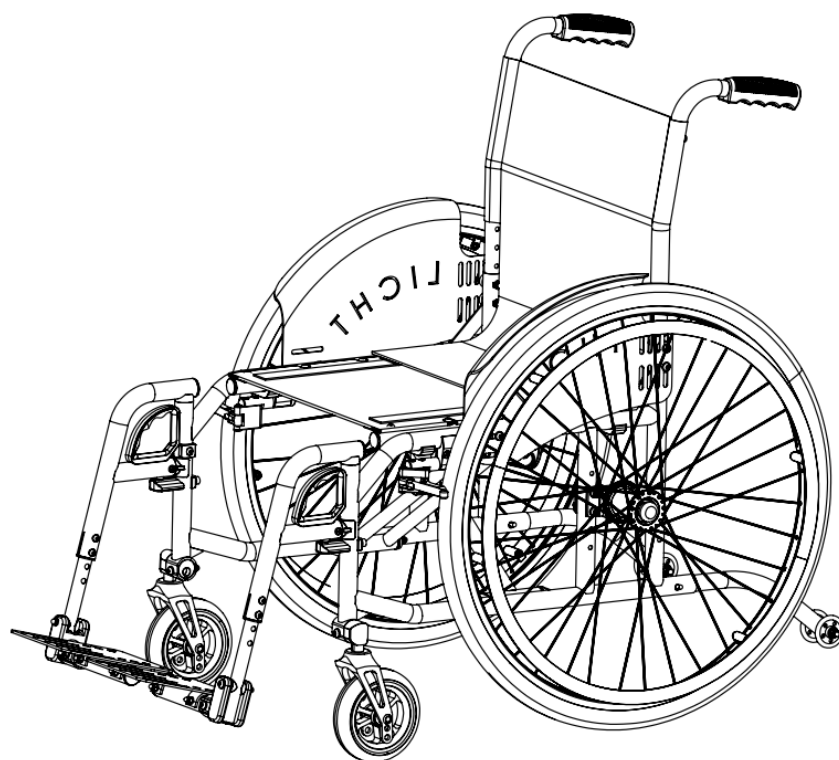


VOLARI

Titanium Manual Wheelchair Operation Instructions



We would like to express our sincerest gratitude to you for choosing our company's wheelchair.
Before you start using it, please carefully read this "User Manual",
To ensure the correct use of this product.

Manual Wheelchair

Model: See table

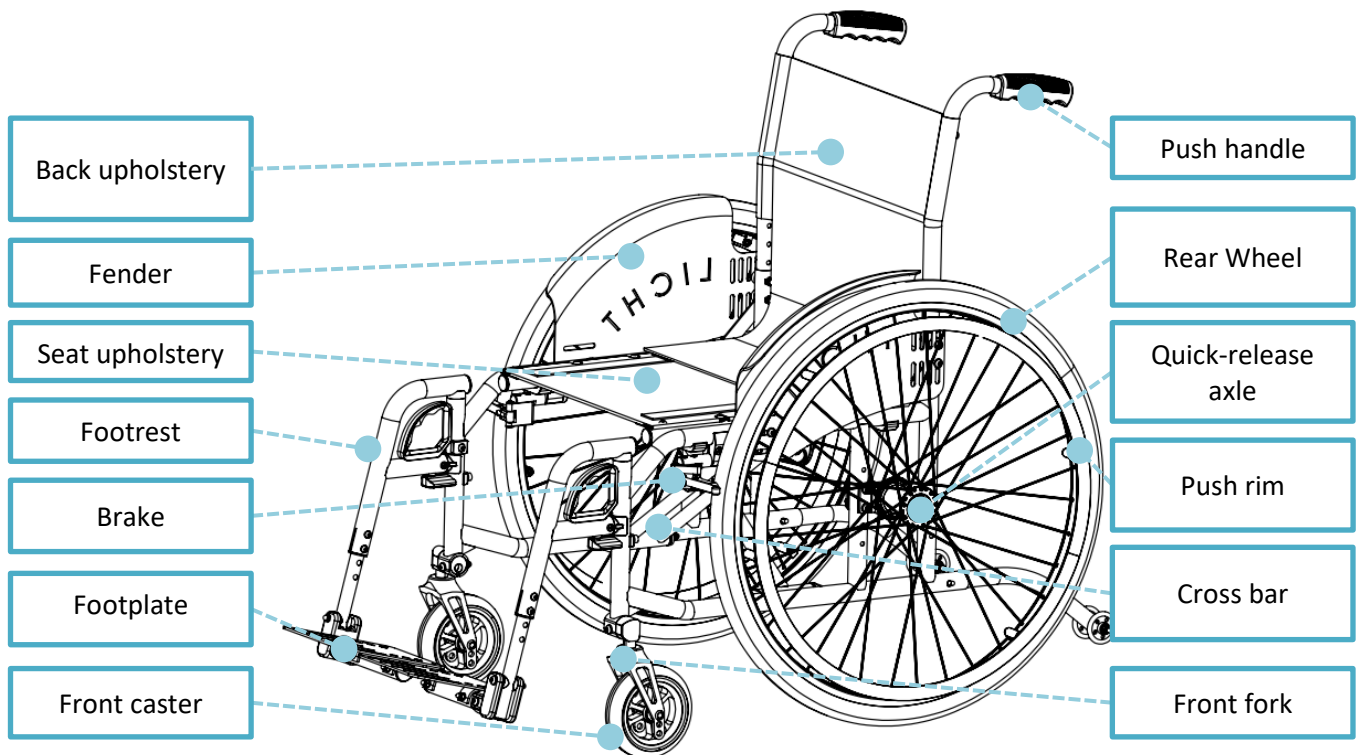
(Please Note: Following pictures and wheelchair you received may be different, please in kind prevail.)

