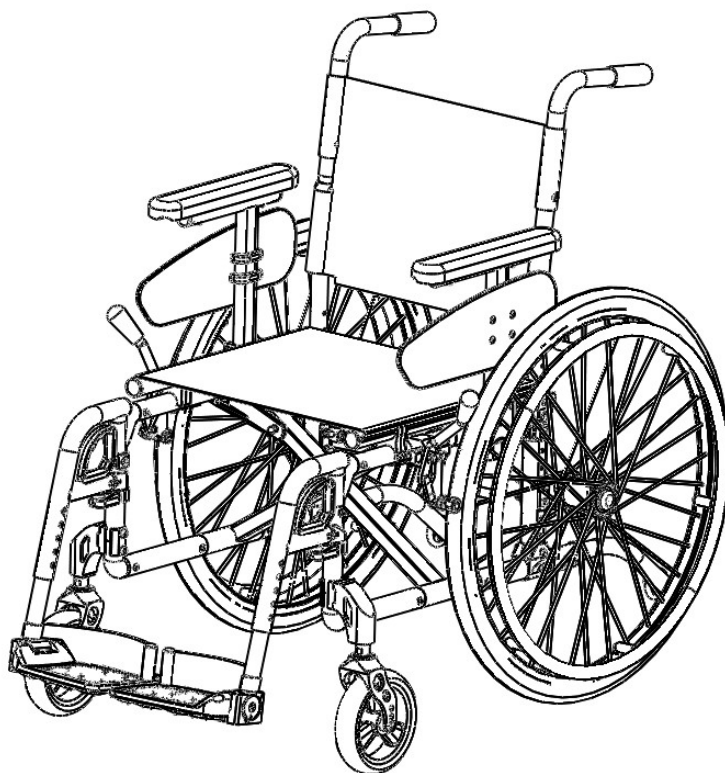


VOLARI

Magnesium Manual Wheelchair FLEX MG 140 User Manual



ATTENTION:

Please carefully read and understand the information in this User Manual before using this product.

Please note that the images in this manual are for illustrative purposes and may slightly differ from the actual product.

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Manual Wheelchair

MW18

1. Manual Wheelchair Structure Overview



1. General Safety Instructions

Before using FLEX MG 140 Magnesium Manual Wheelchair, carefully read this manual.. Familiarize yourself with its handling, functions, and proper use. Not following these instructions may compromise your safety. Please note that while this guide reduces hazards, not all unforeseeable situations and circumstances can be prevented.

Do not attempt to go up or down the stairs without any help from attendants. Always use ramps or elevators when available. If these routes are unavailable, at least two attendants must safely lift and carry the wheelchair over the obstacle.

Whenever possible, raise the footplates before sitting in or leaving the wheelchair.

Using a wheelchair without prior experience increases the potential risk for accidents. Always practice first on level ground to understand how the wheelchair responds to shifts in balance, such as when moving on slopes, inclines, or over curbs and steps. Practice should only be done with the assistance of another person. We strongly recommend inexperienced wheelchair users to use anti-tippers for additional safety measures.

The brakes on the tires, called wheel locks, are designed only as parking brakes. They must not be used as service brakes to slow down the wheelchair. This could trigger an abrupt halt, heightening the risk of the wheelchair tipping or a fall occurring.

⚠ Warning: The FLEX MG 140 Wheelchair's maximum load capacity is 120 kg. Overloading can lead to equipment damage and possible accidents.

Replace the drive wheels immediately if you notice damage to the tires or rims. Operating the wheelchair with damaged wheels can endanger safety and reduce performance.

These standard wheelchairs are not approved for use as seats in motor vehicles. Users must always transfer to the vehicle's installed seats. Failure to follow this instruction may result in serious injury to the user and other passengers in the event of an accident.

