Read and follow all instructions, warnings, and notes in this manual before attempting to operate your power wheelchair for the first time. If there is any information in this manual which you do not understand, or if you require additional assistance for assembly or operation, please contact with your authorized local provider.

These symbols below in this manual are used to identify warnings and important information. All of them are very important to your safety. It is strongly recommended that you should read and understand them completely.

1. INTRODUCTION

1.1 This product integrates advanced technology with modern style. Especially, its structure for quick dis-assembly and assembly are very convenient for you to store or place at the trunk of your vehicle while traveling. We are certain that the design features, excellent performance and trouble -free operation of this product will ensure your daily life more convenient.

1.2 This product is suitable for all the disabled persons, the elderly and the infirm who have difficulty in walking. The maximum user weight is 300LBS.

1.3 This product is of an outdoor type. It is of Model EW-43.

1.4 This product is suitable for an outdoor use and the flat streets near buildings for a middle distance, but not for the grass, gravel, or slope of more than 10 degrees and motorized roads, rainy or snowy days,either.

2.SAFETY USE

2.1 This power wheelchair is energy, non-asepsis, reusable product without chemical substances.

The safe and period of validity for wheelchair on the clinical use not only depends on its structural strength, but also on the user usage and use of the product environment, user habits, whether in accordance with the periodic maintenance, maintenance and other factors .

Our products are valid from the date of production for 7 years.

2.2 Instructions before use

2.2.1 If not completely read and understand the user manual, please do not drive.

2.2.2 The maximum loading capacity is 300LBS,(fig.A)please do not overload driving. And it is single use, please do not carry passengers.

2.2.3 Please do not drive after drunk or too tired.(fig.A)

2.2.4 Do not drive at night or in the case of a unclear line of sight.

2.2.5 Please self-test before driving and refer to the manual section 5.3 "Commissioning" and 6.2.2"Practice before operation " if driving for the first time.

2.2.6 This wheelchair is not waterproof, do not expose in rain and snow as well as drive in rain or snow.(Fig.B)

2.3 Attention during using

2.3.1 This power wheelchair can drive on a good flat surface, do not drive on muddy, rugged, soft, narrow, icy road, bad roads without guardrails or waterway. (Fig.C)

2.3.2 This power wheelchair has the certain ability of groove obstacle , at this time you should reduce the speed and travel slowly.

2.3.3 This power wheelchair has the certain climbing ability, the climbing angle is ≥ 6°, but within 10°.(Fig.D)

2.3.4 Please avoid driving in the crowds, traffic and other places with heavy traffic.

2.3.5 Please ensure that the controller system fix well, joystick is straight and correct. Sit well and promptly fasten protective tape, keep your head as backward as possible and lean against the backrest in case of bumps on the road, which may lose control.

2.3.6 Press the on/off button, firstly check if the current fastest speed setting is appropriate for yourself operating proficiency, or it should be adjusted for safety; We recommend drive slowly at the beginning for every use, and gradually accelerate as well.

2.4(EMI)Electromagnetic Interference

Your wheelchair may be traveling in the areas affected by electromagnetic interference from some radio transmitters such as radio, wireless intercom, mobile phones and radars etc. In these cases, your wheelchair' s driving may be affected by them. Electromagnetic interference may affect the control system of the electric wheelchair. Some disturbances may cause brake failure, automatic start or runaway, and may cause permanent damage to the control system.

2.4.1 Electromagnetic Interference Classification

▪Short-band radio transceiver. These radios have antennas, such as radio waves in the urban bands, walkie-talkies, cell phone network systems and signal transmission devices.

▪Medium-band mobile radio transceiver. These are usually installed in the building or outside the vehicle antenna. For example: police, fire, tax, medical ambulance and other radio transceivers.

▪Large band radio transceiver. These are usually installed on the tower in the antenna, such as: commercial radio TV transmission system.

