



# POWER-TIM

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## USER MANUAL



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## Electric wheelchair

Product code: POWER-TIM



### 1. Security information

- Read instruction before using a wheelchair.
- Do not use wheelchair before unfolding and assembling it.
- It is not recommended for people with disabilities preventing them from self-usage to use a wheelchair.
- Maximum capacity cannot exceed 130 kg.
- Wheelchair can be used only by one person at the time.
- During ride, it is recommended to keep feet on footrests and forearms on armrests.
- Before ride check the battery level on control panel.
- Electric wheelchair should be used only on flat surface or low elevations. Do not drive on surface tilted more than 12 degrees.
- Do not drive wheelchair with maximum speed while driving uphill or downhill.
- Do not drive wheelchair on soft and slippery surfaces such as mud, sand etc.
- Do not drive wheelchair sideways on highly elevated surface
- Do not add additional loads to wheelchair in form of caravan etc.
- Do not make any fixes or reworks on wheelchair construction independently. Use only original spare parts from manufacturer.
- Do not stand up or sit down on a wheelchair while control module is turn on.
- Do not use wheelchair without anti-tipping wheels.
- Do not get on or get off the wheelchair without help of third person when manual mode is on.
- Do not lean forward to grab items laying in front, on side or behind the wheelchair. It might result in wheelchair falling over.
- Do not stand on footrest. It might result in wheelchair falling over.
- Avoid rapid direction changes while driving on elevations.
- Lower wheelchair speed while driving downhill or making turns.
- Check if wheels are correctly mounted/assembled.
- Do not make sudden moves while using joystick. Use gentle moves instead.
- During rain storage wheelchair in roofed building.

- Before turning on the wheelchair make sure that lever on right and left engine is set up on electric mode.
- Do not access under any circumstances places with horizontal gaps.
- Take out battery if you do not plan to use wheelchair for longer amount of time.
- Do not use wheelchair on road. It might result in car accident.
- Do not storage wheelchair in places with high temperatures and humidity.






## 2. Product description and application

Electric wheelchairs are designed for people who have problems with mobility, helping disabled patients with their everyday tasks. It can replace standard wheelchair.

### Electric wheelchair is suitable for patients with:

- disability, who have problems with unassisted movement.
- dysfunctions and reduced movement.
- heart and cardiovascular system diseases.
- weakening body due to advanced age.

### Icon description

Symbol	Meaning
	Safety Classification type B
	Important! Read the instruction
<b>IP33</b>	Protection against access to hazardous parts with a tool, protection against foreign solids with a diameter of 2.5 mm and larger, protection against water spray at any angle up to 60° from the vertical on each side
	Fragile
	This side up
	Protect from humidity and moisture

## A. ELEMENTS OF THE WHEELCHAIR



1. Breathing backrest
2. Armrest
3. Security belt
4. Pillow
5. Mounting bracket
6. Calf pad
7. Footrests
8. Front, solid 10" wheels with amortization
9. Back, pumped 16" wheels
10. Parking brakes



11. Control module for patient
12. Control module for operating person
13. Rubber push handle
14. Folding seat clamp
15. Pocket for small goods
16. Battery
17. Engine and operation mode levers
18. Anti-tipping wheels

## **B. PRODUCT CHARACTERISTICS**

- Efficient engines with high-power of 2x250 [W]
- Aluminium, folding frame
- Pneumatic rear 16" wheels
- Control module: turn on/off button, buttons with LED lights, joystick, horn button, speed adjustment buttons, battery charge level indicator
- Safe and reliable electromagnetic brake
- Parking brakes
- Anti-tip wheels
- Folding backrest
- Fully closed, maintenance-free battery
- Security belt and calf pad
- Pocket for small goods located at the back
- Two modes of operation: electric mode and manual mode

