents.

5.2. How to Unfold the Device



Press and hold the “Horn” button and the “Speed +” button on the mobility



Warning

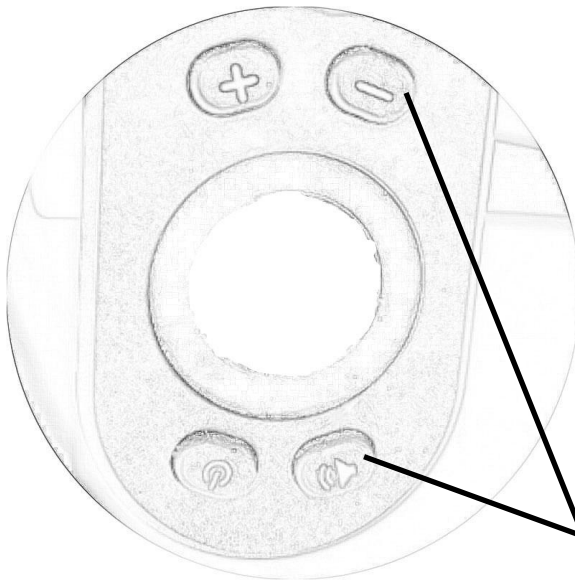
Do not insert fingers or other body parts.



The connecting and moving parts of the device can cause injury.

Do not touch any components not specified in the manual during adjustment, use, or transport of the device.

5.3. How to Fold the Device



Press and hold the “Horn” button and the “Speed –” button on the mobility device simultaneously for 3 seconds.



Warning

Do not insert fingers or other body parts.



The connecting and moving parts of the device can cause injury.

Do not touch any components not specified in the manual during adjustment, use, or transport of the device.

6. Storage and Transport

6.1. Storage

When storing the device, pay attention to the following:

- Do not store near open flames or flammable gases.
- Store in an environment with a temperature between -15°C and 40°C .

Store the battery and charger in the designated area suitable for charging temperatures between 0°C and 40°C .

- Do not place excessive load on the controller. Store the device indoors or cover it appropriately.

Warning



- Do not store the battery in direct sunlight or in locations where the temperature reaches or exceeds 40°C .

Otherwise, the battery may overheat, rupture, or catch fire, potentially causing accidents.

Caution



- If the device will not be used for an extended period, ensure the battery is fully charged before storage. Charge the battery at least once per month.



- Do not store the device in areas with excessive dust or sand, near the sea, or in hot springs areas.
- Do not place heavy objects on the device for long periods.
- Do not store the battery or device in tilted positions, places subject to vibration, on high shelves, or similar locations.
- When removing the battery and storing the device, handle carefully to prevent foreign objects from entering. Do not let objects or water contact the battery or device connectors.
- Do not store the device outdoors under direct sunlight or rain. Rain may cause short circuits, and long-term direct sunlight may cause battery and device overheating, deformation, malfunction, or aging. Store indoors or under a roof.

■ Long-Term Storage

For storage of one month or longer, remove the battery and fully charge it. Charge the battery at least once per month and confirm the device operates normally.

Before using the device after long periods of inactivity, charge the battery and ensure the device operates properly.

6.2. Transport

When transporting the device, pay attention to the following:

- When lifting by hand, hold the designated handles. Do not grab other parts.
- When using public transportation, follow the regulations of the transport provider.
- Without a user, the device is suitable for land and air transport.

Warning



- Do not lift the device while a person or objects are on it. Always hold the designated handles and be aware of the weight.

Do not lift the device using the battery handle.

- The device must not be used as a car or vehicle seat. The symbol on the right indicates this.



Caution



- When transporting in a car trunk, train, bus, or other public transport, ensure all parts are securely fastened.

- When using a wheelchair lift, secure the device safely.

- Do not place heavy objects on the device during transport.



- The device has not been tested for PRM-TSI (accessibility interoperability) limitations.
- If taking the device on a commercial flight, contact the airline in advance to confirm boarding procedures. Airlines may require device specifications. Flight-related device information can be downloaded from the F10 product website FAQ. Some airlines may refuse transport.

