

EZee Life[™]

EZee Fold 2G Portable Power Wheelchair

Model: CH4051 Black Frame CH4052 Grey Frame



EZee Life™ Products

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Table of Contents

Guidance For Use	3
Product Safety Symbols	4
Technical Specifications	5
Components	6
Electromagnetic Interference Warning	7
Safety	8
Installation Guide	13
Operation Guide	14
Braking	17
Battery	18
Unfolding And Folding	21
Troubleshooting	22
Warranty	22

Informatio

Guidance for Use

This manual must be read and understood completely before your first use. If you have difficulty in understanding the warnings, notes and instructions in this owner's manual, or require additional assistance, please contact your authorized provider or distributor to obtain professional guidance and help.

Failure to follow the instructions on this manual can lead to your safety being at risk as result of improper usage, and voiding the warranty.

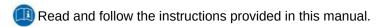
Authorized Provider:	
Address:	
Phone Number:	
Purchase Date:	





Product Safety Symbols

The following symbols are used to identify warnings, mandatory actions and prohibited actions. It is essential that you fully understand and familiarize yourself with these symbols before operating wheelchair for the first time.



Safety warning sign or an indication of a dangerous operation that may endanger your safety or the safety of others.

Class _ equipment (Canada) / Class _ equipment (USA).

Do not use any mobile phones, walkie talkies, electronic devices or any other radio transmitters while operating.

Finger crush / pinch point.

Store in a clean and dry condition; away from rain, snow, ice, salt and water.

Test of EMI/RFI at an immunity level of 30 V/m has been passed.

Corrosive substance contained in the battery

A Danger of explosion

Do not use batteries with different amp-hour (Ah) capacities, No mix use of old and new batteries. Always replace both batteries at the same time.

Keep tools and other metal objects away from battery terminals. If contacted, short circuit or electric shock may occur and cause injury.

Flammable material, avoid exposure to heat source such as open flame or sparks. Avoid transporting the batteries along with flammable or combustible objects.

🛮 🛟 Disposal and recycle

Technical Specifications

Dimensions (Unfolded):	L x W x H 34.25 x 24 x 36.2 in (87 x 61 x 92 cm)
Dimensions (folded):	L x W x H 36.2 x 10.2 x 30.3 in (61 x 26 x 77 cm)
Suggested User Weight Max:	264 lbs (120kg)
Wheelchair weight:	52.35 lbs (23.8 kg)
Full Charge Range:	16 km / 32 km*
Max Speed:	3.75 mph (6 km/h)*
Turning radius:	31.5 in (800 mm)
Maximum Grade:	12 Degrees

^{*}Will vary with user's weight, terrain, ground condition, battery condition, temperature and driving style.

Motor Type	Brushless DC Motor	
Rated power	180 W	
Input Voltage	DC 24V	
Brake System	Intelligent Electromagnetic Brake	
Braking Distance	59" (1.5m) at max speed	
Battery Type	Lithium battery	
Battery Capacity	8 Ah / 16 Ah	
Output Voltage	DC 24V, 2A	
Controller Type	Brushless dual-drive rocker controller	
Input Power	AC 100-220 V, 50-60Hz	
Input Voltage/Current	DC 24V	
Front Caster	6" x 1.5" (150 mm x 38 mm) Solid	
Rear Wheel	8" x 2" (150 mm x 50 mm) Solid	

Components





- 1.Footrest
- 2. Frame
- 3. Seat cushion
- 4. Armrest
- 5. Backrest cushion
- 6. Upper backrest
- 7. Joystick
- 8. Seat Belt
- 9. Fender

- 10. Rear wheel
- 11. Battery
- 12. Front Caster
- 13. Carry Pouch
- 14. Battery Power Cord Connector
- 15. Motor
- 16. Free Wheel Levers
- 17. Anti-tippers

Electromagnetic Interference Warning

The power wheelchair may be affected by electromagnetic interference (EMI), which may cause damage or interruption to the operation of the chair. It is important for you to understand the instructions which can help you take protective measures against the risk of interference.

The sources of electromagnetic waves come from broadcasting stations, TV

The sources of electromagnetic waves come from broadcasting stations, TV stations, radio transmitters, two-way radios (such as walkie-talkies), cellular phones and computers. Interference from these electromagnetic waves may cause malfunction or permanent damage to the chair's braking and control system.



