



SOMETHING HAD TO BE DONE. WE DID IT



KTHELIO C2

Maintenance manual& warranty information

Dealer: This manual must be given to the user of the HELIO **C2** wheelchair before its first use.

 $\mbox{User:}$ Prior to using the HELIO $\mbox{C2}$ 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



HELIO C2

Thank you for selecting the HELIO **C2** 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.



WARNING - READ THIS MANUAL

Do not operate this wheelchair without reading and understanding this owner's manual. If you are unable to understand the warnings, cautions and instructions, contact your Motion Composites dealer or customer support at 1- (450) 588-6555; 1-866-650-6555 (Canada); 1-877-667-6811(USA) before attempting to use this wheelchair.

If you ignore this warning, you may fall, tip over or lose control of the wheelchair and seriously injure yourself, others people and damage the wheelchair.

Made in Canada

with Canadian and imported parts

Contact information:

Motion Composites Inc.

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



United Kingdom

What a folding wheelchair should be.

Every little detail of the Helio C2 was specifically optimized to help you go farther!

Our wheelchair lets you minimize the risk of long-term shoulder and joint injuries by alleviating the energy needed to propel. Whether you push it forward or lift it in the trunk of a car, the helio C2 gives you more freedom!

26% lighter than the competition.

The Helio changed the way we see wheelchairs thanks to outstanding performance and unrivaled lightness. We are doing it again with the Helio C2, lowering our own trend-setting weight by 10%! Fully equipped, the Helio C2 is strikingly lighter than the competition with a 9 pounds difference.

The lowest seat-to-floor height.

The innovative frame design of the Helio C2 lets you achieve a super low 13 $_{1/2}{}^{\prime\prime}$ seat-to-floor height with a 4" caster on a standard frame.

That's the same frame that can go up to 21 1/4"!

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.

Get more mileage out of your energy.

Everybody benefits from an easier to propel wheelchair. Featuring an entirely symmetrical hydroformed crossbrace, oval shaped tubes and oversized pivot axles, our unique Ultrarigid Folding System (UFS) maximizes frame rigidity and energy conservation.

If you ignore these Warnings or fail to inspect or maintain your wheelchair as directed in the manual , you may fall, tip over or lose control of the wheelchair and seriously injure yourself or others or damage the wheelchair.







High-Modulus Carbon T700 - The lightest and most rigid material available, also renowned for its vibration dampening properties.



Rigid Unibody Frame - A unibody frame is much stronger and needs less maintenance than a standard two-part frame. It also reduces weight while maximizing propulsion efficiency.



Symmetrical Molded Crossbrace 3D - Entirely symmetrical carbon fiber crossbrace for reduced torsion and a better distribution of forces throughout the frame.



optional : **HD Kit** with **Reinforced Crossbrace 350 Ibs** - Same propreties as the Symetrical Molded Crossbrace 3D with added reinforced carbon fiber gives 350 lb (159 kg) weight capacity.



Ultrarigid Folding System - Extremely precise tolerances and oversized pivot axles for best-inclass propulsion efficiency.



Forged Vertical Axleplate + - Offers the most precise rear wheel adjustability of the industry. The vertical mounting maximizes rigidity and responsiveness.



Evolve Caster Housing - Imbedded inside the frame for rock solid durability, the Evolve Caster Housing offers easy and precise infinite adjustments.



Newton Accessories - The whole range of newton accessories are designed to be light and offer improved functionalities.





Carbon Fiber : The ultimate sophistication.

We use the same high quality material used in F1 and aerospace to design and build the lightest wheelchairs on earth.

Our T700 high-modulus carbon fiber is unrivaled when it comes to strength and rigidity. This means our frame is not only ultralight, but also exceptionally strong.



STHELIO C2

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If you ignore these Warnings or fail to inspect or maintain your wheelchair as directed in the manual , you may fall, tip over or lose control of the wheelchair and seriously injure yourself or others or damage the wheelchair.