## **C. TECHNICAL PARAMETERS**

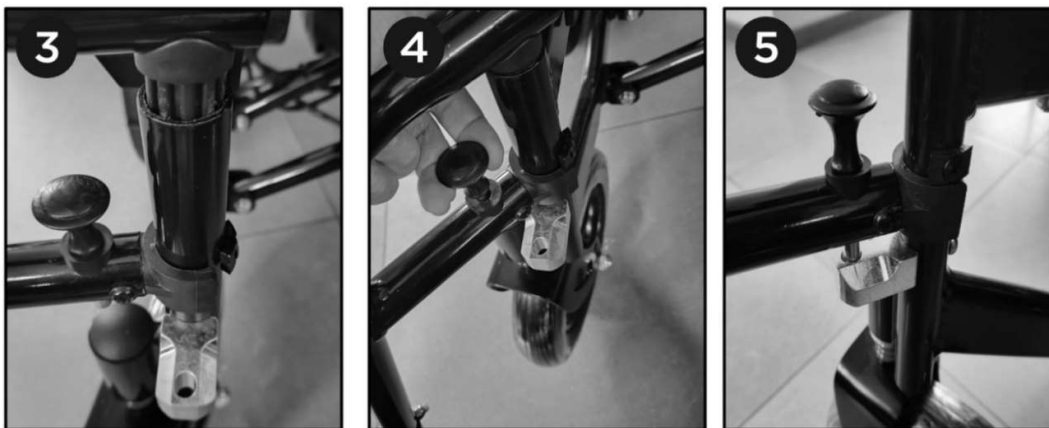
1. Product type: for outside and inside usage
2. Maximum speed:  $\leq 6$  [km/h]
3. Maximum capacity: 130 [kg]
4. Braking distance on horizontal surface (on max. speed):  $\leq 1$  [m]
5. Range: 20-25 [km]
6. Battery: acid 24[V] x 20 [Ah]
7. Max. angle of elevation:  $\leq 12^\circ$
8. Min. turning radius: 0,85 [m]
9. Wheelchair weight: 28 kg
10. Battery weight: 13 kg
11. Battery charging time: 6-8 hours

**Note!** Some parameters might vary depending on user weight, road conditions and battery usage.

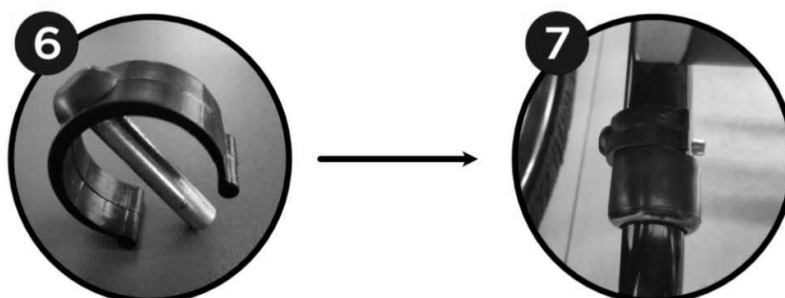
- Safety Classification: type B
- Ingress protection level for engine: IP33
- Engine power level: around 250[W] for right and left engine
- Wheelchair cannot be used in area with flammable gas mixed with air, oxygen or nitrous oxide.

### 3. Assembly and adjustment

- **Unfolding:** Take the wheelchair out of the box. Unfold it, grabbing it by armrests and press sides of the seat so all the parts of wheelchair can fit together.
- Mount the battery on the bar located behind the wheelchair using the hinges. Install the control module on the desired side of the wheelchair. Attach the upholstery, seat cushion, and anti-tip wheels.  
**Note!** Check the bars that supports battery weight are correctly unfolded. They're located at the back of the wheelchair.
- **Unfolding backrest:** Hold the wheelchair handles and lift the backrest until you hear a "click" sound.
- **Folding backrest:** Press and hold the folding clamps. Make sure the locking pins are released, then lower the backrest.  
**Note!** Do not place your fingers near the backrest hinges.
- **Footrest assembly:** Insert the footrest assembly element into the opening in the front frame of the wheelchair (picture 3). Rotate the footrest inward to lock the footrest levers (picture 5). Make sure the footrest frame is securely locked. Repeat action for other footrest. To swing the footrest away, pull the latch (see picture 4).



- **Anti-tipping wheels assembly:** Put anti-tip wheels into mounting openings at the back of the wheelchair. Put blocking clip (picture 6) through openings to secure and lock wheels in place (picture 7).



- **Adjustment of control module position:** Adjustment should be performed only while sitting in the wheelchair. Loosen the mounting screw located under the armrest and move the mounting bracket forward or backward to set the desired position. Then, tighten the screw.
- **Armrest tilting:** The wheelchair armrests can be tilted. Press the clamp located on the outer frame of the wheelchair and lift the armrests (see picture 8-9). To mount the armrests again, lower the armrests until you hear “click” sound of locking pin.



