# INSTRUCTIONS FOR USE

## POWER WHEELCHAIR W4026 MINI

DRVK0L

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Read and follow all instructions, warnings and notes in this manual before attempting to operate your power wheelchair for the first time. If any part of the text is not clear or if you need any further information, please, contact your dealer.

The safe use of the product depends on the careful observance of the warnings, comments and recommendations contained in the operating manual. It also depends on good judgment by the user and/or common sense, as well as the supplier, caregiver and/or healthcare professional. We are not responsible for injuries and/or damage resulting from failure to follow the warnings, cautions and recommendations contained in the operating manual. We are also not responsible for injuries and/or damages resulting from failure to exercise good judgment and/or common sense.

The following symbols are used in this manual to identify warnings and comments. It is important for the user to read and fully understand them.

**WARNING!** Failure to follow the warnings in this manual may result in personal injury.

**ATTENTION!** Failure to follow the warnings in this manual may result in damage to the wheelchair.

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# Ⅰ. INTRODUCTION

Congratulations on purchasing your new electric wheelchair. The power wheelchair you have purchased combines state-of-the-art components with safety, comfort and styling in mind guaranteeing maximum comfort of use. We are sure that the design features and trouble-free operation will improve the comfort of everyday life and guarantee full satisfaction.

User safety is of the utmost importance to us. Before using the wheelchair for the first time, read all of the following instructions in this manual. These instructions are for your benefit. Understanding the instructions is essential for the safe use of your new wheelchair.

We are not responsible for damage to property or personal injury resulting from improper use of the wheelchair and from non-compliance with the instructions and recommendations by any person and/or user, contained in this manual or other recommendations or recommendations in any other literature related to wheelchairs issued by our company or attached to the wheelchair.

# Ⅱ. SAFETY

GENERAL:

**WARNING!** Do not use the wheelchair for the first time without fully reading and understanding this Instructions for use.

**Indications:** An electrically powered wheelchair is a quality of life device designed to improve mobility.

**Contraindications:** Contraindications for sitting position.

We provide a wide range of products that ensure the best fit to the individual needs of the wheelchair user. It should be remembered that the final decision on the selection and purchase of a specific type of wheelchair is the responsibility of the user of the product, who is able to make such a decision, and the health care professional (e.g. doctor, physiotherapist).

The content of this manual is based on the expectation that a medical device expert has correctly fitted the wheelchair to the user and assisted medical personnel and/or the authorized supplier with an instructional process for using the product.

There are certain situations, including some medical conditions, where the user of a wheelchair must practice operating the wheelchair in the presence of a trained operator. A trained assistant can be a family member or a professional caregiver trained specifically to assist the wheelchair user with various daily activities. Once a user starts using the wheelchair in their daily activities, they are likely to encounter situations where they will need some practice, which will take time to adjust to the wheelchair's requirements.

## MODIFICATIONS

The wheelchair has been designed and assembled to ensure maximum mobility and usability. The authorized supplier offers a wide range of accessories to further adapt the wheelchair to the individual needs and/or preferences. However, under no circumstances should you modify, add, remove or disable any functions, parts or functions of the wheelchair.

**WARNING!** Do not modify the wheelchair in any way that is not authorized by the manufacturer. Unauthorized modifications may result in personal injury and/or damage to the wheelchair.

## REMOVABLE PARTS

**WARNING!** Do not try to lift or carry the wheelchair by any removable parts. This may result in personal injury or product damage.

## INITIAL SAFETY CHECK

You need to know the nature of the wheelchair and its capabilities. It is recommended to check the safety before each use to make sure that the wheelchair runs smoothly and safely. For details on how to perform the necessary checks, see Chapter Xl. "Care and Maintenance"

Before using the product, please do the following:

- Check all electrical connections, make sure that they are tight and not corroded.
- Check the wiring. Make sure it is properly secured.
- Check the brakes.
- Check the state of charge of the batteries.

## TIRE CHECK

If your wheelchair is equipped with pneumatic wheels, make sure or check the air pressure at least once a week. Correct air pressure will extend the life of the wheels and contribute to the smooth running of the wheelchair

**WARNING!** Do not over-inflate or under-inflate the wheels. Low pressure can cause you to lose control, and tires can burst if over-inflated.

**WARNING!** Inflate the module wheels. Measure the air pressure in the wheels with a pressure gauge. Inflating the wheels from unregulated sources can over-inflate the wheels, resulting in a rupture of the tire and/or injury.

# Ⅱ. SAFETY

## WEIGHT LIMITATIONS

The wheelchair is designed for a maximum weight of 300-1b/130 kg. Please refer to the specification table for this limit.

**WARNING!** Exceeding the weight limit will void the warranty and may result in personal injury and damage to the scooter. We cannot be held liable for injuries and / or material damage resulting from failure to comply with the weight limits.

**WARNING! Do not transport passengers in a wheelchair. Carrying passengers in the wheelchair may result in personal injury and/or property damage.**

## ADDITIONAL INFORMATION

More and more buildings have ramps with specific degrees of inclination that ensure easy and safe access. Some ramps have torsional switches (turns 180 degrees) that require good turns on the wheelchair. When climbing a slope, try to keep your wheelchair moving. If the user needs to stop, it should be re-propelled gently and then carefully accelerated. When going downhill, set the speed control knob to the slowest setting and only go forward. If the wheelchair starts going down the hill faster than you expected or wanted, let it come to a complete stop by releasing the throttle control lever. Then push the lever forward slightly to ensure a safe, controlled descent.

**WARNING！** Do not travel up or down a potentially unsafe hill (ie, areas with snow, ice, clipped grass, or wet leaves).

**WARNING**！ When driving uphill, do not use serpentine and/or create an angle with an inclination. Following these rules will reduce the chance of you tipping over.

**WARNING！ To avoid injury, do not drive the wheelchair in the wrong direction when driving up and/or down slopes.**

The maximum safe approach angle for the wheelchair is 8º.