AUTO BUCKLE AND AIRCRAFT BUCKLE SEATBELTS

9.5.3

9.6

9.6.1

4

SWING-AWAY ARMRESTS

SEAT BELTS



3. Product Overview

Parts List

- 1 Push handle 10 Caster housing
- 2 Back cane 11 Wheel lock
- 3 Arm pad
- 4 Rear wheel
- 5 Seat rail
- 14 Armrest pivot

12 Crossbrace

- 6 Front rigging
- 7 Footplate
- 15 Armrest

13 Rear wheel mounting plate

- 16 Anti-tipper
- 8 Caster 2 9 Fork (15) (14) 5 (6) (16)(13 ´12` (11)(10)



WARNING - WHEELCHAIR SELECTION

Motion Composites manufactures different models of wheelchairs to meet the needs of the end users. However, Motion Composites is not a health care advisor, and we are not aware about the individual condition or needs of the wheelchair user. Therefore, the final selection of the particular model, how it is adjusted, the type of options and accessories, rest solely with the wheelchair user and the health care professional adviser. Choosing the best chair and setup for your safety depends on the following criteria: 1. Your disability, strength, balance and coordination;

2. The types of hazards you must overcome in daily use (where you live and work and other places you are likely to use your chair); and 3. Your need for options for your safety and comfort (such as anti-tippers, positioning belts or special seating systems). If you ignore this warning, you may endanger your health.

WARNING - TIE-DOWN RESTRAINTS

Motion Composites recommends that wheelchair users not be transported in vehicles of any kind while in wheelchairs.

Motion Composites recognise that the safest transit option for a wheelchair user is to transfer into an appropriate seat in the vehicle and use the restraints system made available by the auto industry. Motion Composites cannot, and does not, recommend any wheelchair transporting systems.

WARNING - SEATING RESTRAINTS

It is the obligation of your dealer and health care professionals who are advising you to determine if you require a seating restraint or positioning system in order to ensure that you can safely operate your wheelchair. Serious injury can occur in the event of a fall from a wheelchair.



The information contained in this document is subject to change without notice. The most recent documents, updates and the latest version of this Owner's Manual are available on www.motioncomposites.com.



4. Before use

4.1 General WARNING



Your HELIO **C2** wheelchair has been designed by professionals with proper use of carbon fiber 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 HELIO **C2** wheelchair.

4.1.1 Safety Inspections and Maintenance

It is important to keep your wheelchair in proper working condition.

1. ALWAYS inspect and maintain your Motion Composites wheelchair strictly in accordance with the instructions and charts in Chapter 10.4 General Maintenance and Chapter 13 Safety Inspection Checklist.

2. If you detect a problem in the course of your inspections or maintenance, ALWAYS have the chair serviced or repaired to correct the problem before using the chair.

3. ALWAYS have your wheelchair completely inspected and serviced by an authorized Motion Composite certified technician at least once a year.

4. ALWAYS perform your safety inspections and any maintenance or adjustments while the chair is unoccupied (unless this Manual expressly states otherwise).

4.1.2 Motor Vehicle Safety WARNING



Motion Composites wheelchairs are NOT designed to be used for seating in a motor vehicle, and the wheelchairs do NOT meet Federal Highway standards for motor vehicle seating.

NEVER sit in your chair while in any type of moving vehicle (bus, automobile, van, truck, boat, train, etc.). In an accident or sudden stop, you may be thrown from the chair. In an accident or sudden stop, a wheelchair seat belt will NOT prevent injuries and may, in fact, cause injuries.

ALWAYS transfer to an approved vehicle seat before the vehicle begins moving.

ALWAYS secure yourself in the approved vehicle seat using the proper seating restraints (in a motor vehicle, lap/shoulder belts; in a plane, lap belts, etc.).

NEVER transport your chair in the front seat of a vehicle. Movements of the vehicle may cause the chair to shift and interfere with the driver's ability to control the vehicle. When transporting your chair in a moving vehicle, ALWAYS secure your chair so that it cannot roll or shift. In most cases, stowing it in the trunk is the safest alternative.

NEVER use any chair that has been involved in a motor vehicle accident. A wheelchair that has been involved in a motor vehicle accident may be damaged in ways that are not readily apparent and which could cause the chair to fail in use.

4.1.3 Acclimating to your new wheelchair WARNING



Each wheelchair is a unique piece of medical equipment. Whether you are a new wheelchair user or have years of experience, you MUST take the time to acclimate to the wheelchair before you begin riding. Start slowly and take the time to learn the handling, maneuvering and ride characteristics of this chair.