6.2.1. Transporting the Device in Folded State

This section explains how to transport the device while folded.

Caution



- Before transport, check the surrounding environment and road conditions.



- Do not allow the device to tip over. Otherwise, the device may be damaged.

1. Grip the armrests or back support to roll the device.

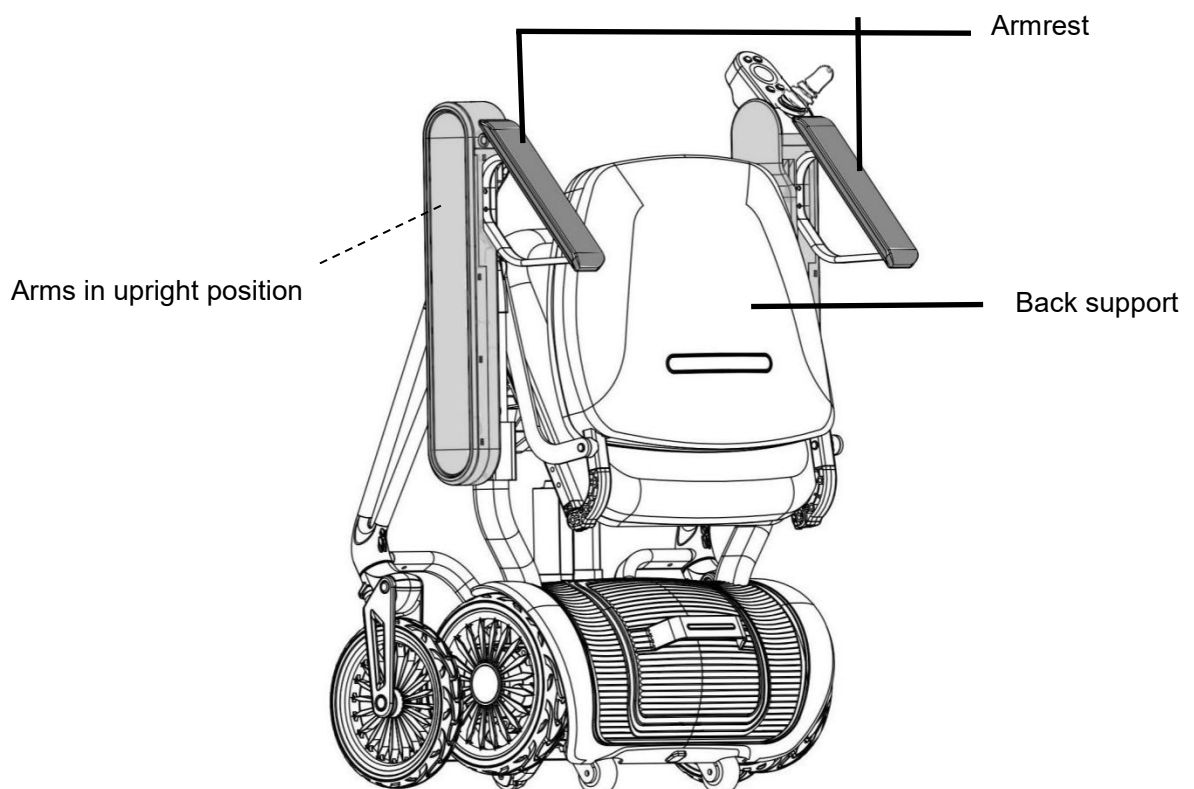


Check that both arms are in the upright position and cannot rotate backward.



- When moving the device, carefully inspect your surroundings and road conditions to prevent collisions or falling off the device.
- Do not apply force to the device from the side or underneath.

6



6.2.2. Loading the Device into a Car Trunk

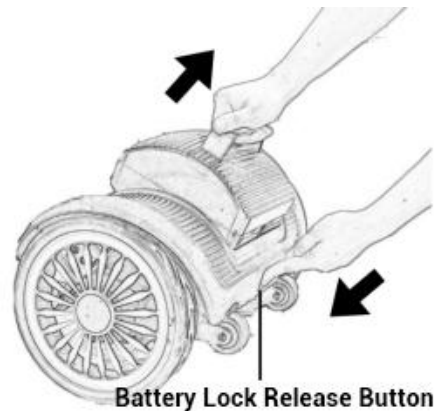
This section explains precautions when loading the device into a car trunk or other transport vehicle.