See Figures 1. and 2.


**Figure 1**

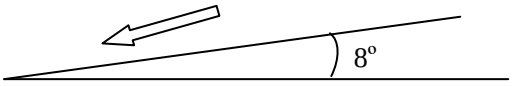



**Figure 2**

**WARNING! Any attempt to climb on a slope greater than 8° may result in injury or damage to the wheelchair**

Ramps for disabled people in public places are not regulated by the government in all countries, and therefore they do not always have the same standard of inclination angle.

Other natural or artificial slopes not typically designed for a wheelchair, Figure 1 shows the stability of the wheelchair and its ability to climb under various loads and under controlled test conditions.

These tests were carried out with the highest position of the wheelchair seat and the seatback adjusted rearward to its rearmost position. Use this information as a guideline. The wheelchair's ability to climb is influenced by the user's weight, speed, the angle of the ramp and the wheelchair's positioning.

## TURNING

Excessively high cornering speeds can create the possibility of tipping. Factors that affect the ability to roll include, but are not limited to, cornering speed, steering angle (how abruptly you take a turn), uneven road surfaces, sloped road surfaces, driving from low-grip area to high-grip area (e.g. moving from grass to paved area - especially at high speed when cornering) and sudden changes of direction, high cornering speeds are not recommended. If you feel you may tip over in a bend, reduce the speed and the angle of the turn (i.e. reduce the sharpness of the bend) to prevent the wheelchair from tipping over.

# Ⅱ. SAFETY

**WARNING!** Reduce speed when making a sharp turn. When using the wheelchair at higher speeds, do not make any sharp turns. This greatly reduces the possibility of tripping and falling. To avoid personal injury or property damage, always use common sense when cornering.

## OUTDOOR SURFACES

Our wheelchair is designed to provide optimal stability under normal driving conditions - dry, flat concrete surfaces and asphalt. However, other types of pavement may be encountered. Therefore, the wheelchair is designed to drive very well on solid soil, grass and gravel. It is safe to use the wheelchair on lawns or parks.

- Reduce speed when traveling over rough terrain and/or soft surfaces.
- Avoid tall grass that could become entangled in the undercarriage.
- Avoid loose gravel and obstructions.
- If you are unsure of the surface, avoid it.

## DROGI

**WARNING!** Do not use the electric wheelchair on roads, both in the city and in built-up areas. Pay attention to the amount of pedestrian traffic in your surroundings. Wait until the road is clear of traffic, then move with extreme caution.

## PRECAUTIONS DURING ADVERSE WEATHER CONDITIONS

**WARNING!** We recommend that you do not use the electric wheelchair on icy, slippery or salty surfaces (e.g. sidewalks or roads). Such use may result in an accident, injury or adversely affect the performance and safety of the wheelchair.

**WARNING!** Do not use or store the wheelchair in places where it may be exposed to adverse weather conditions such as rain, snow, fog and temperatures below 0°C (such as storage on an external vehicle elevator). Attempting to use the wheelchair in these conditions may damage the electrical part and potentially cause a loss of control.

## FREEWHEEL MODE

The wheelchair is equipped with a manual freewheel lever which allows the wheelchair to be pushed when raised. For more information on putting your wheelchair into freewheel mode and disengaging it, see the wheelchair operations graph located under the seat.

**WARNING!** When the wheelchair is in idle mode, the brake system is disengaged. Only stop the engines on a flat surface. Make sure the key is removed from the ignition switch. Stand behind the wheelchair to activate or deactivate freewheel. Never sit in the wheelchair when engaging/disengaging freewheel. When you are finished pushing the wheelchair, always put it in drive mode to apply the brakes.

## STAIRS AND ESCALATORS

Wheelchair are not designed to travel up and down the stairs and escalators. Always use an elevator.

**WARNING!** Electric wheelchairs should not be used to climb stairs or escalators. This could injure user or others and/or damage the wheelchair.

# Ⅱ. SAFETY

## ELEVATORS

Modern lifts have a door edge protection mechanism that opens the door when pressed.

- If you are in the elevator entrance when the door begins to close, press down on the rubber edge of the door or allow the rubber edge of the door to contact the wheelchair and the door will open again.
- Be careful that wallets (purses), packages or trolley accessories do not get stuck in the elevator door.

## LIFTS/HOISTS

When traveling with a wheelchair, it may be necessary to use a lift/hoist to aid transportation. It is recommended that you carefully read the instructions, specifications and safety information provided by the elevator/hoist manufacturer before using the product.

**WARNING!** Never sit on the wheelchair when using any elevator / hoist to transport it. The wheelchair is not designed for this type of use, therefore we cannot be held responsible for any injuries or damages resulting therefrom.

## BATTERY

In addition to following the warnings below, follow all other information on handling the battery.

**WARNING!** Wheelchair batteries are heavy (see specification table). Lifting weight beyond your ability may result in injury. If necessary, ask someone whose physical condition allows them to lift the wheelchair battery.

**WARNING!** Always protect the batteries from freezing and never charge a frozen battery. Charging a frozen battery may cause injury and/or damage the battery.

**WARNING!** The RED (+) cables must be connected to the positive (+) clamps of the battery. The BLACK (-) cables must be connected to the negative (-) battery clamps. Improperly connecting the battery cables may result in personal injury and/or damage to the wheelchair. Cables should be replaced immediately if they are damaged.

## BATTERY DISPOSAL AND RECYCLING

If the battery is damaged or cracked, place it in a plastic bag immediately and contact your distributor for further disposal instructions. The distributor is obliged to provide the necessary information on the recommended recycling of the battery.

## CAR TRANSPORT

There are currently no approved standards for securing a passenger to a moving module while it is in it.

