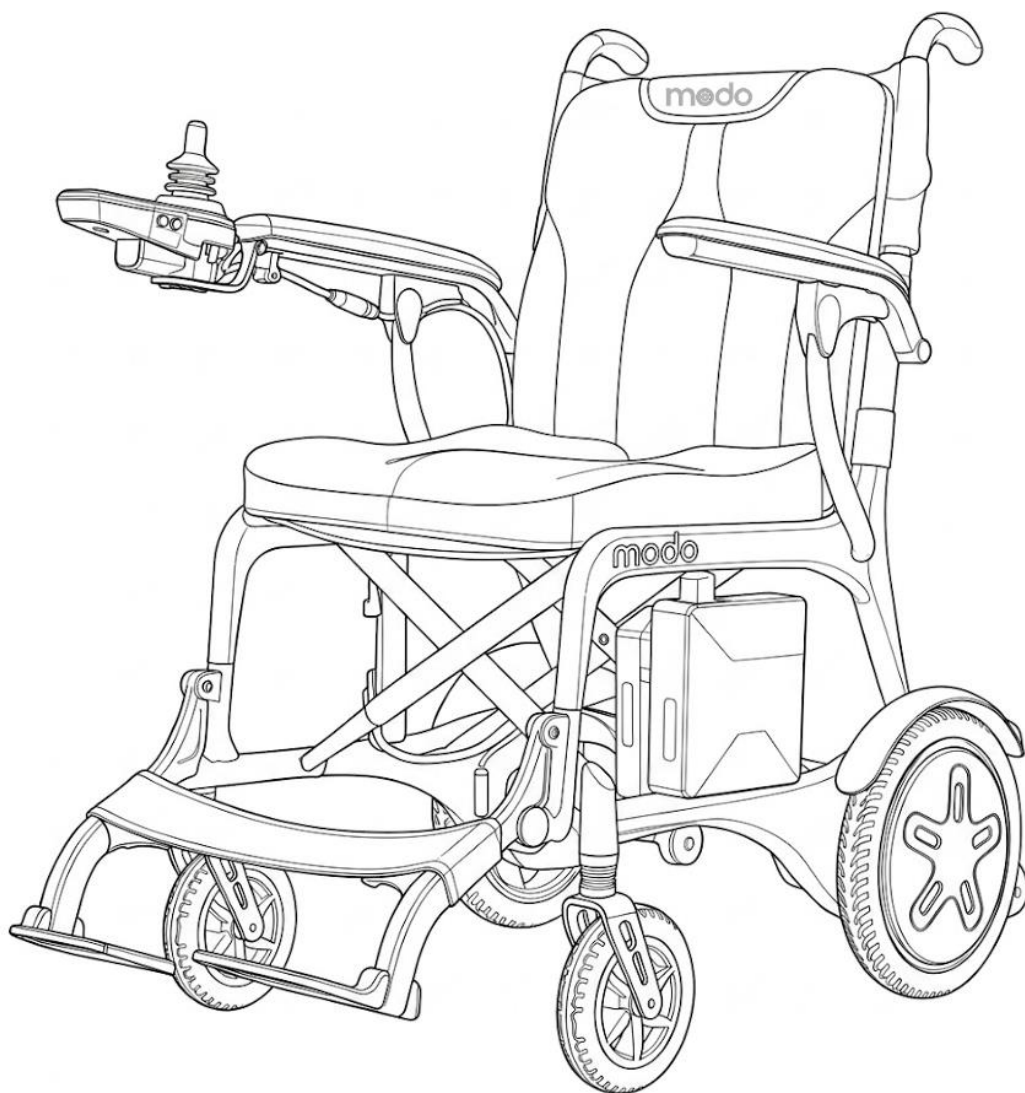


modo



User Manual

Modo Breeze

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INTRODUCTION

Thank you for purchasing this Modo Breeze Carbon Fiber Electric Wheelchair. This device is intended to provide indoor and outdoor mobility to individuals with restricted mobility and who are comfortable with operating an electric wheelchair.

This manual contains essential information for the safe operation, care, and maintenance of your device. This manual can also be used by distributors, sales staff, and others to gain a detailed understanding of the main functions. Modo is dedicated to ensuring the safety, comfort, and convenience of the users.

Read this manual carefully before use and be sure to use the device correctly and safely. Store this manual in a location where it can be referred to whenever needed.

- This manual contains information that is protected by patent rights and copyrights. It may not be reproduced in part or in whole without explicit written permission from WHILL, Inc.
- The contents of this manual may be changed at any time without notice.
- Use of this device in ways not defined in this manual may result in injury or damage to the device. Please contact your distributor or customer support if you notice any inaccuracies or omissions in this manual.

Intended Use:

The intended use of the Modo Breeze electric wheelchair is to provide mobility to individuals with restricted mobility and who are comfortable with operating an electric wheelchair.

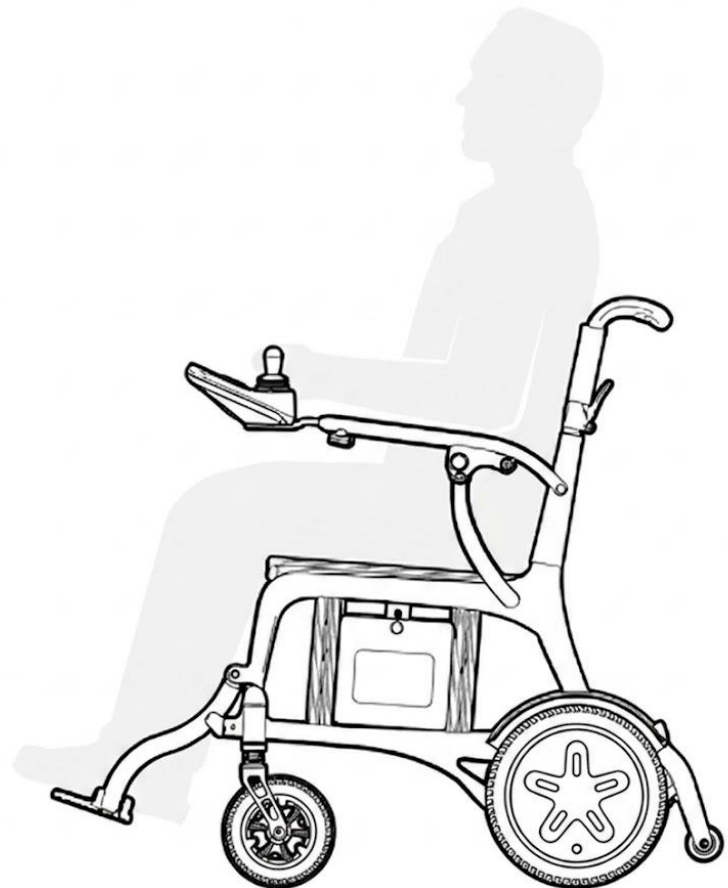


IMPORTANT NOTE

If you are ever unsure about any aspect of the Modo Breeze wheelchair, please do not use and contact your dealer for support.

FEATURES

- Carbon fiber frame
- Folds up for transport and storage
- Comfortable padded backrest
- Contoured seat cushion
- Fold down backrest with storage pocket
- Lift-up armrests
- Controller LCD display and fingertip controls
- USB port and headlight
- Battery power indicator
- Controller can be attached left or right side
- Variable speed setting
- Rear wheel drive
- Front wheel suspension
- Electromagnetic brake
- Rechargeable li-ion battery (FAA approved)
- Anti-tip wheels
- Calf strap
- Lap belt
- Horn



SPECIFICATIONS

Frame Material	Carbon Fiber
Device Weight w/out Battery & Cushions	28.6 LB (13.44 kg)
Device Weight w/ Battery	33.7 LB (15.22 kg)
Battery	10Ah / 24V / 240 Wh – Lithium-Ion Battery
Battery Weight	3.9 LB (1.8 kg)
Motor	180 W (x2); Brushless DC
Controller	LCD Display, USB Charging Port, Headlight (24 V)
Brake	Electromagnetic Brake
Max Weight Capacity	300 LB (136 kg)
Top Speed	3.7 MPH
Seat Cushion	2" Thick Contoured Pincore
Front Wheel	6.5" Solid Tire
Rear Wheel	11" Solid Tire
Size (Unfolded)	38.97" x 20.86" x 34.25" (99*53*87 cm)
Size (Folded)	29.92" x 8.66" x 27.16" (76*22*69 cm)
Range	Up to 9.5 miles
Max Incline	12 Degrees
Air Travel Approved	Yes

SAFETY ADVICE

For your own safety, please read this user manual before using the Modo Breeze electric wheelchair. Failure to follow these guidelines may result in damage to the product and put the user at risk. If in any doubt, contact your dealer for advice.

The Modo Breeze electric wheelchair is supplied with a rechargeable lithium-Ion battery that must be charged using the supplied battery charger. Using a different charger may damage the battery.

WARNING! - FAILURE TO USE CORRECT AND SPECIFIED CHARGER MAY RESULT IN INJURY, DAMAGE, OR CANCELLATION OF WARRANTY AND STATUTORY PROTECTIONS.