Caution



- Before loading the device into a car trunk or transport vehicle, remove the battery. The power may be on, and the device could move, causing accidents.
- Before loading, securely hold the components described in this manual. Otherwise, the device may be damaged.
- The device weighs approximately 18.7 kg without the battery. If it feels too heavy, do not forcefully lift it. Otherwise, it may fall and cause injury to the user or damage the device.
- When transporting the device or its components in a car trunk or other vehicle, ensure all parts are securely fastened. Otherwise, parts may move due to vibration or impact and damage the device.

1. Remove the battery.



Battery Lock Release Button

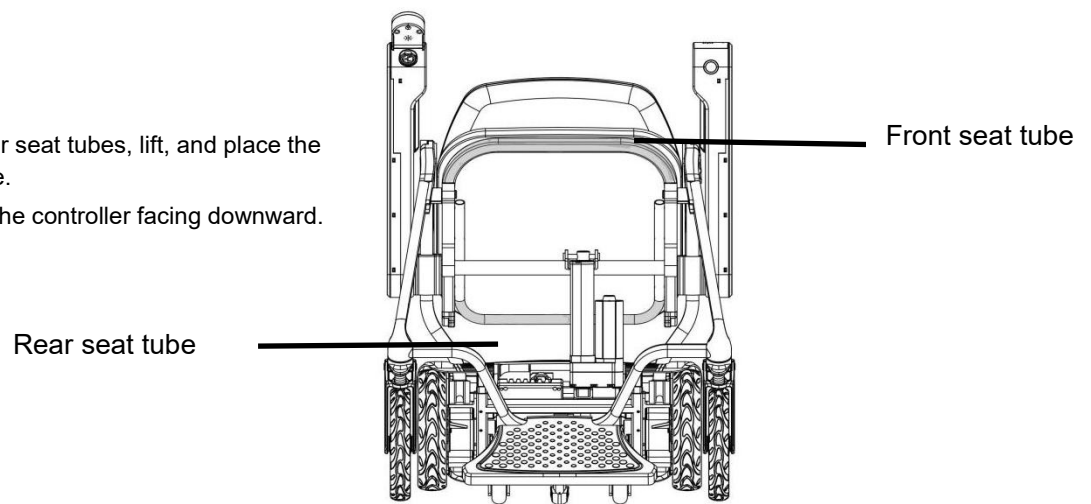
6

2. Fold the device.

3. Load the device:

Hold the front and rear seat tubes, lift, and place the device into the vehicle.

Do not place the device with the controller facing downward.



7. About the Smartphone Application

This chapter introduces the application used with the F10.

After installing the application on your smartphone, you can configure the device through the app. Use the application within a connectable distance close to the device.

The remote-control function of the app can be used for attendant control, moving the device after use, or retrieving the device for use. The app can also be used to lock or unlock the device.

Depending on your region, time, or smartphone model, the application or certain functions may not be available.

Caution

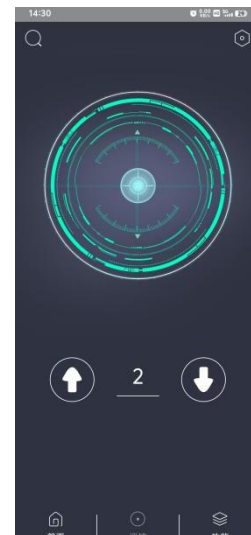


- After each setting and speed adjustment, ensure the device operates normally within a safe space. Otherwise, there is a risk of unintended movement.

Scan the QR code below to download the APP



Remote control direction and gear selection of the mobility



Battery level interface of the mobility scooter



Folding and unfolding of the mobility scooter



8. Controller Personalization Settings and Calibration

Important Safety Notice: Please read this section carefully before making any settings.