2. Delivery and Preparation for Use

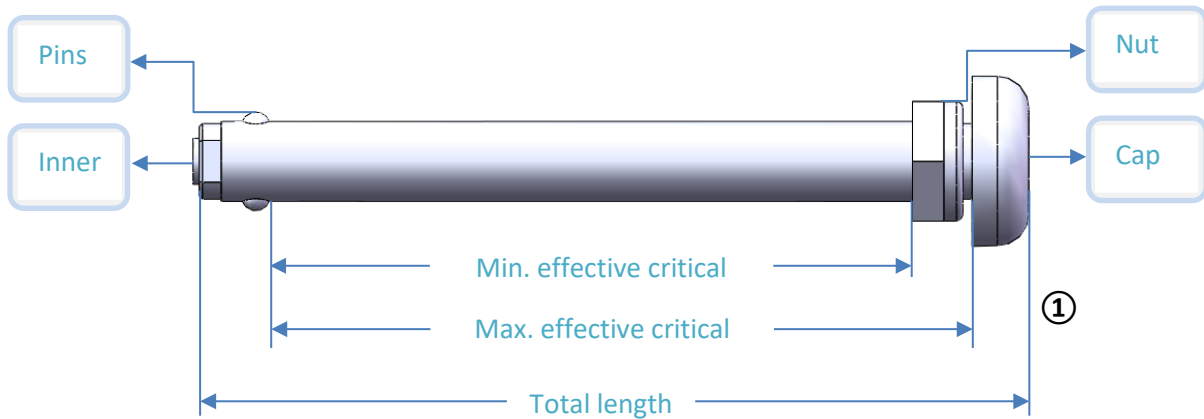
Your wheelchair is normally delivered fully assembled, folded, and with the rear wheels mounted. In some cases (e.g. in model MW18), the rear wheels are not installed due to the quick-release function. Each wheel and axle is marked with R (right) or L (left) to ensure correct installation. Please follow the assembly steps provided in this manual.

2.1 Assembly Instructions

The list of FLEX MG 140 Wheelchair components inside the packaging carton box are as follows:

1. Folded wheelchair
2. Disassembled rear wheels (model **MW18**) 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)
 - One 2.5 Hex socket
 - One 4 Hex socket
 - One 5 Hex socket
 - One 10 spanner
 - One Inflator
 - User manual for use

2.2 Installing the Rear Wheels with Quick-Release Axles (Figure 1)



Start by pressing and holding the axle cap. Insert the center hole of the rear wheel, then insert the hole of the wheelchair frame (see Figure 2).

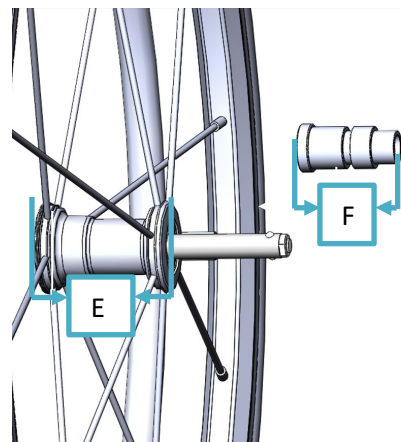
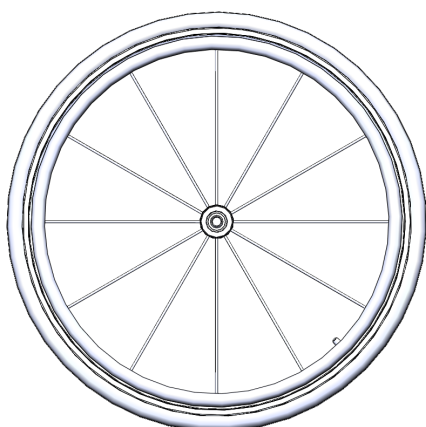
Connect to the left side of the wheelchair the left axle and wheel, and the right axle and wheel to the right side. To easily identify each side. Unfold the wheelchair and stand behind it, holding the push handles. The side on your right hand is the wheelchair's right side, and the side on your left hand is the wheelchair's left side.