- Please ensure that you are physically capable to operate this wheelchair.
- Consult your dealer/appropriate healthcare professional for advice prior to use.
- Do not exceed maximum user weight of 300 LB.
- Designed for single person use only.
- Do not travel up inclines over 12 degrees (21.26% grade).
- Reduce speed when turning.
- Do not get on or off the wheelchair unless the wheelchair is switched off.
- Do not switch off the wheelchair while it is moving.
- Do not drive the wheelchair where it is not safe or legal to do so.
- Do not attempt to drive over curbs over 1.57" in height. Doing so could cause your wheelchair to turn over, causing personal injury or damage to the wheelchair. For curbs less than 1.57", always approach them at an angle of 90 degrees and at low speed.
- Do not drink or use a mobile phone while operating your wheelchair.
- Always keep your feet on the wheelchair footrests when moving.
- Always slow down and proceed carefully when traveling over rough or uneven ground.
- Do not drive the wheelchair on an incline that has oil, water, or ice film on it.
- Do not use parts or accessories that are not authorized by manufacturer of the wheelchair.
- Do not connect any foreign device to the wheelchair battery or charging port. This could cause failure of the device and personal injury.
- Do not use the wheelchair as a seat when being transported by a vehicle, otherwise it may result in injury or damage to the wheelchair.
- Do not use the wheelchair in the rain, near a shower, or in a damp bathroom. Direct exposure to liquids or condensation could cause the wheelchair to electrically malfunction.
- Charge battery daily after use.
- Always charge the battery in a well-ventilated area.
- Do not operate the wheelchair while charging.
- Ensure the charging cable is removed from the wheelchair after charging.
- Always check the remaining battery charge prior to operating the wheelchair.
- Do not operate the wheelchair in a manner that exceeds the product's specifications listed in this owner's manual. Otherwise, injury and/or damage to the wheelchair or surrounding property may occur. Doing so may also void the warranty.

EMI (Electromagnetic Interference)

Electric wheelchairs may be susceptible to electromagnetic interference (EMI), which is a kind of interfering electromagnetic energy (EM) emitted from sources such as radio stations, TV stations, amateur radio (HAM) transmitters, two-way radio, and mobile phones. The interference (from radio wave sources) can cause the wheelchair to release its brakes, move by itself, or move in unintended directions. It can also permanently damage the wheelchair's control system.

The sources of radiated EMI can be broadly classified into three types:

1. Hand-held portable transceivers (transmitters-receivers) with the antenna mounted directly on the transmitting unit. Examples include: citizens band (CB) radios, "walkie talkie", security, fire and police transceivers, cellular telephones, and other personal communication devices.

NOTE! Some mobile phones and similar devices transmit signals while they are ON, even when not being used.

2. Medium-range mobile transceivers, such as those used in police cars, fire trucks, ambulances, and taxis. These usually have the antenna mounted on the outside of the vehicle.

3. Long-range transmitters and transceivers, such as commercial broadcast transmitters (radio and TV broadcast antenna towers) and amateur (HAM) radios.

NOTE! Other types of hand-held devices, such as cordless phones, laptop computers, AM/FM radios, TV sets, CD players, and cassette players, and small appliances, such as electric shavers and hair dryers, so far as we know, are not likely to cause problems to the wheelchair.

Wheelchair Electromagnetic Interference (EMI)

Because EM energy rapidly becomes more intense as one moves closer to the transmitting antenna (source), the EM fields from hand-held radio sources (transceivers) are of special concern. It is possible to unintentionally bring high levels of EM energy very close to the wheelchair's control system while using these devices. This can affect wheelchair movement and braking. Therefore, the warnings listed below are recommended to prevent possible interference with the control system of the wheelchair.

EMI WARNING

1. Do not operate hand-held transceivers (transmitters-receivers), such as citizens band (CB) radios, or turn ON personal communication devices, such as mobile phones, while the wheelchair is turned ON.
2. Be aware of nearby transmitters, such as radio or TV stations, and try to avoid coming close to them.
3. If unintended movement or brake release occurs, turn the wheelchair OFF as soon as it is safe to do so.
4. Be aware that adding accessories or components or modifying the wheelchair may make it more susceptible to EMI.

NOTE! There is no easy way to evaluate the overall immunity of the wheelchair.

Report all incidents of unintended movement or braking to your dealer and note whether there are sources of EMI nearby.

WARNING: The original manufacturer and the importer of the wheelchair is not responsible for damage or injury incurred due to improper and unsafe use of our wheelchair.



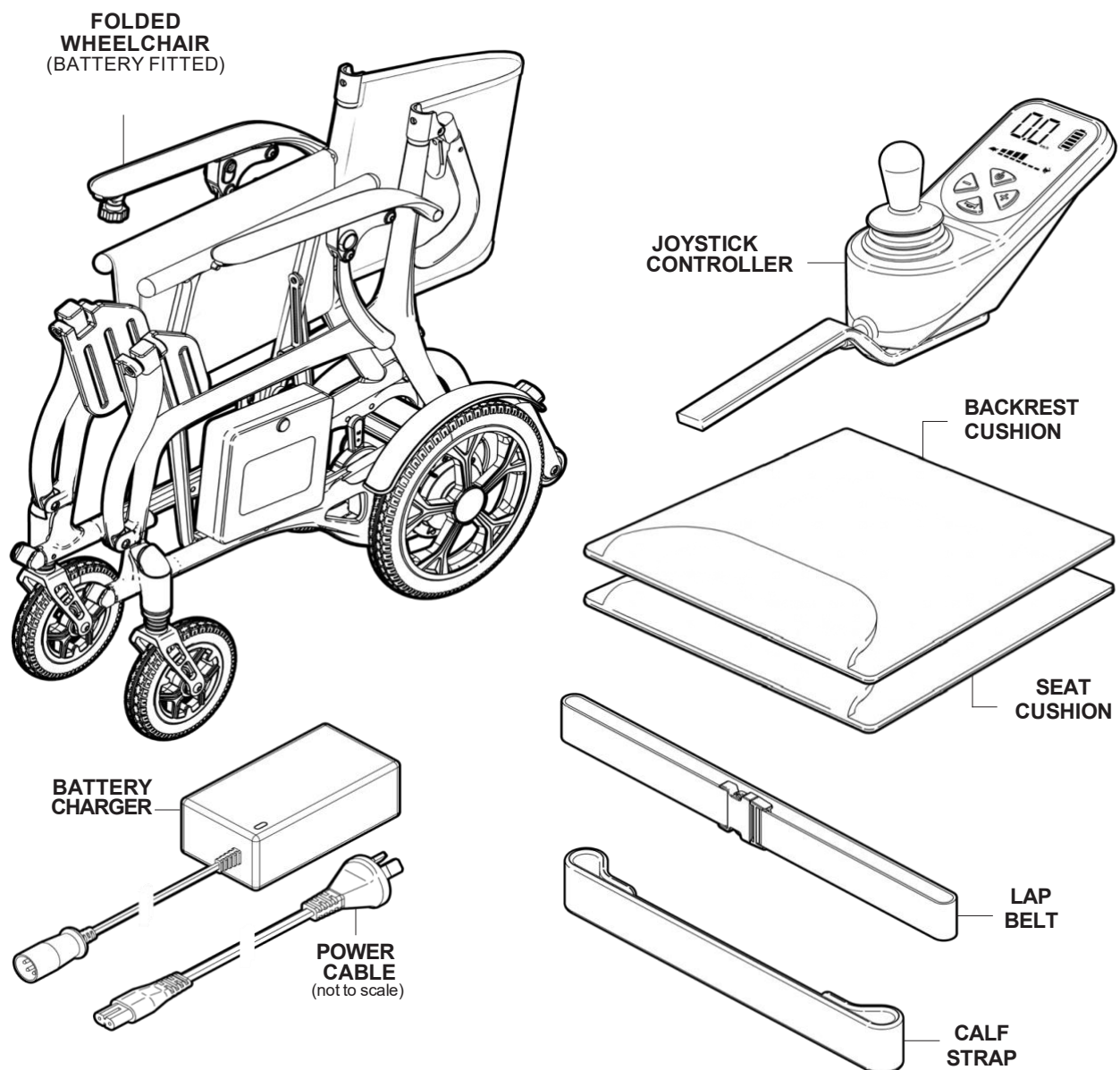
IMPORTANT NOTE

If you are ever unsure about any aspect of the Modo Breeze wheelchair, please do not use and contact your dealer for support.

ABOUT THE DEVICE

Packaged Items

The packaged device contains the following items. Before assembling and using the device, be sure to check that there are no missing items or damaged parts on the device. If there are shipping damages or any item is missing, do not use the device and contact your dealer or customer support.



Please take care when unpacking the product and removing the protective packing materials.
If you see any damage or suspect a fault,
DO NOT USE THE PRODUCT and contact your dealer for support.

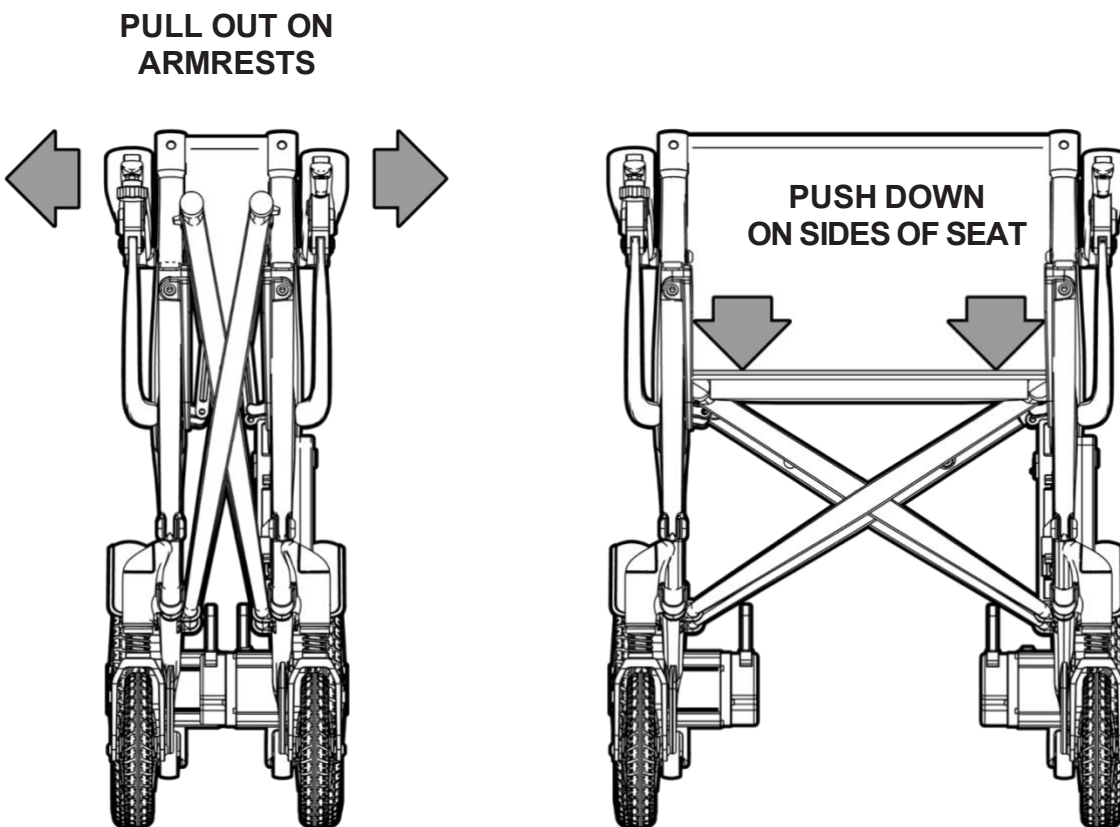
UNFOLDING DEVICE

To unfold the wheelchair:

1. Pull **OUT** on both armrests at the same time to open the wheelchair.
2. Push down on the outside edges of seat to ensure wheelchair has been fully unfolded.

