



MOVE

70156-a.1-MOVE EN-User Manual 1.1

User Manual

Ultralight Folding Wheelchairs



MOTION

COMPOSITES

Maintenance manual & warranty information

Dealer: This manual must be given to the user of the **MOVE** wheelchair before its first use.

User: Prior to using the **MOVE** wheelchair, carefully read this manual and keep it for future reference.

For more information about this product, its parts/accessories and the services provided, please visit:
www.motioncomposites.com

MOVE

Thank you for selecting the **MOVE** (Usual name of wheelchair). Please do not hesitate to send us your feedback or questions regarding this product's reliability, safety, usability, as well as any repair/maintenance services offered by an authorized Motion Composites dealer.

Contact information:

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Saint-Roch-de-l'Achigan, Quebec
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Follow us!

www.motioncomposites.com

Important information

If you have any questions about safety, adjustments, accessories, use, or maintenance, please contact your authorized Motion Composites dealer.

Please record the following information for future reference:

Date of purchase

Serial Number

Supplier

Address

Telephone



Sophisticated meets affordable.

We took the knowledge acquired through the creation process of the Series and made it available in an entry-level package.

The lowest seat-to-floor height.

The innovative frame design of the MOVE lets you achieve a super low 13" seat-to-floor height with a 4" caster on a standard frame. That's the same frame that can go up to 21"!

Truly innovative armrest.

Our new composites lightweight armrest quickly converts from flip-back to single post for easier configuration. Height adjustments are just a flick away thanks to a simple trigger system. On top of this, experience safer transfers with our enhanced rubber grip finish.





Table of contents

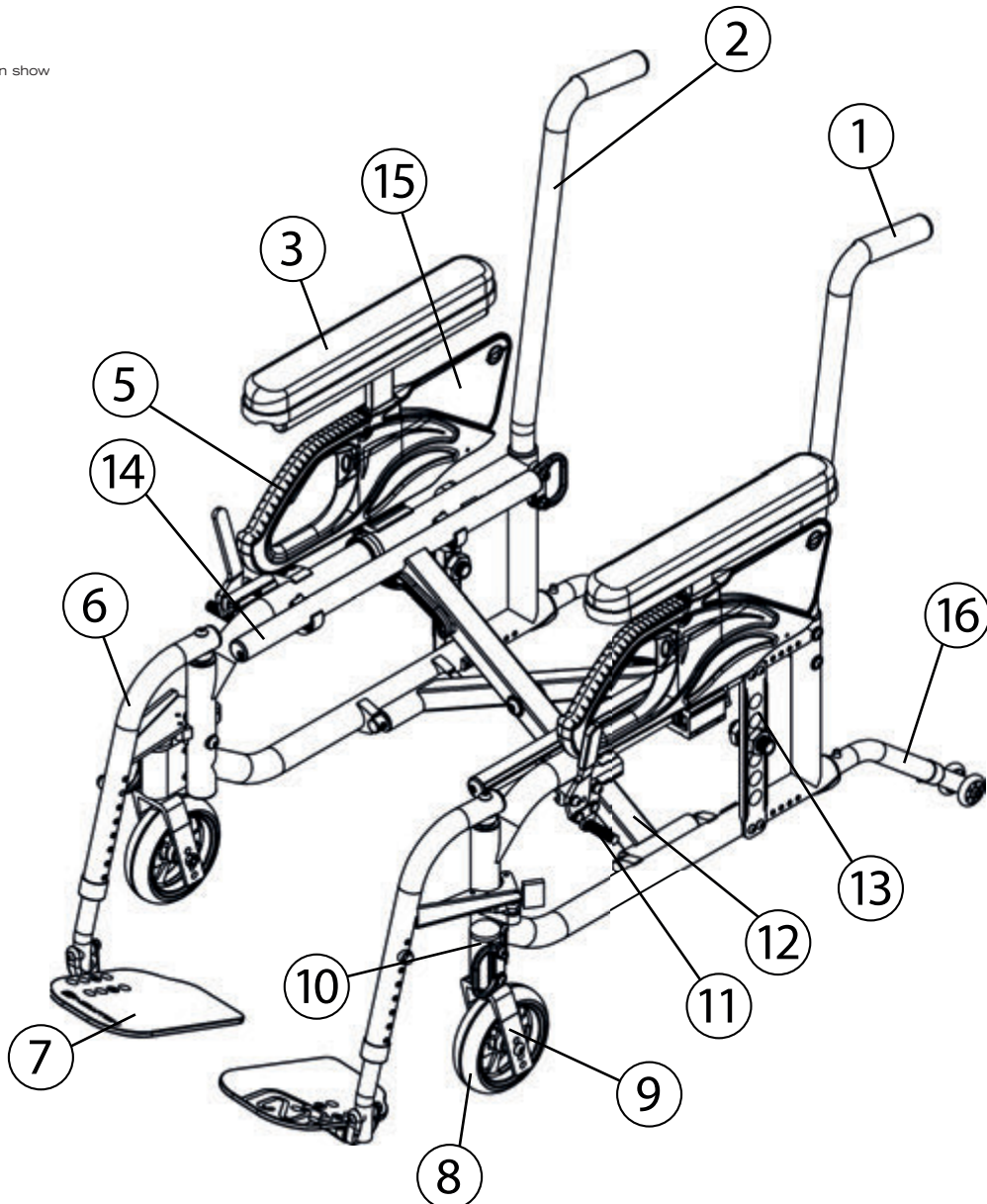
WELCOME TO MOVE	2	10. ADJUSTMENTS AND MAINTENANCE OF YOUR MOVE	11
CONTACTING US		10.1 SERVICE	
IMPORTANT INFORMATION		10.2 REPLACEMENT PARTS	
TABLE OF CONTENTS	3	ORDERING INFORMATION:	
3. PRODUCT OVERVIEW	4	10.3 TOOLS NEEDED	12
PARTS LIST		10.4 GENERAL MAINTENANCE	
4. BEFORE USE	5	10.4.1 TIRE PRESSURE	
4.1 GENERAL WARNING		10.4.2 CLEANING YOUR WHEELCHAIR	
4.1.1 NOTE TO USERS		10.4.3 STORING AND SHIPPING YOUR WHEELCHAIR	
4.1.2 IMPORTANT WARNING		10.5 BACKREST	
4.1.3 NOTE TO DEALERS AND QUALIFIED TECHNICIANS		10.5.1 REMOVING/INSTALLING THE BACK CANES	
4.2 SYMBOLS		10.5.2 ADJUSTING THE BACK ANGLE	
4.3 LABEL LOCATION		10.5.3 REMOVING/INSTALLING THE SEAT BELT	
5. TECHNICAL SPECIFICATIONS	6	10.6 ARMRESTS	13
5.1 STRUCTURE		10.6.1 INSTALLING FLIP-BACK ARMRESTS	
5.2 DIMENSIONS		10.6.2 ADJUSTING THE HEIGHT OF FLIP-BACK ARMRESTS	
5.3 ADJUSTABILITY		10.7 FRONT RIGGINGS	
6. SAFETY	6	10.7.1 ADJUSTING FOOTREST LENGTH	
6.1 PERIODIC CHECKLIST		10.8 SEAT	14
6.2 WEIGHT LIMITATION		10.8.1 REPLACING SEAT UPHOLSTERY	
6.3 WEIGHT TRAINING AND SPORTING ACTIVITIES		10.9 SEAT-TO-FLOOR HEIGHT	
7. TUTORIAL	6	10.9.1 CHANGING THE FRONT SEAT-TO-FLOOR HEIGHT	
8. RIDING YOUR MOVE	7	10.9.2 CHANGING REAR SEAT-TO-FLOOR HEIGHT	
8.1.1 TO REDUCE THE RISK OF ACCIDENT		10.9.3 CHANGING FRONT & REAR SEAT-TO-FLOOR HEIGHT	
8.1.2 ENVIRONMENTAL CONDITIONS		10.10 FRONT CASTORS, FORKS AND FORK STEM ASSEMBLIES	
8.1.3 CAREGIVERS		10.10.1 REMOVING/INSTALLING/REPOSITIONING THE FRONT WHEELS	
8.2 RIDING YOUR WHEELCHAIR		10.10.2 REMOVING/INSTALLING THE CASTER HOUSING	
8.2.1 BALANCE POINT		10.10.3 REMOVING/INSTALLING THE STEM BOLT ASSEMBLY	15
8.2.2 WHEELIES		10.10.4 ADJUSTING THE CASTOR HOUSING ANGLE	
8.2.3 TRANSFERRING		10.11 REAR WHEELS	
8.2.4 GETTING DRESSED	8	10.11.1 ADJUSTING QUICK-RELEASE AXLES	
8.2.5 REACHING/LEANING/BENDING		10.11.2 REPLACING/ADJUSTING HAND RIMS	
8.2.6 MOVING BACKWARDS		10.11.3 ADJUSTING THE REAR AXLE HEIGHT	
8.2.7 RAMPS, SLOPES & SIDE HILLS		USE A PLASTIC TIRE REMOVAL TOOL TO TAKE OFF THE TIRE.	
8.2.8 OBSTACLES		10.11.3 ADJUSTING THE REAR AXLE HEIGHT	16
8.2.9 CURBS AND STEPS		10.11.4 ADJUSTING REAR WHEEL SPACING	
8.2.10 MOVING WITH ASSISTANCE		10.12 WHEEL LOCKS	
8.2.11 STAIRS	9	10.12.1 REPLACING/ADJUSTING THE WHEEL LOCKS	
8.2.12 ESCALATORS		10.13 LOCK EXTENSIONS	
9. HOW TO USE YOUR MOVE	9	10.13.1 REPLACING/ADJUSTING THE LOCK EXTENSIONS	
9.1 FOLDING & UNFOLDING		10.14 ANTI-TIPPERS	17
9.1.1 FOLDING		10.14.1 ADJUSTING THE HEIGHT OF THE ANTI-TIPPERS	
9.1.2 UNFOLDING		10.15 HEADREST KIT AND HEADREST SUPPORT	
9.2 WHEEL LOCKS		10.15.1 INSTALLING A HEADREST SUPPORT	
9.3 FRONT RIGGINGS	10	10.15.2 INSTALLING HEADREST KIT	
9.3.1 INSTALLING		10.16 AMPUTEE AXLE PLATE	18
9.3.2 UNINSTALLING		11. MOTION COMPOSITES LIMITED WARRANTY	18
9.4 FOOTREST		12. PARTICULAR DAMAGES	19
9.4.1 INSTALLING THE ELEVATING LEGREST		12.1 DAMAGE REQUIRING SERVICE	
9.4.2 ADJUSTING THE ELEVATING LEGREST		12.2 SPECIAL DAMAGE	
9.5 ARMRESTS		12.3 REPAIR PROCEDURE	
9.5.1 FLIP-BACK ARMRESTS		13. SAFETY INSPECTION CHECKLIST	20
9.5.2 REMOVABLE T ARMRESTS		14. DECLARATION OF CONFORMITY	20
9.6 SEAT BELTS	11	15. NOTES	21
9.6.1 AUTO BUCKLE AND AIRCRAFT BUCKLE SEATBELTS		I. APPENDIX	22-23
9.6.2 VELCRO™ BELT			
9.7 ANTI-TIPPER			
9.8 REAR WHEELS			
9.8.1 QUICK-RELEASE AXLES			
9.8.2 FIXED AXLES			
9.9 SEAT SLINGS			

3. Product Overview

Parts List

- | | |
|-----------------|------------------------------|
| 1 Push handle | 10 Caster housing |
| 2 Back cane | 11 Wheel lock |
| 3 Arm pad* | 12 Crossbrace |
| 4 Rear wheel | 13 Rear wheel mounting plate |
| 5 Seat rail | 14 Armrest pivot |
| 6 Front rigging | 15 Armrest* |
| 7 Footplate* | 16 Anti-tipper |
| 8 Caster* | |
| 9 Fork | |

* May be different than show





4. Before use

4.1 General Warning

Your **MOVE** wheelchair has been designed by professionals with proper use of aluminum in mind. **DO NOT TRY TO MODIFY THE FRAME BY ANY MEANS. THE FRAME MAY BE SEVERELY DAMAGED IN THE EVENT OF DRILLING AND GRINDING, THUS VOIDING THE WARRANTY.** Only use Motion Composites approved and designed clamps and accessories on your **MOVE** wheelchair.

4.1.1 Note to users:

The **MOVE** wheelchair is a manually operated device intended to be used as a means of mobility for persons restricted to a sitting position. It is not indicated for the pediatric population.

Carefully read the instructions in this manual before using or servicing your wheelchair. If you have any questions or difficulties understanding the following instructions, please contact a qualified technician; you may also wish to contact a Motion Composites technician by phone or email (see contact information on previous page).

4.1.2 Important warning for using the MOVE as transportation in a motor vehicle while seated

Please note the **MOVE** has not been tailored to be used as a transportation device in a motor vehicle while seated. Always transfer from the wheelchair when boarding a motor vehicle.

4.1.3 Note to dealers & qualified technicians

Read this manual before servicing, repairing, operating or adjusting the wheelchair. If you have any questions or difficulties understanding the following instructions, please contact a qualified technician; you may also wish to contact a Motion Composites technician by phone or email (see contact information on previous page).

4.2 Symbols

The following symbols are used throughout this manual. Please familiarize yourself with their meaning.



The warning sign indicates important information to prevent injuries and property damage.



Useful information for the user



Initial setup of your **MOVE** wheelchair must be done by a qualified technician.



The latest version of this manual can be found on our website at motioncomposites.com

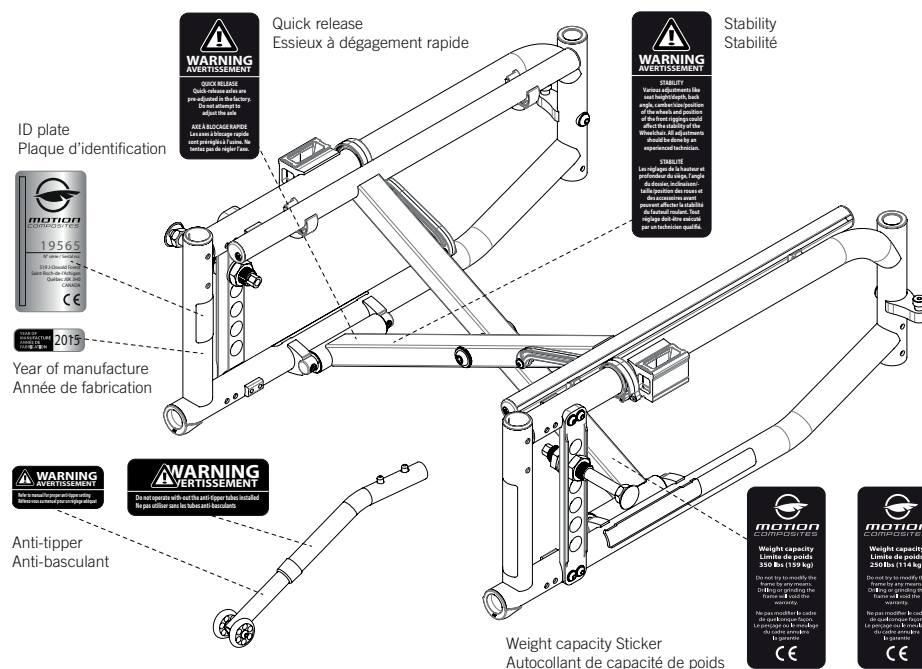


Regular maintenance of your **MOVE** will extend the life of the wheelchair. Take your wheelchair to a qualified technician every year for inspection and servicing.



Do not use air or electric tool, tightening should be done manually.

4.3 Label Locations



Do not remove or alter any labels (Fig 1) on the wheelchair. If the label is damaged, replace it with a new one.

Fig. 1

5. Technical Specifications

5.1 Structure

Frame	Folding with aluminum cross brace
Material	aluminum alloy
Weight	19 lbs (8.61 kg) (w/o rear wheels & footrest)
Weight capacity	250 lb (113.3 kg) Kit HD : 350 lb (158.7 kg)

5.2 Dimensions

Width	14" (35.5 cm) to 16", 18, 20" & 22" (55.8 cm)
Depth	16" (40.6 cm) to 18" & 20" (50.7 cm)
Front seat-to-floor height	13" (33.0 cm) to 20 1/4" (52.7 cm)
Rear seat-to-floor height	12 1/2" (31.7 cm) to 20" (50.7 cm)

5.3 Adjustability

Upholstery	Tension adjustable or bolt on
Back height	16" (40.6 cm) or 20" (50.7 cm)
Adjustable angle	from 70° to 110°
Footrest	Swing out
Camber	0°
Centre of gravity	from 1 1/4" (3.2 cm) to 2 1/4" (5.7 cm) + amputee axle plate option

6. Safety

6.1 Periodic Checklist

See related appendix (section 14).

6.2 Weight Limitation

The MOVE wheelchair has a weight limit of 250 lbs (or 350 lbs with an HD kit). The specified weight capacity includes: both the rider and any luggage. A user with a 10 lbs backpack, for example, should not exceed a weight of 240 lbs (or 340 lbs with the HD kit). It is of utmost importance that the total weight be below the above specified capacity.

The wheelchair is designed to support only one person. Please do not stand up on the footrests.

Motion Composites is not responsible for any damages or injuries caused by the misuse of this wheelchair.

6.3 Weight Training and Sporting Activities

This wheelchair was not designed or tested as a weight training or stretching apparatus. Do not attempt to use this wheelchair for weight training or stretching exercises. The warranty shall be void if the wheelchair has been used for any weight training or stretching purposes.

This wheelchair is not intended to be used during sporting activities.



Should you make any adjustments, repairs or do any servicing, ensure that all fasteners are tightly secured before use.



Exceeding the specified weight limit could damage the wheelchair and/or cause severe injuries.



This wheelchair was designed to be tailored to the dimensions of its owner and as such should only be used by its owner unless a qualified specialist, approved by Motion Composites, has readjusted it.

7. Tutorial

To find the latest tutorial or information, please find our contact team at:

<http://www.motioncomposites.com/en/team/>



8. Riding your MOVE



Various adjustments of your wheelchair (seat height/depth/system, back angle, rear & front wheels camber/size/position, position of the front riggings) could affect the center of gravity. The adjustments should be performed by a professional and the wheelchair user should be aware that the stability could be affected by these adjustments.



DO NOT tilt the wheelchair or perform a wheelie without assistance.
DO NOT stand on the wheelchair or part of the frame of the wheelchair.
DO NOT sit or transfer into the wheelchair unless it is fully open and the seat frame rails are fully seated into the receivers.
DO NOT use the footplate as a platform when getting in or out of the wheelchair or to reach for an object.

8.1.1 To reduce the risk of accident

We recommend that you review safe wheelchair use with your physician prior to using this equipment.

Take the time to read the instructions in this manual to ensure that you feel comfortable using the wheelchair without assistance.

Always be aware of hazards. Always use anti-tippers.

8.1.2 Environmental Conditions

The HELIO A7 was designed to be used on hard and plane surfaces like asphalt, concrete, and indoor hard flooring or carpeting.

DO NOT operate on roads, streets or highways.

Beware that the maneuverability of the wheelchair is significantly affected by different outside conditions such as sand, mud, rain, snow and rough surfaces. If you use your wheelchair in these conditions, it is recommended that you have it frequently serviced.

Be careful when using your wheelchair on wet or slippery surfaces.

Exposure to water or excessive moisture can be damaging and may even cause the wheelchair to corrode over the long-term.

DO NOT leave your wheelchair in humid environments such as the bathroom (e.g. while taking a shower). Store the wheelchair in a dry and cool location. The wheel chair should be stored away from a direct exposure to sunlight. If the wheelchair is wet, dry all parts with a cloth before storing it.

DO NOT use your wheelchair in the shower, pool, or other water situations.

8.1.3 Caregivers

- Never use removable parts (e.g. armrests, footrests) to push the wheelchair and never use lifting supports since they could cause injuries or damage.
- Ensure that the wheelchair is equipped with push handles and that its grips are securely in place.
- Turn anti-tipping devices upwards or remove them to avoid tripping.
- Should you need to leave the wheelchair user unattended, engage the wheel locks and place the anti-tipping devices back in the downward position.
- Ask an experienced caregiver to explain safe assistance methods to you.
- Ensure ongoing communication between you and the wheelchair user as to avoid any kind of confusion.
- Maintain proper posture to tilt or lift the wheelchair; keep your back straight and bend at the knees.
- Instruct the wheelchair user to lean his/her back when you are tilting the wheelchair.

8.2 Riding your wheelchair



Should you make any adjustments, make sure to familiarize yourself with the wheelchair movements before removing the anti-tippers.



The wheelchair should be dried with a cloth immediately after being exposed to water.

8.2.1 Balance point

It is important to begin by learning all of the specific characteristics of your wheelchair. Ask a health professional to explain them to you. Carrying a backpack will affect the balance point of your wheelchair. Be aware of resulting handling factors in relation to your body position, posture or weight distribution. The center of gravity is affected by the angle of the wheelchair on a ramp or slope. This can be felt in forward and backward as well as side to side movements. Make sure to review the different riding techniques prior to using the wheelchair. Use anti-tippers until you are skilled at riding your wheelchair in any situation.

8.2.2 Wheelies

DO NOT attempt to perform a wheelie in your wheelchair because of the dangerous nature of this kind of maneuver. Motion Composites recognizes that some wheelchair users will ignore this Warning. If you should choose to ignore this Warning, you should follow these steps to help learn to do a "wheelie" as safely as possible

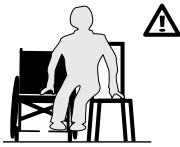


NEVER attempt to learn to do a wheelie without first consulting your health care advisor. **NEVER** attempt to learn to do a wheelie without an assistant that can catch you if you should happen to start to fall. **NEVER** attempt to learn to do a wheelie unless you are a skilled rider on this chair.

Motion Composites always recommend using the anti-tippers at all-time unless they need to be removed to go up or down a curb/step. Anti-tippers should be reinstalled once the curb/step is cleared.

8.2.3 Transferring

Rotate the front casters forward to enhance stability. Place the wheelchair as close to your transfer location as possible. Engage wheel locks. Position yourself as far back as possible when transferring weight to reduce risk of tipping forward. If you have good upper body strength, balance and agility, you may be able to perform transfers independently. Rotate or remove footrests if at all possible as to avoid putting weight on them. If possible, make use of a transfer board.



Always ask a healthcare provider to learn safe transfer methods.

DO NOT sit or transfer into the wheelchair unless it is fully open and the seat frame rails are fully seated into the receivers.

DO NOT use the footplate as a platform when getting in or out of the wheelchair or to reach for an object.

8.2.4 Getting Dressed

When dressing or undressing on the wheelchair, rotate the front casters forward and lock anti-tippers in the lower position. If your wheelchair is not equipped with anti-tippers, back it against a wall and lock the rear wheels.

8.2.5 Reaching/Leaning/Bending



The balance point may shift when you are putting on clothes and/or reaching for objects while sitting in the wheelchair.

If at all possible, use a reaching device or ask for assistance when reaching for objects.

Move the wheelchair as close as possible to the required object.

Rotate the casters as far forward as possible from the rear wheels.



Never reach for objects between your legs, but rather position yourself to the side of these objects.

DO NOT shift your weight sideways, but rather rise up from the seat or move forward in the seat. Always use both hands and grab the opposite side wheel or armrest if you are capable of reaching sideways. Never reach to the rear of the wheelchair unless it is equipped with anti-tippers. Never reach for objects over the seat back: reach only as far as your arm naturally extends without moving on the seat. **DO NOT** lock the rear wheels if you are reaching backwards. Avoid putting pressure on the footrests.

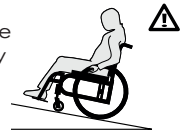


8.2.6 Moving backwards

Lock anti-tippers in lower position. Move slowly: the wheelchair is designed to provide you with more stability when moving forward. Look around as often as possible to avoid obstacles in your path.

8.2.7 Ramps, Slopes & Side Hills

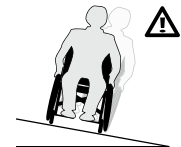
Do not ride hills with an elevation slope of more than 10% (one foot elevation change for every 10 feet). Try to move straight up or down the slope. Avoid turning on a downhill slope. Stay in the center of sidewalks and ensure that there is enough space for the wheels. Avoid stopping on slopes and never use the wheel locks to slow yourself on a downhill slope. Maintain your speed by holding the hand rims.



Do not ride on wet or slippery surfaces. Be cautious for changes in terrain height or stairs at the end of a slope (front casters may lock from simply hitting a small bump).

Ask for help should any situations arise.

Incline yourself while moving down a slope as to adjust your center of gravity.



8.2.8 Obstacles

Always look for obstacles or road hazards (potholes, broken surfaces, etc.). Clear your own environment (work, home) of any obstacles. Never use objects (furniture, ramps, and doorknobs) to push yourself out of the wheelchair. Lean your upper body slightly forward as you move up an obstacle. Do the reverse while moving down an obstacle. Keep both hands on the hand rims while passing over the obstacle.

8.2.9 Curbs and Steps



Curbs and steps are extremely dangerous obstacles.

NEVER attempt to go up or down a single curb or step without an assistant unless you are a very skilled rider of your chair. You need to have previously learned to safely do a wheelie in your chair and you are sure you have the strength and balance to control your chair during any such maneuver.



ALWAYS unlock and rotate anti-tippers up and out of the way so they do not prevent you from executing this maneuver.

NEVER attempt to climb or descend a curb or step more than 4" high.

ALWAYS go straight up or down a curb or step. NEVER climb or descend at an angle.

ALWAYS be aware that the impact of dropping down from a curb or step can damage your chair or cause components to become loose. If you perform such maneuvers, inspect your chair more frequently. ALWAYS Rotate and lock the anti-tippers back to ride safely.

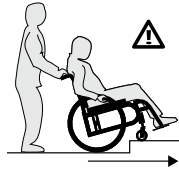


8.2.10 Moving with Assistance

Caregivers should read the “Caregiver” section of this manual.

1 - Going up a curb or step

- Place yourself behind the wheelchair.
- Go forward and tilt the wheelchair with the rear wheels by making sure that the front casters do not touch the curb or the step.
- Once the front wheels are elevated and you have passed the obstacle, put them back on the ground and continue pushing the wheelchair.



2 - Going down a curb or step

- Place yourself behind the wheelchair.
- Before reaching the edge of the curb or step, change the direction of the wheelchair by turning it around the obstacle.
- Pull the wheelchair while going down the curb or step.
- Pull the wheelchair until the rear wheels reach the edge of the curb or step; the rear wheels must slowly touch the lower level.
- Pull the wheelchair backward until the front wheels touch the edge and then lower the front back to the ground.
- Return the wheelchair to its normal driving position.



8.2.11 Stairs

Use an elevator wherever possible.

Ask for help from two people to move the wheelchair up or down stairs (the caregivers should read the “Caregiver” section of this manual).

Fasten your seat belt when being lifted in the wheelchair.

8.2.12 Going up or down the stairs

Tilt the wheelchair back to its tipping point.

When going up, bring the wheelchair backwards until the rear wheels touch the first step.

When going down, bring the wheelchair forward to the edge of the stairway.

Pull up or lower the wheelchair to the next step: one assistant should be behind you and the other in front of you.

Repeat the same movements for every step until you reach the end of the stairway.

Lower the front of the wheelchair to the ground once the front wheels are not touching the floor.

8.2.13 Escalators

Under no circumstances should this wheelchair be used on an escalator, not even with the help of an attendant. This could cause severe injuries.

9. How to use your MOVE

9.1 Folding & Unfolding

9.1.1 Folding

- Rotate front riggings forward until they lock.
- Flip up the footplates.
- Remove the seat cushion.
- Lift the handle on the seat upholstery (Fig 2).
- Pull the wheels towards each other.

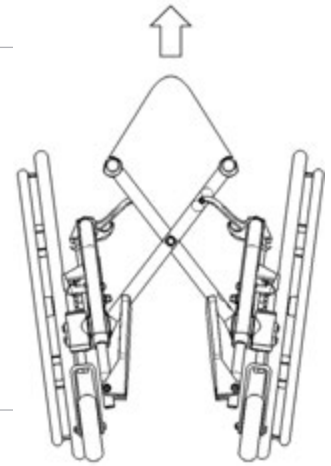


Fig. 2

9.1.2 Unfolding



When unfolding the wheelchair, be careful not to put your fingers between the pivot links, or under the seat rails. Always push or pull on the seat upholstery. Make sure the wheelchair is fully opened before transferring or sitting.

- Tilt the wheelchair towards you; make sure the opposite wheels are off the ground.
- Push the edge of the seat upholstery towards you until it closes properly.
- Press downwards on both seat rails in order to engage the lock mechanism of the wheelchair. It is necessary to push down on the middle of the seat rails to make sure that they are correctly positioned in the seat rail supports. You will feel a click between frame components

9.2 Wheel Locks



Never use wheel locks to stop wheelchair movement. **WHEEL LOCKS ARE NOT BRAKES.** Make sure the surface is not slippery as the wheelchair could move even though the wheel locks are engaged.



Ensure that brake locks imbed at least 1/8" (3 mm) into the tire rubber when chair is in locked position.

Ensure the wheelchair is stable and locked with wheel locks.

- To engage the locks (Fig 3), push wheel lock handle forward (for push-to-lock type) or pull wheel lock backward (for pull-to-lock type) until the lock is fully engaged.
- To release the locks, pull wheel lock handle backward (for push-to-lock type) or push wheel lock handle forward (for pull-to-lock type) until the lock is fully disengaged.

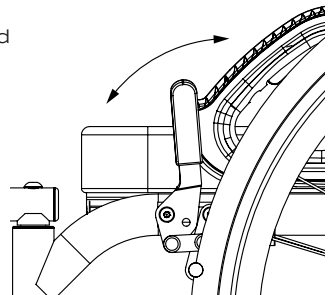


Fig. 3

9.3 Front Riggings

9.3.1 Installing

- Insert the front rigging pivot into the wheelchair's mounting tube.
- Rotate the assembly toward the front until the mechanism locks into place.
- Repeat the same steps for the other side.

9.3.2 Uninstalling

- Push the release locking lever (1) (Fig. 4) inward and maintain that position so the front riggings can rotate freely.
- Rotate front riggings outwards to disengage the locking mechanism.
- Lift the assembly up so as to disconnect it from the wheelchair's frame.
- Repeat this procedure for the other side.

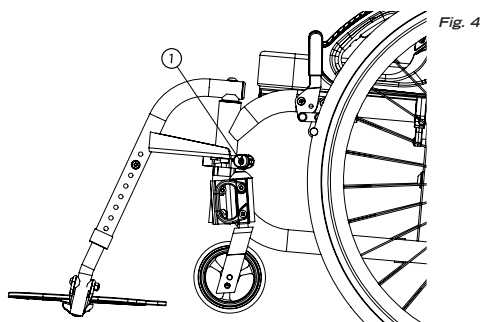


Fig. 4

9.4 Footrest

- When transferring, avoid putting weight on the footrest and be careful not to stand behind the footrest.
- Never use footplates to lift the wheelchair.
- Only use non-detachable parts to lift the wheelchair.

9.4.1 Elevating legrest

9.4.1.1 Installing the elevating legrest

- Remove the actual footrest, see section 9.3.2
- Install the elevating legrest (Fig. 4.1) the same way to install a regular front rigging, see section 9.3.1.

9.4.1.2 Adjusting the elevating legrest

- To change the legrest length, pull on the lever (1) to open the clamp.
- Change the length and push on the lever (1) to close the clamp.
- To change the legrest angle, set the desired angle while pushing on the red button (2).

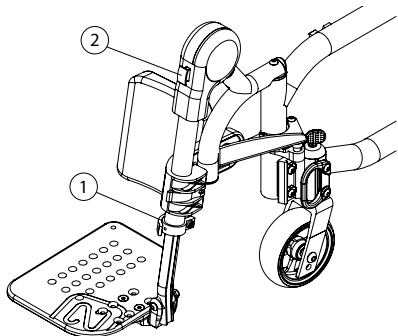


Fig. 4.1

9.5 Armrests



Ensure that armrests are securely locked into arm sockets and armrest release buttons are locked into place prior to using the wheelchair.

- Never lift the wheelchair by holding the armrests.
- Use only non-detachable parts for lifting.

9.5.1 Flip-back armrests

To lift the armrests:

- Pull lever (1) (Fig. 5) upwards to release the system.
- Rotate the armrest all the way up and down.

To reinstall the armrests in closed position:

- Rotate the armrests downward until the front slide plate enters in the armrest receiver and snaps into place.
- Make sure the locking lever is engaged to avoid any movement.

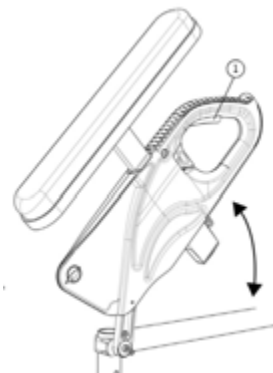


Fig. 5

9.5.2 Removable T armrests

To remove the armrests:

- Pull lever (1) (Fig. 6) upwards to release the system.
- Pull the armrest all the way up.

To reinstall the armrests:

- Bring the armrests downward until the slide (3) enters in the armrest receiver (4) and snaps into place.
- Make sure locking lever (2) is engaged to avoid any movement.

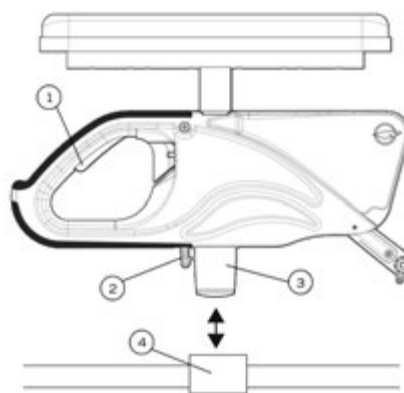


Fig. 6



9.6 Seat belts



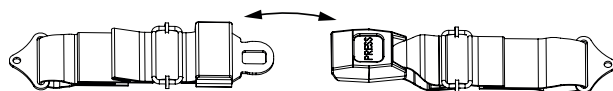
Use positioning belts **ONLY** to help support the rider's posture. Improper use of these belts may cause severe injuries to the rider.



Make sure the rider does not slide down in the wheelchair seat. If this occurs, the rider may suffer chest compression or suffocate due to pressure from the belts.



Never use belts as a motor vehicle restraint.



- The seatbelt should be used at all times in accordance with instructions.
- The belt(s) should be snug, but must not be so tight that they interfere with breathing. You should be able to slide your open hand, flat, between the belt and the rider.
- Ensure that the seat belt is properly fastened as to avoid serious injuries.
- In case of emergency, ensure that seat belt can be easily unfastened.

9.6.1 Auto buckle and aircraft buckle seatbelts

- To fasten your seatbelt, insert the clip into the buckle until it snaps.
- Make sure the belt is securely fastened.
- To unfasten your seat belt, lift the flap on the aircraft buckle seatbelt or push the button on the auto buckle seatbelt.
- To adjust your seat belt, pull each strap towards the opposite side until you get the desired tension and keep the buckle centered.

9.6.2 Velcro Belt

- To fasten your seatbelt, insert the long side of the seatbelt into the buckle on the other side.
- Apply pressure on the belt for a firm grip of the velcro.

9.7 Anti-Tipper



Motion Composites strongly recommends the use of anti-tippers

Anti-tippers (Fig. 7) were designed to prevent falls from the wheelchair.

- To remove or rotate the anti-tippers up, push the release button (1) and pull out or rotate the anti-tippers (2).
- To replace the anti-tippers, press the release button and insert them into the frame until they snap into position.
- Highest Curb Clearance: 1 1/2" to 2", depending on configuration.

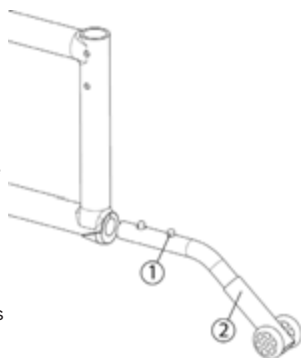


Fig. 7

9.8 Rear Wheels

9.8.1 Quick-release axles

- To remove the rear wheels, push the button in the center of the wheel's hub (Fig. 9) and pull the wheels off (1).
- To reinstall the rear wheels on the wheelchair, push the button of the quick-release axles, insert the axle into the wheelchair axle bushing and release the button
- Always make sure that the quick release detent balls (2) extend beyond the axle bushing for a secure lock.

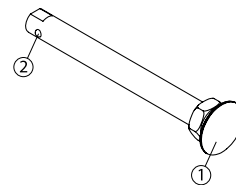


Fig. 9

9.8.2 Fixed axles

- To remove the rear wheels: unscrew the bolt (1) (Fig. 10) located inside the wheelchair axle bushing and pull out the wheel.
- To reinstall the rear wheels on the wheelchair: insert the threaded axles (2) in the axle bushing.
- Tighten the bolt (1) and make sure that the wheel is still turning without any restrictions.

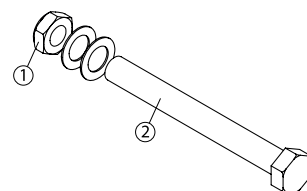


Fig. 10

9.9 Seat slings

- Seat slings are not intended to be used as a seating surface. Always use a cushion.
- Ensure that the sling is in good condition (e.g. no fraying, no wear and no tears).

10. Adjustments and maintenance of your MOVE

10.1 Service

Refer to your dealer for service. A complete and updated list of service providers can be found on our website.

10.2 Replacement Parts

Ordering information:
Consult our website to download the parts manual and view ordering information.

Please contact us at:

Motion Composites Inc.
519 J-Oswald Forest, suite 101
Saint-Roch-de-l'Achigan, Quebec
J0K 3H0 Canada
Phone: 1-866-650-6555
Fax: (450) 588-0200
support@motioncomposites.com
www.motioncomposites.com

10.3 Tools needed



The MOVE was designed to be serviced with regular tools. All screws and bolts are standard and can be adjusted with a wrench, socket wrench, or Allen key. Do not use air or electric tool, tightening should be done manually.

List of tools is at the end of this manual.

10.4 General maintenance

10.4.1 Tire pressure

- Check tire pressure with a tire gauge.
- Verify recommended tire pressure, which is indicated on the tire.
- Inflate if pressure is below recommended amount as labelled on the sidewall.
- Do not inflate tire over recommended pressure, as stated on the tire.
- Over inflation could result in tire failure and injury.
- Under inflation could result in a flat tire.

Max pressure

Pneumatic	1 3/8"	65 psi
Pneumatic Kenda High pressure	1 3/8"	110 psi
Pneumatic Schwalbe High pressure	1"	145 psi

10.4.2 Cleaning your wheelchair

- Use a soft clean cloth with soap and water to clean your wheelchair.
- Rinse and dry the wheelchair adequately.
- Do not use abrasive cleaners.
- Do not use a pressure cleaner.

10.4.3 Storing and shipping your wheelchair

When not in use, keep your chair in a clean, dry area. Failure to do so may result in your chair rusting and/or corroding.

If your chair has been in storage for more than a few weeks you should make sure it is working properly. You should inspect and service, if necessary, all items in section 13 Safety Inspection Checklist.

If your chair has been in storage for more than two months, it should be inspected by a qualified technician.

When shipping your wheelchair use a strong cardboard box to protect the wheelchair from any impact. Inspect the wheelchair once it's received.

10.5 Backrest

10.5.1 Removing/Installing the Back Canes

- Loosen the top bolts (1) (Fig. 10) and (2), which are also used to support the armrest socket (Swing Away and Flip Back armrest).
- Slide down the back post to remove it from the tube.
- Reinstall the back post in the reverse order and tighten screws snugly.
- Tighten bolts (1) and (2) firmly.
- Wheelchairs equipped with Flip Back armrests; tighten screw (1) while paying special attention to the force needed to flip back the armrest.

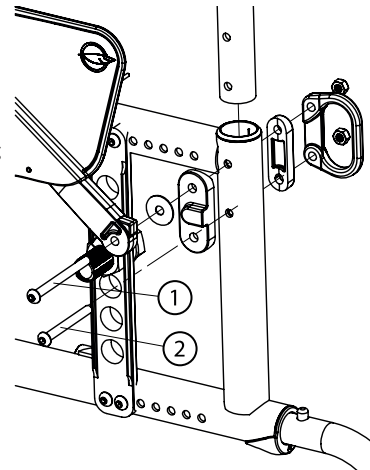


Fig. 10

10.5.2 Adjusting the Back Angle

- Loosen screw (1) (Fig. 11) and remove screw (2) from the levelling device.
- Adjust to desired angle by sliding the mechanism.
- Reinstall screw (2) and tighten both screws to fit snugly.

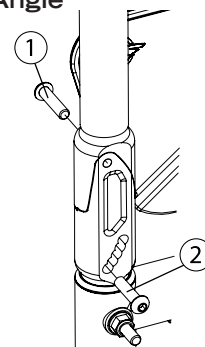


Fig. 11

10.5.3 Removing/Installing the seat belt

- Remove Screw (1) in order to remove the seat belt clamp (2) that is attached to the belt (Fig. 12)
- Reinstall screw (1) directly on the frame clamp (3) (Fig. 13)
- Tighten screw (1) until it is properly tightened.
- Repeat the same steps on the other side

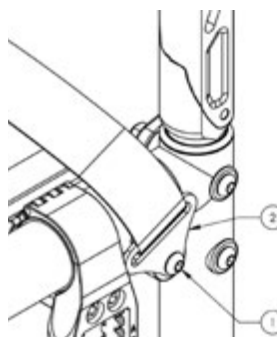


Fig. 12

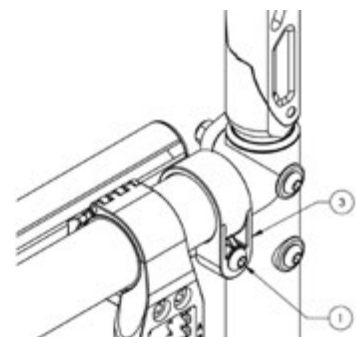


Fig. 13



10.6 Armrest

10.6.1 Installing Flip-back Armrests

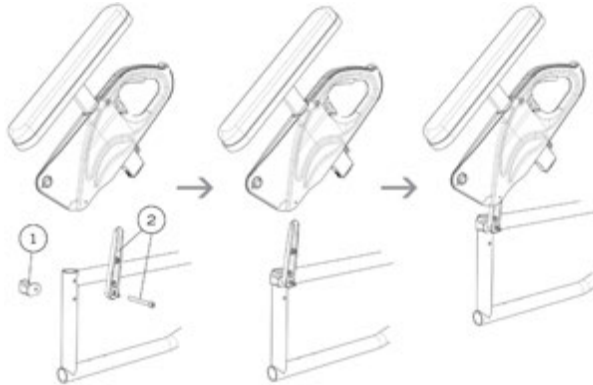


Fig. 14a

Fig. 14b

Fig. 14c

- Insert the flip-back pivot (1, 2) (Fig. 14a) and screw it in place, making sure it stays in place but can rotate easily.
- Insert the armrest (Fig. 14b) on the flip-back pivot then rotate it until it clicks with the armrest receiver (Fig. 14c) (for clamp installation, see 10.6.3 installing removable T-armrests).

10.6.2 Adjusting the height of Flip-back armrests

- Flip lever (1) (Fig. 15) left or right to unlock the armrest.
- To adjust height, slide the upper part of the armrest into the lower part.
- Adjust the structure (2) at the desired height.
- Flip the lever back to the closed position.
- Make sure the armrest clicks in place for complete securement.

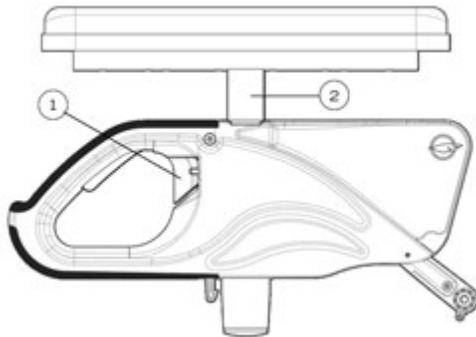


Fig. 15

10.7 Front riggings

10.7.1 Adjusting Footrest length

- Remove screws on front riggings (1) (Fig. 16)
- Slide the extension tube inside the front rigging at the desired length.
- Reinstall screws (1) at desired length.
- Tighten screws firmly.

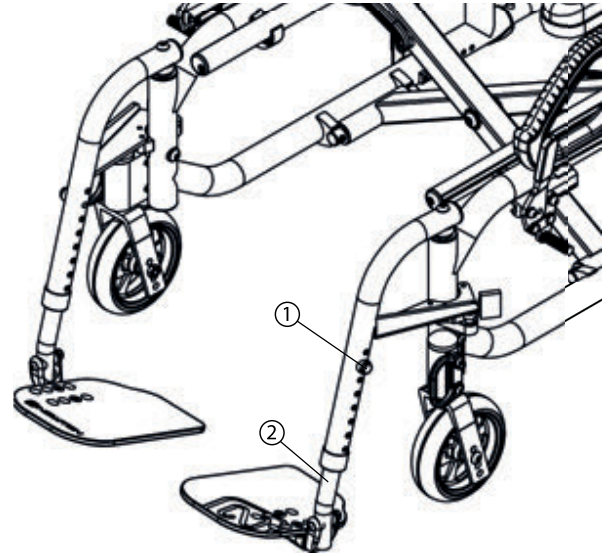


Fig. 16

10.8 Seat



It may be difficult to unfold the wheelchair if the seat upholstery has been installed too tight.

10.8.1 Replacing Seat Upholstery

SLIDE-ON SLING

- Remove end cap (1) (Fig. 17).
- Slide in new seat upholstery.
- Reinstall end cap (1).
- Adjust tension with the velcro located under the seat upholstery.
- Fully open the wheelchair and make sure the upholstery is tight. The seat rails must be snapping easily in the seat rail supports.

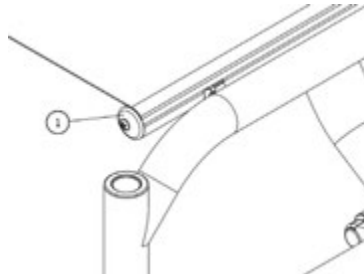


Fig. 17

10.9 Seat-to-floor height

Any modification to the seat-to-floor height involves adjustment of anti-tippers, front caster angle, and rear wheel toe-in/toe-out if equipped with 3° or 6° camber. It is important to do these adjustments before using the wheelchair as to reduce risk of injuries.

10.9.1 Changing the Front Seat-to-Floor Height

To change the front seat-to-floor height, you can do one of the following:

- Install the front caster in a different hole on the fork
- Install different caster size.
- Change the stem bold length (Standard, +1" (2.5 cm) and +2" (5.0 cm) available)

10.9.2 Changing Rear Seat-to-Floor Height

To change the rear seat-to-floor height, you do one of the following:

- Install the rear wheel axle bushing in a different position along the mounting plate.
- Install different sized rear wheels.

10.9.3 Changing Front & Rear Seat-to-Floor Height

To change the front and rear seat-to-floor height simultaneously, you can:

- Use another seat cushion with a different thickness.

10.10 Front casters, forks and fork stem assemblies

10.10.1 Removing/Installing/Repositioning the Front Wheels

- Loosen nut (3) and remove bolt (1) (Fig. 18).
- Remove, install or reposition the front caster.
- Place spacers (2) between the castor and the fork.
- Tighten nut (3) firmly.



Fig. 18

10.10.2 Removing/Installing the caster housing

- Remove screws (1) (Fig. 19).
- Remove caster housing (2) (Fig. 20).
- Slide the Caster Housing Plug out of the frame (3).

To reinstalled

- Slide the Caster Housing Plug in the frame (3).
- Reinstall caster housing (2).
- Reinstall screws (1).

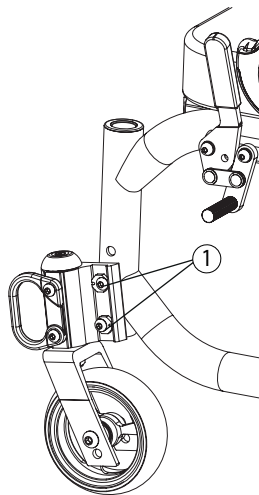


Fig. 19

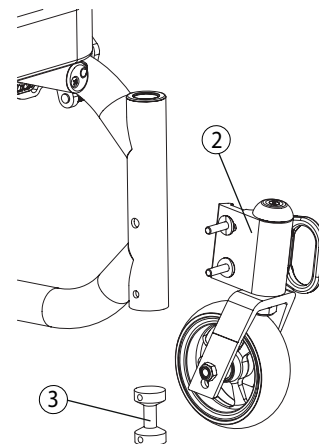


Fig. 20

*To change the stem bolt or to service the bearings, always remove the caster housing from the frame



10.10.3 Removing/Installing the stem bolt assembly

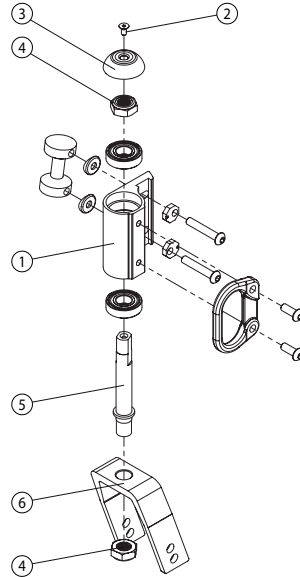


Transit securement points are to remain in their original positions. Transit securement points are only designed to be used in their original position facing forward. Do not rotate transit securement points inward.

Fig. 21

To remove the stem bolt:

- Remove the caster housing (1) (Fig. 21) from the frame.
- Remove the screw (2).
- Remove plastic cap (3).
- Loosen lock nuts (4) while holding the stem bolt (5) from the bottom to prevent the fork (6) from turning.
- The castor wheel will usually need to be removed to take out stem bolt (5).
- Remove the fork (6) and perform maintenance if necessary.
- Refer to the diagram to make sure all hardware is installed in the right order.



To install the stem bolt:

- Insert the stem bolt (5) into the fork (6) and tighten the lower lock nut (4) while holding the stem bolt from the bottom to prevent the fork from turning.
- Insert the assembled stem bolt with fork through the caster housing (1).
- Tighten the upper lock nut (4) while holding the stem bolt (5) from the bottom to prevent the fork from turning.
- Replace the plastic cap (3) and tighten the screw (2).
- Replace the caster housing into the frame.

10.10.4 Adjusting the castor housing angle

- All four wheels should be touching the floor.
- Use a set square and place it on the ground and along the caster housing.
- The housing should be parallel to the set square.
- If the housing is not parallel to the set square, loose screws (2) (Fig. 22b) sufficiently to remove the eccentric inserts (3) from the caster housing (1) (Fig. 22a).
- Rotate the caster housing to adjust the angle.
- Replace the eccentric inserts (4) into the housing and tighten screws (2).
- Check again that the caster housing is perpendicular to the ground by using the set square.
- Final tightening should be done manually.

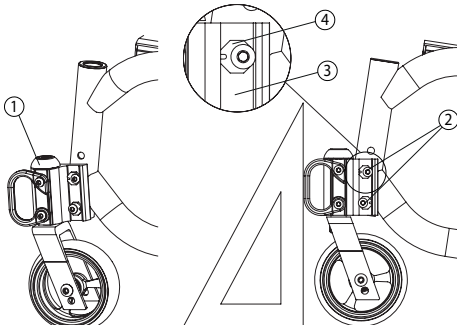


Fig. 22a

Fig. 22b

10.11 Rear wheels

10.11.1 Adjusting Quick-Release Axles

- Remove the rear wheel from the wheelchair.
- Behind the quick release button, there is a nut that adjust the length of the axle.
- Hold the axle with a wrench at the other end (near the detent balls) (Fig. 23) and turn the nut behind the quick release button to change the length of the axle.
- Reinstall the quick release into the axle bushing on the wheelchair.
- Quick release detent balls should extend beyond the axle bushing for a secure lock.

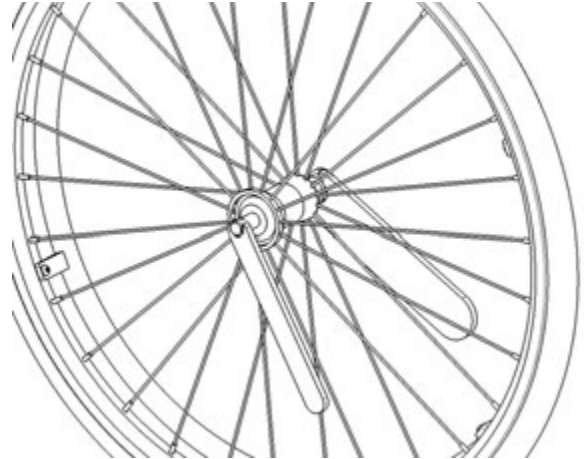


Fig. 23

10.11.2 Replacing/Adjusting hand rims

- Use a plastic tire removal tool to take off the tire (1) (Fig. 24).
- Remove all nuts (2) inside the rim (3).
- Replace the handrim (4) with a new one and align the mounting holes (5).
- Reinstall and tighten the nuts firmly.
- Reinstall the tire on the rim.

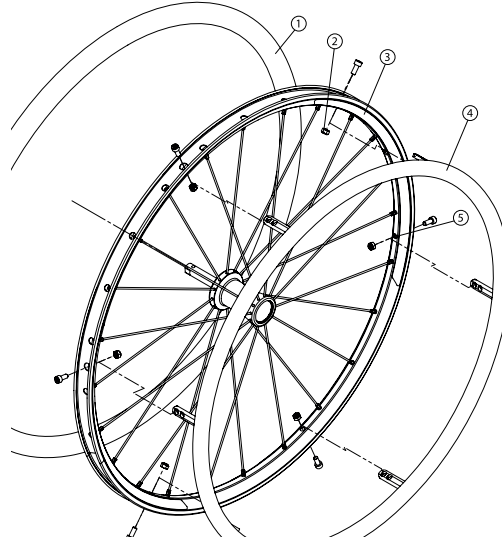


Fig. 24

10.11.3 Adjusting the rear axle height

- Remove the nut (3) holding the axle bushing.
- Move axle bushing (1) (Fig. 25) along mounting plate (2).
- Reinstall the bushing in the desired mounting hole and tighten the nut (3).



The seat height, seat depth, back angle, seating system/upholstery, size/position of the rear wheels, size/position of the front casters, as well as the user condition directly relate to the stability of the wheelchair. Any change to one or any combination of the nine may cause the wheelchair to decrease in stability. These adjustments must be performed by a qualified technician. Seat-to-floor heights have specific positions depending on rear wheel size, rear wheel position, front caster size/position and seat-to-floor angle. These adjustments **MUST** be performed by a qualified technician

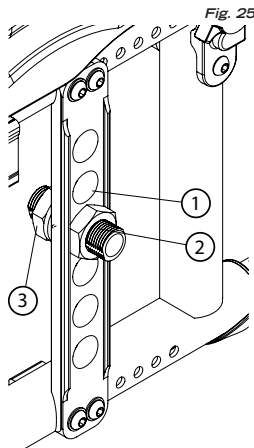


Fig. 25

10.11.4 Adjusting rear wheel spacing

The rear wheels can be adjusted laterally by repositioning axle bushing (1) (Fig. 26) on mounting plate (2).

- Loosen nuts (3) on the axle bushing (1).
- Turn the bushing (1) in the desired direction to adjust the spacing.
- Firmly tighten the nuts (3).

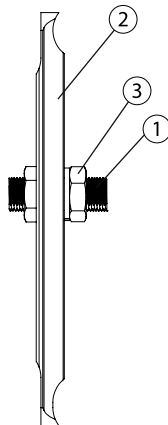


Fig. 26

10.12 Wheel Locks

10.12.1 Replacing/Adjusting the Wheel Locks

- Loosen screws (1) (Fig. 27).
- Slide the wheel lock to the desired position.
- Tighten screws (1) to a snug fit. Final tightening should be done manually.
- Once engaged, the wheel lock should embed 1/8 " (3 mm) into the tire.

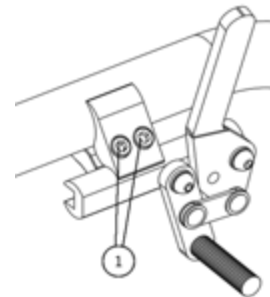


Fig. 27

10.13 Lock Extensions

10.13.1 Replacing/Adjusting the wheel lock extensions

- Loosen screw (1) (Fig. 28).
- Align eyelet (2) with the mounting hole.
- Re-tighten screw (1) on the Lock lever.

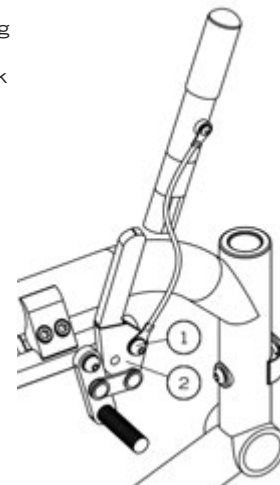


Fig. 28



10.14 Anti-tippers

10.14.1 Adjusting the Height of the Anti-tippers

The anti-tippers should be between 1½ and 2¾ inches (40 to 70 mm) off the ground. Improper spacing may result in wheelchair hang ups over obstacles or not preventing the wheelchair from tipping.

- Press the push-button (1) (Fig. 29) and slide anti-tippers extensions to desired length.
- Ensure the button snaps back into place.

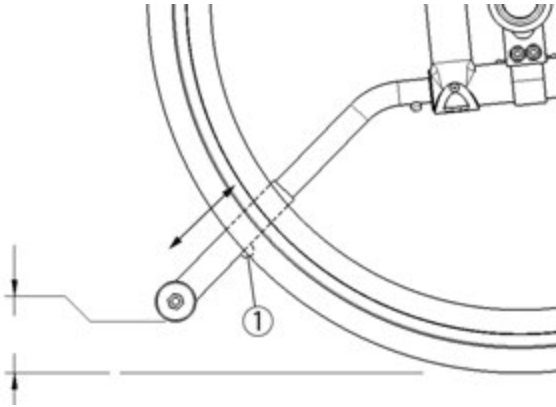


Fig. 29



If you are unable to adjust the anti-tippers to the proper height, contact your Motion Composites dealer to replace your anti-tipper for another size.

10.15. Headrest Kit and Headrest Support

10.15.1 Installing a headrest support

- Cut the end of the push-handle grip with a knife in order to be able to see the inside of the push handle.
- Insert a 1/4"-20 grip nut (1) (Fig. 30) with the grip nut insertion tool (2) inside the handle (40 mm).
- Install fastening device of the headrest support by tightening it in the 1/4"-20 roll pin.

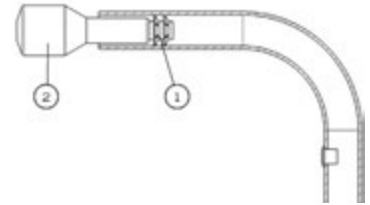


Fig. 30

10.15.2 Installing Headrest Kit

- Once the headrest support is installed, insert the adjustable headrest into the horizontal receiver.
- Install headrest on the ball pivot and tighten the three screws (1) (Fig. 31).
- Once the adjustment is completed, firmly tighten all parts.

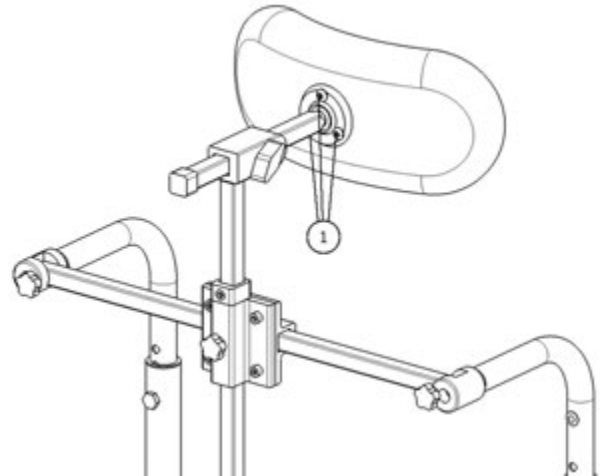


Fig. 31

10.16 Amputee Axle Plate

10.16.1 Installing an amputee axle plate

- Install mounting plate (1) (Fig. 32) by bolting it to the frame.
- Install the back clamp (2) onto the rear of the frame.
- Insert 4 amputee plate adapters (3) on the mounting plate (1) at the desired position.
- Insert both bolts (4) and washers (5) into the back clamp (2) through amputee plate (6) and tighten.
- Insert axle bushing (7) through the amputee plate and insert nuts (8) and lock washer (9)
- Insert 2 bolts (10) through the mounting and amputee plate (1 and 6) and tighten with lock nuts (11).

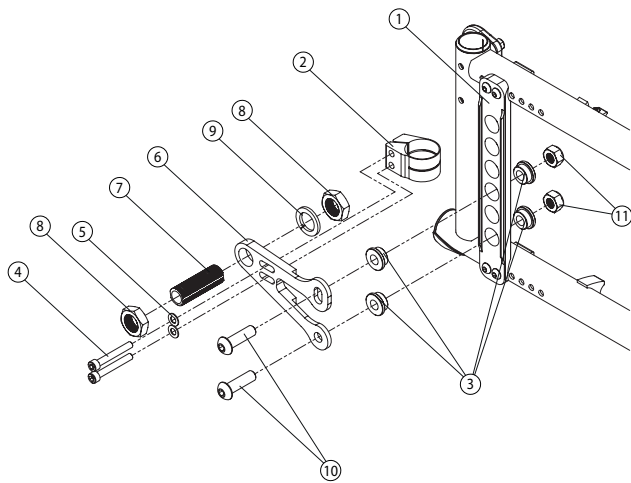


Fig. 32

11 Motion Composites limited warranty

A. Frame – 5 years

Motion Composites warrants the wheelchair frame and cross braces against defects in materials and workmanship for five (5) years from the date of purchase.

B. Components – 1 year

Motion Composites warrants all Motion Composites-made components against defects in materials and workmanship for two (2) years from the date of purchase, except for parts listed below.

C. Limitations and exclusions

- 1 Motion Composites covers the following items for 30 days:**
 - tires and tubes for front or rear wheels, upholstery (including cushions, seat slings, armrest upholstery) and push-handle grips;
- 2 This warranty does not cover:**
 - damage arising from normal wear and tear or from other circumstances beyond Motion Composites' control; or
- 3 The foregoing warranty shall not apply if:**
 - the original Motion Composites serial number tag has been removed, altered or defaced; or
- 4 Use life of the wheelchair and components:**
 - the shelf life or use life of the wheelchairs and their components could vary pending on the, practice, treatment, handling and frequency of use. Exposure to sun, heat, and water could affect the life of the wheelchair. Maintaining the wheelchair clean and storing it in a cool, dry area and away from the sunlight, will increase the duration of the wheelchair
 - the wheelchair has been subjected to negligence, accident, improper maintenance, storage or operation as required by your Motion Composites Owners Manual, commercial or institutional use, misuse or abuse, including, but not limited to, exceeding the maximum weight capacity of 250 pounds (113,4 kg), or 350 pounds (159 kg) if equipped with HD Kit; or
 - the wheelchair has been damaged by improper repairs or repairs made to any component without the express written consent of Motion Composites; or
 - the wheelchair has been modified without Motion Composites' express written consent, including, but not limited to, modification through the use of unauthorized parts or attachments; or
 - the wheelchair has been used as a weight training apparatus; or
 - the wheelchair's Transit Tie-Down System (TTDS) has been misused; if TTDS is not attached to the four tarpaulin bows identified and installed by Motion Composites.
- 5 This warranty is extended only to the original consumer purchasers of Motion Composites' product.**



D. Our responsibility

Motion Composites' sole obligation and your exclusive remedy under this warranty shall be limited to such repair and/or replacement.

E. Warranty Service

If your wheelchair requires warranty service, please contact an authorized Motion Composites Dealer in Canada or an authorized international distributor. In the event of a defect in material or workmanship, the Dealer or Distributor must obtain a return authorization (RA) number from Motion Composites. Motion Composites issues RA numbers only to authorized Motion Composites Dealers and Distributors. In the event that you do not receive satisfactory warranty service, please write directly to Motion Composites Customer Service at 519 J-Oswald Forest, suite 101, Saint-Roch-de-l'Achigan, Qc, J0K 3H0 or send an email at: service@motioncomposites.com. Do not return products to our factory without our prior consent.

CONSUMER NOTICE

- 1 The foregoing warranty is exclusive, and in lieu of all other express warranties, whether written or oral, express or implied. Motion Composites shall not be liable for any consequential or incidental damages whatsoever. By registering your Motion Composites wheelchair, you will be deemed to agree with all provisions of this warranty.
- 2 It is forbidden to alter or extend the foregoing express warranty or to waive any of the limitations or exclusions.

12 Particular damages

12.1 Damages requiring service by a qualified service agent

If any of the following conditions are observed, the wheelchair must be serviced by a qualified service agent:

- Any wheel adjustment;
- Any defective ball bearings of the forks;
- Any defective ball bearings of the front wheels;

12.2 Special damages that require the return of the wheelchair to the manufacturer

If any of the following conditions are observed, always contact your service agent prior to sending your wheelchair for repairs at Motion Composites.

- Part of the frame or cross brace is cracked;
- The thread of a rivet-nut is damaged;
- Part of the frame or the cross brace is broken;
- Cross brace becomes worn;
- Problems continue to be identified after several adjustments or repairs have been made by a qualified service agent.

12.2 Repair procedure

Parts that could be repaired by the owner:
Rear tire and inner tube.