To obtain the best control experience and ensure driving safety, the controller of this wheelchair allows you to fine-tune the sensitivity and response characteristics of the joystick according to your body weight and driving habits (some functions may not be available depending on the controller software version).

- Improve comfort: Make starting, turning, and stopping smoother.
- Enhance safety: Prevent accidental acceleration or sudden stops caused by overly sensitive or slow control.
- Adapt to individual differences: Ensure users of different body weights obtain relatively stable and reliable control.

Caution



- The factory default settings are generally appropriate; users may fine-tune them according to personal preference.
- First-time setup recommendation: Perform settings when using for the first time or when body weight changes significantly (more than 15 kg).
- Safe environment: Perform setup and subsequent testing in a flat, open indoor environment without obstacles. Otherwise, collisions may cause injury or damage to the device.
- Low-speed test: After completing the settings, be sure to test carefully at the lowest speed level to confirm control performance meets expectations.
- Restore default: If you are not satisfied with the adjustments or abnormal control occurs, immediately restore the factory default settings and contact professional personnel.
- Responsibility notice: Users are responsible for any control changes resulting from adjustments they make. If unsure how to operate, contact an authorized service agency or professional technician for assistance.

8.1. Controller Panel

8.1.1. Human – Machine Interaction

●Power on: Press the power button to turn on. After a “beep” sound, startup is complete.

●Power off: Press and hold the power button for 3 seconds to turn off. After a long “beep,” shutdown is successful.

●Buzzer: When powered on, pressing buttons or reversing will produce a beeping sound.

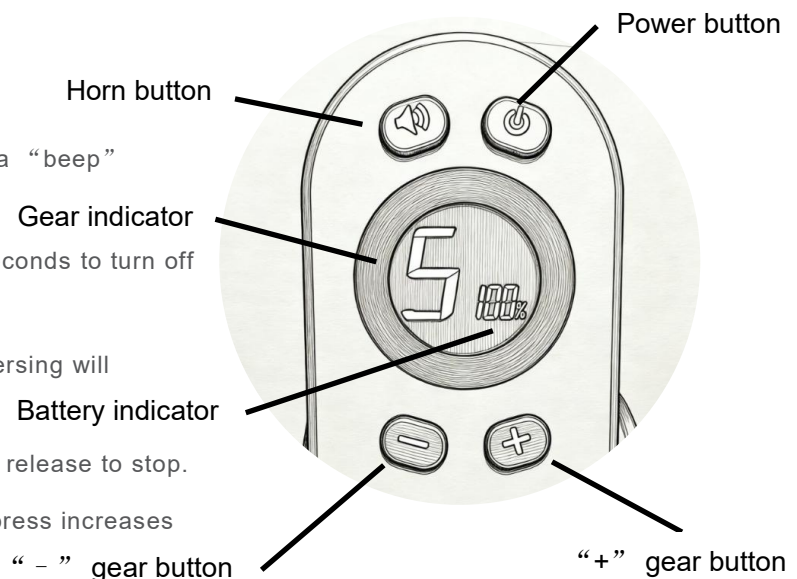
●Horn button: Press and hold to sound continuously; release to stop.

●Speed increase: Press the “+” speed button; each press increases one level, up to level 5.

●Speed decrease: Press the “-” speed button; each press decreases one level, down to level 1.

●Unfold: Press and hold the “horn button” and the “+ speed button” simultaneously for 3 seconds. After a “beep,” the device will begin moving from the folded state until fully unfolded.

●Fold: Press and hold the “horn button” and the “- speed button” simultaneously for 3 seconds. After a “beep,” the device will begin moving from the unfolded state until fully folded.