IMPORTANT NOTE:

DO NOT place fingers underneath seat when unfolding the wheelchair!

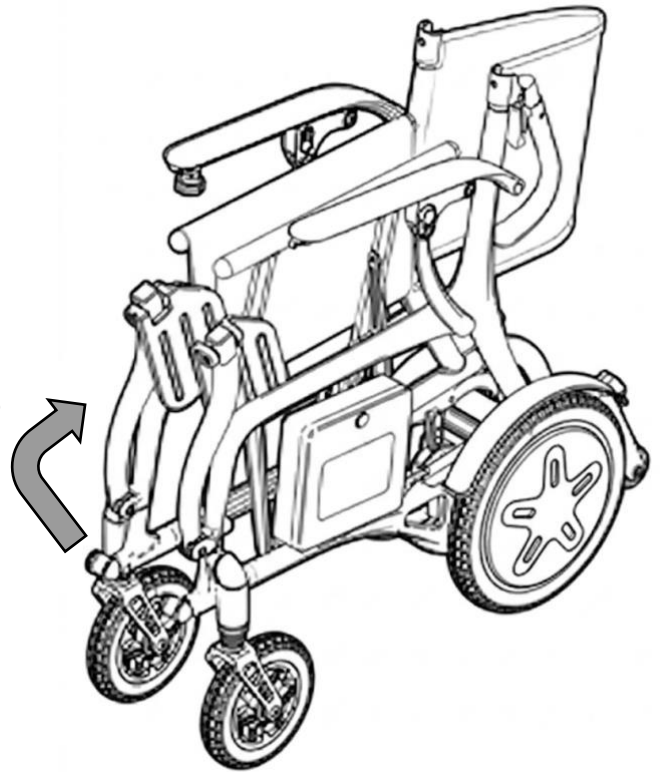


FOLDING DEVICE

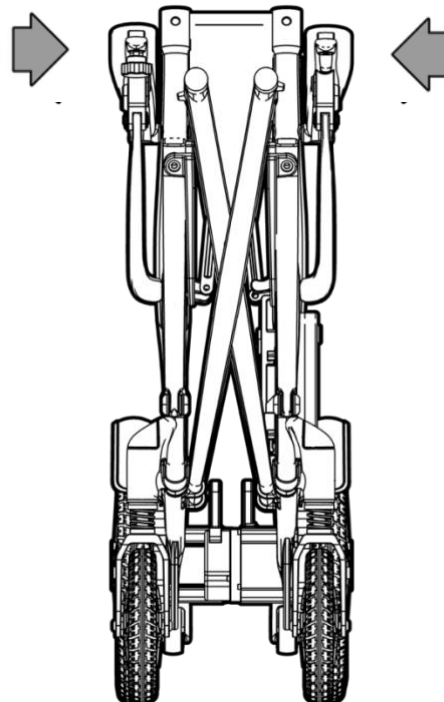
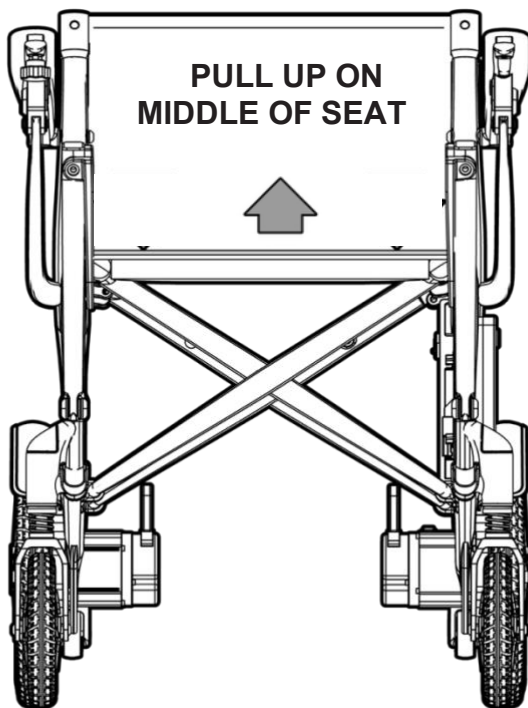
To fold the wheelchair:

1. Lift the footplates up.
2. Pull **UP** on the middle of the seat.
3. Push in on arm rests

LIFT FOOTPLATES
UP



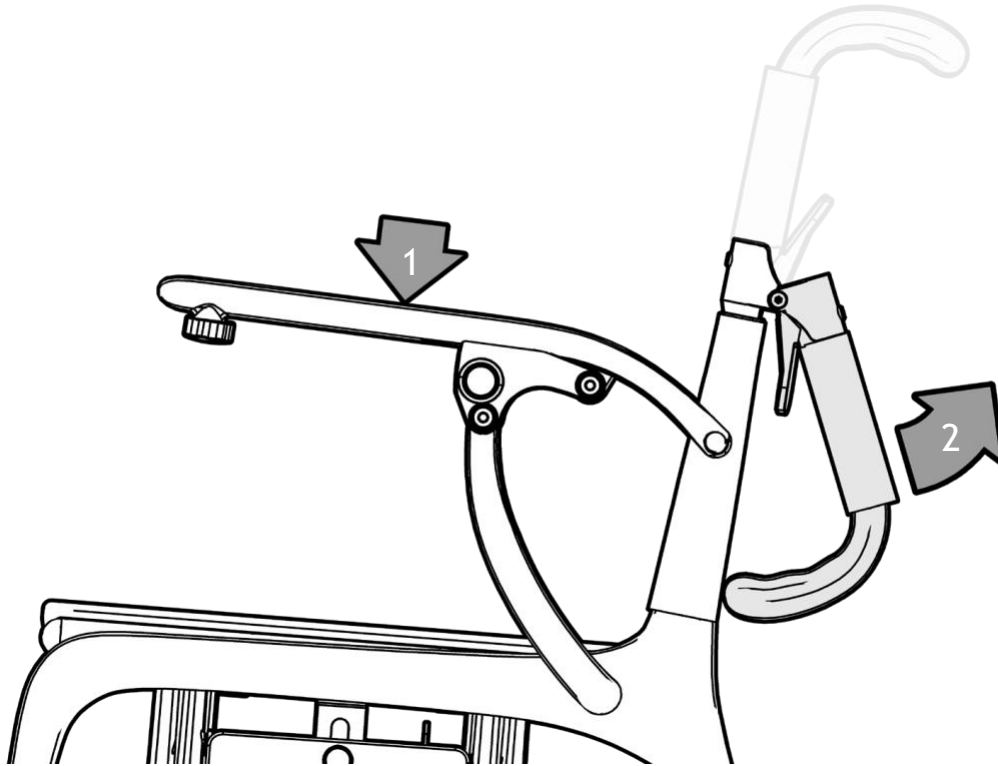
PUSH IN ON
ARMRESTS



UNFOLDING BACKREST HANDLES

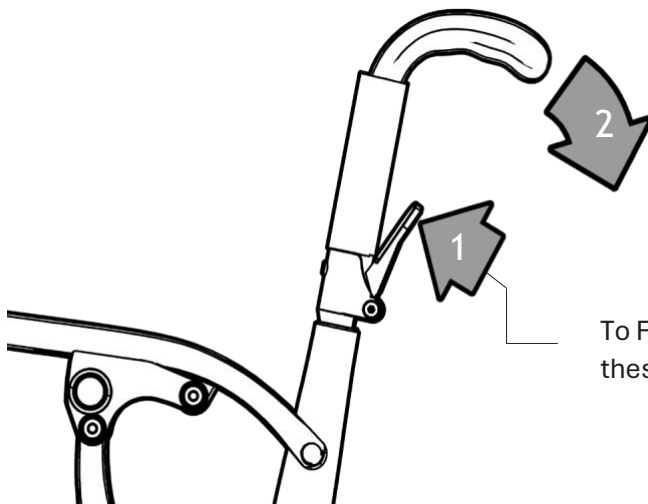
Please follow these instructions to unfold the backrest handles:

1. Place your hand on the armrest.
2. Rotate the backrest handle up until it locks into position.



IMPORTANT NOTE:

Check to ensure both backrest handles have locked into position prior to use. A loud 'CLICK' should be heard when they have fully locked into place.



