

# Manual of 3 wheel Mobility Scooter

The following is instructions for the Wattwheels Mobility Scooter, specifications, notices, product instructions, maintenance and basic care.



Before riding, please carefully check the parts are secure and locked in place to ensure that your driving safety. If you find the problem, please contact the dealer in time.

# Specification

# Notice

| Product mode               | Foldable electric tricycle         |   |
|----------------------------|------------------------------------|---|
| Motor                      | Type                               | DC brushless high speed motor                         |
|                            | Rated power                        | 240W or 350watt                                       |
|                            | Rated voltage                      | 36V   |
|                            | Rated torque                       | 6.5.N.m   |
|                            | Rotation rate                      | 420rpm  |
| Battery                    | Battery                            | Lithium   |
|                            | Voltage                            | 36V   |
|                            | Rated capacity                     | 8Ah   |
| Controller                 | Under-voltage protection value (V) | 30±0.5V   |
|                            | Over-current protection value (A)  | 14±0.5A   |
| Complete Vehicle Parameter | Wheel diameter                     | F:8inch/R:10inch (250watt) F:8inch/R:10inch (350watt) |
|                            | Max speed                          | 15KM/h  |
|                            | Dimension (mm)                     | 955X530X450mm   |
|                            | Wheel base (mm)                    | 700mm   |
|                            | Net weight                         | 23.5 kg (250watt) 28.5kg (350watt)                    |
|                            | Gross weight                       | 28.5kg  |
|                            | Max loading                        | 100kg(250watt) or 130kg(350watt)                      |
|                            | Range                              | 40Km  |
|                            | Handle bar height                  | 860---730 mm  |
|                            | Saddle height                      | 500 mm  |
| Power assistance type      |                                    | Electric  |
| Brake                      | Front                              | /   |
|                            | Rear                               | Disc brake  |

1. Range test situation: full charge, shift third level, loading 75kg, flat ground, no wind.

- -Before riding please read this User Guide thoroughly and use this product as instructed.
- -Please keep this User Guide safely. If this product is sent to others, make sure that this User Guide is also attached.
- -Any operations that do not accord with instruction might result in severe physical injury and product damage.
- -Losses occurred on account of faulty operations not in accordance with the guidelines should be borne by the user.
- This Mobility Scooter should also avoid long-time exposure to rain or sunlight, or somewhere in high humidity or with corrosive gas
- Vehicle Max loading: 100kg(250watt) or 130kg with 350watt Model
- Carrier max loading 10kg

### Preparation before riding

- Please read this manual carefully to understand the performance and relevant requirements of this product.
- If going up an incline make sure the rear rail has been pulled out. This will help prevent overturn and prevent the Mobility Scooter from falling backwards. (note these units are primarily designed for the flat but can go up hills. Extreme care is recommended when doing this as the units can roll back.)
- Check the tyres: Check whether the tyre pressure is adequate, if not, they need inflated to normal which is 45PSI. Check whether the tyres are not over-worn. If the central grooves is less than 2mm or the surface of tyre is worn, change the tyres immediately to avoid slipping on wet and smooth road.
- Check the electrical system: Check whether the battery can support your required mileage; if not, charge before your ride.
- Check the brake system: Check whether the brake and the function of brake to cut power are normal. If the power can not cut when braking, please do not ride and send the Scooter to authorized maintenance centr.
- Check other items: Check whether the Scooter (especially the F/R wheel) screws are tightened; whether the handlebar and saddle are well adjusted; whether the wheel lock is open; whether the kickstand is in right place; whether the rear view mirror angle is suitable (if applicable).

### Electric system

#### 1.battery assembly:

Use the battery handle grip to pull out battery or assemble it along the lead rail. Finally lock the battery.



Picture 1



Picture 2

Display use



|      |  |
|------|--|
|      | Turn on power switch, all lights flash immediately because of system self-check. When the display lamp is normally displayed, it can be used for riding; and turn off the electric system.                             |
|      | After turning on the power supply, press the lamp switch, lamp gets flash. Then press the lamp again, flash will be terminated.  |
| MODE | After turning the power supply, press the mode button, assistance power can be adjusted from 1 to 3 level. At the beginning of turning on, default 1 level.  |
|      | Battery display lamp: four lights flash means more than 75% battery power, three lights flash means 50% battery power, two lights flash means 25% battery power supply, one light flash means to be low battery power. |
|      | Speaker button   |
|      | D means forward, turn around the handle bar; R means reverse, turn around the handle bar   |