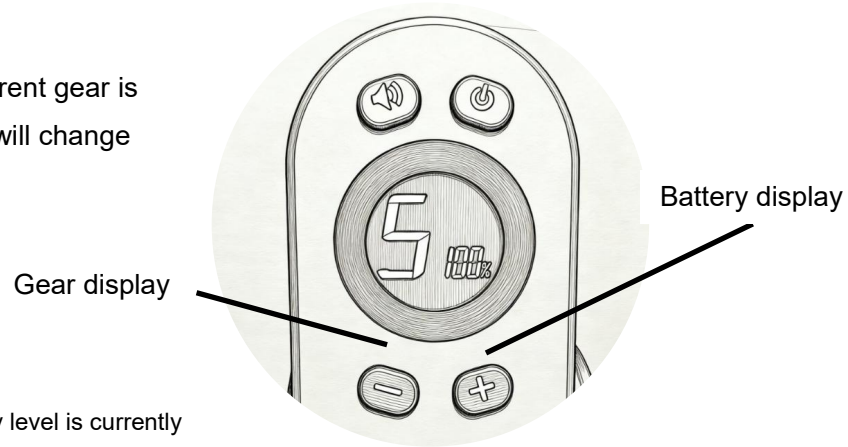
8.1.2. Display Interface

● A、Gear Display

The number “5” on the screen indicates the current gear is level 5. Press the gear button and the number will change accordingly.

Maximum gear: 5

Minimum gear: 1



● B、Battery Level Display

The number “100%” on the screen indicates the battery level is currently 100%. Battery level is displayed from 0%–100%.

When the battery level is below 10%, the wheelchair automatically enters low-speed driving mode to ensure user safety.

Please charge as soon as possible.



- When battery level is below 10% (speed reduced to under 1.5 km/h), the electric wheelchair can continue traveling for approximately 2 km.
- When battery level drops below 2%, the smart electric wheelchair will automatically brake and display “P”. At this time, it is recommended to engage the rear wheel brake, turn off the power, and seek assistance from a caregiver.

● C、Charging Display

After the charger is connected to the controller, the screen automatically switches to the charging interface. The letter “C” indicates the device is charging.

The interface displays the battery level. When it reaches 100% and the charger indicator turns green, charging is complete.

● D、Fault Display

The letter “E” on the screen indicates “Error,” meaning the device is in fault mode.

The number on the right is the error code.

Please refer to Chapter 11 of this manual for troubleshooting details.

8.2. Settings

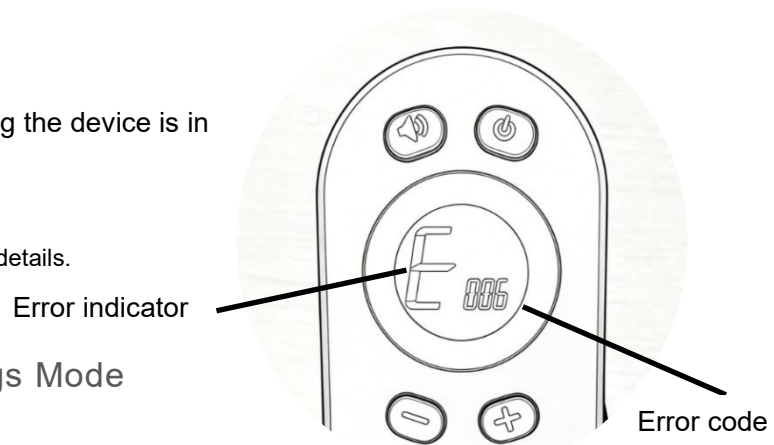
8.2.1. Entering and Operating Settings Mode

A、Enter settings

User settings mode: press and hold the “Power” button and the “+ gear” button simultaneously for 3 seconds to enter user settings mode.

B、Confirming and adjusting settings

- After entering settings mode, short-press “+” or “-” to find the desired setting item.
- Once the item is found, short-press the “Horn” button to enter the setting content; the value will begin flashing.
- While flashing, short-press “+” or “-” to adjust the parameter.
- After adjustment, short-press the “Horn” button to confirm and exit; the value will stop flashing.
- Press and hold the “Power” button to exit settings mode. After exiting, restart the controller; the new settings will take effect and be saved.