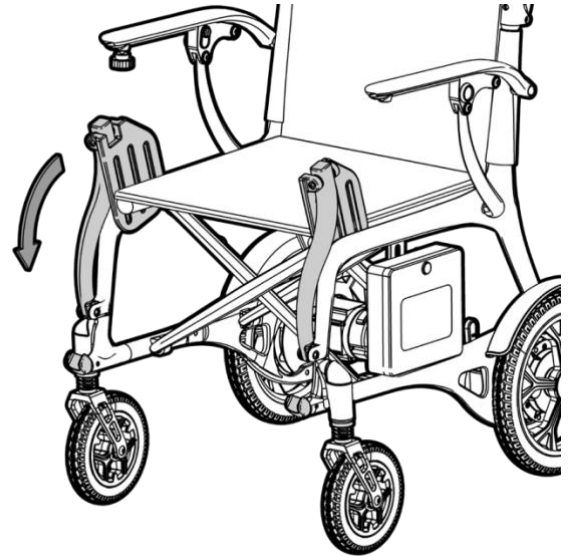
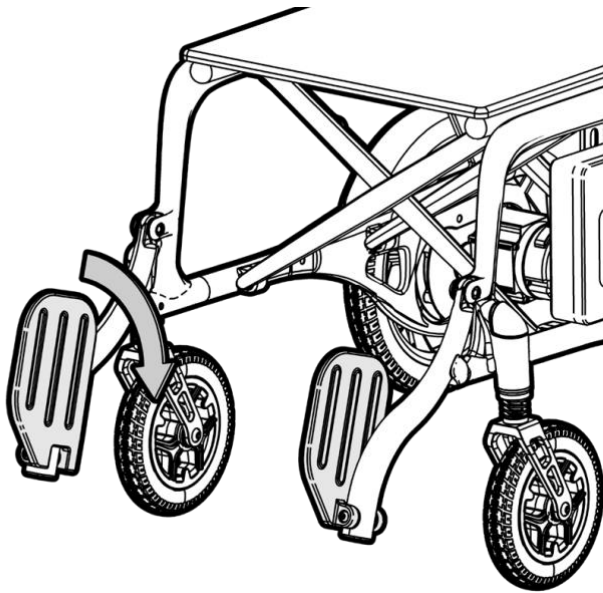
To FOLD down the backrest handles, please follow these steps:

1. Press the top of the lever in towards the frame.
2. Rotate handle down.

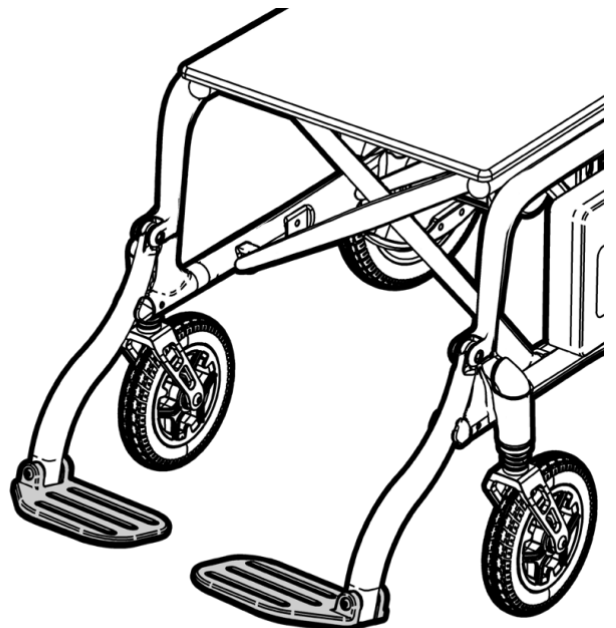
LOWERING LEG RESTS

Please follow these instructions to lower the leg rests and footplates on the wheel chair.

1. Rotate the leg rest down until they lock into the clip.



2. Lower both footplates down.



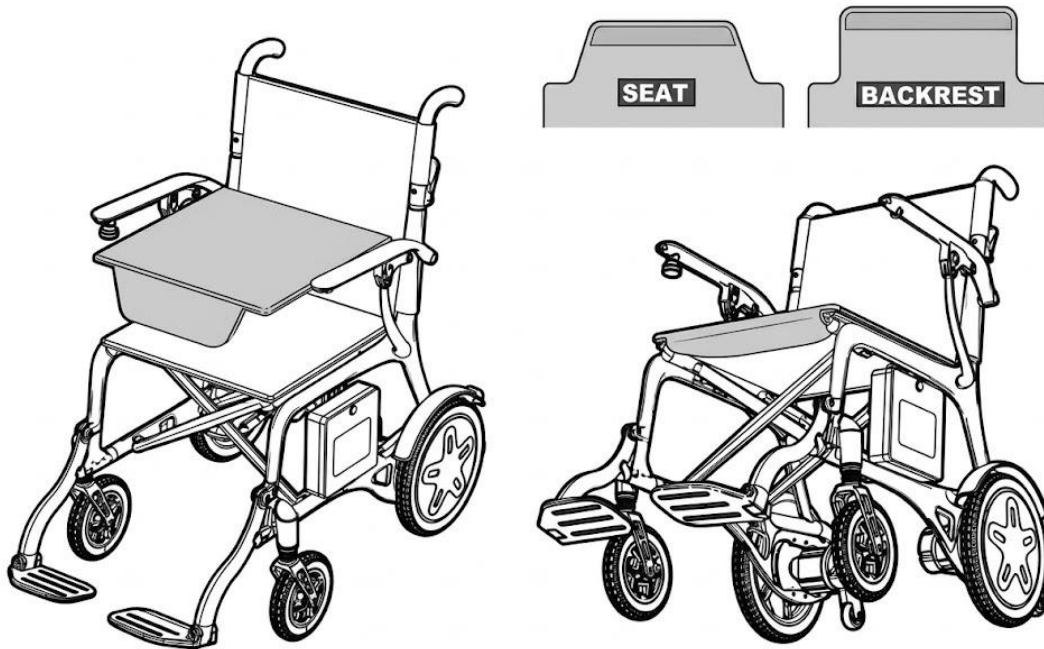
IMPORTANT NOTES:

1. Always have your feet on the footplates when the wheelchair is in motion.
2. Swing the footplates up when getting on and off the wheelchair.
3. Do not stand on the footplates, as it could cause the device to tip forward.

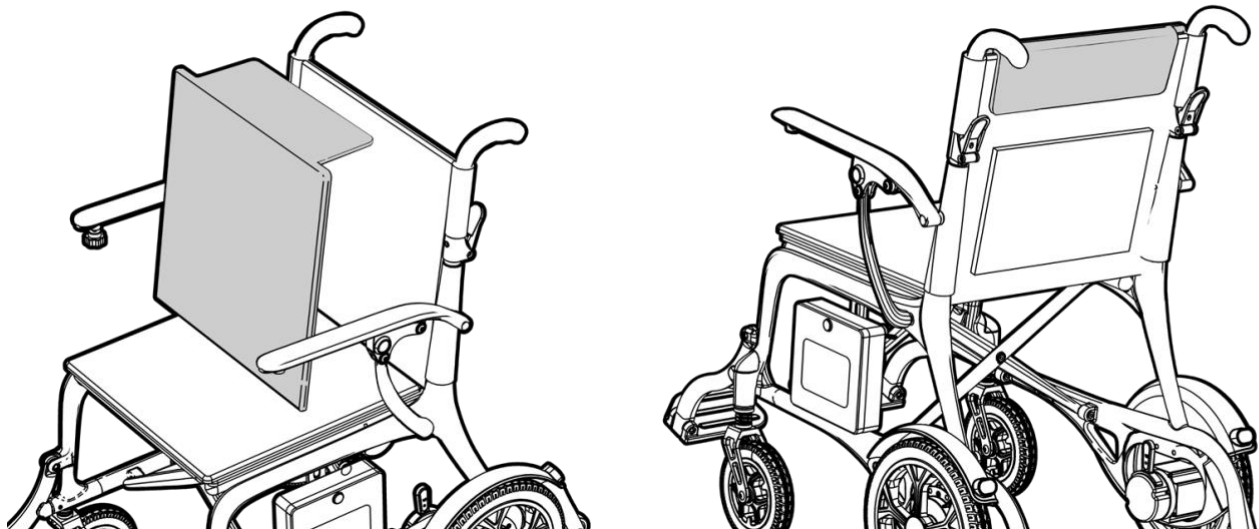
INSTALLING CUSHIONS

Please follow these instructions to fit the seat and backrest cushions onto the wheelchair.

1. Unfold the flaps and identify the correct cushion for the seat and backrest.
2. Place the seat cushion onto the wheelchair with the flap to the front and facing down. Fold the flap over and attach to the underside of the seat as shown.

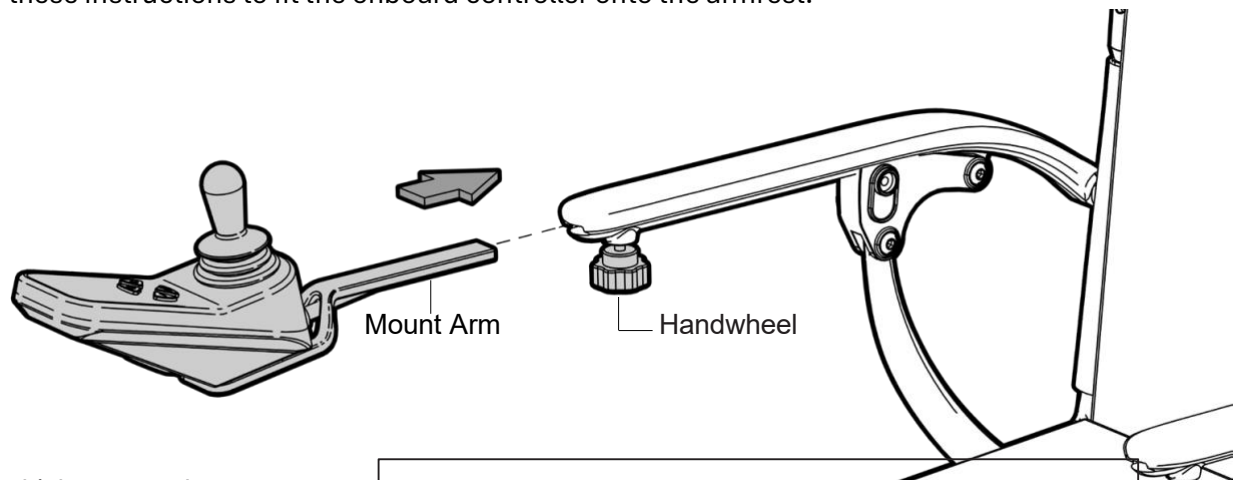


3. Place the backrest cushion onto the wheelchair with the flap to the top and facing backwards. Fold the flap over and attach to the rear of the backrest as shown.