#### 4. Terms of use

##### A. CONTROL MODULE FUNCTIONS



- A. Battery charge level indicator
- B. Turn on/off button
- C. Horn button
- D. Speed level indicator
- E. Speed adjustment buttons
- F. Joystick
- G. Module with flashlight and USB port included

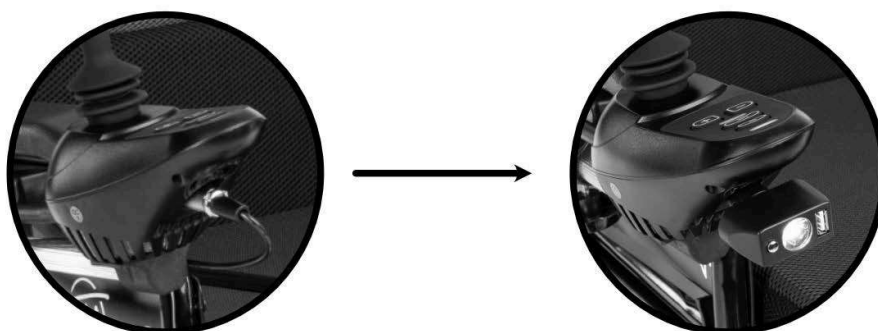
## CONTROL MODULE (FOR OPERATING PERSON) FUNCTIONS






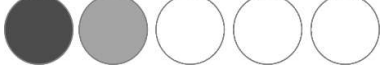
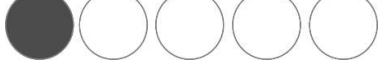
1. Joystick / Horn (press)
2. Speed adjustment – slow down
3. Speed adjustment – speed up
4. Turn on/off

- **Joystick (G/1)** – used to control speed and direction (forward, backward and turn). Ride direction depends on director in which joystick is pushed. The further joystick is tilted from middle of control panel the faster wheelchair moves. Wheelchair will automatically lose speed when joystick will be released. During wheelchair stop do not move joystick rapidly.
- **Speed indicator has 5 levels:** 1 – slowest, 5 – fastest.
- **Horn (1)** – press joystick to use horn.

**Note!** Control module has option to install additional module with flashlight and USB port. Unplug power supply cable for third person control module and plug in additional module in its place.



LED display	Status	Meaning/Description
	All LED lights are turned off	Wheelchair is turned off or in sleep mode.

<p>1.</p>  <p>2.</p>    <p>3.</p> 	<p>1. All lights are on  2. Few lights are on  3. Only red light is on</p>	<p>When the wheelchair is turned on, the number of lights shows the battery charge level:</p> <p>5 lights = 81-100%  4 lights = 61-80%  3 lights = 41-60%  2 lights = 21-40%  1 light = ≤ 20%</p> <p><b>If there's only one light (red) left, battery is running low. Charge battery as fast as possible.</b></p>
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### B. MANUAL AND ELECTRIC MODE SWITCHING

To use wheelchair in manual mode, move up left and right engine levers located at the back of the wheelchair. To use wheelchair in electric mode, move levers down.



**MANUAL MODE**

**ELECTRIC MODE**

### C. CHARGER

- Set contains charger with output for acid battery 24[V]
- Put charger plug into charging port located in control module.

- Put charger plug into charging port in control module first. Then connect charger to power supply (outlet).
- **NOTE:** Before plugging the charger in, turn off the control panel.
- Orange light indicates that the battery is being charged, while green light informs that it is fully charged or charger has been plugged to outlet, but not to wheelchair port. After the charging is finished, the charger turns off to avoid overcharging.
- Check if circuit connection is correct and not damaged.
- **Do not** modify charging circuit connection.
- To avoid fire or burnout, do not unplug charging circuit while battery is charging.

#### D. METHOD OF USE

- To use wheelchair set up mode to a chosen ride mode.

**Note!** Do not switch ride mode while driving on elevation.

- Tilt footrest and sit comfortably on a wheelchair seat. Lower the footrest back to original position.

**Note!** Do not use footrest as assurance during sitting down or standing up from a wheelchair. This may cause wheelchair to tilt and fall down.

- Sit on a wheelchair and turn on power button on control panel. LED lamps will light up. Joystick should be in neutral position.
- During first usage exercise caution. Before driving check if parking brakes is released. You can control speed and direction with joystick. The electromagnetic brake will get release after slightly pushing joystick in ride direction. To speed up wheelchair push joystick further away from its neutral position and to slow down – bring it closer.
- To stop a wheelchair, let go of the joystick. Pressing power button or rapidly letting go of the joystick will stop the wheelchair.
- While parking on elevation or on manual mode, block wheelchair with parking brakes on both sides by moving the lever away from the user.
- Using speed buttons on control panel, adjust wheelchair speed according to user physical state and road conditions.
- Wheelchair should only be used on flat surfaces. Driving on muddy or uneven surfaces can cause control system damage.