4.1.4 Note to users:

The HELIO **C2** 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).

4.1.5 Important WARNING when using the stroller-handle.



The stroller-handle is not designed to lift or pull the weight of user in the wheelchair. It's designed to push and guide the wheelchair user. Lifting or pulling the weight of the user in the wheelchair could initiate the breakage of the push-handle and cause serious injury.

4.1.6 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 HELIO C2 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 HELIO C2 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.

5. Tutorial

To find the latest tutorial or information or contact team at: http://www.motioncomposites.com/en/team/



6. Technical Specifications

6.1 Structure

Frame	Folding with carbon fiber C3 cross brace
Material	Aerospace grade carbon fiber composites
Weight	12 lbs (5.3 kg) (w/o rear wheels & footrest)
Weight capacity	Helio C2: 250 lbs (113 kg) Helio C2 HD: 350 lbs (159 kg)
6.2 Dimensions	
Width	14" (35.5 cm) to 20" (50.8 cm) Crossbrace CMC 3D (Helio C2)
	18" (45.7 cm) to 22" (55.9 cm) Crossbrace CR350 (Helio C2 HD)
Depth	14" (35.5 cm) to 20" (50.8 cm)
Front seat-to-floor height	13" (33.0 cm) to 21¼" (53.9 cm)
Rear seat-to-floor height	12 ½" (31.7 cm) to 20" (50.8 cm)

6.3 Adjustability

Upholstery	Tension adjustable or bolt on
Back height	9" (22.8 cm) to 21" (53.3 cm)
Adjustable angle	from 70° to 110°
Footrest	Swing in / Swing out
Camber	0°, 3°, 6°
Centre of gravity	from ½" (1.2 cm) to 4½" (10.1 cm) + amputee axle plate option

7. Safety

7.1 Periodic Checklist

See related appendix (section 13).

7.2 Weight Limitation

The HELIO C2 wheelchair has a weight limit of 250 lbs and the HELIO C2 HD is 350 lbs with the 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 250 lbs (113 kg) or 350 lbs (159 kg) 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.

7.3 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.



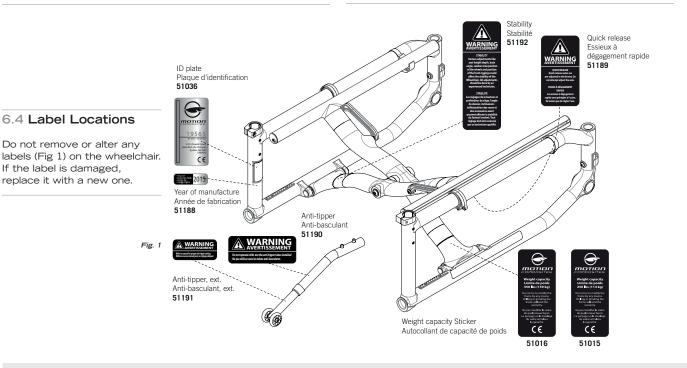
Should you make any adjustments, repairs or do any servicing, ensure that all fasteners are tightly secured before use.



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.







8. Riding your HELIO C2



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. Anti-tippers MUST be used with your wheelchair at all times. Because anti-tippers are an option in some markets on this wheelchair, Motion Composites strongly recommends to order the anti-tippers as they are an important safeguard for the wheelchair user. Always use anti-tippers.

8.1.2 Environmental Conditions

The HELIO **C2** 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

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- Never use removable parts (e.g. armrests, footrests) to push the wheelchair and never use them to lift the wheelchair occupied 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

8.2.0 In order to reduce the risk of a tip-over, you should:

1. CONSULT your doctor, nurse or therapist to find out what axle and caster position and other chair configuration options are best for you.

2. CONSULT your authorized Motion Composites dealer BEFORE you modify or adjust your wheelchair. Often, an adjustment you wish to make can be offset by another that you have not considered. For example, you may want to adjust the back angle rearward, which will increase the likelihood of a rear tip-over. You might not think you could counteract this tendency by moving the rear wheels backward. Your authorized Motion Composites dealer will be able to give you expert, personalized advice in such matters.