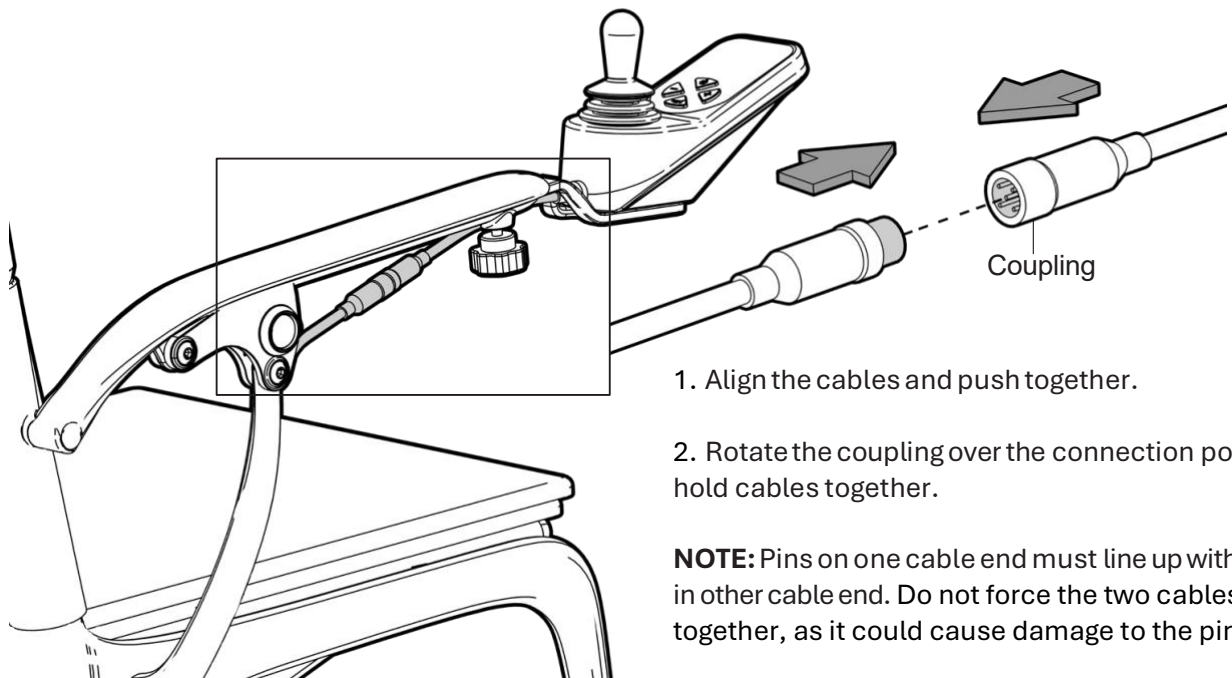
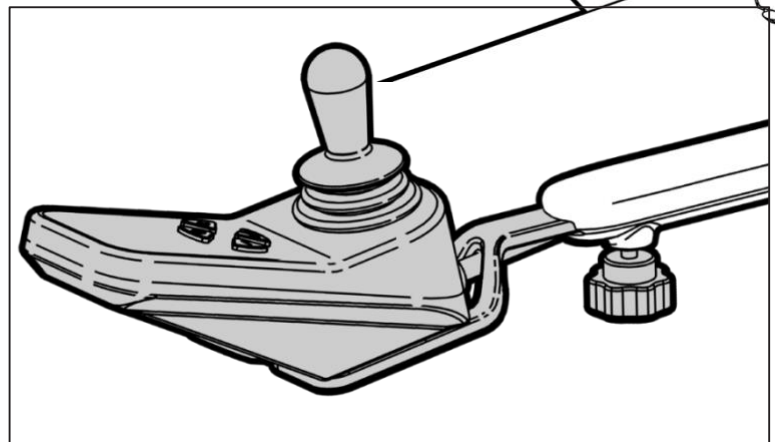


INSTALLING CONTROLLER

Please follow these instructions to fit the onboard controller onto the armrest.



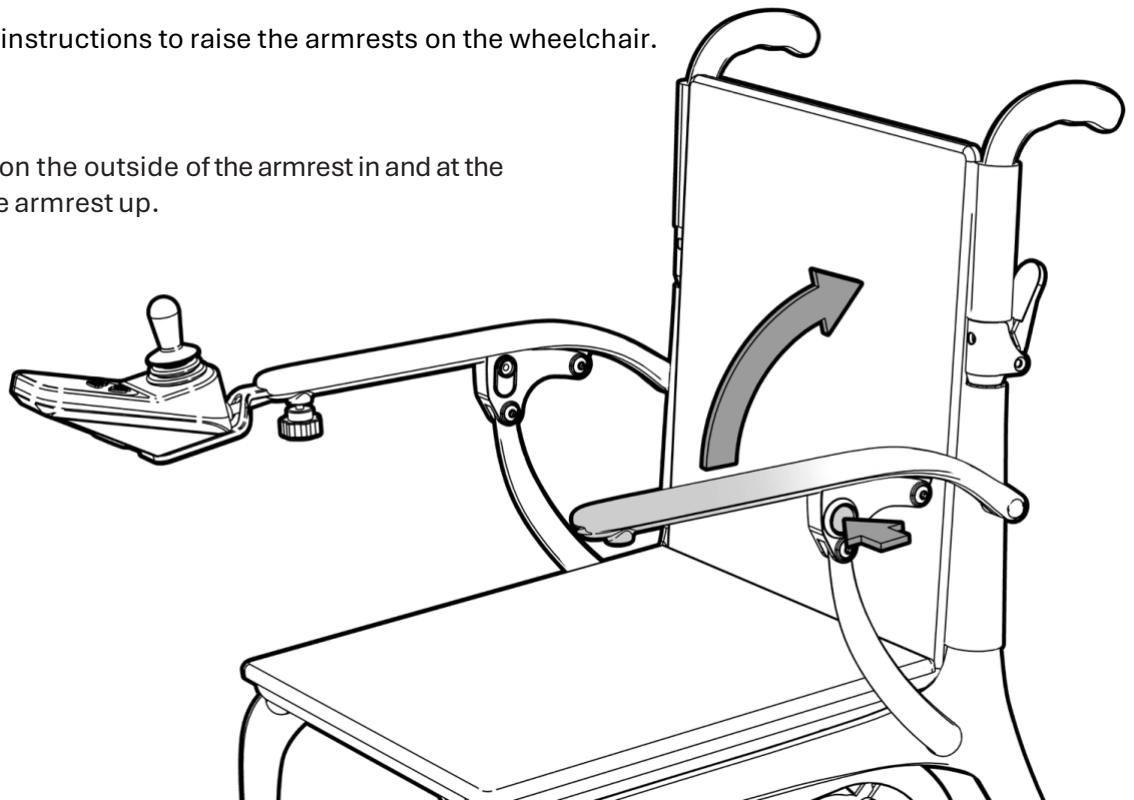
1. Determine which armrest the controller will be mounted to. Handwheel may need to be repositioned.
2. Slide the mount arm into the opening on the end of the armrest.
3. Sit on the wheelchair and determine a comfortable position for the controller.
4. Tighten handwheel to hold controller in position.



RAISING ARMRESTS

Please follow these instructions to raise the armrests on the wheelchair.

1. Press the button on the outside of the armrest in and at the same time rotate the armrest up.

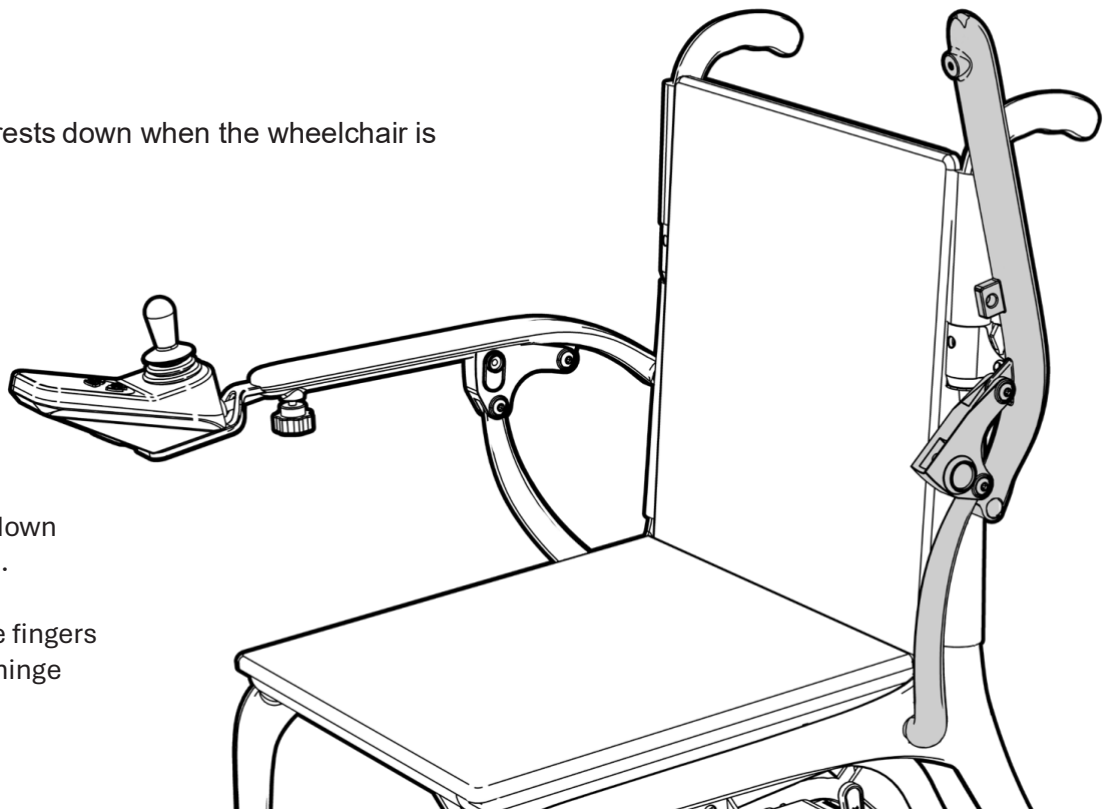


IMPORTANT NOTE:

Always keep the armrests down when the wheelchair is in use.