MW30/MW31: Self-Propelled and Transportation wheelchair with 24" tune rear wheels

Wheelchair Function Table

Function	Model	
	MW301601Ti	MW311801Ti
Flip up footplate	✓	✓
Footrest length adjustment	✓	✓
Swing away footrest	—	✓
COG of rear wheel adjustment	✓	✓
Backrest height adjustment	✓	✓
Front castor adjustment	✓	✓
Brake adjustment	✓	✓

1. Simple Structure *Figure*



2. General Safety *Instructions*

- 2.1 Please read the instructions for use first! Before using the product, you should be familiar with the handling, function and use of the product. You may compromise your safety if you do not observe these instructions. However, it is impossible to protect against and avoid all unforeseeable circumstances and situations.
- 2.2 Do not ascend or descend stairs without the assistance of attendants. If devices such as ramps or elevators are available, they should be used. If wheelchair-friendly access is missing, two attendants must carry the wheelchair over the obstacle.
- 2.3 If possible, the footplates should be flipped up before getting into or out of the wheelchair.
- 2.4 Risk of accident when driving without experience. This can lead to falls and other dangerous situations. Therefore, familiarize yourself with the new wheelchair by practicing on even, straightforward terrain first. Learn how the wheelchair reacts when the center of gravity shifts; for example on slopes or inclines or when clearing obstacles such as steps and curbs. This should be done only with the assistance of another person. Using an anti-tipper is strongly recommended for inexperienced wheelchair users.
- 2.5 All brakes acting on the tires do not serve as service brake but are only designed as parking brake (wheel lock). The wheel locks must not be used as driving brakes for slowing down the wheelchair, as in extreme cases, the abrupt stopping of the wheelchair can lead to falls.
- 2.6 Risk of damage caused by overload. The maximum load capacity is 120kg.
- 2.7 The drive wheels must be replaced in case of tire damage or damage on the rim.
- 2.8 These standard wheelchairs are **not approved** for transportation in a vehicle for the disabled. Wheelchair users must always transfer to the seats installed in the motor vehicle, Non-observance of these instructions could lead to injury of the user, as well as of all other passengers in the motor vehicle in the event of an accident.

3. Delivery and Preparation for Use

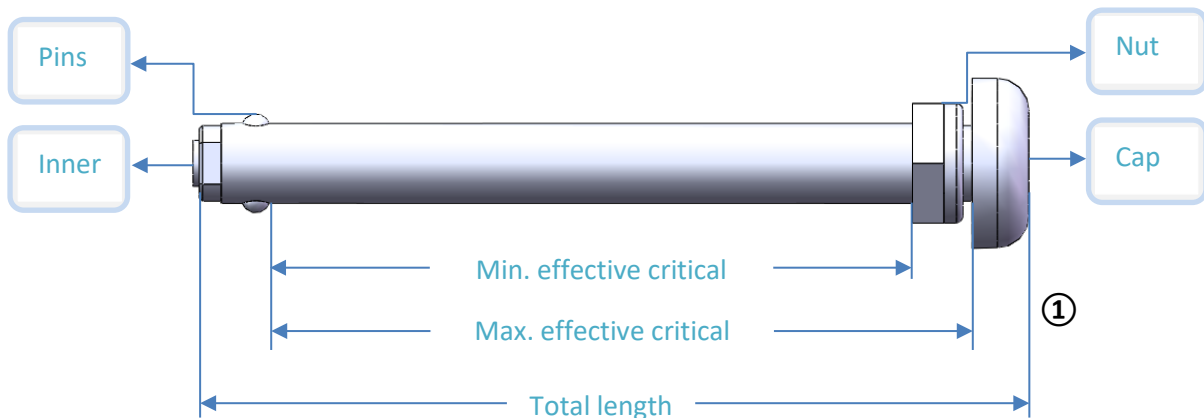
Your wheelchair is usually delivered fully assembled, folded, and with the rear wheels mounted. A few simple steps are sufficient to prepare it for use (e.g. in model **MW311801Ti**).