 The power wheelchair has passed the 30 V/m EMI test and has a certain degree of immunity to most common electromagnetic energy sources.

However, it is important for you to follow the safety guidelines as follows:

- a. Do not turn on or operate portable transceivers, receivers, radios or any wireless communication devices.
- b. Stay away from all radio wave emission sources.
- If interference does occur and causes unintended movement to the chair in an uncontrolled manner, cut off the power immediately.
- 3. No modification of any form to the power wheelchair is allowed, including adding or removing any parts.





Safety

Usage



Safety Guidelines

- Check all electrical and control connections to ensure they are secured safely and firmly.
- Check battery levels regularly and ensure the battery is charged immediately when needed.
- Keep tools and any metal objects away from the negative and positive poles of the battery.
- Short-circuits or electric shock may occur when the two poles are accidentally contacted.
- Familiarize yourself with wheelchair and its capabilities.
- Always seek assistance during your first use until you are confident enough to operate the chair independently and proficiently.
- Always beware of any potential danger while using the power wheelchair.
- When the power wheelchair is not in use, turn off the power, charge the battery and store in a clean and dry place.

Joystick

To ensure your safety while operating the power wheelchair, the joystick must be securely mounted (Fig. A1). If any buttons on the joystick fail or are not responding, you must stop using the chair



immediately and contact the provider for repair or replacement.

A1

Static Position

When the chair is inactive, even for a moment; the power must be off (Fig. A2).

This will:

- Prevent the joystick from being activated by accidental touch which may cause the chair to move unintentionally.
- Prevent the chair from electromagnetic interference sources which may activate the chair's operation system and cause damage to the chair and bodily harm.

Do not allow anyone but you to touch the joystick. This will protect the chair from being moved without your awareness and causing potential serious bodily harm.





Weather Precautions

This power wheelchair shall not be used or stored in environments of rain, snow, icy or slippery surfaces. These conditions may adversely affect the functions of the chair. Always keep your chair in a clean and dry area.

Malfunction may occur if the device is in contact with rain, snow or high humidity environments. Do not expose the chair to any extremely hot or cold conditions. The chair is not fully waterproof; a humid environment may result in rusting or corrosion inside the chair. If you are ever caught in any of these conditions, please proceed to shelter immediately.

To prevent malfunction, please adhere to the guidelines as follows:

- Do not operate or store the chair in an environment which has direct water contact extremely hot or cold temperature or excessively high humidity.
- Do not use the chair while showering, swimming, etc.
- Do not use the chair in salt or fresh water.
- Use caution when around any water sources (e.g. rivers, lakes, etc.)
- Do not spray the chair with water.

Note: If the chair becomes wet, immediately pull out the battery and allow it to dry naturally. Put the battery back after the chair is completely dried.





When operating on wet or frictionless ground surfaces, please carefully move at a slow speed and follow the safety guidelines below:

- When any of the motor wheels losses traction, the chair must be stopped immediately to avoid losing control of the chair (e.g. slipping, tipping over, etc.).
- Do not drive into slopes or ramps covered with snow, ice, water, oil, etc.

Road Surfaces

This wheelchair is designed optimally for dry level surfaces; such as concrete and indoor ground flooring.

Do not use wheelchair on sand, uneven or loose surfaces, tall grass or rough road surfaces to prevent the wheels, bearings, axis, motor and other parts from being damaged or loosened.

When using your wheelchair you are a pedestrian. Use the sidewalks if available and be especially careful when in parking lots.

Vehicle Transport



Please be aware that it is at your own risk and is not advisable to sit in the wheelchair when taking any forms of transportation such as cars, buses, trains, planes or ships.

If you must take such forms of transportation while remaining in the chair, it is extremely important that you secure yourself with the vehicle seat belt, power off the chair and push the brake lever to "Lock" position. Ensure there is no movement of the wheels and have the chair securely tied down. This will help prevent injuries during sudden stops. This chair is ultracompact and taking any transportation is made possible as you can fold the chair conveniently and store it away in small areas such as a car trunk.

If you need to be transferred on or off a vehicle manually without getting off the chair, never allow anyone to lift the chair by the armrest or rear backrest. The chair must be lifted by firmly gripping the front and rear edges of the seat cushion frame.

Weight Distribution

To avoid tipping over while driving, the balance and stability of the power wheelchair must not be neglected. The following factors may affect the weight distribution of the chair:

- Height and angle of the chair.
- Seating position, or weight loading position of the user's body.
- The gradient of the ramp or slope.
- Load carried in storage basket or by the user may have adverse effects to the weight distribution of the chair.

Getting On/Off

Whenever transferring, it is recommended you have a supporting point that is higher than the seat cushion. To avoid and reduce the chance of falling, please be aware of the following:

- Before getting on and off the chair, ensure that you lift up the armrest and lower the leg guard.
- Before getting on the chair, ensure that the power is off and the brake is in "Lock" position. Ensure that the wheels are locked.
- Before getting out of the chair, ensure that the power is off and the brake is in "Lock"position. Inspect that the wheels are locked. Move the chair as close as possible to the target position to minimize the risk of falling during transfer.
- Consult your health care professionals about the safest way to transfer in and out of the chair.
- Always fold up the footrest while getting on and off the chair
 - Do not stand on the footrest to support your body while getting on/off the chair.

Leaning or Reaching While Seated

Reaching out your hands or leaning your body in the chair may adversely affect the chair's balance. If you do not position yourself correctly, you may fall off the seat or tip over the chair.

- When moving your body such as lifting your body at one side or leaving the seat, do not lean your body out of the range of the seat cushion.
- When moving forward on your seat, do not lean your body excessively. Your hips must be always in contact with the seat cushion.
- Do not reach your hands farther than your capability as this may result in falling due to lost balance.
- Under no circumstance should you try to pick up anything from the floor through the space between your knees or in front of your body.
- When you extend your body, do not exert force on the footrest to avoid the chair from tipping over, this may result in serious injury.
- Do not push forcefully against the top of the backrest to avoid tipping over the chair and causing damage to the backrest.



Failing to follow these guidelines may result in serious injury. If you do any of these actions, it is at your own risk.



Never reach, bend, or lean in the chair. Doing so will change your center of gravity and the weight distribution of the chair.





Stationary Obstacles

Navigating over obstacles such as ramps, slopes, curbs, raised or uneven surfaces, pot holes and rough roads can be hazardous. Extreme caution is needed to avoid tipping the chair over.

It is important to climb or descend an obstacle slowly, cautiously and perpendicularly. Failing to do so may result in damage to the chair or causing bodily harm.



Do not exceed the incline guidelines and specifications in this owner's manual.

To navigate over a stationary obstacle:

- Approach the obstacle slowly, cautiously and perpendicularly.
- With extreme caution, increase the forward speed gently when the front wheels just come in contact with the obstacle and reduce the forward speed gently after the rear wheels cleared the obstacle.
- Lean your upper body slowly and slightly forward, when going over an obstacle with an ascending slope.
- With extreme caution, reduce the forward speed gently when the front wheels just come in contact with the obstacle and increase the forward speed gently after the rear wheels cleared the obstacle.
- Lean your upper body gently against the backrest, when going over an obstacle with a descending slope.
- Avoid any sudden stops and starts.
- Always navigate perpendicularly towards the obstacle.

Inclined Slopes

If you feel uncomfortable driving on a slope, do seek assistance to protect you from causing bodily harm to yourself.

- It is not advisable to drive on slopes over 10°.
- It is prohibited to drive on slopes over 12°.
- It is prohibited to drive on a wet slippery slope (e.g., snow, ice, oil etc.).
 - It is prohibited to drive in areas with continuous up and down slopes

Reverse Driving

When driving in reverse, please exercise extreme caution. The motor wheels may run into an obstructive object which may lead to your chair getting out of control and may cause your chair to tip over.

- All obstructions should be cleared, approached cautiously and slowly while driving in reverse
- Never drive in reverse on inclined slopes

Load Limit

- Max Load of the chair: 250lbs (120kg)
- Do not exceed the safe load
- Do not press down or lift up the backrest.
- Under no circumstances should the user do weight training while using the chair.
- Overloading the chair may cause damage to the chair's frame, fastened parts and folding device.
- Overloading caused damages will void the warranty of the chair.

Getting Up/Down Stairs and Escalators The wheelchair is not designed for long journeys or getting up and down stairs, and escalators. It is prohibited to move or use wheelchair on stairs and escalators. Serious bodily injury may result.

Installation Guide

Mounting the Joystick

1. The joystick is mounted on the armrest. Remove the armrest plug (3), if installed, on the side of the chair you want the joystick mounted, slide the joystick mount rod into the armrest tube (2) and tighten the thumbwheel securely.





2. Connect the joystick control wire (4) under the arm to the wire (5) routed down to the controller. You will have to reroute the controller wire (5) to the opposite arm of the chair if you want to change from the preset side.





Operation Guide

The Joystick comprises of the following:

- Joystick Gimbal Controls the direction and speed of the chair. Push the joystick towards the desired direction.
- **2) Power-Off Button** Pressing this button will power off the chair.
- 3) Battery Life Indicator Indicates the battery level.
- **4) Power-On Button** Pressing this button will power on the chair.
- 5) Horn Press to sound horn.
- Add Speed Button Increase the speed of the chair.
- 7) Speed Indicator With 5 LED lights on, the chair at its max. Speed. One LED light on, the chair is at its lowest speed.
- **8) Reduce Speed Button** Pressing this button will lower the maximum speed of the chair.



1

Note: To drive the chair, push the joystick gimbal in the direction you want to go. If you push it gently you will gradually speed up but if you push it quickly you are apt to jump in the direction you push.

Note: The speed adjustment adjusts the top speed the chair will go. Even on the highest speed the chair will only creep along if you move the gimbal a very small amount.

Note: The electromagnetic brakes on the chair are always engaged when the gimbal in in the neutral position. When the gimbal is moved, even a minute amount, the brakes electrically release. When the user releases the the gimbal, it automatically returns to the neutral position and the brakes immediately engage again.

It is important to know that if there is a danger of hitting anything, all they have to do is release the gimbal and the chair will stop moving. The distance it takes to stop will vary dependant on the speed the chair is moving.

Joystick

When operating the chair for the first time, it is recommended to move the chair at a low speed gently and gradually pushing the control joystick forward. The practice run will help you familiarize yourself with controlling the speed and start and stop of the chair.

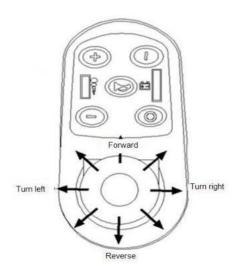
Do not do sharp turns at high speeds. The chair may lose its balance and tip over causing serious bodily injury and property damage.

The control joystick on the control panel provides 360 degrees of omni-bearing maneuver ability comfortably and effortlessly. A spring is equipped inside the joystick which automatically returns to its original position when let go.

Push the joystick towards the target direction. The joystick can control the drive proportionally, the harder the push, the faster it goes. The max traveling speed is 6km/hr.

Release the control joystick slowly and gradually for the chair to slow down safely.

Movement	Control lever operation	
Forward	Push the control lever forward	
Backward	Pull the control lever backward	
Right	Push the control lever to the right	
Left	Push the control lever to the left	
Stop	Release the control lever gradually(the chair will slow down to stop safely)	







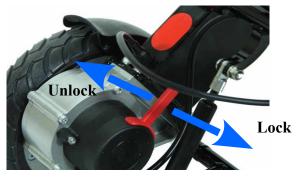
The speed indicator light flashes intermittently to provide diagnostic information. For details please refer to the following table:

Diagnostic	Diagnosis	Recommended solving
code	Description	methods
Single Slow Flash	Hall malfunction of left motor	Check the the welding situation of connection device of the left motor or check the internal hall component. Call a service company for help.
Two Slow Flashes	Hall malfunction of right motor	Check the the welding situation of connection device of the right motor or check the internal hall component Call a service company for help.
Three Slow Flashes	Malfunction of battery or charger	Try re-charging Check for loose connections Battery or charger may need replacing
Four Slow Flashes	malfunction of left motor	Check the left motor connection Check power wire & connections
Five Slow Flashes	malfunction of right motor	Check the right motor connection Check power wire & connections
Six Slow Flashes	malfunction of left brake	Check the left brake connection Check power wire & connections
Seven Slow Flashes	malfunction of right brake	Check the right brake connection Check power wire & connections
Eight Slow Flashes	Malfunction of controller	Please contact your dealer
Nine Slow Flashes	Communication error	Check electrical coupler connection Check power wire & connections
Four Fast Flashes	Over current of left motor	Releasing the rocker can eliminate the malfunction. Call a service company for help.
Five Fast Flashes	Over current of right motor	Releasing the rocker can eliminate the malfunction. Call a service company for help.

Braking



After any adjustment, repair or maintenance, check all components and parts for tightness before use, otherwise damage or injury may occur.



Pushing down/forward the brake as the arrow indicates can lock the chair.

Pulling up/rearward the brake as the arrow indicates can unlock the chair.

Electromagnetic Brake System

The chair has 2 braking modes which can be selected by pushing the brake levers to "Lock" or "Unlock" position.

- In"Lock"position: the internal clutch of the electromagnetic brake is engaged and the electromagnetic brake is started. Before powering on and attempting to operate the control joystick, the motor wheels will not move. Having brake in the "Lock" position will ensure the chair does not move, allowing the user to get on/off the chair safely and securely.
- In"Unlock"position: the internal clutch of the electromagnetic brake is disengaged. In "Unlock" position, the motor wheels can move freely even when the chair is powered off. This will allow the chair to move manually.



CAUTION - Before using the chair, the brake lever must be in the "LOCK" position so the electromagnetic brake is engaged and the chair won't freewheel.

- **1.** Do not operate the chair while the brake is in "Unlock" position, without the presence of an attendant.
- **2.** Do not seat yourself in the chair while the brake is in "Unlock" position, without any assistance from an attendant.
- 3. Do not place the chair on an incline or decline while the brake is in "Unlock" position. The chair may roll out of control and may cause damage to the chair or bodily harm.





Battery





Do not use batteries with different amp-hour (Ah) capacities. Do not mix use of old and new batteries. Always replace both batteries at the same time if two are used.

Keep tools and other metal objects away from battery terminals. If contacted, short circuit or electric shock may occur and cause injury.

Avoid flammable materials. Avoid exposure to heat source such as open flame or sparks. Do not transport the batteries along with flammable or combustible objects.



Corrosive substance contained in the battery. Do not disassemble the battery.



Danger of explosion. When charging the batteries, place the chair and the battery charger in a well ventilated area, away from flames and sparks.



WARNING

Do not attempt to connect the battery terminal directly using pliers or metal cables to charge the battery.

- Do not use the chair when the battery is being charged.
- Do not use non-standard power supply (eg. generator or inverter).
- Do not squeeze, bend, jerk or tie the power cord.
- Do not smoke or ignite anything around the battery.
- When pulling the power cord, grab the plug to pull it out.
- Keep the power cord away from children or pets.
- If there is any issue with the circuit breaker, pull out the charger immediately and contact your provider.
- The operating temperature of the battery is -5¹ (23°F) to 40¹ (104°F).

Battery Maintenance

The battery's life and performance may be affected by temperature, condition of the battery, and the weight of the user. Charging the battery continuously for a long duration (more than 24 hrs) before the first use can reduce the battery's service life.

When charging a new battery for the first time, it must be fully charged (about 24 hours) in order to fully activate the battery.

It is recommended that you charge the battery for the second time, when the lowest level of the LED light on the control panel flashes. In other words, fully discharge the battery before the second charge.

Always ensure the battery is fully charged before use. The regular charging time is about 7 hours. But if the power is fully run down it may take 10-12 hours to charge fully until the red LED on the charger turns green.

When not using the chair for a long duration, charge the battery full every 2 months. If the battery is left uncharged for a long period of time, it will damage the battery permanently.

Mounting/Removing Battery

Ensure the chair is powered off before mounting or removing the battery.

Removing the battery:

- 1. The batteries are located in the wheelchair side frames.
- 2. Unplug the battery power wire near motor (Fig. F) and slide out from the front of chair





To install the battery, reverse the removal directions.

Charging the Battery

The battery can be charged with normal AC power (AC 110-220 V, 50-60 Hz). The charging port is located under the front part of the control panel.

Before charging, ensure the chair is powered off.

- Plug the charger 3-pin cable into the charging port under the front part of the control panel (Fig. G2)
- 2. Plug the power cord of charger into a power outlet. When the red LED is on, it is charging.