2. Rotate the armrest down until it locks into place.

Caution: Do not place fingers between the armrest hinge area.



BATTERY CHARGING

Please follow these instructions to charge the battery used on the wheelchair.

The Modo Breeze electric wheelchair is supplied with a rechargeable maintenance free Lithium-Ion battery which must be charged using the supplied battery charger.

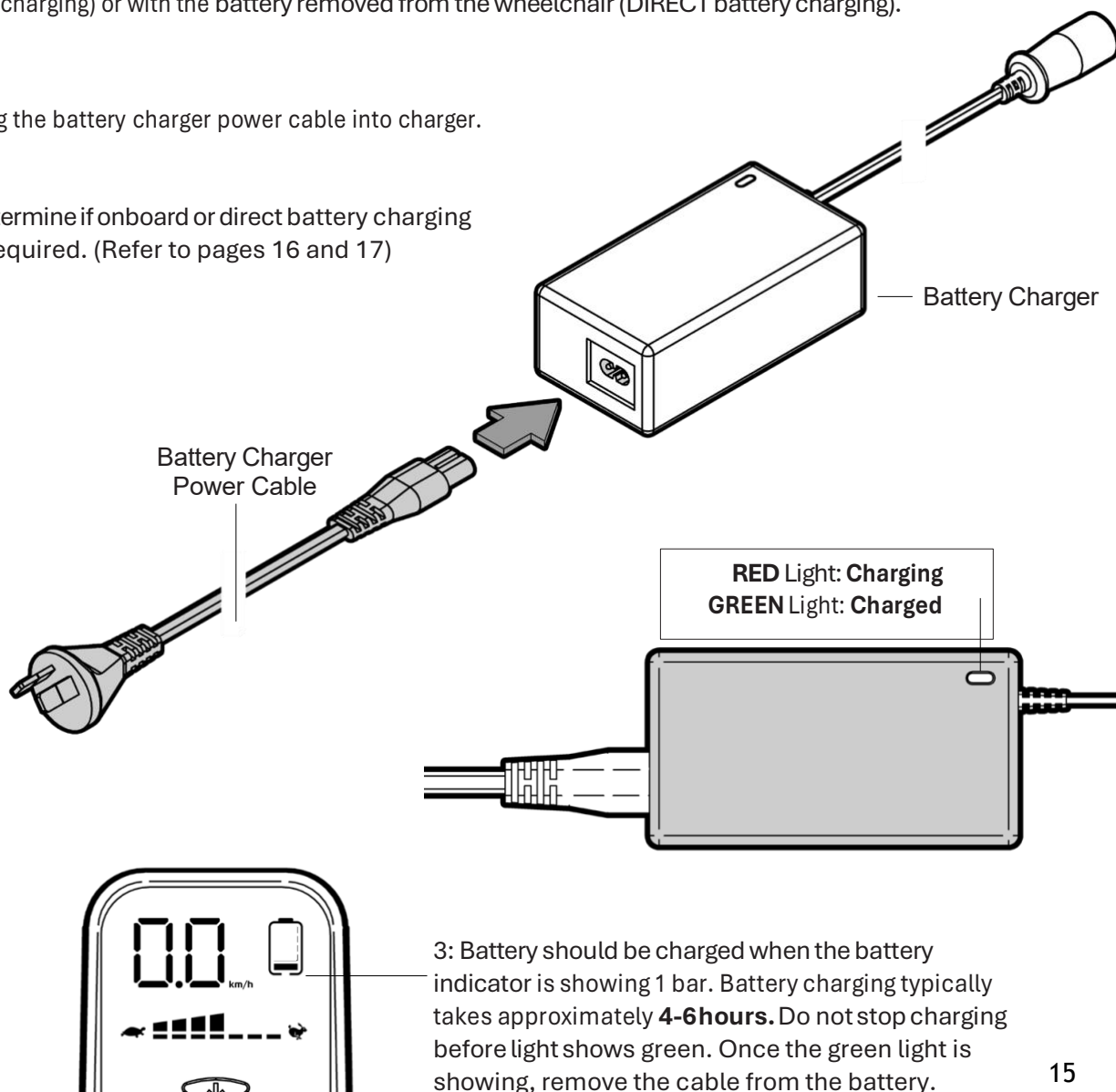


WARNING!
FAILURE TO USE CORRECT AND SPECIFIED CHARGER
MAY RESULT IN INJURY, DAMAGE OR CANCELLATION OF
WARRANTY AND STATUTORY PROTECTIONS.

Modo Breeze electric wheelchair can be charged with the battery still connected to the wheelchair (ONBOARD battery charging) or with the battery removed from the wheelchair (DIRECT battery charging).

1: Plug the battery charger power cable into charger.

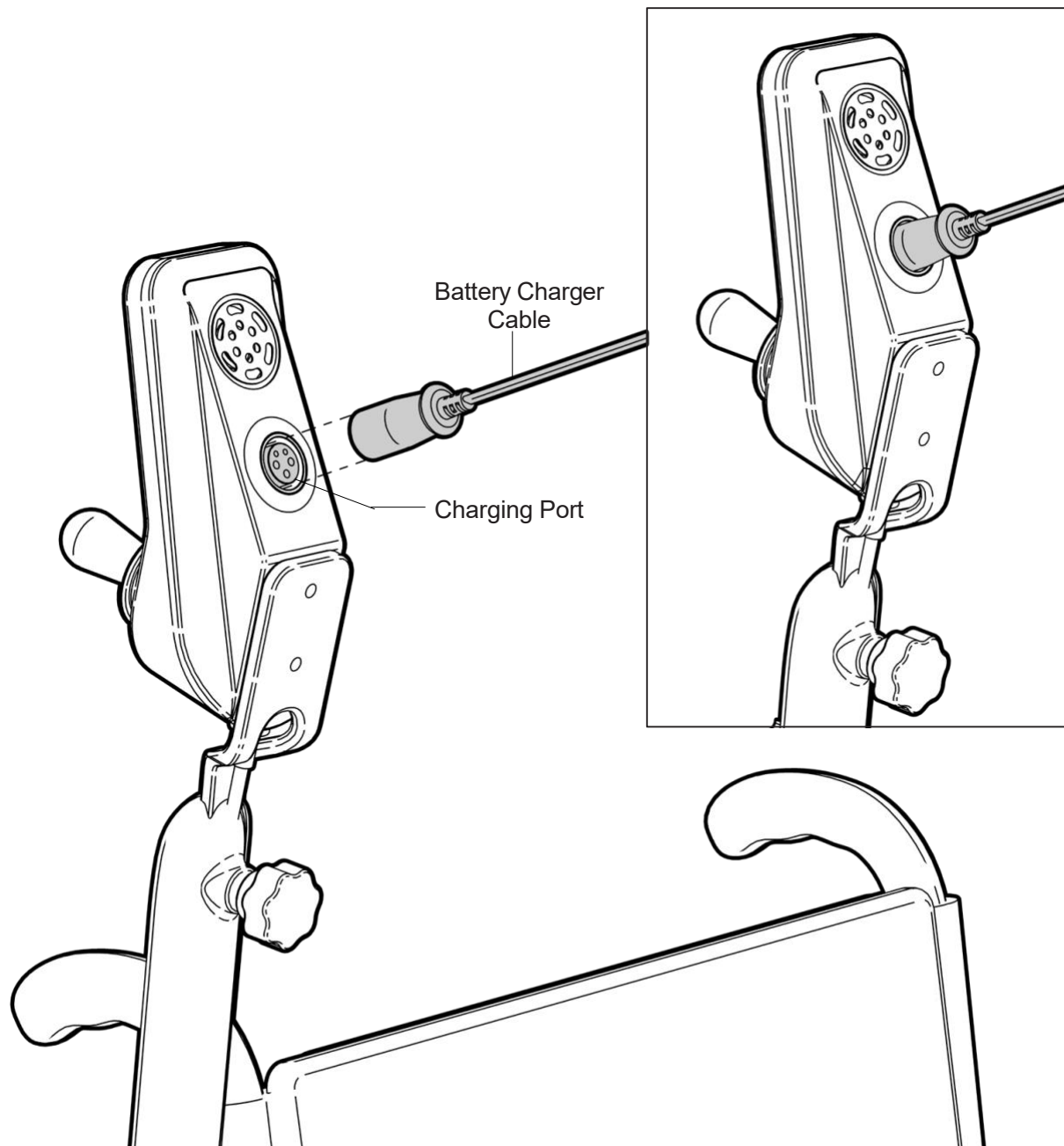
2: Determine if onboard or direct battery charging is required. (Refer to pages 16 and 17)



ONBOARD BATTERY CHARGING

Please follow these instructions to charge the battery whilst it is STILL CONNECTED TO THE WHEELCHAIR.

1. Raise the armrest with the controller attached.
2. Align the pins on the battery charge cable with the holes in the charging port and firmly push together.
3. Once the battery is fully charged, remove the battery cable prior to using wheelchair.