Charging

Because of transportation the battery may be low in charge. Please fully charge the Scooter before first ride. Use only the supplied lithium battery charger. Use of different chargers may cause serious injury to you and may damage the battery pack. Any consequences caused by this are the sole responsibility of the user. Charge the battery on the bike. Normally the battery is in the best condition after 10-12 times charging. Please charge the battery every one month if do not using for a long period of time

Charging procedure:

- ①Please check the voltage of charge with the battery and also with your local standards, and pay attention whether the output voltage and plug are of the correct voltage rating and type.
- ②Please ensure that place the charger and battery on a flat surface and keep in a well ventilated area. First connect the output plug of the charger into the charging socket of the electric bicycle, second connect the input plug of charger with your local power socket. Ensure the plugs and power socket are safe.
- ③When charging, the indicator lights are red. After 3-6 hours charging (depending on the remain electric quantity, the indicator lights change from red to green, which means the battery is fully charged. Now the battery can be charged more 1-2 hours to ensure completely full. Normally each charging can not exceed 12 hours.

# Product instruction

④After charging, first pull out input plug of charger from local power socket, then pull out output plug of charger from socket of the electric bicycle. Without being charged, it is forbidden to connect the charger to the power socket.

Charge attention:

①The charger should be used indoor with dry and good ventilation. Do not place anything on the charger or battery when charging.

②Non-professionals are forbidden to open the charger because it carries high voltage inside. Do not change the plug and wire unauthorized to avoid accidents.

③Please keep charger in somewhere can not be reached by young children.

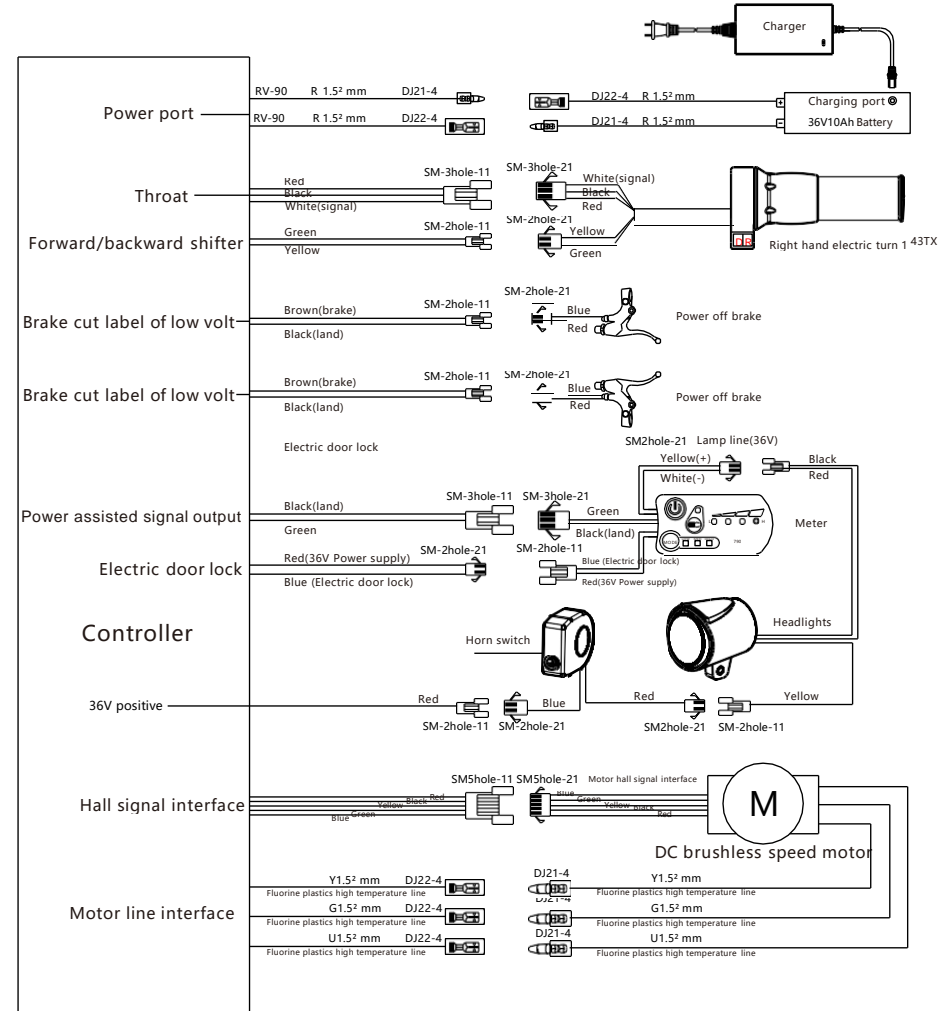
④Do not place the battery upside down or use it without fully charged, or it will seriously effect service life of battery.