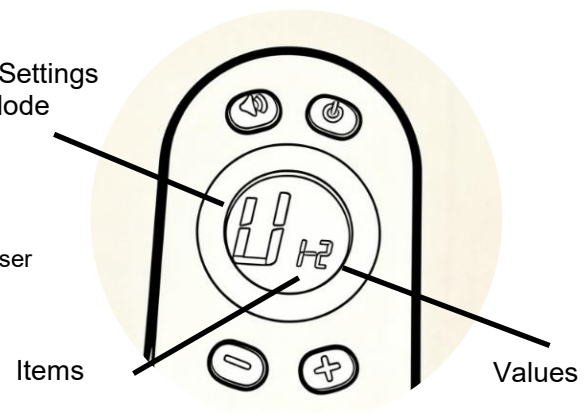


8.2.2. Settings Mode Display

User settings interface:

- “U” indicates “User,” meaning the controller is currently in user settings mode.
- The number on the left of the dash represents the setting item; the number on the right represents the setting value.

Grey values indicate factory default parameters.



Speed Sensitivity	1-1	1-2	1-3			
	Low speed sensitivity	Medium speed sensitivity	High speed sensitivity			
Steering Sensitivity	2-1	2-2	2-3			
	Low steering sensitivity	Medium steering sensitivity	High steering sensitivity			
Left Wheel Deviation Compensation	3-0	3-1	3-2	3-3	3-4	3-5
	No compensation	Compensation levels 1	Compensation levels 2	Compensation levels 3	Compensation levels 4	Compensation levels 5
Right Wheel Deviation Compensation	4-0	4-1	4-2	4-3	4-4	4-5
	No compensation	Compensation levels 1	Compensation levels 2	Compensation levels 3	Compensation levels 4	Compensation levels 5
Reverse Warning Sound	5-0	5-1				
	Off	On				

8.2.3. Adjustment Item Descriptions

1.Speed Sensitivity

Function: Controls how smoothly the wheelchair starts when the joystick is gently pushed forward or backward.

Weight reference:

- Lightweight users (below about 60 kg): If the wheelchair feels jerky or too aggressive at startup, reduce sensitivity for a smoother start.
- Heavier users (above about 90 kg): If startup feels weak or slow, increase sensitivity for a more direct power response.
- Average users (60–90 kg): Factory settings are usually appropriate; fine-tune according to personal preference.

2.Steering Sensitivity

Function: Controls the responsiveness of left/right joystick steering.

Weight reference:

- Heavier users may feel steering is heavy; slightly increase sensitivity for better maneuverability.
- Lighter users who find steering too responsive can slightly reduce sensitivity for improved stability.

3.Left/Right Wheel Deviation Compensation

Function: Fine-tunes the output balance of the left and right drive wheels to compensate for slight driving deviation caused by long-term use, minor tire pressure differences, or uneven weight distribution.

Caution



- This setting involves core drive parameters.

Only attempt adjustment if the wheelchair consistently drifts slightly left or right on a flat surface and after confirming there are no tire pressure issues, uneven tire wear, or mechanical faults.

- Incorrect settings may cause unstable driving, sudden turning, or spinning in place, creating a serious risk of rollover or collision.
- Strongly recommended: adjustments should be performed by authorized service technicians.

The following information is for experienced users who fully understand the risks and proceed with extreme caution.

Preparation before adjustment:

- Find a long, flat, straight, open hard surface (e.g., indoor corridor or empty parking lot).
- Ensure both drive tires are the same model, similarly worn, and have identical pressure. Remove any items on the footrest that may shift weight.
- Sit in your normal driving posture, hands relaxed, body centered.

How to identify deviation (test on a flat straight road):

- Set to low speed (e.g., gear 1). Gently push the joystick forward to a fixed position and drive straight for about 10–20 meters.
- Drifting left: right wheel may be rotating slightly faster, or left wheel has more resistance. Increase left compensation or reduce right compensation.
- Drifting right: opposite of the above.
- Note: occasional slight deviation may be caused by uneven ground; only consistent, repeatable deviation requires compensation.

Fine adjustment:

- Drift left: increase left wheel compensation or reduce right wheel compensation.
- Drift right: increase right wheel compensation or reduce left wheel compensation.
- Adjust only one level at a time. Do not change more than two levels at once to avoid instability, sudden turning, or rollover risk.

Testing and verification:

- Test straight driving at low speed to check improvement.
- If deviation remains, repeat fine adjustments one level at a time. If direction reverses, over-adjustment occurred—adjust back.
- At low speed, the wheelchair should maintain a straight path without noticeable corrective force on the joystick.
- Under safe conditions, test short straight driving at medium speed to ensure stability.



- If control feels abnormal or unstable after adjustment, immediately restore the factory default settings.
- If repeated fine-tuning does not resolve the issue, stop adjusting. Persistent deviation may indicate mechanical or electrical problems requiring professional inspection. Contact after-sales service for diagnosis and calibration.

Warning



- Do not perform any disassembly, adjustment, repair, or modification not described in this manual.

Doing so may damage the device or its components, posing a risk of injury and compromising product safety. Unauthorized repairs or modifications will void the warranty. manual will invalidate the warranty.



- If components cannot be adjusted or maintained, contact the dealer. Only trained personnel are permitted to perform maintenance.
- The maintenance manual is intended for service providers and is not for individual users.

9.1. User Maintenance

Perform the following to keep the device clean:

- If the exterior or wheels are heavily soiled, wipe with a damp cloth. When washing the wheelchair with water, avoid other components to prevent electric shock or short circuits.
- For stubborn dirt, use a neutral detergent. Avoid petroleum-based solvents.
- Do not use high-pressure washers.
- Replace the front wheels if the pedal wear is less than 0.5 mm or the metal core is exposed. Replace the rear wheels if pedal wear is less than 0.5 mm.

Warning



- Only wash the wheels with water; do not wash the device or other components.

Failure to do so may cause electric shock, short circuits, corrosion, and device malfunction.

Caution



- Do not use paint thinner, benzene, or other organic solvents. Avoid high-pressure washers.

Doing so may cause discoloration, deformation, deterioration, or damage.

- Do not insert sharp objects into speaker holes; this may damage the controller.
- Do not apply commercial lubricants, oil-based anti-rust agents, or waxes on moving parts or connectors.

Such substances can attract sand or debris, leading to device malfunction.

9.2. Inspection

It is recommended to inspect the device approximately every 6 months.

9.3. Repairs, Maintenance, and Parts Replacement by Manufacturer or Dealer

If repairs, maintenance, or part replacement are required, contact customer support.

Warning



- If folding wheels are deformed, replace them. Otherwise, the device may tip over when folding.
- Stop using the device immediately if any abnormal signs appear, and contact the dealer or customer support. Using a malfunctioning device may cause injury or accidents.

Caution



- If parts are worn or need replacement, contact the dealer. Otherwise, the device may be damaged and become inoperable.

9.4. Disposal

Dispose of the device and its components according to local regulations. If in doubt, contact customer support.

9.5. Product Service

Service Guarantee

This document applies to the purchased F10 product (collectively “Product”) and its factory-configured components, accessories, and external devices (collectively “Parts”). Other items not included, such as promotional items, gifts, or post-factory additions, are covered under their own warranty terms.

If the Product, under normal use and maintenance, experiences performance failures due to materials, craftsmanship, or manufacturing defects within the warranty period, we will provide repair, replacement, or other warranty services as described here.

“Performance failure” is defined according to relevant statutory warranty (“Three Guarantees”) regulations.

“Normal use and maintenance” means installation, use, maintenance, storage, and transport comply with instructions and intended use.

“Affecting normal use” means the product cannot perform its intended functions.

Unless otherwise stated or legally agreed, we will not charge users extra fees for warranty service. This represents the full extent of our product quality and service guarantee; no other express or implied warranties apply.

If dealers or any third party make additional promises to the user, the user should pursue them; our company assumes no responsibility.

The “Three Guarantees” period starts from the product delivery date.

It applies to original parts on the vehicle, except for specified consumables.

The warranty for replaced parts ends with the vehicle warranty.