2.4.2 Prevention of Electromagnetic Interference

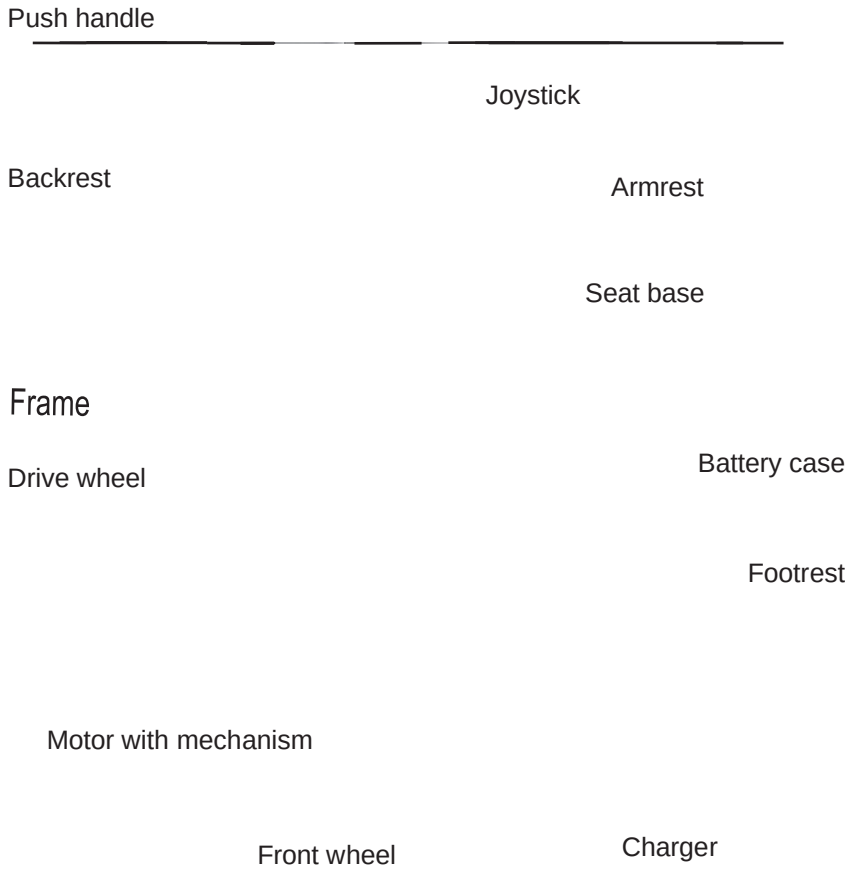
●Do not use hand-held radio transceivers when the wheelchair power is turned on, such as mobile phones, radios, etc;

●Avoid close to the radio transmission system, such as radio stations, television stations;

●If the electric wheelchair can not control or brake failure, please contact our company or dealer.

3.STRUCTURE AND PERFORMANCE

3.1 This power wheelchair consists of the main parts including the front wheel, drive wheel, frame, joystick, motor with mechanism, armrest, push handle, backrest, seat base, footrest, battery case, and charger,the structure is shown as below.



3.2 Product Characteristics of the Power Wheelchair

●Classification by anti-shock type: wheelchair is internal power supply;

●Classification according to the degree of anti-shock: wheelchair belongs to the B-type application part;

●Classification according to the degree of protection of the feed: IPXO;

●Safety degree when used in flammable anesthesia mixed with air or flammable narcotic with oxygen or oxidized nitrogen Category: Non-AP or APG equipment;

●By operating mode: continuous operation;

●Rated voltage and frequency of wheelchair: DC 24V;

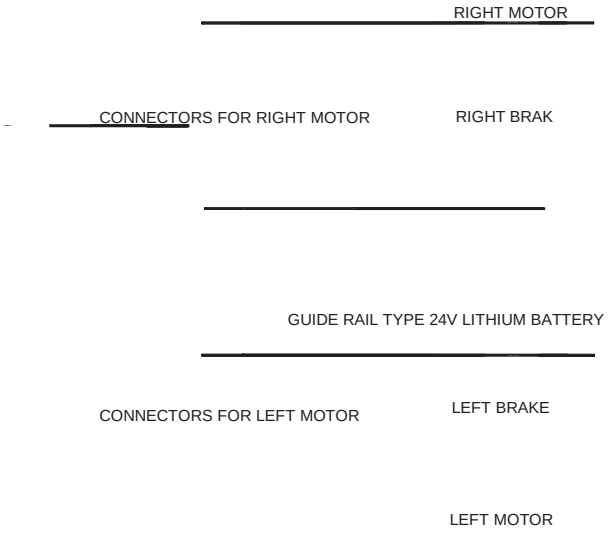
●Input power of wheelchair: internal power supply equipment;