**WARNING!** Do not sit in the wheelchair while it is moving. Personal injury and/or material damage may occur.

**WARNING!** Always make sure that the wheelchair and its battery are properly secured during transport. Failure to do so may result in personal injury and/or damage to the wheelchair.

## PREVENTION OF UNWANTED MOVEMENT

**WARNING!** If the user is expected to remain stationary for a long time, turn off the power. This will prevent unexpected movements caused by the throttle control lever. Failure to follow the instructions may result in personal injury.

# Ⅱ. SAFETY

## GETTING IN AND OUT OF THE WHEELCHAIR

Getting in and out of your wheelchair requires a good sense of balance. Getting in and out of the wheelchair requires the assistance of personal specialists. Avoid injury when entering and exiting the wheelchair, observe the following safety instructions.

## WYŁĄCZANIE WÓZKA

- make sure that the wheelchair is in freewheel mode.
- The armrests can be raised to get in and out of the wheelchair.
- reduce the distance between the user and the wheelchair.

**WARNING!** Sit as far back as possible in the wheelchair seat to prevent your wheelchair from tipping over and causing injury.

**WARNING!** Avoid using the armrests for weight-bearing purposes. Such use may cause the wheelchair to tip over and cause personal injury.

**WARNING! Avoid placing all of your weight on the floorboard. Such use may cause the wheelchair to tip over and cause injury.**

## REACHING AND BENDING

Avoid reaching or bending down while riding the wheelchair. If it is necessary to reach or lean out while sitting in the wheelchair, it is important to keep the center of gravity stable and to prevent the wheelchair from tipping over. We recommend that the user of the wheelchair determine its personal limitations and practice bending and reaching in the presence of a qualified healthcare professional.

**WARNING!** Do not bend, lean over, or reach for objects. If the user wishes to lift them off the floor, do so by reaching between the knees. Such movements can alter the wheelchair's center of gravity and weight distribution. This could cause the wheelchair to tilt/tip over, which could cause an injury.

## REMOVABLE PARTS

Do not push any parts of the wheelchair. This can damage the device and thus injure you.

## PRESCRIPTION DRUGS/PHYSICAL RESTRICTIONS

The wheelchair user must care and use common sense when using the wheelchair. This includes being aware of safety concerns when taking prescription or over-the-counter medications, or with physical limitations.

**WARNING!** Consult a physician if taking any prescribed or over-the-counter medications and if the user has certain physical limitations. Certain medications and restrictions can impair your ability to use the wheelchair safely.

## ALCOHOL

The wheelchair user must care and use common sense when handling the product. This includes safety awareness while under the influence of alcohol.

**WARNING!** Do not use the wheelchair while the user is under the influence of alcohol as this may impair the ability to drive safely.

# Ⅲ. EMI/RFI

## EMI/RFI Warnings

Laboratory studies by the Food and Drug Administration (FDA) have shown that radio waves can cause the unintended movement of electric vehicles. Radio waves are a form of electromagnetic energy (EM). When electromagnetic energy adversely affects the operation of an electrical device, this adverse effect is called electromagnetic interference (EMI) or radio frequency interference (RFI).

## EMI/RFI Frequently Asked Questions (FAQs)

The following FAQs summarize what you need to know about EMI/RFI. Use this information to minimize the risk that electromagnetic interference / radio interference will adversely affect the mobile vehicle.

### Where are radio waves coming from?

Radio waves are emitted from cellphones antennas, mobile radiotelephones (such as walkie-talkies and CB radios), radio stations, television stations, amateur radio (HAM) transmitters, wireless computer links, microwave sources, and paging transmitters. Radio waves are a form of electromagnetic energy (EM). The EM is more intense closer to the transmit antennas that are the source of the emission. The greater the transmission power, the greater the concern for electric mobility vehicle users.

### If EMI/RFI is affecting my wheelchair, what kind of movements can I expect?

It is hard to predict. The answer depends on many factors:

- Radio wave strength.
- Design of a specific mobile vehicle.
- The position of the electric wheelchair (whether it is on flat ground or on a slope).
- The electric wheelchair is in motion.

Any electric wheelchair, affected by EMI/RFI, may have erratic movement. The wheelchair may stop suddenly or move in an uncontrolled manner. It is also possible that the EMI/RFI will release the wheelchair brakes. Some intense electromagnetic/radio interference can even damage components of the wheelchair's control system.

### Is there any way to determine if radio waves are causing the vehicle to move unintentionally?

Unfortunately, EMI/RFI can be difficult to recognize because signals from radio sources are invisible and may be intermittent. However, the FDA recommends reporting to the manufacturer all instances of unintentional movement or unintentional release of the wheelchair brake and, if possible, determining whether there was a source of radio waves in the vicinity of the incident.
One of the precautions that can be taken against unintentional movement of the wheelchair is to make sure that you or another person are not causing the movement.

- When getting on or off the electric wheelchair, switch off the electric wheelchair by removing the ignition key.
- Never leave the ignition key in an unattended wheelchair.
- By following these steps, you greatly reduce the risk of you or anyone else accidentally hitting the throttle control levers, causing unintended movement of the truck.

### Has anyone been injured by the irregular, unintentional movement of the electric wheelchair?

The FDA reports injuries caused by the uncontrolled movement of electric trucks. However, it is not clear how many of these injuries were actually caused by EMI/RFI.

# Ⅲ. EMI/RFI

## Are all electric vehicles susceptible to EMI / RFI interference?

Each brand and model of an electric vehicle differs in terms of EMI / RFI immunity. Each mobile vehicle has a specific level of immunity to EMI/RFI interference. This resistance is measured in volts per meter (V/m). Higher resistance levels provide better protection against EMI/RFI. In other words, an electric vehicle with a high resistance level is less susceptible to being influenced by a strong radio source than an electric vehicle with a low resistance level.