⑤It is strictly forbidden to power switch on when the battery is charging.

⑥If peculiar smell or excess temperature occurred, stop charging immediately and send to authorized service center.

⑦Use only the supplied lithium battery and charger.

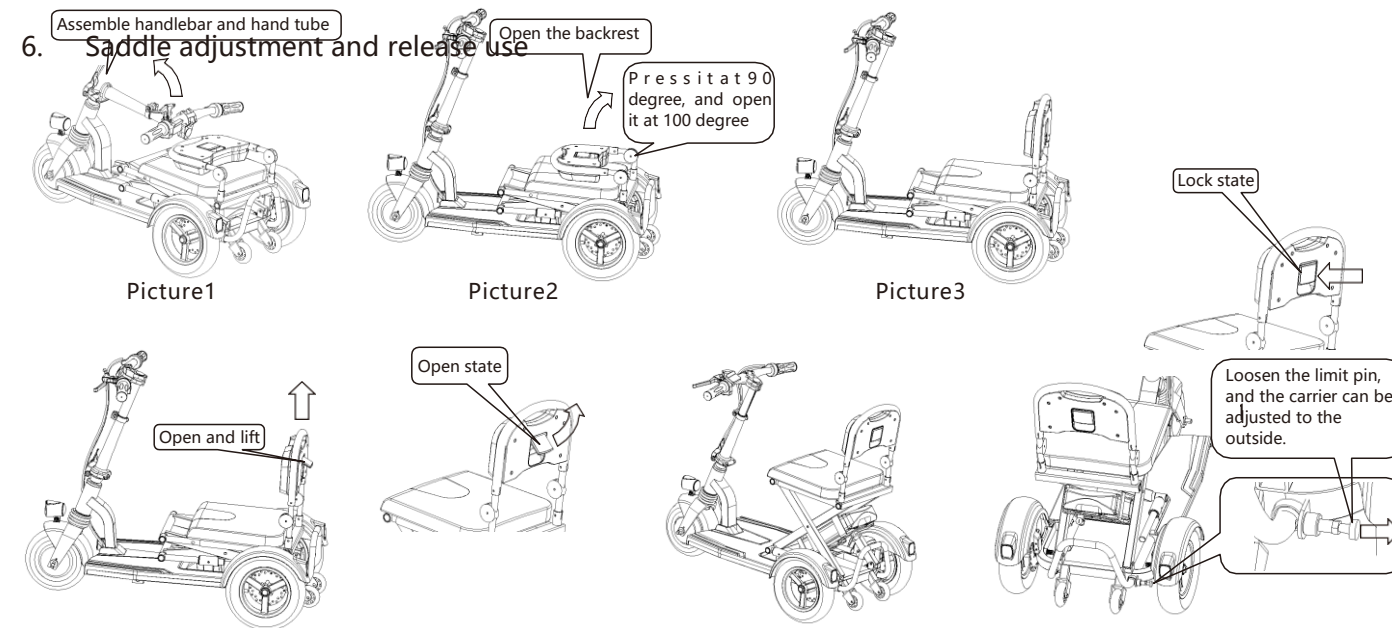
Schematic diagram of vehicle



## Maintenance and Care

1. Check the battery contact area, clean the dirty quickly in order to keep components be in good state.
2. Check the tyre before riding.
3. The Scooter should be away from wet and corrosive areas, which should avoid from chemical corrosion because of metal parts and pain parts. ( cut off the power supply switch when washing the scooter, you should not put motor, battery and controller electric system components into water)
4. Motor, battery and controller not to be opened, please do not disassemble it.
5. Lubrication of Scooter. According to use condition, please clean or lubricate the front axle, rear axle, front fork and rotating parts after half one year or one year use. molybdenum disulfide grease is better for use. Electric hub components have got special lubricating oil already, you should not lubricate them by yourself.

## Maintenance and Care



## Maintenance and Care

### 7. handle tube folding

When folding the handle tube, please press the lock to the lower position, and then open hook as the following picture. When unfolding the handle tube, lock should be in proper position in order to keep safety.

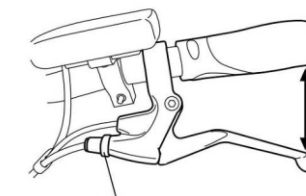


## Maintenance and Care

### 8. brake adjustment

(1) left brake crank for rear brake, right brake crank for front brake.

(2) Check the brake crank before using, when getting 1/2X brake journey, it can be used to start ride. Otherwise, you should adjust it by yourself. Firstly loosen the fixed screw, and then pull the brake wire. Use brake wire fasten screw. If feeling the brake loosen, please adjust brake slightly.