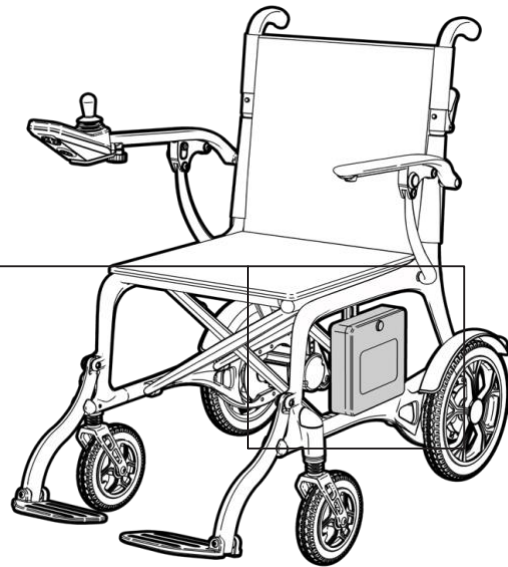
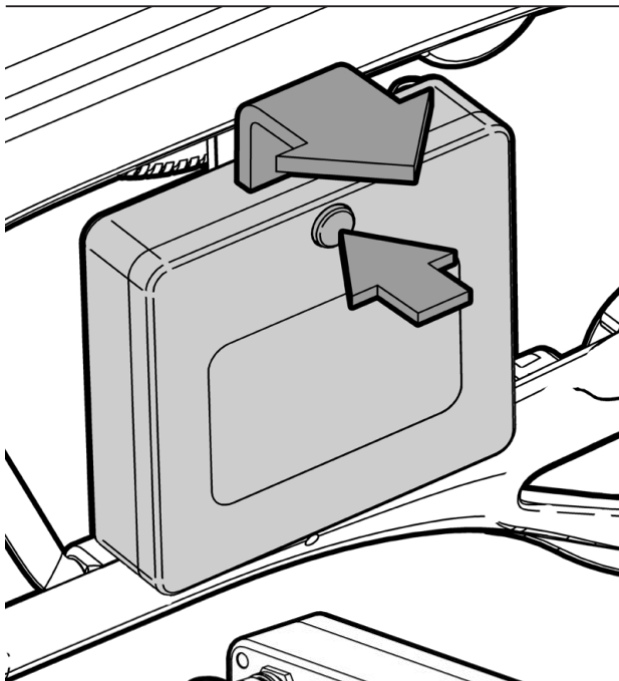


DIRECT BATTERY CHARGING

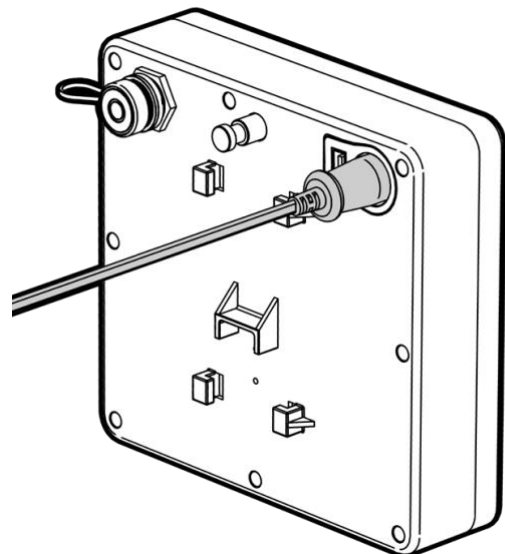
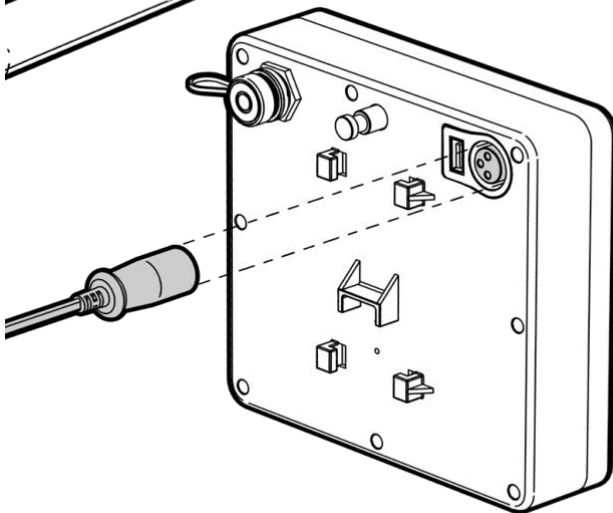
Please follow these instructions to remove the battery from the wheelchair and charge directly.

1. Remove the battery from the wheelchair:

- Press the button in.
- Lift the battery up and pull away from the wheelchair.



2. Align the pins on the battery charge cable with the holes in the port and firmly push together.



3. Once the battery is fully charged, remove the battery cable and reattach the battery to the wheelchair.

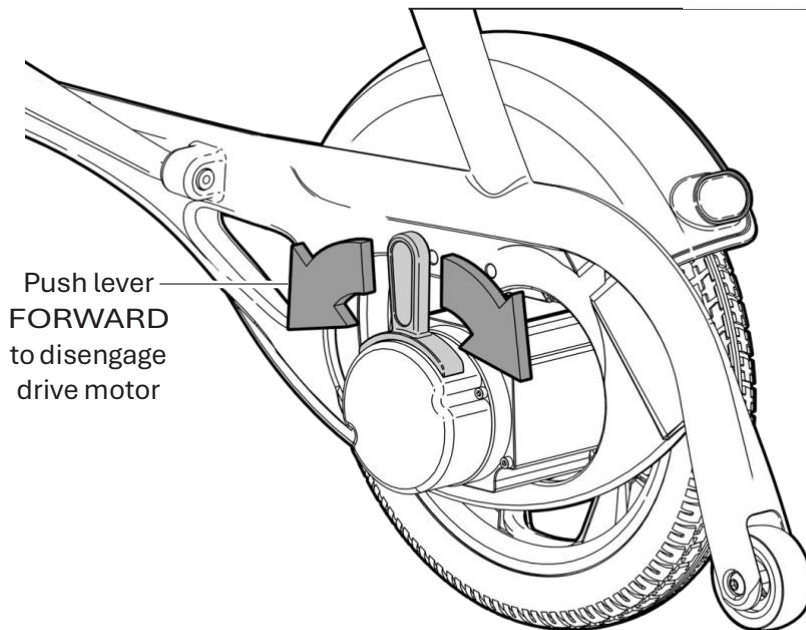
FREEWHEELING

Please follow these instructions to disengage the drive motors on the wheelchair so it can be manually pushed, if required.

IMPORTANT NOTE:

When the motors on the wheelchair are disengaged the braking system is also disengaged.

1. Turn the power off on the wheelchair.



2. Using your hand, push the red lever on the drive motor toward the front of the wheelchair to disengage the motor and allow the wheelchair to be pushed around.

Do this for BOTH drive motors.

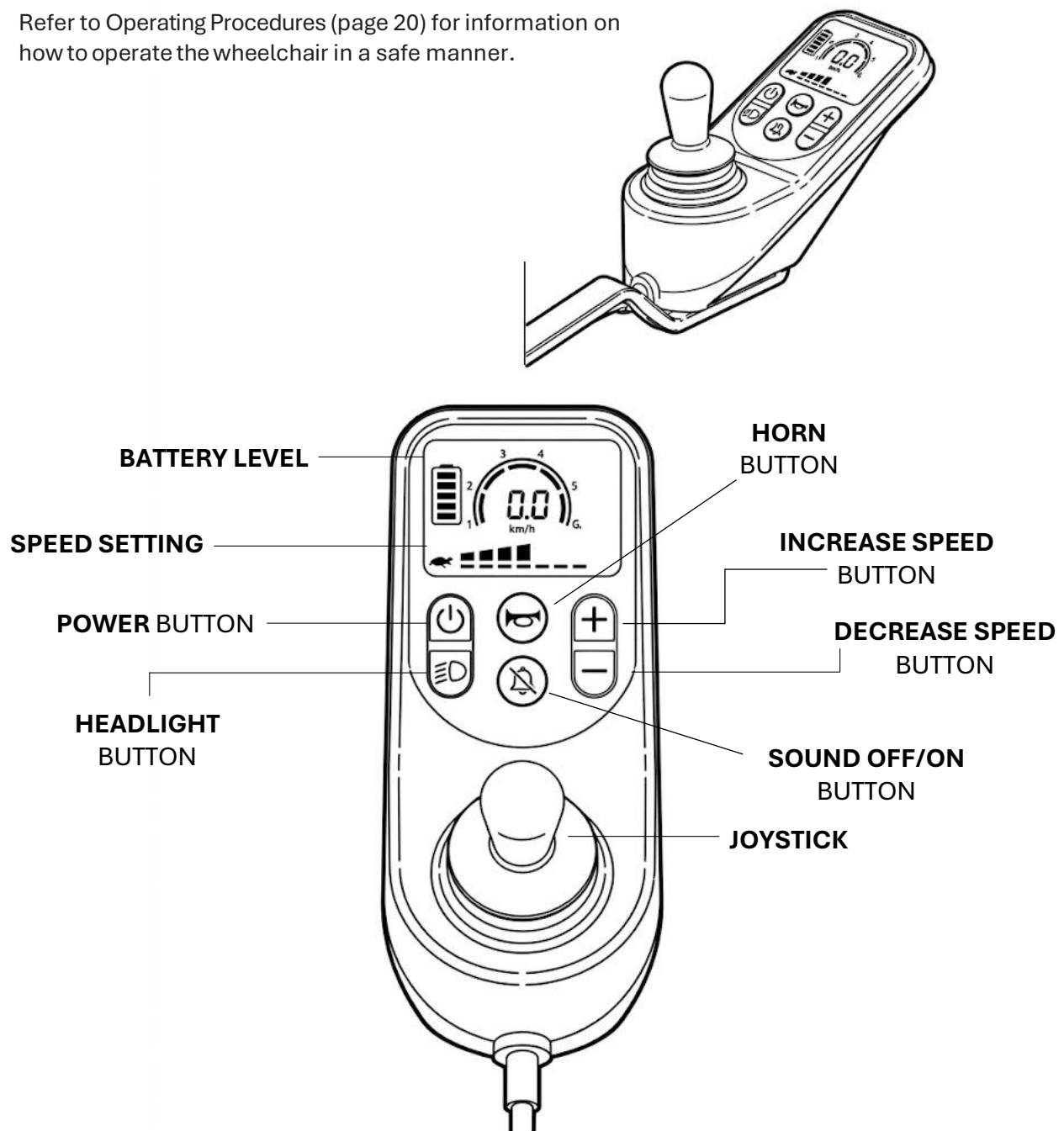
3. As soon as you have finished freewheeling the wheelchair, pull the red lever toward the back of the wheelchair to re-engage the motor. Do this for BOTH drive motors.