●Whether the wheelchair has a protective effect on defibrillation effect: No;

●Whether the wheelchair has a signal output and input part: No;

●Permanent installation of equipment or non-permanent installation of equipment: mobile devices.

3.3 ELECTRICAL DIAGRAM OF POWER WHEELCHAIR



3.4Product Software REV.

Controller version of Power wheelchair EW-43 is V1.6.

4.SPECIFICATION.

Sheet 1

Weight Capacity	300 lbs
Distance Per Charge	9.7 miles
Maximum Speed	3.7 mph
Turn Radius	24.5"
Unfolded Dimensions (LxWxH)	42" x 24.5" x 38.5"
Folded Dimension (LxWxH)	15.5" x 23.5" x 31"
Weight With Battery	60 lbs
Weight Without Battery	56 lbs
Battery Weight	4 lbs
Incline Ability	6 degrees
Front Wheels	8"
Rear Wheels	12"
Seatback Height	21.5"
Seat Width	17.25"
Seat Depth	17.5"
Seat Type	Flat free tires
Seat Height at Front	19"
Footrest To Seat Distance	15.75"
Joystick	Left or right optional
Armrest Height	8"
Armrest Type	Folding armrests
Backrest Angle	10 degrees
Ground Clearance	1.5"
Braking Distance (Flat Surface)	59"
Static Stability	9 degrees
Dynamic Stability	>6 degrees
Slope Performance	>9 degrees
Motor Type	x2 200 watt hub motors
Battery Type	24V, 10AH lithium battery
Charger Type	Offboard 2A charger
Frame Type	Aluminum
Drive Type	Rear wheel drive
Seatbelt	Yes, included
Storage	Removable bag under seat, back seat pocket
Suspension	Front shock absorbers

Note:
①The weight capacity is tested with a dummy or personnel of same weight.
②Theoretical Travel Ranging is tested on flat road with average speed. It will vary due to drive surface, operation habit,etc.

5.INSTALLATION, FOLDING AND DEBUGGING

5.1Installation

5.1.1 Take out the wheelchair from packing box to the ground, flip up the footrest, then connect the battery by inserting it to the end.(fig.1) Pull it out froward and backward with one hand on the backrest and another on the bottom pole.(fig.2)

5.1.2 Install the joystick on the armrest(fig.3); Tight the knob on the sleeve(fig.4) to fix the joystick.

5.1.3 Press the stop pin of anti-tipper fixture(fig.5), which is at the inside of rear wheel, under the motor. Stretch out the anti-tipper to the limit slot and automatically clip into the third position.

5.1.4 Put the brake lever to electric mode(fig.7) instead of manual mode(fig.8)

5.1.5 Complete the installation by buckling the locker down(fig.9) and then the wheelchair is ready for operation.

5.1.6 The method for taking-out battery(fig.10): Press switch ① by hand, and then pull out the battery easily.

5.2Folding

The wheelchair can be folded to reduce the volume for transportation and storage.

①Power off the wheelchair.

②Adjust the brake lever to electric mode, making sure it is not at the manual mode.(fig.8)

③Press down the backrest,pull up the locker(fig.11); fold the wheelchair with one hand pushing the backrest and another hand on the seat tube.(fig.2)

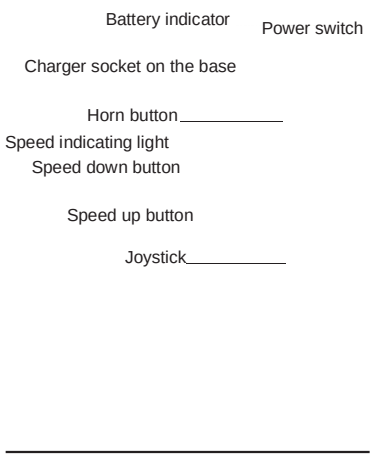
④Flip up the footrest.(fig.12)

6.USEING AND OPERATION

6.1Using

6.1.1 Controller: an absolutely necessary electrical device. All electronic components to operate the wheelchair are integrated to the device.Usually, the controller is installed on an armrest, connected together with the motors and batteries to the power box.

●Switch button: Switch button supplies the power for control system for electronic equipment, then equipment supplies the power for motor of wheelchair. Do not use the switch button to stop the wheelchair unless an emergency situation. Otherwise it may shorten the life of the wheelchair drive components.



●Joystick: The joystick is mainly used to control the wheelchair' s movement including its speed and direction(forward, backward and left or right etc). The further you push the joystick from its central position, the faster the wheelchair moves. Whenever you release the joystick, it will automatically go back to the center and the brake will be automatically operative to stop the wheelchair.

●Horn button: The horn will sound if you press this button.

●Speed Up/Down Buttons and Speedometer: After turning on the power, the speedometer shows the current maximum speed setting. This maximum speed setting can be adjusted through the speed up button or speed down button by user.

●Charger Socket:It is only used to this wheelchair. Do not use the socket to supply power to any other electrical equipment. Otherwise, it may damage the wheelchair' s control system or its E.M.C performance (Electromagnetic tolerance).

6.1.2 Batteries and Its Usage

Fully charge your new battery prior to its initial use. This brings the battery up to about 90% of its peak performance level; Give the battery another full charge of 5-8 hours and operate your wheelchair again, the batteries will now perform at over 90% of their potential; After four or five charging cycles, the batteries will top off at 100% charge and last for an extended period. Please replace a new battery when the battery failure, and the used battery must be returned to supplier because of environmental pollution.

Battery specification	
Type	Lithium battery
Dimension	12.6''*3.15''*2.56''
Voltage	24V
Amperehour	10AH

6.1.3 Charger Usage

The battery charger is an important part of the wheelchair. The off-board charger attached to this product can charge its batteries quickly and easily to make your wheelchair the best.

Please note below tips when charging:

●Be certain the controller is powered off and the wheelchair is in the electric mode, instead of the manual mode.

●Connect the 3-pin output plug of the charger to the controller. (Fig.14)

●Connect the power plug of the charger to the standard wall outlet.

● The red LED on the charger lights indicating that charging is in progress. The green LED on the charger lights when the batteries are fully charged.

●We recommend you to charge the battery for 5-8 hours.

●Remove the charger and power plug when fully charged, and put them into the bag behind the seat rest.

6.1.4 Safety Belt

For your safety, the safety belt must be fastened before you operate the wheelchair. (fig.13)

6.1.5 Overload and Undervoltage Protector

The overload and undervoltage protector is set for the wheelchair' s safety, and implement the protection function through the on-off of the protective board installed inside the lithium battery. Once motors overload or undervoltage, it will trip to cut off the power to prevent the motors and electric components from damage. The protector function could be recovered by charging the wheelchair or reconnect the batteries.(fig.14)

6.2 Operation

6.2.1 Preparation before operation

●Do not turn on the power switch when sit on the power wheelchair, and do turn off the power switch when get off from the wheelchair.

●Please fold the pedal first then hold the armrest to sit on the wheelchair; Do not get off the wheelchair by stepping on the pedal. Otherwise the wheelchair maybe turned over, which is dangerous.

6.2.2 Practice before operation

●Find a spacious place like square and have an assistant to help you practice until you have enough confidence to operate it.

●Be certain to shut down the power when up and down the wheelchair, and set a speed you need through speed adjustment button.

●We recommend you set the lowest speed until you can operate the electric wheelchair skillfully. (fig.a)

● To practice the stop operation, forward and backward. Push the handle, the wheelchair move to anywhere you want.(fig.b)

● Firstly, ensure that it is the lowest speed when practice forward operation. After Skilled, you can practice “S” shaped turn. After you are familiar with "S" shaped turn, to practice backward operation, and pay attention to the speed control setting. And the backward speed should lower than forward speed.(fig.c)

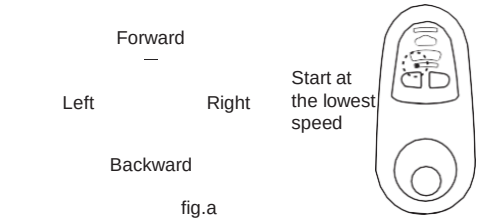


fig.a

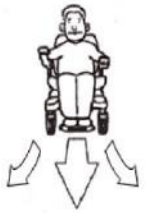


fig.b

fig.c

6.2.3 Operation

Please do it according to precautions operation.

7.FAULT DIAGNOSIS AND TROUBLESHOOTING

For your convenience of operation, this product has an automatic fault warning function. Once the wheelchair system malfunctions, the LEDs on the controller will flash with alarm sounded by the horn. You can find where a fault is according to information in Table 8.

If the fault still exists after checking based on table 8, Please consult your service agent immediately.

Table 8

LED display	Fault Diagnosis	Troubleshooting	Remark
1 LED lamp flashes	Low voltage, undervoltage	Charging	
2 LED lamp flashes	The left motor failure	Check the motor and wiring harness	
3 LED lamp flashes	The left motor failure	Check if the brake lever at the correction position, if the brake is damaged	
4 LED lamp flashes	The right motor failure	Check if the brake lever at the correction position, if the brake is damaged	
5 LED lamp flashes	The right motor failure	Check if the brake lever at the correction position, if the brake is damaged	
6 LED lamp flashes	Overcurrent of controller	Check if the brake is disengaged,if the wheel is locked-rotor	
7 LED lamp flashes	Failure of the joystick	Check if the joystick is in the center	
8 LED lamp flashes	Failure of the controller itself	Controller fault	

8.SAFETY DEVICES AND ACCIDENT TREATMENT

8.1 Safety belt: Refer to instruction manual 6.1.4

8.2 Overload Protector: Refer to instruction manual 6.1.5

8.3 Please release the joystick whenever there is a wheelchair fault , the wheelchair will be stopped.

9.MAINTENENCE AND REPAIR

9.1 Maintenance

Like other motorized vehicle, your power wheelchair also requires routine maintenance. Some checks can be performed by yourself, others you can ask for assistance from your service agent. Preventive maintenance is very important. If you follow the maintenance and checks in this section, your wheelchair will give you years of trouble-free operation. If you have any doubt about your wheelchair' s care or operation, please contact your service agent or our after-sale service dept.

9.1.1 Humidity

Your wheelchair, like most electrical and mechanical equipment, is susceptible to external conditions. In any case, the wheelchair should be avoided damp environment. Direct or prolonged exposure to water or dampness could cause the wheelchair to malfunction electronically and mechanically. Water can cause electrical components and the wheelchair's frame to corrode.

9.1.2 Temperature

●Some parts of your wheelchair are susceptible to temperature.

●In extremely cold temperature, the battery may be frozen. Special temperatures may cause a lot of factors to freeze, like charger type, usage, battery components (such as sealed lead-acid batteries or gel batteries);

●Temperature above 55°may cause your wheelchair decelerate.

9.1.3 General Guidelines

●Avoid beating the controller, especially the joystick.

●Avoid prolonged exposure of your wheelchair to extreme conditions, such as hot, cold or moisture environment.

●Keep the controller clean.

●Check all electric connections, including the cable and connectors of the charger, and ensure that they are all tight and secure.

●If only red LEDs on the Battery Gauge lights, the batteries are nearly running out of charge. You should recharge the batteries as soon as possible. We recommend charging the battery for 5-8 hours.

●The frame surface has been sprayed with a clear sealant coating. You can apply a light coat of car wax to make the surface keep a high gloss.

●Check all cable connections. Make ensure they are fastened and are not corroded. The battery must be placed in the battery area, flat, the battery plug inward, relative display, refer to the correct connection on the main frame label;

●All wheel bearings are lubricated and sealed. Do not need to lubricate them.

●Check if there is loose phenomenon for wheel hub, drive device, and chair itself, if loose, please screw tightly in time.

9.1.4 Maintenance after use

●Turn off the power(please disconnect all the connectors if not use for long time.)

●Inhibit children or unconscious person to use the wheelchair.

●Store the wheelchair in normal temperature to prevent reformation so that it keeps its performances for long period.

●Clean the wheelchair with a clear and soft cloth and dry it. Never use any chemicals to clean it.(to prevent deformation and discoloration).

●Remove the cloth cover of the seat rest to be washed if it is dirty, and then dry it for use.

9.1.5 Daily Checks

In order to keep the wheelchair in good condition, you should check before each use. And to maintain the weekly, monthly, semi-annual investigation.Refer to table 9 for the inspection item.

Table 9

Inspection Items	At any time	Weekly	Monthly	Six monthly
Wheel hubs, Driving mechanism and fasteners			○	
Joystick function	○			
Brake System	○			
Connection		○		
Battery Condition	○			
Tire Condition			○	
Inflation condition of rear wheels	○			
Frame Condition				○
Motor and actuator condition				○
Front Wheel Condition		○		
Pureness	○			

9.1.6 Cleaning

Way of cleaning as below.

Clean the wheelchair with dry cloth.

●Never wash your wheelchair with water or expose directly to water.

●Surface of wheelchair frame is coated with a protective coating. Therefore, it is very easy to wipe it clean with a damp cloth. Never use any chemicals to clean the vinylon seat and armrest, as they may cause the latter slip or chapped. You can use a damp cloth and neutral soapy water to clean them, and then dry thoroughly.

9.2 Repairment

9.2.1 Users could repair or replace some spare parts like armrest, push handle cover which could be self-maintained or replaced by users under the instructions of after-sales service staff of our corporation or the dealers'.

9.2.2 Within the warranty, our corporation or the dealers will maintain or replace the faulted spare parts, like motor, battery, charger, controller, bearing, shaft sleeve, etc., due to material or manufacturing defects free of charge.

9.2.3 The spare parts like motor, controller, etc. which are confirmed by the after-sale staff of our corporation or our dealers' to be dissembled could be sent to our corporation or the dealers for maintenance.

9.2.4 Please contact your distributor or the after-sale service dept. of our corporation for any questions regarding the mantainence of power wheelchairs. Please refer to 12.1 Product Warranty.

10. TRANSPORTATION AND STORAGE

10.1 Transportation

You can load and transport according to the shipping marks and graphics. For details, see the attachment.

10.2 Storage

Your wheelchair should be stored in a clean indoor environment with ambient temperature of 0℃-50℃,relative humidity ≤80% , good ventilation and free from corrosive gas. Remove the batteries from the wheelchair prior to storage. Otherwise, the frame may rust and the electronics may be damaged.

11.OPENING AND CHECKING

Please check if any parts missed or damaged.

NO.	Name	Quantity	Remarks
1	Power wheelchair	1	Model:EW-43
2	Charger	1	Model: HP0060W(L2)-M
3	Manual	1	
4	Pedal	1	
5	controller	1	

12.QUALITY ASSUARANCE

12.1 Warranty

12.1.1 5-year warranty for wheelchair fraem

12.1.2 Within 1 year from the purchase date, for the following parts, we will supply free maintenance and/or replace service for original customer after the dealer check there are materials and production defects.

●Electrical control or joystick system

●Motor/Drive System

●Bearing and shaft sleeve

12.2Warranty- Medical Scooters

Models Included
EW-M33, EW-M34, EW-M35, EW-M39, EW-M40, EW-M41, EW-M43, EW-M45, EW-M47, EW-M49, EW-M50, EW-M81, EW-M82, EW-M83, EW-M91, EW-M92, EW-M93.

Three Year Limited Warranty
Three (3) years from the date of purchase on all structural frame components, seat post and frame.

One Year Limited Warranty
One (1) Year from the date of purchase, if any part or electronic component of the scooter is found upon examination to be defective in material and/or workmanship, it will be replaced at Ewheels discretion.

Six Month Warranty
Six (6) Months from the date of purchase on the batteries and charger. Batteries are subject to a stringent wear and tear clause. Any battery faults due to a manufacturing defect will become obvious within the first two months of use. Any gradual deterioration in performance after this period is normal and associated with fair wear and tear, misuse or accidental damage and as such is not covered by the manufacturer’s warranty.

WARRANTY EXCEPTIONS AND EXCLUSIONS

Service and Labor Costs
Unless previously authorized, service calls and labor costs are NOT included or covered under any warranty. The purchaser is responsible for the delivery to the authorized repair facility. Satisfactory proof of purchase is always required for warranty service. Please contact Ewheels directly for any assistance in locating a service provider or to make a warranty claim.

Consumable Items
Consumable items which may need replacing due to normal wear and tear like tires, tubes, lights, chains, upholstery and seating, brakes and brake pads, cables, fuses, buttons, shrouds and covers.

Damage, Accidental Damage and Misuse
Damaged caused by: battery fluid spillage or leakage, abuse, misuse, accident, negligence, improper operation, excessive loading, maintenance, storage, acts of God, commercial use, or use other than normal, extreme riding, modifications and alterations.

Second Hand Owners and Reselling
No warranty will be offered or honored for second hand owners. The warranty is

exclusively offered to the original purchaser.

HOW TO MAKE A WARRANTY CLAIM

Initiating A Warranty Claim
To initiate a warranty claim, please contact Ewheels service department by calling 888-571-2845, or by email at “Service@ewheelsdealers.com”. Note that before any warranty claims will be fulfilled, satisfactory proof of purchase will be required, and a photo or video of the damaged part must be sent and reviewed by Ewheels.

Returning Faulty Parts
Do not return faulty parts to Ewheels without prior consent. A request for a return authorization is required prior to returning items. All transportation costs and shipping damage incurred while submitting units and/or parts for repair or replacement are the responsibility of the original purchaser.

SHIPPING DAMAGE AND SHIPPING POLICIES

Shipping Damage
In the event shipping damage occurs, it must be reported and addressed in a timely manner. Shipping damage claims are time sensitive and cannot be delayed. In the event the packaging is extremely damaged and the bike is beyond repair, please refuse the shipment, and contact Ewheels for further steps.

Shipping‐Domestic
When applicable, part costs will be covered under warranty, and all warranty items will be shipped via FedEx Ground. Shipping fees will be at the expense of the purchaser.

Shipping‐International
When applicable, parts will be provided under warranty at no charge, but shipping to any offshore and/or international location will be the responsibility of the original purchaser. International and offshore end-users must contact Ewheels directly to initiate the warranty process.

Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one (1) year from the date of the original purchase and to the extent permitted by law. Any and all implied warranties are excluded. This is the exclusive remedy. Liabilities for consequential damages under any and all warranties are excluded

The name and symbols of the signs

No.	Sign	Meaning
1	——	Fragile objects inside the packaging,please handle with care.
2	——	Keep the packaging up during transportation.
3	——	Keep the packaging avoid from rain
4	——	The max. layers of stacking same packaging is 2.
5	——	Hand hook are forbidden when carry on transport the packagings
6		Application type B.
7	- - - -	Plummeted Droplets（condensed water for example do not damage the electrical appliance）
8		Warning、Attentions、Caution.

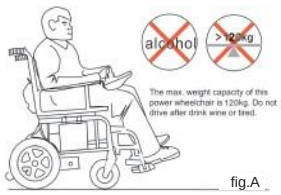


fig.A

fig.B


fig.C

fig.D

fig.E

fig.F