## What is the FDA doing regarding this problem?

The FDA approached electric vehicle manufacturers and asked them to test new truck models to ensure that they provide the appropriate degree of EMI/RFI immunity. The FDA has stated that all newly manufactured electric vehicle models must have a resistance level of at least 20 V/m. This level of immunity provides a reasonable degree of protection against common sources of electromagnetic/radio interference.

The FDA also requested or recommended that:

- Manufacturers of electric vehicles have clearly labeled new products with their level of resistance or stated that it is unknown.
- Labels or informations provided with new electric vehicles must explain what the resistance level means and alert users to the possibility of EMI / RFI and how to avoid it.
- Electric wheelchair manufacturers undertook an educational program informing wheelchair users and their carers about EMI/ RFI-related problems and about the actions they can take to minimize EMI/RFI risk.
- While there is no exact way to tell if your electric wheelchair is completely safe, the 20V/m resistance level is generally achievable and useful. This product has been tested and passed the test with an immunity level of 20 V/m.

## What can I do to check if my electric wheelchair is affected by EMI / RFI?

If the wheelchair has been in use for a while and you have not experienced any unintended movement, it is unlikely that you will have a problem in the future. However, it is always possible that EMI/RFI problems may arise if you are close to the radio wave source. Therefore, it is very important to pay attention to this possibility. The moving truck reaches or exceeds a resistance level of at least 20 V/m.

## What can I do to reduce the risk of EMI / RFI effects on my electric wheelchair?

Here are some precautions you can take:

- Do not turn on or use personal portable communication devices such as two-way radios (CB) and cell phones with a wheelchair turned on.
- Be aware of nearby radio waves, such as radio or TV stations, and handheld or portable two-way radio. Try not to operate your wheelchair too close to these transmitters. For example, if the user is in an electric wheelchair with a resistance level of at least 20 V/m, they should stay at least 1 m away from a handheld transceiver and at least 3 m away from a portable transceiver.
- Be aware that adding accessories and/or components or modifying the electric wheelchair in any way may change its EMI/RFI immunity level and may make it more susceptible to interference from radio wave sources.

# IV. YOUR POWER WHEELCHAIR

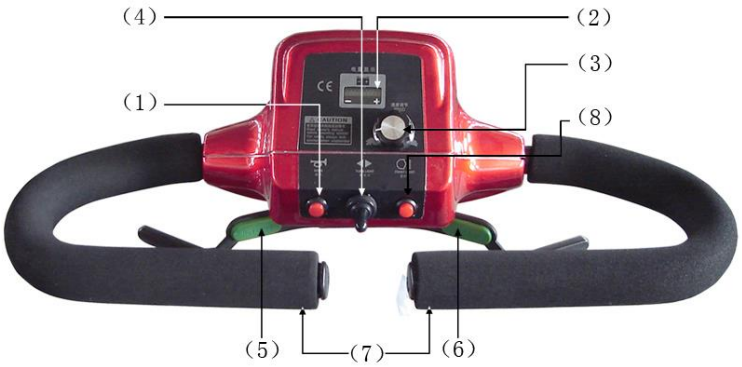
Your wheelchair is an electric wheelchair for both indoor and outdoor use, designed to increase user mobility.

## CONTROL PANEL

The control panel on the front part houses all the control elements (lights, buttons) needed to operate the wheelchair.

See the figure on the right.

(1) Horn
(2) Battery status display
(3) Speed regulation
(4) Cornering switch
(5) Reverse (pull)
(6) Forward (pull)
(7) Handrails
(8) Light switch




**WARNING!** Do not expose the control panel to moisture. If exposed to moisture, DC will not attempt to start the wheelchair until it is completely dry.

### Battery gauge

After fully inserting the key and turning it clockwise to start the wheelchair, the meter indicates the battery voltage strength. See Chapter V, "Batteries and Charging" for more information on charging the battery.

### Speed regulation

This knob allows you to re-select and limit the maximum speed.

1. The turtle graphic shows the slowest speed.
2. Grafika zająca przedstawia najszybsze ustawienie prędkości.

### Ignition switch

This switch turns the wheelchair on and off.

**WARNING! If the key is removed from the ignition while the wheelchair is in motion, the electronic brakes will apply and the truck will stop suddenly!**

### Position lamp switch

This switch allows you to control the turning lights when you turn left, flip the switch left when you turn right, flip the switch right.

We recommend that you turn on the lights whenever there is not the optimal lighting necessary for safe use.

### Horn

These buttons activate a warning signal:

1. The key must be fully inserted into the ignition switch for the horn to sound.
2. Do not hesitate to use the warning signal if you believe that use will or may prevent accident or injury.

### Electric controller module

This module is located behind the batteries and in the front left corner of the rear. The electronic controller module receives electrical signals from the control panel and sends power to the engine, brakes and lights.

# V. YOUR POWER WHEELCHAIR

## Engine/gearbox system

The engine/gearbox system is a gear train and a differential. It is a one piece, direct drive, fully sealed system designed to ensure quiet operation with maximum power and long life.

## Manual freewheel lever

Whenever you want to push your wheelchair short distances, it must be put in freewheel mode.

- The manual freewheel lever is located at the end of the engine / transmission system on the right rear of the wheelchair.
- Pull the freewheel lever to disengage the drive system and braking system.
- The user will then be able to push his wheelchair.
- Operate the manual freewheel lever to reactivate the drive system and braking system and take the wheelchair out of freewheel mode.

**WARNING!** When the wheelchair is in freewheel mode, the braking system is disengaged. Only switch off the drive motors on a flat surface. Make sure the key is removed from the ignition switch.

Stand behind the wheelchair to activate or deactivate the freewheel mode. To do this, never sit on the wheelchair.

After you have finished pushing the wheelchair, always put it in drive mode to apply the brakes.

## Anti-tip wheels

Anti-tip wheels are an integral and important safety feature that helps to prevent the wheelchair from tipping backwards on a slope. They are bolted to the frame in the rearmost part of the wheelchair.