Consumable Parts Warranty Table

Consumable Item	Warranty	Coverage
Front caster wheels	1000 km or 6 months (whichever comes first)	Delamination or slippage
Drive tires	1000 km or 6 months (whichever comes first)	Cracks, delamination
Cushion	3 months	Non-human factor fading, thread damage
Backrest	3 months	Non-human factor fading, thread damage
Seat belt (if any)	3 months	Non-human factor fading, thread damage
Buttons	3 months	Functional failure
Outer shell / footrest pads	Not covered	

Exclusions from Warranty

The warranty is void if:

- 1、 No valid proof of purchase or warranty certificate is provided.
- 2、 Damage results from misuse, improper transport, maintenance, or storage.
- 3、 Damage results from force majeure or accidents (fire, war, terrorism, etc.).
- 4、 Unauthorized disassembly or modification.
- 5、 Failures after using non-original parts for repair.
- 6、 Failures after repair by unauthorized personnel.
- 7、 Natural aging, fading, or wear during use.
- 8、 Damage from water, snow, smoke, chemicals, or corrosion.
- 9、 Non-original or refurbished machines.
- 10、 Other issues not caused by product quality (human-caused damage).
- 11、 Complaints about color, shape, appearance.
- 12、 Beyond warranty period.

In these cases, users should seek remedy from the responsible party; we assume no responsibility. Problems caused by out-of-warranty parts, accessories, or software are not considered warranty issues and should be addressed through updates or repair of those items.

Inspect product and accessories upon receipt; incomplete or damaged items are not covered.

Important: Users should carefully read this section.

Obtaining Service

Provide valid proof of purchase when requesting warranty service.

If the invoice is inconsistent, altered, or illegible, it is invalid.

Keep records of any repairs or replacements.

If documentation is unavailable but the product is verifiably under warranty, service may still be provided at our discretion.

Follow required procedures, provide necessary information, and comply with problem assessment steps.

Authorized service centers handle warranty service. If multiple centers exist, choose the most convenient.

Unless otherwise instructed, exchanges or returns are usually handled by the dealer. Users should deliver the product to the dealer for processing.

In this document, “dealer” refers to the merchant who sold or otherwise provided the product to the user.

10. Specifications

Model	F10
Folded Dimensions	356*570*820mm
Unfolded Dimensions	910*860*570mm
Seat Height	560mm
Seat Size	560*430mm
Net Weight (without battery)	18.7kg
Battery	Lithium(12ah)
Minimum Turning Radius	850mm
Front Wheel	192mm
Curb Climbing	6cm
Rear Wheel	205mm
Motor Power	150W*2 brushless motors
Max Range	21km
Max Speed	6km/h
Obstacle clearance height	Garage bump:6cm vertical obstacle:3.5cm
Max Load	100kg
Max Slope	10°
Package Size	590*370*875mm

11.Troubleshooting

When issues occur, the display shows error codes.

Error Code	Description	Solution
E001	Joystick failure	Check if joystick returns to neutral; remove obstacles if necessary. If unresolved, contact service.
E100	Standard rear control failure	Contact service.
E800	Front control to drive communication failure	Contact service.
E002	Left motor Hall failure	Check left motor connector; reconnect if loose. Inspect wiring; replace if damaged. If unresolved, contact service.
E003	Left/right motor Hall failure	Follow above step to inspect both motors.
E004	Right motor Hall failure	Follow above step to inspect right motor.
E005	Left motor electromagnetic brake failure	Ensure brake is engaged.
E006	Right motor electromagnetic brake failure	Ensure brake is engaged.
E007	Left/right motor electromagnetic brake failure	Ensure both brakes are engaged.
E008	Left motor current detection alarm	Contact service to replace driver.
E010	Right motor current detection alarm	Contact service to replace driver.
E013	Left motor failure	Contact service to replace motor.
E014	Right motor failure	Contact service to replace motor.
E015	Left/right motor failure	Contact service to replace motor.
E016	Left motor MOS failure	Contact service.
E017	Right motor MOS failure	Contact service.
E018	Left/right motor MOS failure	Contact service.
E020	Power voltage over/under voltage	Check battery level; charge with original charger if low. Check battery and circuitry; replace or repair as needed.
E021	Smart rear control communication error	Contact service.
E040	15V over/under voltage	Check battery; replace if faulty. Contact service for other issues.

Other language versions. Video guidance.



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