CONTROLLER FEATURES

The Modo Breeze electric wheelchair comes with an interactive onboard controller that can be used by the occupant to operate the wheelchair.

Ensure that you are familiar with the controller prior to operating the wheelchair.

Refer to Operating Procedures (page 20) for information on how to operate the wheelchair in a safe manner.



OPERATING PROCEDURES

Getting Started

- Select a level area with plenty of space.
- Check the remaining battery charge before operating the wheelchair to ensure you have sufficient power for your journey.

Getting on or out of the wheelchair

- Before getting off the wheelchair, ensure that the power has been turned off to prevent any accidental movement.
- Flip up the footplates for access.
- Never stand on the footplates as this will cause the wheelchair to fall forward.
- Do not sit on or apply an excessive load to the controller.

Wheelchair Movement

- Press the power button on the controller.
- Press the decrease speed button to 1 (Tortoise) to allow slow movement.
- Slowly move the joystick in the direction you want to move the wheelchair.
- The farther you move the joystick from center, the faster the wheelchair will accelerate.
- Return the joystick to the center position and the electromagnetic brake will automatically be applied, bringing the wheelchair to a gradual stop.

Steering

- Steering the wheelchair with the joystick is light and easy.
- Allow for enough clearance when turning so that the wheelchair and rear wheels clear any obstacle you are passing.
- IMPORTANT NOTE: Always slow down prior to and during turning.

Inclines

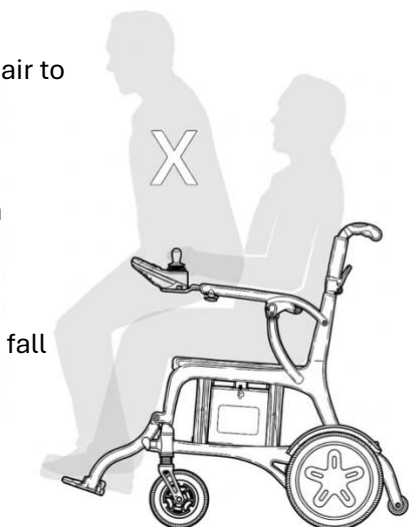
- Maximum climbing angle: 12°
- When approaching an incline, do so directly and not at an angle. Whenever possible, avoid making turns on an incline.
- When descending an incline, keep the speed settings to slow for a controlled descent.

Reversing

- Before reversing, ensure that the area behind you is free from any hazards or obstructions.
- Adjust your speed setting to a low setting before you reverse.

Terrain

- Only use the wheelchair on hard surfaces. Do not go offroad or on grass.



TROUBLESHOOTING

If the Modo Breeze electric wheelchair fails to operate, please check the following:

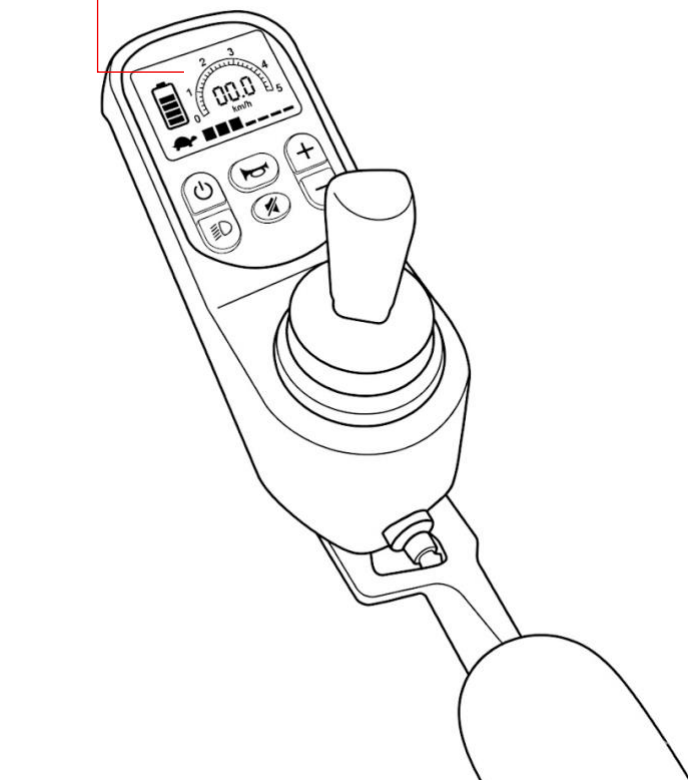
- Wheelchair is switched on.
- Battery has been properly connected to device.
- All plugs and cable connections are firmly fitted.
- Battery level shows some charge.
- Drive motors have been engaged (not freewheeling).

If these troubleshooting tips do not fix the issue with the wheelchair, please log any displayed error code and contact your dealer or customer support.

Do not attempt to repair the wheelchair unless you are a certified technician and have been trained to service the Modo Breeze Wheelchair.

Unauthorized repairs and use of non-genuine parts will void your warranty and may seriously compromise the user's safety.

**Error code will
be displayed
here**



TROUBLESHOOTING CODES

Display code	Cause of failure	Solution
C1	CAN communication failure	Check connection cable to the lower control is plugged in properly.
C2	Joystick failure	Release the joystick and let it return to its natural position, then shut down and restart.
C4+Turtle	Left brake not engaged	1) Check whether the left motor handle is turned to the electric state, check if the wiring harness is not damaged, and the connector is tightly plugged in. 2) If the problem persists, swap the left and right motors. If the 'C4+Rabbit pattern' appears, it means the left motor brake is abnormal: if it's still 'C4+Turtle pattern', there is a problem with the controller.
C4 +Rabbit	Right brake not engaged	1) Check whether the right motor handle is turned to the electric state, check if the wiring harness is not damaged, and whether the connector is tightly plugged in. 2) If the problem persists, swap the left and right motors. If a 'C4+Turtle pattern' appears, it means the right motor brake is abnormal. If it is still 'C4+Rabbit pattern', there is a problem with the controller.
C5	Overload	Turn off the power and restart, ensure the motor is not blocked by foreign objects.
C6	Power supply startup failure	Power off and restart.
C7	Over voltage	Turn off the power and disconnect the battery power cord, then plug in again. If the fault still appears, replace the controller or battery.
C8	Under voltage	Battery is low, please charge it. If battery is fully charged, and there's still an under-voltage alarm, there is a problem with the controller.
L1/R1	Overcurrent	If left (L1) or right (R1) motor overcurrent error occurs, turn off the power and place the wheelchair in freewheel mode (see p. 18). Try to push the wheelchair manually. If it is hard to push, disconnect the motor from the controller and try again. If it is still hard to push, the motor may be faulty. If it moves easily, the motor is likely fine and the issue may be with the controller.

INSPECTION & MAINTENANCE

INSPECTION

It is recommended that you have the device inspected approximately every 6 months by your dealer to look for signs of damage or wear, prior and during use. Important areas to inspect: **Tires, Frame, Backrest, Controller, and Battery**. Check to ensure that all parts work and the wheelchair can be controlled as required and safely.



IMPORTANT NOTE

If you are ever unsure about any aspect of the Modo Breeze wheelchair, please do not use and contact your dealer for support.

MAINTENANCE

Perform the following to keep the device clean and operating properly.

- Inspect and tighten any loose wheel bolts, seat and arm tightening bolts, and other nuts and bolts on a regular basis.
- Check the battery on a regular basis. For extended battery life, it is highly recommended that the battery be fully charged after each use. If the battery is weak, severely discharged or old, the unit may experience charging problems, reduced speed, or loss of range.
- Clean the wheelchair on a regular basis.

Note: Take extreme care when cleaning any electrical component of the wheelchair as water or fluid of any kind can cause severe damage.

- Remove the battery from the wheelchair prior to cleaning.
- With a damp towel, wipe away dirt and debris on frame and wheels.
- Only use a soft damp cloth and a non-abrasive cleaning solution or mild detergent.
- Abrasive cleaners, solvents, or abrasive cleaning pads could damage the wheelchair and should not be used.

If you have any questions about the inspection, maintenance, or servicing requirements of the Modo Breeze electric wheelchair, please contact your dealer or customer support.

DISPOSAL

When disposing of the device, its parts, and the battery, be sure to follow the local disposal guidelines. Recycle parts when possible.

Always remove the battery from the wheelchair and follow these guidelines:

- DO NOT CRUSH THE BATTERY
- DO NOT HEAT OR INCINERATE THE BATTERY
- DO NOT SHORT CIRCUIT THE BATTERY
- DO NOT DISMANTLE THE BATTERY
- DO NOT IMMERSE THE BATTERY IN ANY LIQUID
- DISPOSE OF BATTERY APPROPRIATELY

If you have any questions about the disposal of the Modo Breeze electric wheelchair, please contact your dealer or customer support.

WARRANTY

The Modo Breeze electric wheelchair is covered by a limited warranty against defects in materials and workmanship from the date of original purchase from an authorized seller, when used under normal conditions, and in accordance with this manual.

Warranty Period:

- Frame: 5 years
- Seat and back cushion: 2 years
- Electrical and mechanical components, batteries, and tires: 1 year

This warranty excludes normal wear and tear, such as wear to tires, brakes, and covers, as well as damage resulting from misuse, accidents, unauthorized modifications or repairs, improper use, or the use of non-approved parts.

For warranty service, contact your authorized dealer or WHILL.

For complete warranty terms and conditions, visit whill.inc/us/warranty-policy

NOTE: Warranty is non-transferable and applies only to products purchased from authorized sellers in the United States and Canada.

Warranty Registration

Register your device to activate your warranty and ensure faster support when you need it.

USA: whill.inc/us
Canada: whill.inc/ca



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REF: MB-1000-1-B-2026-0715

Serial Number: