

# eVolt Traveler Power Chair

## USER MANUAL

### Preface

Congratulations on the purchase of your JYD Imports power chair. Please ensure this manual is read carefully before operating the eVolt Traveler, so that you understand these user instructions and follow the maintenance advice given.

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## Summary

This manual including chair operation, installation and failure solution  
This manual is for JYD Imports eVolt traveler  
Read this manual before using

**Warning** Improper use will result in death or serious injury  
Improper use will result in damage of your eVolt traveler  
Follow this manual to keep eVolt traveler in good condition

This manual contains "normal maintenance list please keep this manual properly Anyone who uses this eVolt traveler shall read this manual carefully. Due to quality improvements or design changes, operating instructions and illustration in this manual may be different to the actual eVolt traveler, JYD Imports reserves all rights to modify without prior notice Any questions please consult to the seller or JYD Imports 1-800-522-5817 Fill the warranty card, confirm the sellers name and seal, and keep the receipt or invoice

Use the eVolt traveler in the right way according to this manual. Improper driving may cause damage to the user or other people. This eVolt traveler is made for the elderly and handicapped, to provide convenience to their daily life as mobility aids. This eVolt traveler is powered by a rechargeable battery and DC motor. The direction and

Speed driving is controlled by the user himself or herself with a controller.

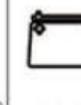
## Introduction



### Product Performance

This series of electric eVolt traveler is powered with rechargeable battery and dc motor. The direction and speed driving is controlled by the user himself or herself with the controller. It should be used at low speed on good ground condition and small slope.

### Main Technical Parameters

 Overall width (mm) 590	 Seat width (mm) 450	 Rear wheel diameter (inch) 12	 Front wheel diameter (inch) 8	 Seat height (mm) 460	 Overall height (mm) 840	 Overall length (mm) 1010	 Seat length (mm) 415	 Backrest height (mm) 390
 Max. loading (kg) 100	 Max. safe slope 8-15	 Max. speed (km/h) 6	 Max. driving range (km) 18	 Motor/Electro magnetic DC250W*2	 Batteries 24V 12AH	 Charger Charging time DC24V 3A 8-10h	 Max. Controller output power 50A	 Net weight (kg) 23

### Main Components

This series of eVolt traveler consists of two parts

1. Main body: frame, wheels, footrests, armrests, backrest, etc
2. Electric: controller, motor and battery

### Applications

For the elderly and the disabled whose weight < 100kg as a short trip vehicle only. Driving on motorways or on the street where cars drive is forbidden.

## Operation Instruction

**General Information** Keep arms on the armrests to control the eVolt traveler, making sure no barrier in front of the eVolt traveler Practise in safe places before getting skilled in drive Remember the feeling of advancing, stopping and turning during practice Companion shall go with the user the first time the user drives to keep safe Obey the traffic rules, take non-motorized vehicle lane Drive on pavement and zebra crossing drive on the right when there is no pavement, and keep away from motorway Drive smoothly, NO snake driving or sharp turning Check the tyre pressure regularly when it is pneumatic tyre Abnormal tire pressure may cause unsteady driving or waste of electricity.

**DO NOT drive under the following condition or in these places, there shall be a caregiver when driving** Bad weather (rain, heavy fog, strong wind, snow, etc In case the chair get wet, dry it immediately Bad road(muddy, snowy, sandy shingly etc Heavy traffic road road with side ditch or pond, etc but without fence Rail spur If have to cross a rail spur, pause first to make sure it is safe and the wheel won't get stuck by the rail The chair is only for personal use, no other articles shall be carried and shall not be used as traction.

**Note for Slope** Avoid driving on steep slopes, tilted ground, high steps, ditches, etc. Make sure the drivable slopes are smaller than 9 degrees and handle with great care. Driving must be forward when climbing or getting down slopes. Please keep the lowest speed when getting down slopes. Avoid driving sideways or obliquely on steep tilted ground. No driving in steps zones or crossing high steps. Keep at right angles with steps while crossing. Avoid crossing wide ditches. Keep at right angles with ditches while crossing.

**Warning** DO NOT change into manual mode when climbing or getting down slopes. When the eVolt traveler breaks down at traffic intersection, please ask passersby for help and change it to manual mode immediately, to move to safe area.

**Caregiver** Make sure both feet of the user are on the footrest, and no cloth contact with the wheels. When the slope is long or steep, the eVolt traveler shall be changed into manual drive, and driven by the caregiver to keep safe.

**Others Repair or Modification** When the eVolt traveler needs to be repaired or modified, please contact JYD Imports after sale service. Accident or failure may be caused by unauthorized modification. **Environmental Protection** Unusable eVolt traveler or battery shall be treated according to the local laws. Do not litter anywhere. **Keep Dry** Keep the eVolt traveler in a cool and dry place: keep away from water and moisture.

**Service Life** 1 year from the day leaving JYD Imports factory. Check the QC label for manufacturing date.

**Electromagnetic Interference** Keep the eVolt traveler from strong magnetic fields or big inductive electronic equipment, such as broadcasting station wireless stations or cellular phone base stations. Keep the eVolt traveler from electromagnetic interference.

## eVolt traveler Adjustment

### General Information

#### Folding

Remove seat cushion

One key to fold



#### Unfolding

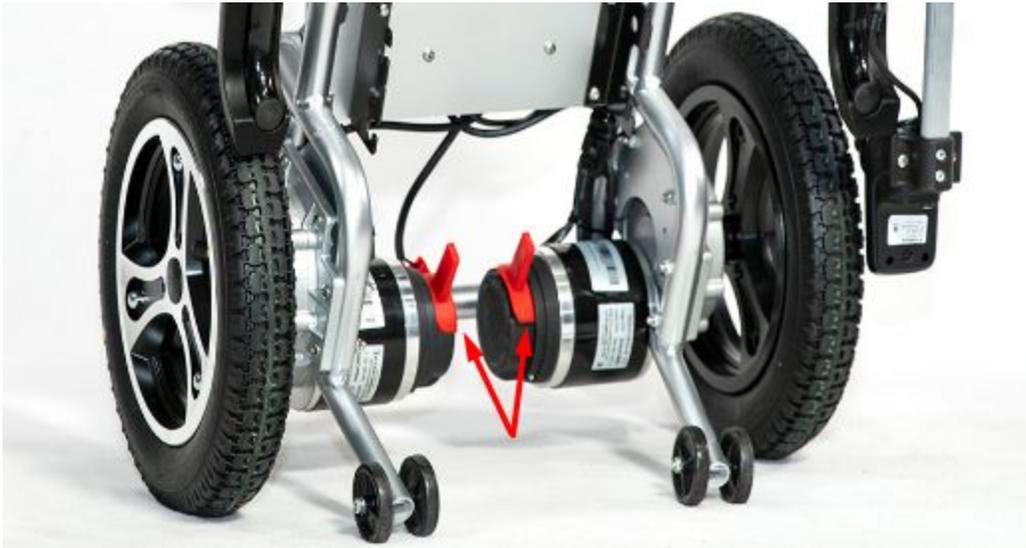
Pull the eVolt traveler frame from both sides press the seat into the slot, lift up the backrest

### Controller Adjustment

Turn the bolt under the armrest counterclockwise to loosen the controller rod(Picture 3); adjust the controller to the suitable place, and screw tight the bolt



**Manual-Electric drive conversion** Lock the brake and turn off the power; pull the clutch (with red switch) out of the slot and turn right or left, make sure the clutch will not fall into the slot it is manual drive mode. Pull and turn the clutch again and make the clutch fall into the slot. It is electric drive mode.



**Caution** When changing into electric drive mode, make sure both the left and right clutches are in the slot. If any side of the clutch can not completely fall into the slot, there will be danger of side-turning over

## Charger and Battery

**Charger Parameters** The charger is special for the battery of this eVolt traveler It shall meet the following requirements

1. Parameters Input Voltage: AC 220V Output Voltage: 24V/DC Output: 5A
2. Battery plug shall be three-pin, inlet protection class IPX1
3. Charger shall meet the requirements of GB 4706 1-2005 and 4706.18-2005

**Charger Instruction** charge according to the following steps 1. Check the charger slot, make sure this is no obstacle 2. Make sure the eVolt traveler is power off 3. Unplug the controller cable from the battery 4. Connect the charger cable with battery 5. Connect the charger with power, and the red power light is on. The whole charge will take 7-8 hours, do not exceed 24 hours 6. Disconnect the connections of the charger after charging finishing Enough charging guarantees the full capacity of battery. Charging beyond 24 hours will influence battery life When the eVolt traveler is not using for a period, disconnect the controller cable with battery to save power. Charge the battery once a month if the eVolt traveler will not be used for a long time

**Attention** DO NOT pull the power plug if the charging has not been finished. Using unsaturated battery will shorten its life apparently Full charging is strongly recommended The green power light indicates the charging finishing Unplug the charger plugs after charging Please observe the following rules to avoid danger when charging Charger output shall be 24V/DC 5A and meet national standard Charging shall be placed in good ventilation environment;keep away from exposure or wet surroundings DO NOT cover anything on the charger. DO NOT charge at temperatures $<10^{\circ}\text{C}$  or $>50^{\circ}\text{C}$ ,the charger can't work well and it may damage the battery. There will be fan noise during the charging. It is normal and the fan is for cooling. Protect the charger from liquid when charging. Keep the charger away from combustible items, such as: oil, footrest olseat.

## Safety Usage and Maintenance of Battery

Wrong replacement of battery will result in explosion do use the same battery or battery recommended by the manufacturer. DO note the battery polarity. To maintain the battery batter, frequent charging is recommended to keep the battery full. Fully charge the battery first if the eVolt traveler will not be used for a long time and charge the battery once a month

**Caution** Keep away from fire NO smoking during charging, because the battery will release H<sub>2</sub>, and the charging area or room should be well ventilated DO NOT contact any plug, battery or charger if they are wet or if the hands are wet DO NOT drive or sit in the eVolt traveler during charging to avoid damage

## Controller

### Control Panel



### Power on/off

When the eVolt traveler is power on, the power indicator light will be on from left to right, and there will be one beep. This means the power is OK

### Speed Adjusting

user can adjust the speed according to his or her feeling and the surrounding. The indicator will show the speed level, and the speed can be changed by pressing the increase or decrease buttons Five levels: 20% and 40%. 60%,80%. 100%of the max speed 1st: usually 20% of the max speed 5th: usually 100% of the max speed

### Horn Button

Press the button and do not release, the hon honks continuously

### Power Indicator

When the light is on, the eVolt traveler is powered on, and the light indicates the power capacity Green means full d yellow needs to be charged. Please charge immediately when the light is red.

**Controller Joystick** The joystick direction is the eVolt traveler moving direction. Joystick moving amplitude will influence the eVolt traveler speed towards the direction

**Attention** For safety reasons, when switched on the first time, the joystick moving amplitude is ignored by design. The twinkling speed indicator may mean that the joystick is not in the middle position Release the joystick to the middle, the twinkle will disappear

## System Diagnosis

**Introduction** Twinkling maintenance light means the abnormal situation It can be the motor, brake, battery, cable or eVolt traveler ritself Problems are classified according to the maintenance light number. For example, two lights are on, the left motor is abnormal, and four means the right motor. The eVolt traveler may could not be driven or forbidden to be driven according to different situations

**Audio Signal Code** Codes are made for different abnormal situations with diagnostor. Without other tools, these situations can also be detected