#### 5. Technical data

<b>Product code</b>	<b>POWER-TIM</b>
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Overall height	91 cm
Overall width	69 cm
Overall length	110 cm
Seat dimensions	49 x 43,5 cm
Pillow dimensions	49 x 41,5 x 5 cm
Battery weight	13 kg
Maximum capacity	130 kg
Wheelchair weight	28 kg without battery
Wheels	Front, solid: 10'' Rear, pneumatic: 16''

## 6. Cleaning and maintenance

- It is recommended to regularly inspect wheelchair construction and its elements (wheels, frames, cables, control module, brakes etc.).
- It is recommended to regularly check pressure level in back wheels.
- Used wheelchair parts needs to be replaced (to do it, contact the Seller).

### Battery maintenance and cleaning:

1. Regularly check battery level on control panel. If battery charge level is low, immediately charge battery to avoid voltage drop that can impacting battery lifespan.
2. Battery is marked with positive and negative electrode symbol and charging circuit is connected correctly. Do not connect charging circuit by yourself.
3. If wheelchair won't be used for longer period of time, charge battery at least once a month.
4. Battery has specific lifespan. Change your battery for new if it wears out.
5. Battery should be kept clean, away from kids. Avoid causing any shock or hit damage to a battery.
6. Regular charging of battery expands its lifespan.
7. Used batteries should be utilized according to local environmental regulations.

### Tires maintenance:

It is recommended to inflate the tires in range of 2,4-3,1 bar (35-45 PSI). The pressure should be adjusted according to the weight of the user and changes in

air temperature. Tires may lose air over long periods of storage or non-use. Regularly check the tire pressure and their wear condition. When the tire tread pattern depth is reduced to 1 mm, replace the tires with new ones. Follow these instructions to inflate the tires:

**Slight lack of air**

- Press the tire evenly with your hands so that the tire and rim fit evenly.
- Inflate the wheel to the desired pressure.

**b. No air**

- Inflate the wheel to 30% of the total volume and press the tire evenly with your hands so that the tire and rim fit evenly.
- Inflate the wheel to the desired pressure value.

**7. Storage and transport conditions**

**A. TRANSPORT**

- Be caution during transportation. Do not throw, turn or put pressure on a product.
- **Wheelchair folding:** go through assembly steps in reversed order.

**B. STORAGE**

Wheelchair should be keep in dry and well-ventilated space.

**Avoid:** high temperatures and its rapid changes, acids, alkalis and corrosive chemicals.

**C. WEATHER CONDITIONS FOR STORAGE**

**Temperature:** -40[°C] ~+50[°C]

**Humidity:** <95%

**Atmospheric pressure:** 56[kPa] ~106[kPa]

**8. Wheelchair malfunctions removing**

- In case of malfunction, control module will turn alarm indicated by sound and diagnostic diode flashes. Number of sound signals (beeps) and diode flashes informs about type of problem.

No. of flashes	Type of problem	Cause / possible solution
1	User error	User exceed the limit set by controller. Wheelchair do not turn on.

		Release the joystick back to center position and try again.
2	Interface error	Control panel interface error occurs.
		Contact with Seller to replace control panel.
3	Battery/charger failure	Charger or battery may be damaged
		Check if power cords are tighten
4	Left engine failure	Check if power cords connected to left engine are tighten.
5	Right engine failure	Check if power cords connected to right engine are tighten.
6	Failure of left electric brake	Check if power cords connected to left brake are tighten. Check if brake switch is damaged or badly connected.
7	Failure of right electric brake	Check if power cords connected to right brake are tighten. Check if brake switch is damaged or badly connected.
8	Control module failure	Please contact and consult Seller.
9	Control module error	Check if power cords connection is tighten. Please contact and consult Seller.

## 9. Warranty information

- All products distributed by our company are covered by a warranty, the terms of which are described in the warranty card available on our website. Please contact the retailer from whom you purchased the product. Please, keep in mind that for warranty purposes, the proof of purchase (receipt or invoice) should be retained. As user-friendly company, we provide only

tested products, in terms of material, quality and functionality. If you have any other question regarding service procedures, contact us.

- **Warranty does not covers:**

- **wearable parts:** upholstery, tire, armrests, battery
- **damages resulted from:** self-repairs, changes in product construction, drop, transport, inappropriate usage, noncompliance to the instruction, natural disasters (fire, earth shake, floods)

- Product code is located on wheelchair frame label.



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