Parking button

9. If the following components has been changed by yourself, please lock it as following requirements.

| Parts                       | Standardtwist | Remarks                                     |
|-----------------------------|---------------|---|
| Locknut                     | 14 – 18 N.m.  | The press sticker cannot show out           |
| Stem                        | 20 – 25 N.m.  | The safety line of stem cannot be seen      |
| Seat screw                  | 18 – 20 N.m.  | The safety line of seat post cannot be seen |
| Seat and fix the seat parts | 18 – 22 N.m.  |   |
| Hub                         | 30 – 35 N.m.  |   |
| Hub nut                     | 35 – 40 N.m.  |   |
| Pedal                       | 18 – 20 N.m.  |   |
| Handlebar                   | 18 – 20 N.m.  |   |

## Maintenance and Care

### 10. Regular maintenance

I:Check A:Adjustment R:Replacement L:Lubrication T:Tighten

| Inspection items  | 60Days | 180Days | 360Days |
|---|--------|---------|---------|
| 1、 Handlebar rotation, steering parts are loose and wear. | A.T    | I.L2    | I.L2    |
| 2、 Tire inflation is appropriate, whether the tire wear.  |        | I       | R       |
| 3、 Front and rear axle, shaft bowl, shaft rod wear etc.   | T      | I.L2    | I.L2    |
| 4、 The brake shoe is worn.                                |        | R       | R       |
| 5、 Whether the rim is the deviation or not.               |        | I       | I       |
| 6、 Frame, front fork deformation damage.                  |        | I       | I       |
| 7、 Brake effect is good                                   | I      | I       | I       |
| 8、 Brake handle position is appropriate                   | A      | A       | A       |
| 9、 The reflector is contaminated or damaged               |        | I       | I       |
| 10、 The speaker is ringing, the headlights are bright     |        | I       | I       |
| 11、 Charger plug, power cord wear, broken.                |        |         | I       |
| 12、 Handlebar height is appropriate.                      | A      | A       | A       |

## Maintenance and Care

| Serial | Trouble phenomenon                           | Trouble reason   | Exclusion method  |
|--------|--|--|---|
| 1      | Show no electricity in the dashboard         | 1.The door lock switch is damaged                                | Exchange with the specifications of the electric door lock          |
|        |  | 2.Battery voltage is too low                                     | Will battery  |
|        |  | 3.Fuse   | Replace the same size fuse  |
| 2      | Show electricity but the motor does not work | 1.Battery wiring loose   | Repair reconnection   |
|        |  | 2.Speed control wire loose wire loose                            | Repair welding  |
|        |  | 3.Motor plug, socket loose or damaged                            | Repair station  |
| 3      | After a lack of battery mileage              | 1.Tire pressure shortage   | Sufficient gas  |
|        |  | 2.Tire pressure shortage   | Electric or repair charger  |
|        |  | 3.Battery aging or damage  | Replace battery   |
|        |  | 4.Luff, frequent starting braking uphill, heavy load.            | Artificial pedal power is recommended                               |
| 4      | Charger no charge                            | 1.Charger plug, socket off or contact with bad.                  | Strong plug and socket. Remove dirt                                 |
|        |  | 2.Fuse the battery case  | Replacement of fuses with specifications                            |
|        |  | 3.Battery pack wiring off  | Welding wire  |
| 5      | Other failures                               | 1.According to the above guidance can not automatically rule out | Please find a supplier or repair station for repair                 |
|        |  | 2.Motor, controller, charger, battery pack internal damage.      | Without opening the above parts, the company can lose its guarantee |



# After sales service

**Dear user:**

The following warranty times and indicated below. For all warranty claims or questions on Service please contact Wattwheels or your local dealer where purchased.

Please refer to our detailed warranty terms on our website. – [www.wattwheels.co.nz](http://www.wattwheels.co.nz)

| Serial | Component name         | “Three guarantees” term | Fault                   | Remarks   |
|--------|------------------------|-------------------------|-------------------------|---|
| 1      | Motor                  | 24 months               | Performance failure     | With the vehicle to change the condition, according to the whole electric controller, battery, part, what change what damage. |
| 2      | Battery                | 24 months               | Performance failure     |   |
| 3      | Charger                | 12 months               | Performance failure     |   |
| 4      | Controller             | 12 months               | Performance failure     |   |
| 5      | Speed control transfer | 12 months               | Performance failure     |   |
| 6      | Power brake            | 12 months               | Performance failure     |   |
| 7      | Frame                  | 36 months               | Fracture or desoldering |   |
| 8      | The front fork (Shock  | 24 months               | Fracture or desoldering |   |
| 9      | Handlebar              | 12 months               | Fracture or desoldering |   |