3. ALWAYS have someone assist you until you learn your chair's balance points and are completely comfortable in your ability to operate your chair under all conditions so as to avoid tip-overs.

4. ALWAYS use anti-tippers.

If you ignore these Warnings, you may fall, tip over or lose control of the wheelchair and seriously injure yourself or others or damage the wheelchair.

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 no 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.



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.



Maneuver. NEVER attempt t more than 4" high. ALWAYS go straig

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

ALWAYS unlock and rotate anti-tippers up and out of

the way so they do not prevent you from executing this

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.



KTHELIO C2

8.2.10 Moving with Assistance

Caregivers should read the "Caregiver" section of this manual. SECTION $8.1.3\,$

8.2.10.1 Climbing a curb or single step

1. **NEVER** attempt to negotiate a curb or single step without assistance.



 Instruct your assistant to stand at the rear of your wheelchair, with the front of the wheelchair facing the obstacle.
 NEVER attempt to negotiate any such

obstacle backward.

4. Instruct your assistant to tilt the chair up on the rear wheels so that the front casters clear the curb or step.

5. Instruct your assistant to slowly move the chair forward and to gently lower the casters to the upper level as soon as you are sure that they are beyond the edge of the curb or step.6. Instruct your assistant to continue to roll the chair forward until the rear wheels contact the face of the curb or step.7. Instruct your assistant to lift and roll the rear wheels up to the upper level.

8.2.10.2 Descending a curb or single step



1. **NEVER** attempt to negotiate a curb or single step without assistance.

2. When you are still several feet or a couple of meters from the edge of the curb or step, instruct your assistant to

stand at the rear of your wheelchair and turn it around so you are facing away from the curb.

3. **NEVER** attempt to negotiate any curb or similar obstacle facing forward.

4. Instruct the assistant to carefully step backwards, pulling the wheelchair backwards, until he or she is off the curb or single stair and standing on the lower level. The assistant should watch his or her step over his or her shoulder when backing up in this manner.

5. Instruct the assistant to carefully pull the wheelchair backward until the rear wheels reach the edge of the curb or step, and to then allow the rear wheels to slowly roll down to the lower level.

6. Instruct the assistant that, when the rear wheels are safely on the lower level, he or she may then tilt the chair backward to the balance point of the rear wheels, thereby raising the casters off the upper level.

7. Instruct the assistant to slowly roll the wheelchair backward on the rear wheels, taking small steps until the casters have cleared the step or curb and, when clear, to gently lower the casters to the ground at the lower level.

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 Climbing a flight of stairs warning



DO NOT CLIMB a flight of stairs with the user in the wheelchair. Motion Composites recognizes that wheelchair users may, on occasion, have no other choice and will need to be moved up or down a flight of stairs or will need to be lifted. Only when there is no other alternative, care givers and wheelchair users should follow these steps to climb a flight of stairs.

 $1.\ {\rm NEVER}$ attempt to negotiate more than one step unless you have two (2) able adult assistants.

 ALWAYS position the wheelchair and user facing away from the stairs, with one assistant at the rear (facing away from the stairs) and one at the front of the wheelchair (facing the user).
 The assistant at the rear of the wheelchair is in control and know how to climb a flight of stairs. He or she must tilt the wheelchair back to find its balance point on the rear wheels.
 NEVER attempt to lift a wheelchair by lifting on any

removable (detachable) parts, including upholstery, removable push handles or push handle grips.

 ALWAYS hold the wheelchair from a solid part of the frame.
 The second assistant at the front must firmly grip the frame (NOT the footrest or footplate) with both hands and lift the wheelchair up and over one stair at a time.

7. Each assistant then carefully moves up to the next stair.8. Repeat steps 1 through 6 for each stair, until you reach the top of the stairs.

9. When you reach the top of the stairs, the assistants should roll the wheelchair backward on the two rear wheels until the casters have cleared the last step, at which point the assistants can gently lower the casters on the floor.

8.2.13 Descending a flight of stairs warning



A

DO NOT DESCEND a flight of stairs with the user in the wheelchair.

Motion Composites recognizes that wheelchair users may, on occasion, have no other choice and will need to be moved up or down a flight of stairs. Only when there is no other alternative, care givers and wheelchair users should follow these steps to descend a flight of stairs.