The rear wheels of **Model MW311801Ti** were unassembled because it is with quick-released function, its wheels and axles are labeled with a letter **R** (right) and **L** (left) for a proper assembly. Please refer step 3.1 to assemble firstly before use.

The contents in the packaging carton box are as follows:

1. Folded wheelchair
2. Disassembled rear wheels (model MW311801Ti) attached to the 24-inch rear wheels
3. Accessories box
 - Footrest
 - Pre adjusted Quick release axles identified with **R** (right) and **L** (left)
 - Wrenches (Allen or hexagonal depending on the wheelchair model)
 - User manual for use

3.1 Install rear wheels by Quick-Release axles (Figure ①)



Press and hold the cap of axle, insert the center hole of rear wheel, and then insert the hole of wheelchair frame. (Figure ②)

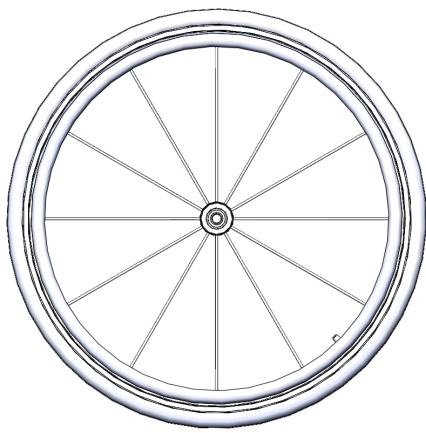
Install the left axle and left rear wheel to the left side of the chair and install the right axle and right rear wheel to the right side of the chair. To determine about the sides of the wheelchair, unfold the chair and stand behind it, holding the handles: right and left side will be your right and left hands subsequently.

Confirm the pins is complete upspring and locked the axle and rear wheels; if the pins are not complete upspring, the inner rod is protruding at the same time, this is a sign that the axle needs to be adjusted. A wrench will be needed to move the nut while keeping the axle in a fixed position. Please adjust the nut of axle to increase the effective critical length from pins to nut, until the pins are complete upspring and the inner rod is inside the axle. Please note to check the axles frequently during use, if find the pins can't be upspring and/or the axles can't work, have to replace it at once and please don't use wheelchair when the axles are broken or defective.

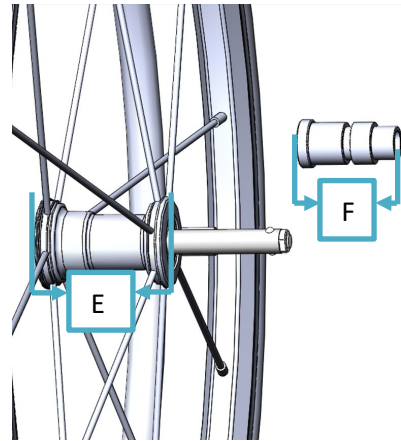


Warning: Replacement axles are not adjusted to your chair. They must be adapted following the steps in this paragraph for a proper assembly of the wheels. Please observe the side (R, L) during adaptation.

Please note, the critical length couldn't be longer too much than width of E plus F (Figure ③ item E, F), otherwise will cause the rear wheels shaking.