Light	Explanation	Note
All lights are off, no sound	power off, system sleeping, bad cable connection, fuse problem	
all lights are on	power on, self inspection pass, normal work.	notice the power capacity by power indicator.
red power indicator light is on	extreme low battery	charge immediately or battery is out of work, can not be charged.
two short buzzer sounds, five power indicator lights twinkle twice	left motor failure	check the left motor cable connection.
four short buzzer sounds, five power indicator lights twinkle four times	right motor failure	check the right motor cable connection
six short buzzer sounds, five power indicator lights twinkle six times	over current production for controller	check the brake and transmission parts; low current may be the controller failure.
seven short buzzer sounds, five power indicator lights twinkle seven times	control rod failure	rod can not return, or rod cable disconnected.
eight short buzzer sounds, five power indicator lights twinkle eight times	controller failure	consult the controller manufacturer.
eight short buzzer sounds, five power indicator lights twinkle nine times	control rod failure	consult the controller manufacturer.

## Maintenance and Inspection

### eVolt traveler Cleaning, Tyre and Battery Maintenance

Maintenance includes: cleaning, battery and tyre check and battery charging. Further maintenance should be done by the customer service staff. eVolt traveler shall be checked every six months and inspected every year

### eVolt traveler cleaning

eVolt traveler parts which have been frequently touched shall be cleaned with clean and slight wet cloth, such as seat, armrest, controller and so on do not use organic solvent) Routine cleaning should be done once a week for patient use. and Disinfection shall be done if it is infection diseases Tyre Check the wear condition of the pneumatic tyre regularly, and when the tread depth shorter than 1mm, change a new tyre Battery Charge the battery frequently DO NOT use the battery to severe shortage, which will reduce the battery life greatly

### eVolt traveler Damage and checking

If the eVolt traveler breaks down during using, please turn off the power before checking Symptoms: completely loss of power, indicator lights are out on the controller Checking steps: Check if controller plug Check if the battery plug and all cable connections, do not pull the wire to avoid cable damage If all the above do not work or there are questions about the steps, contact the customer service center immediately

**Note:** There is diagnostic apparatus inside the controller, which can monitor the controller and motor. Any problem will be shown on the controller. More details please refer to the system diagnosis in this manual Please check eVolt traveler according to the items in the following table. Some shall be done each time when the user gets in or out of the eVolt traveler. To get more of attention, they listed in Area A.

## Maintenance and Inspection

A	Check every time before using: 1.Backrest                      4. Footrest 2. Armrest                        5. Clutch 3. Joystick                        6. Power status of the controller
B	Check monthly to avoid parts loss or damage. 1.Screws   2.Brake   3.Clutch 4.Front and rear wheel parts and the tyre tread depth 5.Controller and charger connector
C	For safety reasons, Thorough maintenance shall be done to the wheelchair every six months.

## Warranty

### Content

This eVolt traveler is made according to the industry standard. Any quality problems of the material, spare parts or manufacture technology, please consult JYD Imports at 1-800-522-5817 after-sale service center for warranty. Repair is free during the warranty under the after-sale service terms

### Non-application Clause

self-feeling but with normal function Discomfort caused by parts wearing or changing after using for a period (natural fading and deterioration of the coating surface, plating surface, resin, etc.

### Following actions can not enjoy warranty.

No implementation of the regular check and maintenance required by JYD Imports Inappropriate or incorrect maintenance Operation methods from somewhere different to the operating instructions in this manual, and overload (overcrowding carrying capacity, etc. Modification without authorization by JYD Imports External factors like soot, medicines, bird droppings, acid rain, flying stone, metal power and so on Natural disasters like typhoons, floods, fires, earthquakes and so on

### Following expenses are not covered

Consumables replacement (tyres, fuses, all plastic products, glass products, lubricants, etc. Costs of checking, adjusting, oil feeding, cleaning and so on Regular checking cost Modification without authorization by JYD Imports Repairing expenses not charged by JYD Imports authorized service center or after-sales service center.