 $1.\ {\rm NEVER}$ attempt to negotiate more than one step unless you have two (2) able adult assistants.

 ALWAYS position the wheelchair and user facing down from the stairs, with one assistant at the rear (facing dons from the stairs) and one at the front of the wheelchair (facing the user).
 The assistant at the front of the wheelchair is in control and know how to descend a flight of stairs. The person at the rear must tilt the wheelchair back to find its balance point on the rear wheels.

4. NEVER attempt to lift a wheelchair by lifting on any removable (detachable) parts, including upholstery, removable push handles or push handle grips.

5. ALWAYS hold the wheelchair from a solid part of the frame.6. The assistant at the front must firmly grip the frame (NOT the footrest or footplate) with both hands and lift the wheelchair over one stair at a time.

7. Each assistant then carefully moves down to the next stair. 8. Repeat steps 1 through 6 for each stair, until you reach the bottom of the stairs.

9. When you reach the bottom of the stairs, the assistants should move the wheelchair forward until the two rear wheels clears the last step, at which point the assistants can gently lower the casters and back wheels on the floor.

If you ignore these warnings, you may fall, tip over or lose control of the wheelchair and seriously injure yourself or other people and or damage the wheelchair.

8.2.14 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.

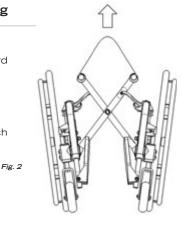


9. How to use your HELIO C2

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.



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



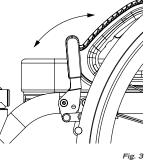
Never use wheel locks to stop wheelchair movement. WHEEL LOCKS ARE NOT BRAKES. Make sure the surface is not slippery as the wheelchair could move even though the wheel locks are engaged.



Ensure that the stem locks imbed at least $1/8^{\prime\prime}$ (0.3 cm) 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 pullto-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.



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

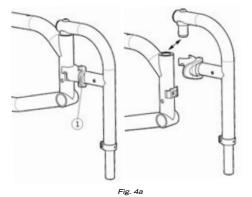
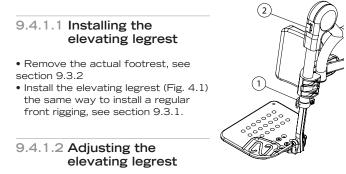


Fig. 4b

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



- 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 (Fig. 5):

- Pull lever (1) 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.

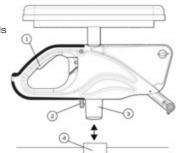
9.5.2 Removable T armrests

- 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.

9.5.3 Swing-Away Armrests

To remove the armrests from the wheelchair (Fig. 7):

- Lift them straight up to release the armrest.
- To reinstall the armrests, insert then back in the armrest receiver (1) until they set into place.



0

6

0

0

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.



Fig. 5

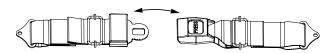
Fig. 6

Fig. 7

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
- There should be approximately one hand width of space between the seat belt and thigh; do not exceed this amount of space.
- 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

WARNING Motion Composites strongly recommends the use of anti-tippers

Anti-tippers (Fig. 8) were designed to prevent falls from the wheelchair

- To remove or rotate the antitippers 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.

If you ignore these Warnings or fail to inspect or maintain your wheelchair as directed in the manual , you may fall, tip over or lose control of the wheelchair and seriously injure yourself or others or damage the wheelchair.



9.8 Rear Wheels Axles

9.8.1 Quick-release axles

WARNING QR AXLES Stainless quick-release axles are a standard wheelchair component. Other axle types are optional equipment. All quick-release axles are designed to make your rear wheels easy to remove quickly. However, if not used properly, they can be dangerous.

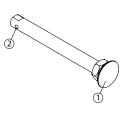


Fig.

Fig. 10



NEVER use your chair UNLESS you are sure that both rear axles are locked into place in the axle receiver. If an axle is not fully locked into place, the rear wheel may come off during use of the chair and cause you to fall. You can notice when the axle is locked into place because the quick-release button in the center of the axle will pop out fully. It is also a good idea to pull on the wheel to double-check that the axle is securely locked as a final precaution.

- 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.

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.