②

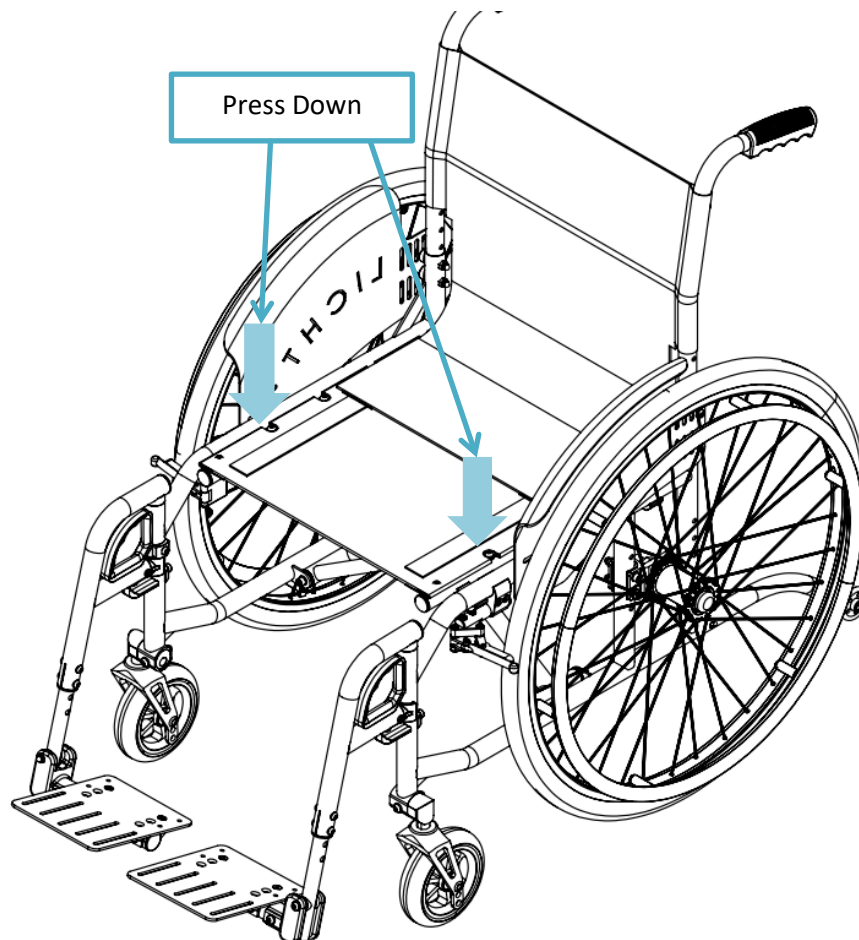


③



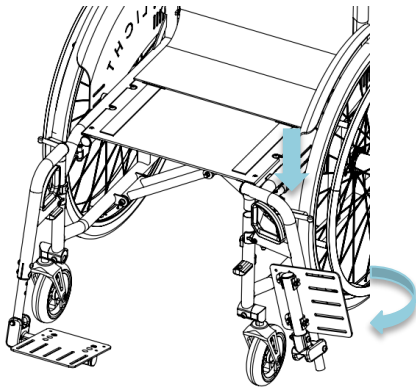
Warning: Before use wheelchair, please do confirm the rear wheels were fully inserted and settled, otherwise maybe cause the rear wheels detaching and personal injury and please adjust as above method.

- 3.2 Stand next to the wheelchair, grasp the frame, open the wheelchair, stretch both hands flat, and press the seat cushion into place until fully extended (Figure ①)

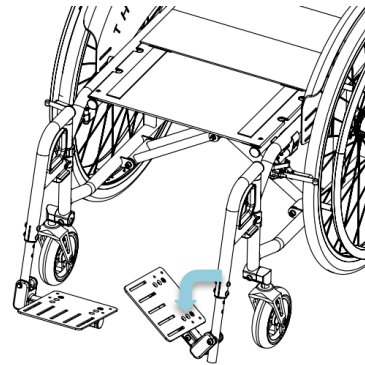


①

3.3 If applicable, insert the footrests into the receivers from the side (Figure ②). Turn the footrests inward until locking to the right place. Finally, fold down the footplates after getting into wheelchair (Figure ③). If user wants to leave from wheelchair or stand up, please fold the footplates firstly.



②

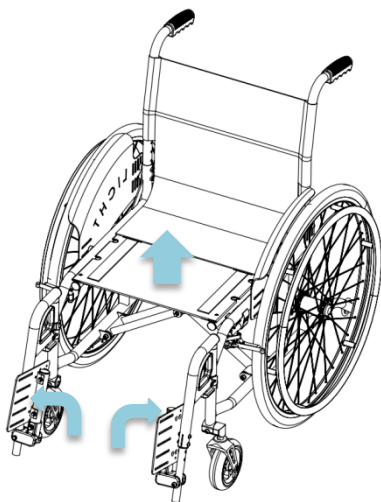


③

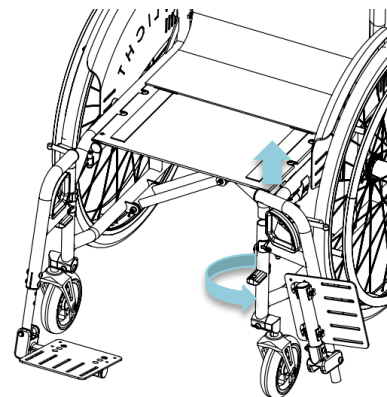
4. Transportation (Flip up Footplate and Swing away footrest)

Grab the middle of seat upholstery at the front and the back and pull it upwards, the wheelchair will be folded (Figure ④).

For more manageable transportation, e.g. in cars, the footrests can be entirely removed in just a few of easy steps. To move the footrest, press the release lever to the inside (Figure ⑤). The footrest with footplate can then be swung outward by 90° and be removed by pulling it upward. Some models of wheelchairs have fixed footrest, which can be folded directly by folding the foot pedals.