- When the LED on the charger changes from red to green, keep charging for an additional 30 minutes to allow the battery to be fully charged.
- 4. Pull out the off-board charger from the power outlet before unplugging from the charging port of the control panel.
- 5. Please charge the battery in an appropriate temperature. The recommended ambient temperature for charging is between 5°C to -40°C.

Over-discharge Protector

The lithium battery will be permanently damaged if the battery's capacity has been completely discharged. Therefore, the wheelchair is equipped with an over-discharge protector. When the lithium battery is running low, the protector will cut off the circuit automatically and the controller will stop working.

When the lowest level red LED light on the battery level indicator flashes, it means that the batteries need to be charged very soon.

When there is no red LED light on battery level indicator, it means that the batteries must be charged within 2 hours. If not, the battery may be permanently damaged.

The charging time after over-discharge takes 10-12 hours.

When the lowest level red LED light on the battery level indicator flashes, it means that the batteries need to be charged.





CAUTION - Do not allow the acidic substance inside the battery to come into contact with your skin, clothes or other items. The substance is extremely hazardous and may cause serious burn. When contacted,immediately flush your skin with cold water and seek medical attention.

Unfolding and Folding

After any adjustment, repair or maintenance, ensure all components are securely tightened.

Folding

- Shut off the power, loosen the joystick lever lock knob, remove it from the arm and put it aside.
- 2. Rotate both arms back until the hang down towards the floor.
- 3. Take off the seat cushion.
- 4. Pull steel wire under the backrest.
- 5. Push the backrest forward while lifting the front frame.
- 6. Unlock the top back frame and rotate down between the arms.











Unfolding

- 1. Flip up backrest
- 2. Pull back on backrest while pushing down on the front seat frame. (Pull on the backrest until it locks in place)
- 3. Flip arms back onto place.
- 4. Reinstall joystick and connect joystick wire.











Troubleshooting

There is a diagnostic indicator in the control panel. When the light is green, it means the chair is functioning properly. If a problem arises the light will flash. If the indicator light indicates there is a problem, the user should turn off the power and then turn it on again.

If after turning the chair on again the malfunction continues and the light continues to flash, please refer to the diagnosis information below for possible problems and corresponding solutions.

$\hfill\square$ The diagnosis system

When the maintenance LED light flashes, it means that there is something wrong with the wheelchair and an alarm may sound from motor, brake, battery, wire connection, or the wheelchair itself. The cause of the problem may be determined by the diagnosis code. The number of flashes indicates diagnosis code. For example, the LED light flashes four times, pauses, and flickers four times again, repeatedly, it means that there is something is wrong with the left motor. If there are 5 flashes the problem is in the right motor.

Please refer to the table on page 16 to determine the diagnosis based on the flashes.

Warranty

Part Name Warranty Length

Frame 5 Years

Motor 2 Years

Battery 1 Year

Joystick 1 Year

Other items 1 Year

Wear Items Excluded

Any alterations, misuse, abuse, or accidental damage voids this warranty. EZee Life™ reserves the right to replace or repair any part that has become defective.

The warranty does not extend to consequential costs resulting from the fault or defect of the product: freight and travel costs, loss of earnings, or other expenses that one may incur.

Warranty is valid for the original purchaser only and the original receipt must be presented before any warranty options are considered. Please also be prepared to provide the date of purchase and serial number.

You may register your warranty online at:

https://www.factorydirectmedical.com/warranty-registration-2

Warranty Exclusions

- 1. The warranty exclusions extend to the following items:
 - a. Upholstery and seating, armrest, leg guard, footrest, brake pads, motor brushes, tires require replacement due to normal wear and tear.
 - b. Damaged components due to negligence, accident, misuse, abuse, overload commercial use, improper operation, maintenance or storage.
 - c. Circumstances beyond the control of our company.
 - d. Modifications and / or repairs made to the chair without consent in writing from our company.
- 2. If the serial number on the chair is not original or is modified, or is inconsistent with that on the warranty card, or the serial number on the warranty card is altered, warranty will be voided.
- The warranty is non-transferable and is for the original purchaser of the chair only.

Disclaimer

Thank you for purchasing our wheelchair. We disclaim all responsibility for any personal injury or property damage as a result of improper or unsafe use of this chair.

If you have any questions about wheelchair and its safe operation, please feel free to contact your authorized provider.

Imported / Distributed by:

Factory Direct Medical

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