**WARNING! Do not remove the anti-tip casters or modify the wheelchair in any way not authorized by the manufacturer.**

# Ⅴ. BATTERIES AND CHARGING

## BATTERIES AND CHARGING

**WARNING! Make sure the first charge takes more than 12 hours and the batteries should be empty before the first charge.**

1. Charging the battery.
2. Charge the wheelchair's batteries before using it for the first time.
3. Keep the batteries fully charged to keep the wheelchair running smoothly.
4. Use only the battery charger supplied with the cart.

## READING THE BATTERY CHARGE

The battery gauge on the control panel shows the approximate battery strength using a color code. Green means the batteries are fully charged, yellow means the batteries are depleted, and red means the batteries need to be charged immediately. For the best accuracy, the battery condition gauge should be checked while the wheelchair is running at full speed on a dry, level surface. You can also check the load with the ammeter located on the back of the wheelchair near the charger power cord socket. The charger power cable must be plugged into a standard wall outlet to obtain a reading.

## BATTERY CHARGING

Follow these simple steps to safely charge the battery:

1. Place the cart near a standard wall socket.
2. Remove the ignition key.
3. Make sure the manual freewheel lever is in the drive position (down).
4. Connect the charger power cord to the charger power cord socket on the cart.
5. Extend the power supply cable and connect it to the socket. It is recommended to charge the battery for 8-14 hours.
6. When the battery is fully charged, unplug the AC adapter from the wall outlet, and then disconnect it from the charger.

**WARNING! Never use an extension cord to connect the power adapter. Connect the power adapter directly to a properly wired standard outlet.**

## BATTERY REPLACEMENT

To change the battery in the wheelchair:

**WARNING! Battery poles, clamps, and related accessories contain lead and lead compounds. Wash hands after use.**

1. Turn the truck off and remove the key.
2. Remove the seat.
3. Gently lift the rear cover off the wheelchair to a height that allows the rear light wires to be disconnected.
4. Disconnect the strap securing the battery.
5. Disconnect the battery cables from the battery plug. See figure 12A.
6. Disconnect the battery cables from the battery clamps.
7. Remove the old battery.
8. Insert a new battery into the battery slot.
9. Connect the red battery lead to the positive (+) battery clamp.
10. Connect the black battery cable to the negative (-) battery clamp.
11. Reconnect the battery cable to the plug that fits the battery.
12. Reconnect the battery mounting strap.
13. Reconnect the rear light wires.
14. Reinstall the rear cushion and seat.

# Ⅴ. BATTERIES AND CHARGING

## BATTERY DISPOSAL AND RECYCLING

If the battery is damaged or cracked, place it in a plastic bag immediately and contact your distributor for further disposal instructions. The distributor is obliged to provide the necessary information on the recommended recycling of the battery.

## FREQUENTLY ASKED QUESTIONS (FAQ)

### How does the power supply work?

When the voltage of the battery is low, the power supply works harder to charge it, sending more current to the battery. When the voltage approaches the fully charged limit, the charger sends less current to the battery. When the batteries are fully charged, the current output from the power supply is close to 0 amps. Therefore, when the charger is plugged in, a charge is held in the battery but not overcharging it. It is not recommended to charge the batteries continuously for more than 24 hours.

**Can I use a different charger?**

For safe, more efficient and sustainable charging, only the original charger should be used.

**How often to charge the batteries?**

There are two main factors to consider when deciding how often to charge your batteries:

1. Daily use of the wheelchair throughout the day.
2. Infrequent or occasional use of the wheelchair.

With that in mind, you can determine how often and for how long to charge your batteries. The built-in battery charger has been designed so as not to overcharge the wheelchair's batteries. However, you may run into some problems if the batteries are not charged frequently and regularly. Following these five guidelines will ensure safe and reliable battery operation and charging.

- If the wheelchair is used daily, the batteries should be recharged as soon as the user ends the daily use of the wheelchair. Your stroller will be ready each morning for a full day of use. We recommend that you charge the batteries for 8-14 hours after daily use.
- If you use your wheelchair once a week or less, you should recharge the batteries at least once a week for 12 to 14 hours continuously.
- Keep batteries fully charged.
- Avoid fully discharging the battery.
- Do not charge the batteries for more than 24 hours continuously.

**Why do my new batteries feel weak?**

Cyclic batteries use a different chemical technology than automotive batteries, nickel cadmium batteries, or other common types of batteries. Cyclic batteries are specially designed to supply energy, discharge the charge, and then accept a relatively quick charge.

We also work with our battery manufacturer to provide batteries that best suit your truck's specific electrical needs. New batteries are delivered daily and are shipped fully charged to our customers. Extreme temperatures can occur during the transport of batteries, which may affect their initial performance. Heat reduces battery charging; cold slows down the available power and extends the charging time of the battery. It may take several days for the battery temperature to stabilize and adjust to the new room or ambient temperature. More importantly, it takes a few discharge cycles and then a full (re) charge to establish the critical chemical equilibrium that is essential for peak performance and long cycle battery life.

# Ⅴ. BATTERIES AND CHARGING

Follow the steps below to properly start using the new batteries for maximum performance and life.

1. Charge a completely new battery before first use. This initial charge cycle gives the batteries approximately 88% of their maximum performance level.
2. Operate the truck in known and safe areas. Initially, drive slowly and do not stay too far from your home or familiar surroundings until you are accustomed to the controls and the first time the batteries are charged properly.
3. Fully charge the batteries again. This charge should bring the batteries to about 90% of their maximum performance level
4. Restart the wheelchair.
5. Fully recharge the batteries.
6. After four or five charging cycles, the batteries are able to charge 100% to their peak performance level and last longer.

## How can I ensure maximum battery life?

Fully charged deep cycle batteries ensure reliable operation and extended battery life. Whenever possible, keep the batteries fully charged. Batteries that are fully discharged, rarely charged, or stored without a full charge can be permanently damaged and cause unreliable operation and a limited service life.

## What about public transport?

If you intend to use public transport with your wheelchair, you must first contact the transport service provider to determine their specific requirements. How to store the wheelchairand the batteries?

**BEFORE USING THE WHEELCHAIR**

- Are the batteries fully charged? See chapter V "Batteries and charging"
- Is the freewheel lever in the drive position (down)? Never leave the manual freewheel lever engaged, unless you are manually pushing the wheelchair.

# Ⅵ. SETUP

## GETTING ON A WHEELCHAIR

**WARNING!** Never attempt to climb on or off the wheelchair without first removing the ignition key. This will prevent the truck from moving if the control lever accidentally makes contact with the throttle.

1. Make sure the key is removed from the ignition switch.
2. Stand to the side of the wheelchair.
3. Press the seat lock lever and rotate the seat until it is facing you.
4. Make sure the seat is securely locked in position.
5. Sit comfortably and safely on the seat.
6. Push the seat lock lever forward and rotate the seat until it is facing forward.
7. Make sure the seat is securely locked in position.
8. Make sure feet are placed securely on the floorboard.

## INITIAL ADJUSTMENTS AND CHECKS

Are you sitting comfortably in the seat? See "Getting on a wheelchair" above.

- Is the seat at the correct height? See chapter VII. "Improving comfort".
- Is the seat securely locked? See the chapter VII "Improving Comfort".
- Is the steering column in a comfortable position and securely locked? See chapter. "Improving comfort".
- Is the key fully inserted into the ignition and turned clockwise to the "on" position? See chapter "Your electric wheelchair".
- Is the wheelchair's horn working properly?
- Is the proposed path free from people, animals and obstacles?
- Have you planned your route to avoid unfavorable terrain and to avoid as many slopes as possible?

## HANDLING A WHEELCHAIR

Keep both hands on the steering wheel and feet on the floor board while the wheelchair is operating. This driving position provides the greatest control of the vehicle.

- Turn the speed control knob to the desired speed.
- Press the appropriate throttle control lever with your thumb.
- Pull the handle to the left to turn the wheelchair to the left. Pull the handle to the right to turn the wheelchair to the right.
- Move the steering column to the middle position to drive straight.
- To stop, slowly release the throttle control handle. Electronic brakes are applied automatically when the truck comes to a halt.

**ATTENTION:** The reverse speed of the wheelchair is less than the forward speed set with the speed control knob.

## DESCENTING FROM THE WHEELCHAIR

1. Stop the wheelchair completely.
2. Remove the ignition key.
3. Push the seat lock lever forward and rotate the seat until the user faces the wheelchair.
4. Make sure the seat is securely locked.
5. Carefully and safely leave the seat and stand to the side of the wheelchair.
6. You can leave the seat sideways to make it easier for the user to get onto the wheelchair next time.

## TIMER FUNCTION

The wheelchair is equipped with an automatic energy saving function with an automatic switch-off function to preserve the battery life of the wheelchair. If you leave the key in the ignition and in the "on" position by mistake, but the wheelchair is not used for approximately 20 minutes, the wheelchair controller will turn off automatically. Although the controller is turned off, power will still be supplied to light the wheelchair.
If the timer function starts working, follow these steps to resume normal operation.

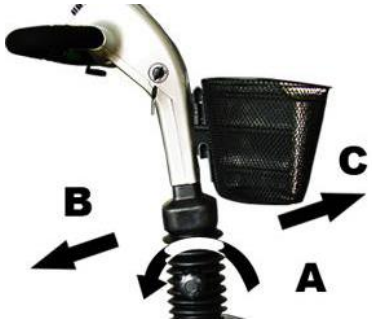
- Turn the key to the "off" position
- Turn the key back to the "on" position

# Ⅶ. IMPROVING COMFORT

**WARNING!** Remove ignition key before adjusting steering column or seat. Never adjust the tiller or seat while the scooter is in motion.

## STEERING COLUMN ANGLE ADJUSTMENT

The wheelchair's steering column is uniquely designed to allow it to be placed in a comfortable driving position. It can be set in many angular positions or folded and locked for transport.




### TO SET THE STEERING COLUMN ANGLE:

Turn the steering column adjustment lever counterclockwise until it is loose, then bring the steering column to a comfortable position and turn the adjustment lever clockwise until it is firmly tightened.

**WARNING:** The steering column can be set to the lowest position and locked for storage.

**To adjust the steering column for storage:**

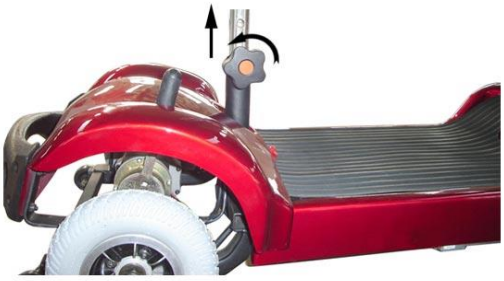
1. Turn the steering column adjustment lever counterclockwise until it comes loose.
2. Pull the steering column handle up to expose the steering column release buttons.
3. Grasp the handle of the steering column and carefully press down on both column release buttons, then slowly lower the column to the floor of the cart.
4. When the steering column is at its lowest point, turn the steering column adjustment lever clockwise until it is firmly tight to lock the steering column in place.

**Seat height adjustment:**

To reposition the seat to one of the different heights:

1. Remove the seat from the wheelchair. To unlock the seat, press and hold the seat lock lever at the front
2. Remove the rear cover.
3. Raise or lower the upper seatpost to the desired seat height.
4. Align the next retaining hole in the top seatpost with the hole in the bottom seatpost.
5. Reinstall hardware and tighten.
6. Replace rear cover and seat.

# Ⅶ. IMPROVING COMFORT



**WARNING!** Always press your back firmly against the seatback while adjusting the angle.

**WARNING!** Do not use the wheelchair with the backrest tilted down.

## ADJUSTMENT OF THE ARMREST WIDTH

The width of the wheelchair's armrest can be adjusted inwards or outwards. See the figure below:

1. Loosen the thumbscrews on the rear of the seat frame.
2. Move the armrests to the desired width.
3. Tighten the thumbscrews.

## ADJUSTMENT OF THE ARMREST

There is a knob under each armrest to adjust it. To adjust the angle of the armrest up or down while sitting in the wheelchair: Turn the armrest adjustment knob down to decrease the angle of the armrest or clockwise to increase the angle of the armrest. See the figure below

# Ⅷ. BASIC TROUBLESHOOTING

Every electromechanical device requires occasional troubleshooting. However, most problems that arise can usually be resolved with a little thought and common sense. Many of these problems occur because the batteries are not fully charged or because the batteries are drained of their ability to hold a charge any longer. What to do if neither of the systems is responding:

1. Make sure the key is fully inserted into the ignition switch.
2. Make sure the batteries are fully charged.
3. Make sure both battery cables are firmly connected.
4. Make sure the battery cables are securely connected to the battery terminal.
5. Make sure the wiring is properly connected.
6. Remove and reinsert the key.

## What to do if the wheelchair is not moving?

1. Your wheelchair may have been left in freewheel mode. When the freewheel lever is pulled up, the brakes are disengaged and all transmission power is cut off.
2. Press the freewheel lever to return the truck to normal operation.

## What to do if the circuit breaker switchs repeatedly?

- Charge the wheelchair's batteries more often.
- If the problem persists, have both batteries checked by the distributor.
- Or perform a battery load test yourself. Load gauges are available at most auto parts stores. Follow the instructions that come with the meter.

## What if the battery meter drops down and the engine crashes and has trouble starting when the throttle lever is pressed?

- Fully charge the wheelchair batteries.
- Have the distributor perform a load test.

If you experience any problems with your wheelchair that you are unable to deal with, please contact your distributor immediately for information, maintenance and service.

# IX. CARE AND MAINTENANCE

Like any vehicle, it requires maintenance. You can do it yourself, but others require assistance from your dealer. Preventive maintenance is extremely important. If you follow the maintenance scheduled in this section, you can be sure that your wheelchair will continue to operate without problems for many years to come. If in any doubt about the maintenance or driving of the wheelchair, contact your distributor.

**WARNING!** A wheelchair, like most electrical appliances, is susceptible to damage from other factors. Any wet areas should be avoided. Water can corrode electrical components and cause rusting on the seat frame.

## Can the wheelchair come into contact with water?

1. Dry the wheelchair with a towel as much as possible.
2. Leave the wheelchair in a warm, dry place for 12 hours so that the water in inaccessible places evaporates.
3. Check the bar and brakes before using the wheelchair again.
4. If there are any inconsistencies, please contact your distributor.

### GENERAL GUIDELINES

- Avoid hitting or knocking on the controller.
- Avoid prolonged exposure to extreme conditions such as heat, frost or humidity.
- Keep the controller clean.
- Check all connectors to make sure they are properly tightened.
- All wheel bearings are pre-lubricated and sealed. They do not require subsequent lubrication.

## STATUS CHECKS

### 1、Daily checks

- Check the rubber cover around the joystick base for damage. Visually inspect the boot. Do not tamper with or try to repair it. Please contact an authorized dealer if there is a problem.
- Visually check the controller cable. Make sure it is not frayed, cut, or has any exposed wires. Contact an authorized dealer if there is a problem.

### 2、Weekly checks

- Disconnect and check controller battery door. Check for corrosion. If necessary, contact an authorized dealer.
- Check the brakes. This test should be carried out on a flat surface at least three feet high around the electric wheelchair.

### 3、Monthly checks

- Check that the anti-tip wheels do not rub against the ground when using the wheelchair. If necessary, adjust them.
- Check the wear of the drive tires. Contact an authorized dealer for repair.
- Check the wear of the anti-tip wheels. Replace them if necessary.
- Check forks for damage that indicates a need to adjust or replace the bearing. Contact an authorized dealer for repair.
- Keep the wheelchair clean and free from foreign objects such as mud, dirt, hair, drinks, food, etc. Return the wheelchair to an authorized supplier for annual maintenance. This helps to ensure the proper functioning of the wheelchair and prevents future complications.

**ATTENTION:** Used batteries should be disposed of in accordance with the local regulations regarding this type of waste.

## MAINTENANCE

If the battery condition gauge does not light up when the power is turned on.

- Check the cable connections. Make sure they are taut.
- Check the circuit breaker. Reset if necessary.
- Check battery connections.

If the above conditions are normal, a battery load test can be performed with a battery tester. These testers are available at auto parts stores. Bumpers, tires and upholstery may use a rubber or vinyl conditioner from time to time.

Disconnect both batteries prior to load testing and follow the directions provided with the load tester. If either battery fails the load test, both must be replaced. If the truck still does not turn on, contact an authorized dealer.

# IX. CARE AND MAINTENANCE

## OTHER CORRESPONDENCES

### 1、Temperature

Some parts of the wheelchair are susceptible to temperature changes. Keep the wheelchair at a temperature between 18-70ºC.

- The battery can freeze in extremely low temperatures. The exact freezing point of a battery depends on many factors including its charge, consumption and composition.
- High temperatures can reduce the speed of the wheelchair. Speed reduction is a safety built into the controller to help prevent damage to the motor and other electrical equipment.

### 2、Storage

Electric wheelchairs should be stored in a dry place, free from extreme temperatures. Disconnect the battery from the power adapter during storage.

### 3、Cleaning instructions

- Never pour water on the stroller or place it in direct contact with water.
- Never use any chemicals to clean the vinyl seat as they can make the seat slippery or dry out. Use water and dry the seat thoroughly.

### 4、When to contact the distributor.

The symptoms shown may indicate a serious problem with the wheelchair. If necessary, contact your distributor. When calling, please provide the model number, serial number, type of problem and error code, if available.

- ◆ Engine noise
- ◆ Frayed wires
- ◆ Cracked or broken cables
- ◆ Uneven tire wear
- ◆ Steering problems
- ◆ Bent or broken wheels
- ◆ Unstable movement
- ◆ Turned on but no response

## EXTERIOR SURFACES

A rubber or vinyl conditioner may be applied to bumpers, tires and upholstery from time to time.

**WARNING!** Do not use a rubber or vinyl conditioner on a vinyl stroller seat, floor board, or tire tread. They will become dangerously slippery and cause personal injury and / or damage to the wheelchair.

## BATTERY TERMINAL CONNECTIONS

- Make sure that the terminal clamps are tight.
- The batteries must lie flat in the battery compartment.
- The battery terminals should face the rear of the wheelchair.

## WIRE HARNESSES

- Check all cable connections regularly.
- Check all cable insulation regularly, including the power cord, for wear or damage.
- Ask an authorized dealer to repair or replace any damaged connector, connection or insulation that you discover before re-use.

## ABS PLASTIC COVER

Left and right covers should be made of durable ABS plastic and coated with an advanced formula of urethane paint. A gentle application of car wax helps the cover maintain its high gloss.

## ENGINE BRUSHES

The motor brushes are located inside the gearbox / motor unit. They should be checked periodically for wear by an authorized dealer.

## AXIAL BEARINGS AND ENGINE ASSEMBLY

There is no need to lubricate these components as they are all pre-lubricated and secured.

# Ⅹ. WARRANTY

## THREE-YEAR WARRANTY

Three years for all parts of the structural frame.

## ONE YEAR WARRANTY

For one (1) year from the time of purchase, seller will, at its option, repair or replace, at its option, to the original purchaser, free of charge, any part or electrical component found to be defective upon Distributor inspection.

The battery is covered by the battery manufacturer's warranty, not the manufacturer's of the electric wheelchair. Warranty service can be performed by the distributor. Do not return defective parts without prior approval. The purchaser is responsible for all costs of transport and shipping damage caused during the transfer of parts for repair or replacement.

## EXCEPTIONS FROM THE ANNUAL WARRANTY

**TRANSAXLE/ENGINE:** In cases where there is an increase in the operating noise level, the guarantee is not considered. (increase in the noise level of the truck is usually caused by improper and excessive load on it).

**ENGINE BRAKE:** One year warranty for the electric function of the brake. The brake pads are subject to wear and are not covered by the warranty.

### WARRANTY EXCLUSIONS

- ABS plastic covers and footrests (subject to wear and not covered by the warranty).
- Batteries (Limited warranty is provided by the battery manufacturer).
- Tires (parts are subject to wear and are not subject to complaint).
- Upholstery and seat (parts are subject to wear and are not subject to complaint).
- Repairs and/or modifications to any part of the wheelchair without the prior consent of the seller.
- Circumstances beyond the seller's control.
- Damage caused by: leakage of battery fluid, excessive and improper use, accident or neglect.
- Operation, maintenance or storage, commercial or other than normal use.
- Work, service requests, shipping and other costs incurred in repairing the product.

## THERE IS NO OTHER WARRANTY

Implied warranties, including warranties of merchantability and fitness for a particular purpose, are limited to one (1) year from the date of purchase and to the extent permitted by law. Any implied warranties are excluded. This is your sole remedy. Liability for consequential damage arising from any warranty is excluded.

Some countries do not allow limitation in the duration of the warranty or the exclusion of limitation of incidental or consequential damages. Therefore, the above limitations and exclusions may not apply to you.

# XI. SPECIFICATIONS AND CONTACT DETAILS

| Model | W4026 MINI |
|---|---|
| Speed max (km/h) | 7 |
| Width of seat (at upholstery) (mm) | 410 |
| Seat width between the sides (mm) | 410-510 |
| Seat depth (at upholstery) (mm) | 390 |
| Backrest height (mm) | 370 |
| Overall height of the wheelchair (mm) | 1020 |
| Height of armrest from seat upholstery (mm) | 170 |
| Overall width of the wheelchair (mm) | 640 |
| Overall length of the wheelchair (mm) | 1100 |
| Weight of wheelchair with / without batteries (kg) | 68/64 |
| Clearance (mm) | 55 |
| Height of the wheelchair for transport (mm) | 540 |
| Front wheel size | 9" |
| Rear wheel size | 9" |
| Max obstacle to overcome safely (mm) | 50 |
| Turning radius (mm) | 1650 |
| Energy range* (km) | 18 |
| Maximum user weight (kg) | 120 |
| Battery capacity (Ah) | 2 x 20 |
| Motor (W) | 200 |

Due to improved technology and products, there may be some differences between the actual parameters and those given in the table above. It will not have any effect on normal use. If you have any questions, please do not hesitate to contact us.

DISPOSAL OF WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT
This symbol on the products or accompanying documents means that used electrical or electronic products should not be disposed of with the normal household waste. For proper disposal, refurbishment or recycling, please take these products to the collection points for this type of waste. Alternatively, in some EU countries or other European countries, you may return your product to your local retailer when purchasing a similar new product. By disposing of this product correctly, you will help to conserve valuable natural resources and support the prevention of potential negative effects on the environment and human health, which could result from incorrect disposal. For further information, please contact your local municipality or collection point waste collection points. Penalties may be imposed in accordance with local regulations if this product is disposed of in an inappropriate manner. For parties within the European Union, If you wish to discard electrical or electronic equipment, please obtain the necessary information from your retailer or supplier. Elimination in countries outside the European Union. This symbol is valid in the European Union. If you wish to decommission this appliance, please obtain the correct decommissioning information from your local authorities or from your retailer.

**MD** **Medical device**

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