④



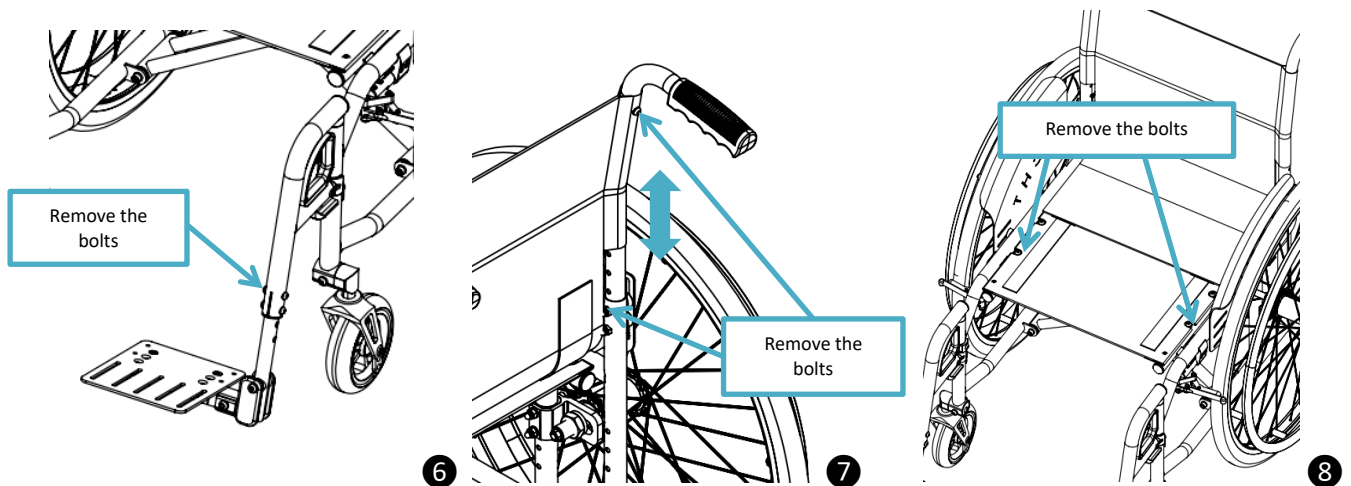
⑤

5. Footrest length **Adjustment**

The height of standard footrests can be changed with tools (Figure 6). To release the screws and then adjust the height to right place for user, finally tighten the screws.

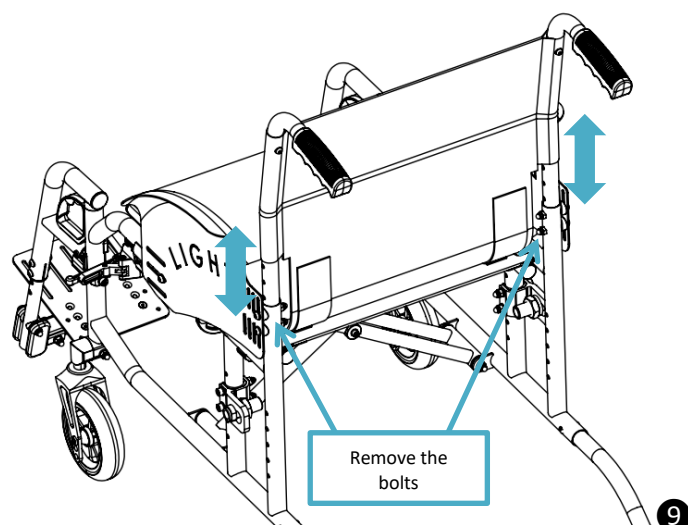
6. Replacing the Seat and back **upholstery**

- 6.1 Use a screwdriver to remove the bolts that fix the backrest tube to the frame, extract the backrest tube and backing pad, loosen the bolts that fix the backing pad, and replace it with a new one. (Figure 7).
- 6.2 Use a screwdriver to remove the bolts connecting the seat cushion and seat tube, extract the pressure strips on both sides, and replace the seat cushion with a new one. (Figure 8).