Check that the pins are fully sprung with the axle and rear wheels securely locked. If the pins do not spring up and the inner rod is protruding, it means the axle needs to be adjusted. Hold the quick-release axle in place and use a wrench to tighten or loosen the nut. Adjust the axles until the pins are completely locked and the inner rod is not showing anymore.

Make it a habit to regularly check the axles. If the pins fail to spring or the axles show any signs of malfunction, stop using the wheelchair and replace the axle immediately. Please do not use a wheelchair with broken or defective axles as they may cause accidents.

⚠ Warning: Replacement axles are not automatically adjusted to your wheelchair. For safe and proper wheel installation, they must be adapted using the steps provided in this paragraph. Carefully observe the labels to the side markings— "R" for right and "L" for left—during assembly.

The critical length must not exceed the combined width of items E and F (see Figure 3). If the critical length becomes too long, it may cause the rear wheels to wobble during use.



⚠ Warning: Before using the wheelchair, ensure the rear wheels are fully inserted and properly secured. Failure to do so may cause the wheels to detach, thus resulting in personal injury. Adjust the wheels by following the method provided above.

2.3 Inflating the Tire

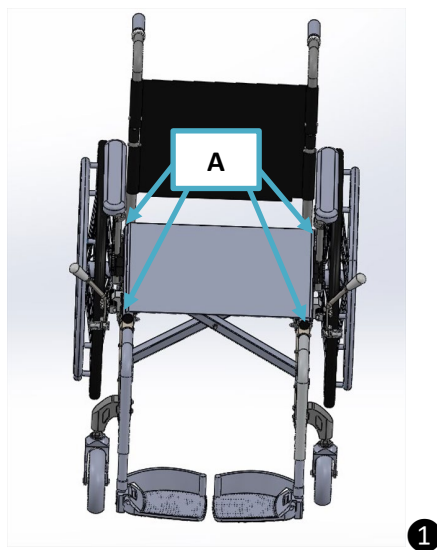
When the tire has no air pressure, it must be inflated to the recommended range of 60–80 PSI.

STEPS:

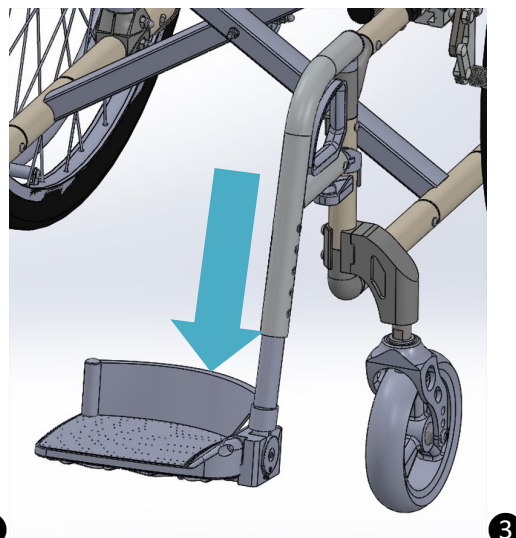
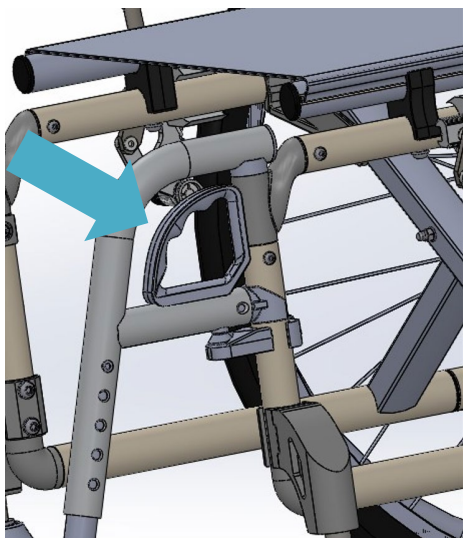
1. Take the supplied air pump out of the accessory box.
2. Find the valve situated at the tire's inner hub.
3. Securely attach the pump nozzle to the valve.
4. Inflate the tire with a steady pumping action.
5. Use a pressure gauge to check the air pressure regularly. Continue until the tire reaches 60–80 PSI.
6. Take off the pump nozzle slowly to ensure no air leaks from the tire.
7. Secure the valve cover to avoid dust and debris from entering the valve

⚠ Warning: Keep tire pressure at or below 80 PSI to ensure safety. Over-inflation may damage the tire or cause injury.