- Parts serviced by the manufacturer or service center:
All parts of the wheelchair except for the tires and the inner-tubes
- Parts that can be removed and sent to the manufacturer/ distributor or other party for repair:
Wheels, arm rest, foot rest, upholstery, cushion
- Circumstances in which the wheelchair should be sent for service:
Broken bearings, loose spokes, wheel not aligned, loose bolt, abnormal vibrations, noise or any deviation in the frame, front stem is not perpendicular to floor, broken part like anti-tippers, back canes, rips or tear on the upholstery and for the yearly inspection
- Please contact our customer service agent for the complete list of distributors or service centers.
<http://www.motioncomposites.com/en/team/>
- Some dealers may offer replacement units during the service period. Please contact your service agent for full details. Motion Composites will hold replacement parts for a minimum of 10 years or propose a compatible spare option.
- If the wheelchair needs to be sent to a service center or to the manufacturer for service, it should be packed carefully in a cardboard box fitting the size of the wheelchair. The anti-tippers, the foot rest and cushion should be removed and packed in a small box inside the larger cardboard box containing the wheelchair. The wheelchair should be protected with a protective film to prevent from scratches or wear.

13 Safety Inspection Checklist

At every use

Make sure wheelchair rolls easily and straight.

Check for vibrations, noise or any deviation from normal functioning.

Ensure wheel locks are working properly.

Ensure that front stem is perpendicular to floor.

Visually inspect tires (front & rear) for debris, low pressure, flat spots or wear.

Make sure anti-tipper tubes are locked in place (if equipped).

Visually inspect fabric for protruding metal, rips or tears.

Ensure that hand grips are not loose (if equipped).

Check hand rims for rough edges and make sure they are free from grease or other contaminants.

Checks for component interference.

Check for irregular noise and rattles.

Weekly

Check tire pressure with a tire gauge

Check seat upholstery tension - It should be straight when the wheelchair is open and set in position.

Monthly

Check wheel alignment.

Check for free running of fork bearings.

Yearly

Have a complete inspection performed by a qualified technician.



Tire pressure could be adjusted by the owner or an assistant with the proper tools. If any part appears not to work properly after inspection, the wheelchair should be immediately sent for repair to a qualified technician.

14 DECLARATION OF CONFORMITY

Name and Address of Product Owner

Motion Composites
519 J-Oswald-Forest Suite 101, St-Roch-de-l'Achigan
Quebec, Canada, J0K 3H0
Phone: 1-866-650-6555
Fax: (450) 588-0200
support@motioncomposites.com
www.motioncomposites.com

Authorized representative

Advena Ltd.
Pure Offices, Plato Close, Tachbrook Park, Warwick
CV34 6WE, United Kingdom

We hereby declare that the below mentioned devices have been classified according to the classification rules and conform to the Essential Principles of Safety and Performance as laid out in the Health Products (Medical Devices) Regulations 93/42/CEE.

Medical Device(s):

MOVE manual wheelchair

Manufacturing site:

Motion Composites
519 J-Oswald-Forest Suite 101, St-Roch-de-l'Achigan
Quebec, Canada, J0K 3H0

Risk classification:

Class 1 Medical Device (per 93/42/CEE).

Standards applied:

- **NF EN ISO 7176-1:**
Wheelchairs, part 1: Determination of static ability.
- **NF EN ISO 7176-5:**
Wheelchairs, part 5: Determination of dimensions, mass and maneuvering space.
- **NF EN ISO 7176-8:**
Wheelchairs, part 8: Requirements and test methods for static, impact and fatigue strengths.
- **NF EN ISO 7176-11:**
Wheelchairs, part 11: Test Dummies.
- **NF EN ISO 7176-15:**
Wheelchairs, part 15: Requirements for information disclosure, documentation and labeling.

This declaration of conformity is valid from 2013/01/16.

I. Appendix

I.I TABLE "FRONT SEAT-TO-FLOOR HEIGHTS"

4" caster	5" caster	6" caster	7" caster	8" caster
12 1/2"	13 1/2"	14 3/4"	16"	16 1/2"
13"	14 1/2"	15 1/2"	16 1/2"	17"
13 1/2"	14 3/4"	16"	17"	17 1/2"
14"	15 1/2"	16 1/2"	17 1/2"	18"
14 1/2"	16"	17"	18"	18 1/2"
15"	16 1/2"	17 1/2"	18 1/2"	19"
15 1/2"	17"	18"	19"	19 1/2"
16"	17 1/2"	18 1/2"	19 1/2"	20"
16 1/2"	18"	19"	20"	20 1/2"
17"	18 1/2"	19 1/2"		
17 1/2"	19"			
18"				
18 1/2"				

1.2 REAR SEAT-TO-FLOOR HEIGHTS +/- 1

20"	22"	24"	25"	26"
12 1/4"	13"	14"	14 1/4"	15"
13 1/4"	14"	15"	15 1/4"	16"
14 1/4"	15"	16"	16 1/4"	17"
15 1/4"	16"	17"	17 1/4"	18"
16 1/4"	17"	18"	18 1/4"	19"
17 1/4"	18"	19"	19 1/4"	20"

I.II TABLE "REAR SEAT-TO-FLOOR HEIGHTS"

Wheel size	Height available $\pm 1/4"$ (0.6 cm)
20" wheel	12 1/2" (31.7 cm) to 17" (43.1 cm)
22" wheel	13 1/2" (34.2 cm) to 18" (45.7 cm)
24" wheel	14 1/2" (36.8 cm) to 19" (48.2 cm)
25" wheel	15" (38.0 cm) to 19 1/2" (49.5 cm)
26" wheel	15 1/2" (39.3 cm) to 20" (50.8 cm)

Tools

Allen keys:

2,5 mm
3 mm
4 mm
5 mm

Keys:

10 mm
11 mm
1/2" (13 mm)

For Quick Release:

7/16" (11 mm)
3/4" (19 mm)
1" 1/16 (27 mm)

Other:

Wrench
Phillips screwdriver



Disclosure Information (ISO) chart

Standard reference	min.	max.	Standard reference	min.	max.
Overall length with legrest	711,2	1130,3	ISO7176-7 7.3.2	Seat plane angle	0° 25.0°
Overall width	546,1	749,3	ISO7176-7 7.3.3	Effective seat depth	355,6 508
Folded length	711,2	1130,3	ISO7176-7 7.3.5	Effective seat width	355,6 558,8
Folded width	329	430	ISO7176-7 7.3.6	Seat surface height at front edge	317,5 520,7
Folded height	609,6	1092,2	ISO7176-7 7.3.7	Backrest angle	-5.0° 20.0°
Total mass	7.5kg	16.4kg	ISO7176-7 7.3.8	Backrest height	381 533,4
Mass of the heaviest part	12kg	7.8kg	ISO7176-7 7.3.12	Footrest to seat distance	355,6 457,2
ISO7176-1 Clause 9	Static stability downhill (UNLOCK)	20.2° 29.8°	ISO7176-7 7.3.16	Leg to seat surface angle	70.0° 60.0°
ISO7176-1 Clause 10	Static stability uphill (UNLOCK)	8.2° 10.0°	ISO7176-7 7.3.17	Armrest to seat distance	203,2 355,6
ISO7176-1 Clause 11	Static stability sideways	21.0° 23.5°	ISO7176-7 7.3.18	Front location of armrest structure	254 355,6
Energy consumption	N/A	N/A	ISO7176-7 7.3.24	Handrim diameter	431,8 590,6
Dynamic stability uphill	N/A	N/A	ISO7176-7 7.3.26	Horizontal location of axle	31,8 57,2
Obstacle climbing	N/A	N/A	ISO7176-5 3.25	Minimum turning radius	990,6 -
Maximum speed forward	N/A	N/A	ISO7176-3 9a	Parking brake - Maximum slope downhill	11.8° -
Min. braking distance - max speed	N/A	N/A	ISO7176-3 9a	Parking brake - Maximum slope uphill	11.4° -

Static stability Test results - Move

Reference	Stability Direction		Tipping angle	
			Least stable	Most stable
9,0	Forward	Front wheels locked	9,3	9,5
			N/A °	N/A °
		Front wheels unlocked	9,2	9,4
			25,2 °	34,8
10,0	Rear	Rear wheels locked	10,3	10,5
			9,2 °	10,0 °
		Rear wheels unlocked	10,2	10,4
			8,2 °	15,3 °
11,0	Rear	Antitip devices	11,2	11,3
			10,2 °	12,0 °
12,0	Sideways		12,1	12,2
		Left	21,0 °	23,5 °
		Right	21,0 °	23,5 °

The ISO7176 tests are available for the Motion Composites wheelchair user, service center, retailer or distributor. Please contact our service department at info@motioncomposites.com or call 1-450-588-6555 to get the complete test results.

Conversion chart

Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric
1/4"	0.6 mm	1"	2.5 cm	10"	25.4 cm	19"	48.3 cm
1/3"	0.8 mm	2"	5.0 cm	11"	28.0 cm	20"	50.8 cm
1/2"	1.3 mm	3"	7.6 cm	12"	30.5 cm	21"	53.3 cm
3/4"	2.0 mm	4"	10.2 cm	13"	33.0 cm	22"	55.9 cm
		5"	12.7 cm	14"	35.6 cm	23"	58.4 cm
		6"	15.2 cm	15"	38.1 cm	24"	61.0 cm
		7"	17.8 cm	16"	40.6 cm	25"	63.5 cm
		8"	20.3 cm	17"	43.2 cm	26"	66.0 cm
		9"	22.9 cm	18"	45.7 cm		



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