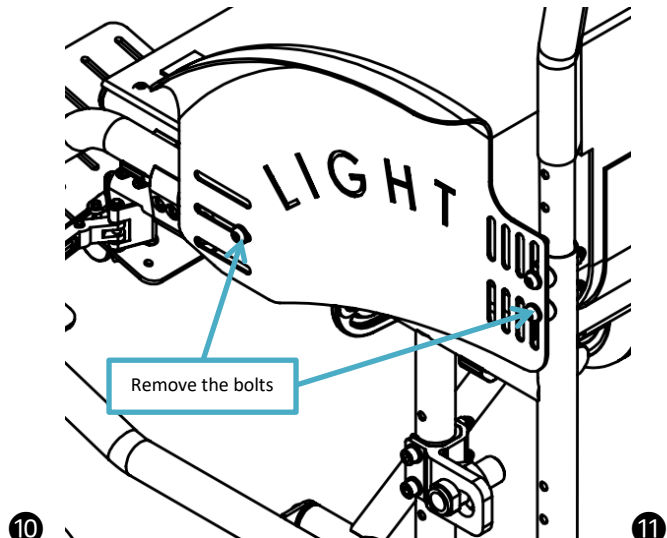
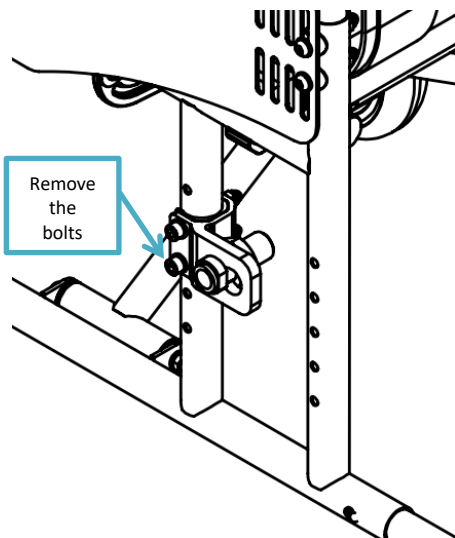
7. Backrest **Adjustment**

In order to adjust the height of the backrest, it is recommended that you remove the rear wheels first. Then loosen the bolts on both sides and adjust the frame to your desired height (Figure 9). For reassembly, please proceed in reverse order. Firmly retighten the screw connection.



8. COG Adjustment

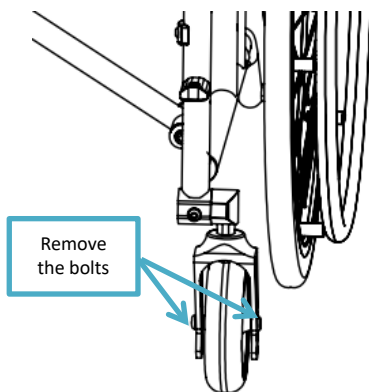
The center of gravity of the wheelchair can be changed by adjusting the position of the rear wheels. Remove the rear wheel, loosen the two bolts, take out the rear wheel fixing block, select the appropriate hole position to lock the fixing block, and adjust the protective plate to the corresponding position to ensure that the protective plate does not interfere with the rear wheel. Finally, install the rear wheel. (Figure 10 11)



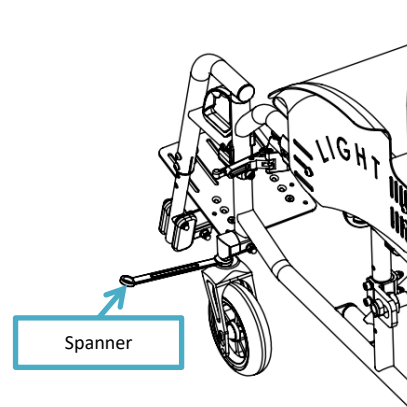
9. Replacing Front casters, Front casters unit and Front caster angle Adjustment

9.1 If necessary, the front wheels can be removed / installed with an open-end wrench/ring wrench and an Allen wrench (Figure 12). For reassembly, please proceed in reverse order. Firmly retighten the screw connection.

9.2 If necessary, the front wheels unit can be removed / installed with an open-end wrench/ring wrench. Loosen and remove the nut above the caster mounting (Figure 13). Pull the fork with the axle out of the frame. Replace the front wheels unit. For reassembly, please proceed in reverse order. Firmly retighten the screw connection.