- 2.4** Place your hands flat on the seat and gently push down to unfold the wheelchair(Figure 1) while standing beside it. Ensure the telescoping bars (item A) are fully collapsed and the seat upholstery is fully stretched out.

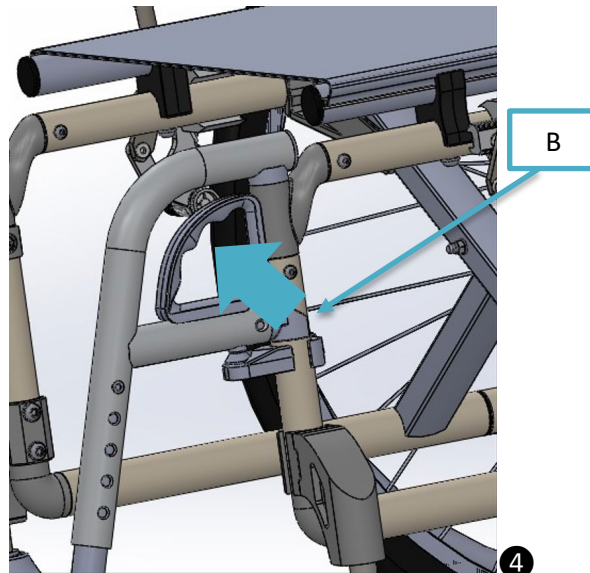


- 2.5** Where applicable, Insert the footrests into the side receivers if needed (Figure 2), then swing them inward until they lock firmly. Turn the footrests inward until they click securely into position. After sitting in the wheelchair, fold down the footplates (Figure 3). Before the user stands up or leaves the wheelchair, always fold the footplates upward first.



3. Transportation

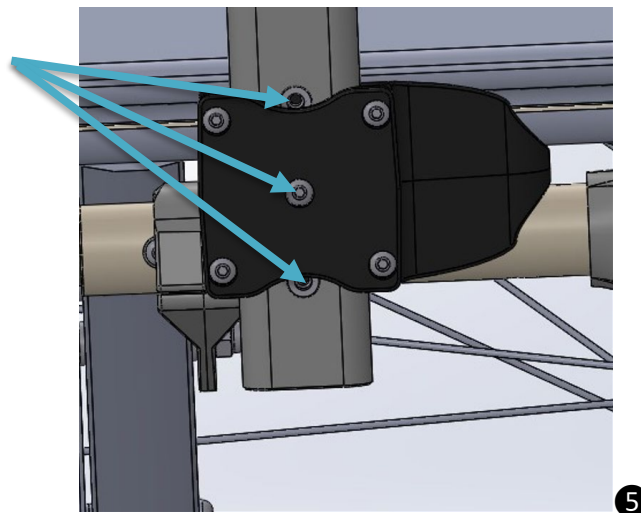
1. Grab the middle of the seat upholstery at the front and back, then pull it upwards to fold the wheelchair.
2. For a convenient transport (e.g., in vehicles), remove the footrests:
 - Push the release lever toward the frame (Figure 4, item B).
 - Swing the footrest with the footplate outward by 90°.
 - Pull upward to remove the footrest completely.



4. Armrest Usage

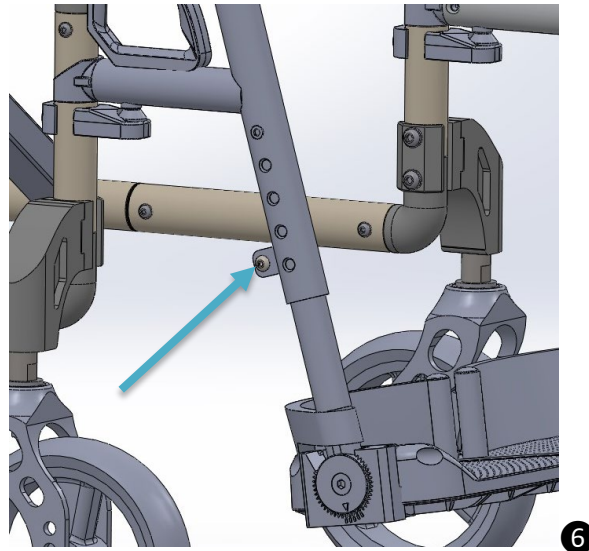
The armrest height can be adjusted for user comfort.

1. Using tools, loosen the screws on the fixing plate (Figure 5).
2. Adjust the armrest to the desired height, then re-tighten the screws securely.
3. The handrail tube includes three preset holes—low, medium, and high—each spaced 1 inch apart, allowing the user to select the most comfortable position.



5. Footrests *Adjustment*

Loosen the screws, move the footrest to the desired position, and then re-tighten the screws securely to ensure safety and stability. (Figure 6).



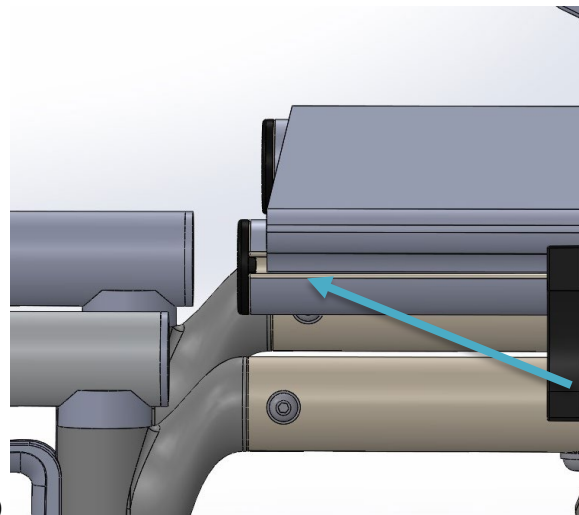
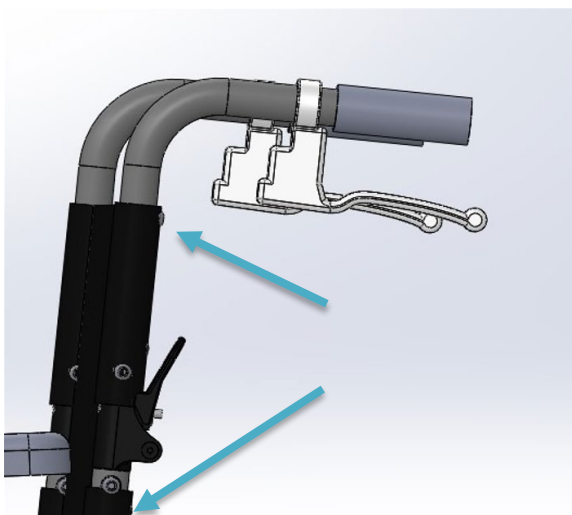
6. Seat Upholstery *Replacement*

Back Cloth Replacement

1. Using a screwdriver, loosen and remove the screws that hold the back cloth in place (Figure 7).
2. Remove the old back cloth and align the new one.
3. Reattach the screws and tighten them firmly to secure the cloth.

Seat Cushion Replacement

4. Use the appropriate tool to take out the pipe plugs from both ends of the crossbar (Figure 8).
5. Take out the worn seat cushion and fit in the replacement securely.
6. Insert the pipe plugs back into place and ensure they are secure.



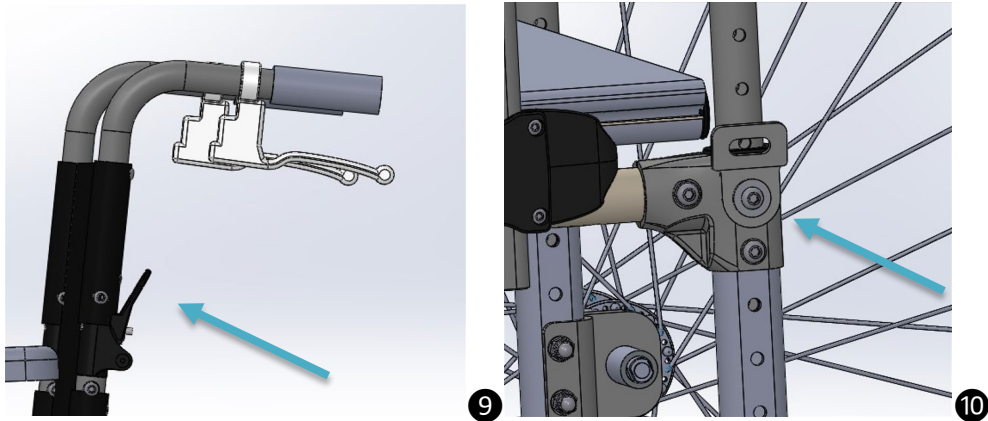
7. Backrest Adjustment

Backrest Folding

1. Press gently on the backrest to bend it (Figure 9).
2. To reassemble, return the backrest back to its original folded position.

Backrest Height Adjustment

1. Remove the rear wheels for easier access.
2. Loosen the bolts on both sides of the backrest frame (Figure 10).
3. Slide the frame to your preferred height.
4. Reassemble the wheelchair in reverse order.
5. Retighten all screws securely before use.



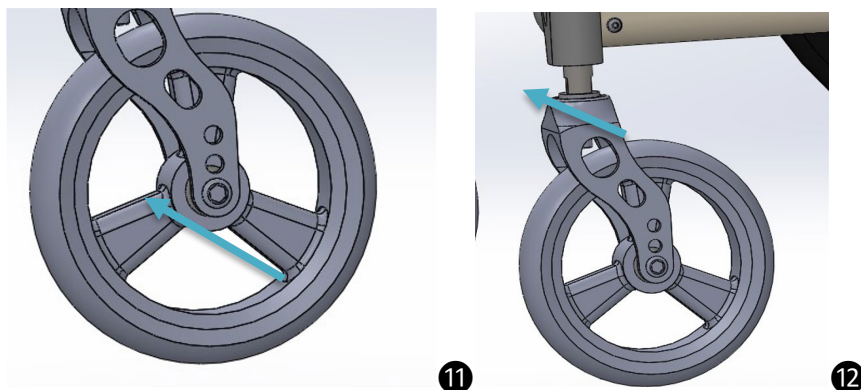
8. Front wheels/Front wheels unit Replacement

Front Wheel Removal (Figure 11)

1. Using an open-end/ring wrench and an Allen wrench, loosen the screws.
2. Remove the front wheel.
3. To reinstall, reverse the steps and ensure screws are fully tightened.

Front Wheel Unit Removal (Figure 12)

1. With an open-end/ring wrench, loosen and remove the nut above the caster mounting.
2. Pull the fork and axle assembly out of the ball bearings.
3. Replace with the new wheel unit.
4. Reassemble in the opposite sequence, making sure every connection is tightly secured.



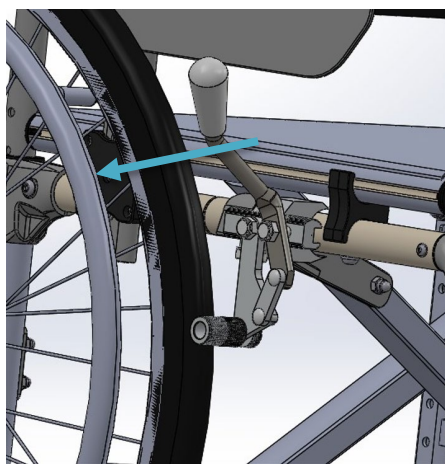
9. Using the Wheel and Rear Brakes

Wheel Brake (Figure 13)

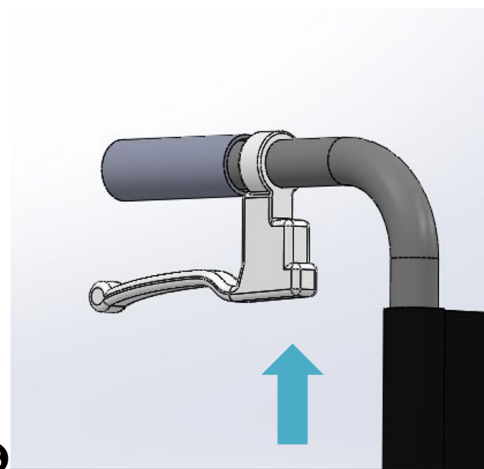
1. The wheel brake, which can be manually switched, can be found near the bottom of the wheelchair.
2. Pull or press the brake to create resistance.
3. The wheelchair will slow down and come to a stop.

Rear Brake (Figure 14)

1. Find the rear brake lever on the backrest of the wheelchair.
2. Press the lever firmly when an emergency stop is required or to keep the wheelchair from sliding.
3. Ensure the brake is fully engaged so that the rear wheels are locked securely.



13



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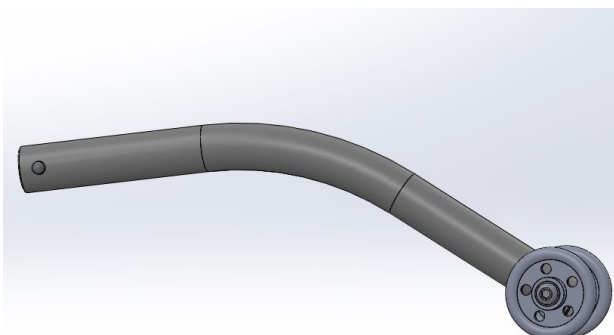
10. Anti-tip Device Usage

Installing the Anti-Tip Device (Figure 15):

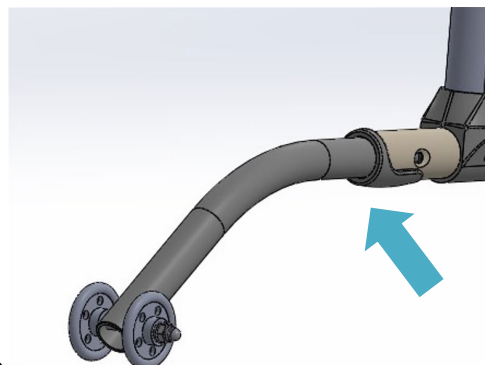
1. Line up the anti-tip rod with the correct installation hole on the wheelchair frame.
2. Press the detent ball and slide the rod into the hole slowly.
3. Ensure the detent ball is fully engaged; when it snaps in, the device is securely locked and ready for use.

Removing the Anti-Tip Device (Figure 16):

1. Push the detent ball to disengage the locking system
2. Pull the anti-tip rod outward while keeping the detent ball pressed.
3. Once removed, store the device safely to prevent damage or loss.



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11. Maintenance, Cleaning and *Disinfection*

<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>Check brake locking status</i>		X	
<i>Spoke tension of the rear wheels</i>			X
<i>Screw connections</i>			X

Maintenance

- Check the wheelchair's key safety items—especially the wheel locks, quick-release axles and brakes—before every use.
- Safety nuts are single-use: if they have been loosened more than once they must be replaced.
- If you notice wear, changes in driving behavior, or reduced stability, contact an authorized dealer immediately for inspection and repair. In addition, we recommend a professional service by an authorized dealer at 12-month intervals.
- The user is responsible for the routine checks listed below and must perform them at the intervals indicated.

Routine Cleaning and Care

To keep your wheelchair working smoothly, you can do the following steps:

- Remove casters and clean them, along with the forks, using a mild cleaner to remove hair, dust, and dirt.
- Dry the wheelchair soon as possible, if it gets wet.
- Keep the wheelchair away from salt water, and prevent the sand or debris from entering the wheel bearings.
- Regularly check all screws, especially when starting to use the wheelchair or after making adjustments. If any screws loosen repeatedly, contact your specialist dealer.

Checking and Inflating Tires

When the tires feel soft or underinflated, use an air pump to inflate them to 60–80 PSI. Correct tire pressure helps:

- Keep the wheelchair stable and smooth on all surfaces.
- Prevent accidents from slipping or skidding.
- Protect tires from damage due to low air pressure.

Check tire pressure regularly to ensure safety and optimal performance.

Regular Maintenance of Wearing Parts

Routine maintenance of wearing parts helps ensure the wheelchair's reliability, performance, and

extends its lifespan.

By presenting your warranty card and visiting an authorized dealer for replacement of wearing parts, you can receive proper maintenance and support while remaining compliant with the manufacturer's warranty requirements. This protects both the quality and performance of your wheelchair and guarantees necessary after-sales support.

Cleaning Guidelines

1. Wash the upholstery with warm water and mild detergent. Use a sponge or soft brush to remove stains, rinse with clean water, and allow to dry completely.
2. Avoid cleaning using strong chemicals, solvents, scrubbing brushes or similar cleaning components. The wearing parts should not be machine washed. For disinfection, use only water-based products and follow the instructions provided by the manufacturer.
3. Clean pads, handles, plastic parts, frames, and wheels with mild detergent and dry them thoroughly.

12. Re-use / Disposal

Information on Re-Use

This wheelchair is suitable for re-use - but just like most second-hand machines or vehicles, reused products are subject to increased strain. Features and functions must not change in a way that could compromise the safety of the user or others during the product's life cycle.

The manufacturer recommends a usage period of up to 4 years, provided with proper use and maintenance. Time spent in storage at a dealer or third party is not included in this period. With proper product care and maintenance, it may remain reliable up until the said timeframe.

The product must be thoroughly cleaned, rinsed, and disinfected before reusing it. An authorized specialist should inspect the product to assess its condition, check for wear or damage, and replace any worn, damaged, or unsuitable parts to ensure safety and functionality for the next user and do replacement if necessary.

Information on Disposal

If the product already needs to be disposed of, all components must be handled according to the environmental protection regulations in your country.

Ensure proper disposal of batteries, electronic components, and mechanical parts to minimize environmental impact.

13. Specifications & Measurements

Please be aware that the wheelchair measurements listed are approximate. Slight differences may occur, and the actual wheelchair should be considered the reference.

Specifications	MW18
Style	Self-propelled
Surface finishing	Powder coating
Frame	Magnesium and foldable
Armrest	T-shape Armrest
Seat and backrest	Oxford fabric +PU upholstery
Cross bars	Seat width 40 with single
Footrest	Swing away footrest with leg strap and height adjusted
Rear wheel	24" tune rear wheel with PU tire and quick-released axles
Front wheel	5"x1.5
Hand rim	Aluminum alloy
Front fork	Aluminum alloy with black anodized
Footplate	Plastic
Anti-tipper	Removable anti-tipper (Optional)
Brake	With hand brake and rear brake
Measurements	MW18
Total length	1150mm
Total width	650mm
Total height	900mm-950mm
Folding width	310mm
Seat width	440 mm
Seat depth	410mm
Backrest height	400mm
The back of seat to floor	475mm
The front of seat to floor	500mm
Seat to armrest	215mm-245mm
Net weight	15kg
Footrest to seat distance	380mm-510mm
Gross weight	19.45kg
Weight capacity	100kg
Carton size	850x390x785mm

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 FLEX MG140 Wheelchair's product warranty period starts from the date of purchase.
- Please keep your warranty card and invoice for reference. Repairs requested during the warranty period would require these documents; otherwise, repair fees will apply.
- After the warranty period expires, labor and materials will be charged, and the user is responsible for any shipping costs.

WARRANTY CARD

[illegible]

Manufacturer Information

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