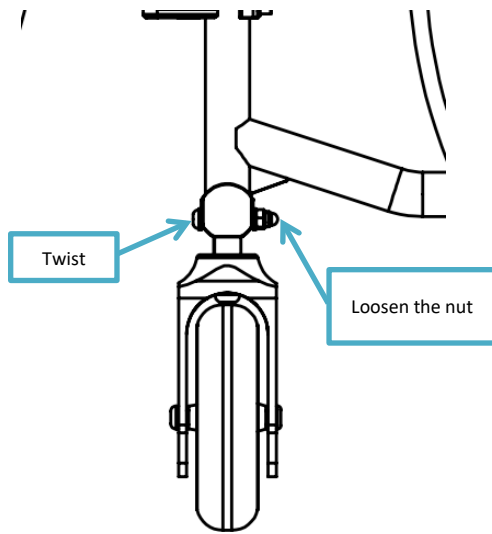


12

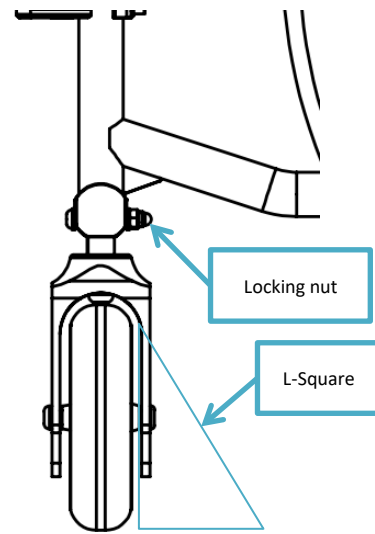


13

9.3 To ensure the functionality of the front wheels, the front wheel assembly needs to be in a vertical position with the ground. Loosen the nut and use an Allen wrench to turn the nut left and right to adjust the angle between the front wheels and the ground to a vertical position. Use a square ruler to correct it before locking the nut. (Figure 14 15)



14

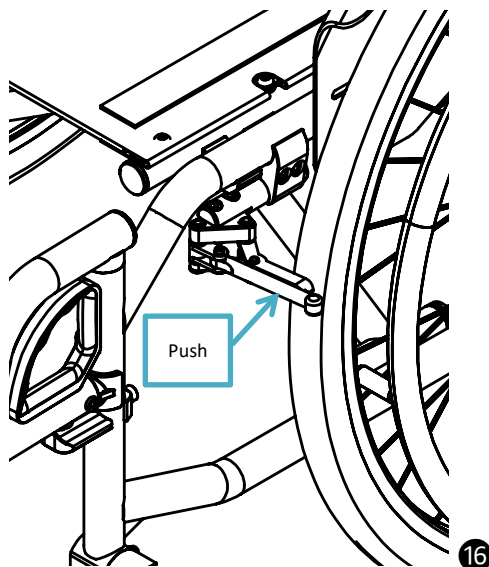


15

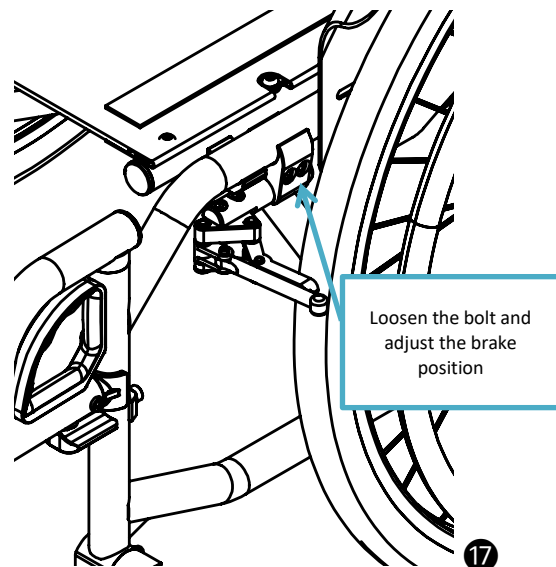
10. Usage and Adjustment of Brakes

10.1 The brake is only used to lock the rear wheels when the wheelchair is in a stopped state, and cannot be used to brake or slow down the wheelchair during exercise or movement, otherwise it may easily cause the user to overturn or fall. Push the brake with your hand to lock it. (Figure 16)

10.2 Users can use an Allen wrench to loosen the bolts on the brake bracket and change its position to adjust the distance between the brake and the tires, thereby adjusting the braking force. (Figure 17)



16



17

11. Maintenance, Cleaning and Disinfection

11.1 Maintenance

<i>Check</i>	<i>Before each use</i>	<i>Monthly</i>	<i>Quarterly</i>
<i>Function test of the wheel locks</i>	X		
<i>Sagging of the seat and back upholstery</i>		X	
<i>Check stability of footplate</i>		X	
<i>Visual inspection of wear parts (e.g., tires, bearings)</i>		X	
<i>Dirt on bearings</i>		X	
<i>Push rings for damages</i>		X	
<i>Folding mechanism for wear and tear</i>		X	
<i>Spoke tension of the rear wheels</i>			X
<i>Screw connections</i>			X

- The proper function of the wheelchair, especially of the wheel locks, quick-release axles and brakes, should be checked before every use. Safety nuts should be used only once. If they have been loosened several times, these nuts must be replaced.
- Should any problems or wear be encountered, please contact your authorized specialist dealer immediately in order to have them corrected. This is particularly important if you notice that the driving characteristics change or the wheelchair becomes less stable. We also recommend that you have the wheelchair maintained regularly at 12-month intervals by your authorized specialist dealer. The functions described in the following list must be verified by the user at the specified intervals.
- To ensure smooth operation at all times, the following precautions and cleanings should be carried out. Users may carry these out themselves.
- Hair and dirt particles generally accumulate between the caster wheel and fork. This can restrict the caster wheels from rotating smoothly. Remove the casters and thoroughly clean the forks and casters using a mild household cleaner.
- If your wheelchair gets wet, towel dry it as soon as possible.
- Do not use the wheelchair in salt water and keep sand or other particles from damaging the wheel bearings.
- Screw connections should be checked frequently, in particular when beginning to use the wheelchair and after any adjustment. If a screw connection comes loose repeatedly, please consult your specialist dealer.

11.2 Cleaning and Disinfection

- Clean the upholstery with warm water and a washing-up liquid. Remove spots with a sponge or a soft brush. Rinse with clear water and let the components dry.
- Do not use any aggressive cleansing agents, solvents, or hard brushes etc.
- No wet-cleaning. Components are not machine washable. For disinfection, water-based agents should be used. The manufacturer's instructions for use must be observed.
- Before disinfecting, the pads and handles must be cleaned. Plastic parts, frame parts as well as chassis and wheels can be cleaned with a mild detergent. Dry thoroughly afterwards.

12. Re-use / Disposal

12.1 Information on Re-Use

The product is suitable for re-use. Similar to second-hand machines or cars, products that are being re-used are subject to increased strain. Features and functions must not change in a way that could endanger patients or other persons within the product's life cycle.

Based on market observations and the current state of technology, the manufacturer has calculated that the product can be used for a period of 4 years, provided that it is used properly and that the service and maintenance instructions are observed. Periods during which the product is stored at the dealer or with the third-party payer are not included in this period. It should be clearly pointed out, however, that the product is reliable far beyond this defined period of time, provided that it is cared for and maintained appropriately.

In cases of re-use, the affected product must first be thoroughly cleaned and disinfected. Subsequently, the product must be examined by an authorised specialist to check the condition, wear and possible damage. Any worn and damaged components as well as components which do not fit or are not suitable for the user must be replaced.

12.2 Information on Disposal

If a product is to be disposed of, all components of the product must be disposed of properly in accordance with the applicable environmental protection regulations in the respective country.

13. Specifications & Measurements

Specifications	MW311801Ti	MW301601Ti
Style	Self-propelled	Self-propelled
Surface finishing	Powder coating	Powder coating
Frame	Titanium and foldable	Titanium and foldable
Guard board	Curved protective plate	Curved protective plate
Seat and backrest	Oxford fabric +PU upholstery	Oxford fabric +PU upholstery
Cross bars	Seat width 40 with single	Seat width 40 with single
Footrest	Swing away footrest with leg strap and height adjusted	Fixed foot pedal with leg straps, adjustable height
Rear wheel	24" tune rear wheel with PU tire and quick-released axles	24" tune rear wheel with PU tire and quick-released axles
Front wheel	5"x1.5	5"x1.5
Hand rim	Aluminum alloy	Aluminum alloy
Front fork	Aluminum alloy with black anodized	Aluminum alloy with black anodized
Footplate	Carbon fiber	Carbon fiber
Anti-tipper	Removable anti-tipper (Optional)	Removable anti-tipper (Optional)
Brake	High strength plastic brake	High strength plastic brake
Measurements	MW311801Ti	MW301601Ti
Total length	1070mm	1040mm
Total width	670mm	620mm
Total height	780mm-860mm	780mm-860mm
Folding width	330mm	330mm
Seat width	460 mm	410mm
Seat depth	410mm	410mm
Backrest height	380mm	380mm
The back of seat to floor	425mm	425mm
The front of seat to floor	440mm	440mm
Net weight	12.8kg	12.4kg
Footrest to seat distance	350mm-430mm	350mm-430mm
Gross weight		
Weight capacity	120kg	120kg
Carton size		

(Please note, above measurements of wheelchair were hand-measuring, the wheelchair you received may be different, please in kind prevail.)

14. Warranty

Warranty	Warranty Period	Remarks
Frame	1 Year	Non-Deliberate Damage
Vulnerable parts	3 Months	Plastic parts, Tires, Seat and Back, Armrest pad, Footplate pad.

- The purchasing date is the starting date of warranty period (Need to provide credential).
- User need to take the warranty card and invoice if need to repair during the warranty period. It will have to be charged fee without warranty evidence.
- We have to charge for labor cost and materials cost due to the expiration of warranty period, freight cost will be paid by user.

WARRANTY CARD

[illegible]

Manufacturer Information

Name: LichtMega Technology Co., Ltd

Address: #101, No. 200, Cangjing Road, Songjiang District, Shanghai, China

Tel: +86-021-57898620

Fax: 0086 21 55036385

Email: info@lichtmega.com

Website: <https://lichtmega.com/>