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).

9.10 Push Handles

Push handles are optional equipment on some Motion Composites wheelchairs. Push handles provide secure points for an attendant or assistant to hold the rear of the wheelchair to prevent a fall or tip-over. If you have an attendant or assistant, you should have push handles installed on your wheelchair by Motion Composites or a certified Motion Composites dealer.

Motion Composites offers push handles that are integrated to the back canes or bolt-on push handles. Motion Composites recommends that you do NOT use non-Motion Composites bolton push handles because they could damage the backrest or the back canes of the Motion Composites wheelchair.

Your attendant or assistant should regularly check the push handle grips to make sure they fit securely and will not rotate or slip off.

Push handles should NEVER be used to lift the wheelchair or pull the chair, especially when it is occupied, as they may detach.

ALWAYS lift or pull the wheelchair by grasping a nondetachable part of the frame (not the detachable handles, backrest, armrest or footrest).

If you fail to observe these warnings damage to the chair, a fall, tip-over or loss of control may occur and cause severe injury to the wheelchair user, the assistant or others people.

10. Adjustments and maintenance of your HELIO C2

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:

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





10.3 Tools needed



The HELIO C2 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.

The 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 High pressure	11/4 and 1 3/8"	110 psi
Pneumatic 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 abrasive cleaners.

14

• 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 section13 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 you 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. 11) and (2), which are also used to support the armrest socket (Swing Away and Flip Back armrest).
- Slide 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.

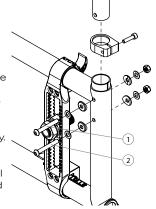


Fig. 11

- Loosen screw (1) (Fig. 12)
- 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.

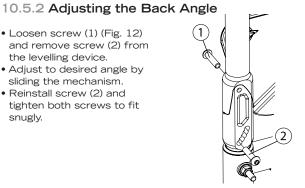
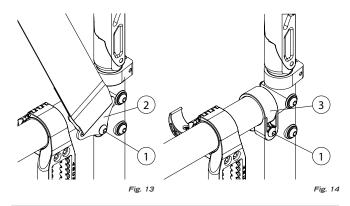


Fig. 12

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. 13)
- Reinstall screw (1) directly on the frame clamp (3) (Fig. 14)
- Tighten screw (1) until it is properly tightened.
- Repeat the same steps on the other side



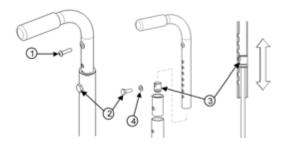


10.6.1 Installing Flip-back Armrests

10.6 Armrest

10.5.4 Adjusting the Backrest Height

- Loosen the screw (1) (Fig. 15) that holds the back upholstery.
- Pull backrest upholstery down several centimeters in order to access screw (2) that holds the push handle.
- Remove screw (2) and the backrest handle.
- To adjust the backrest height, with the help of a threaded rod (1/4"-20), move the dowel nut (3), which is located inside the handle
- Once this step is completed, use screw (2) to hold the dowel nut (3) while removing the threaded rod.
- Remove screw (2) and reinstall backrest handle.
- Align screw (2) with the mounting hole.
- Reinstall and tighten screw (2) and the washer.
- Repeat the same steps on the other side.
- Reinstall the backrest upholstery with screw (1) and tighten to fit snugly.



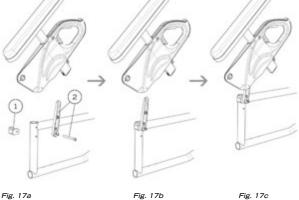
10.5.5 Installing/Removing Standard Seat Upholstery

- Remove screw (1) (Fig. 16) that holds the back upholstery.
- Pull backrest upholstery down several centimeters to gain access to screw (2), which holds the push handle.
- Remove screw (2) and then remove the backrest handle.
- Remove or install back upholstery.
- Once, the new back upholstery is installed, reinstall the handles by aligning them with the mounting holes.
- Reinstall and tighten screw (2) firmly.
- Install back upholstery at and fix it firmly with screw (1) on each back cane.

Fig. 15

Fig. 16

2



- Insert the flip-back pivot (1, 2) (Fig. 17a) and screw it in place, making sure it stays in place but can rotate easily.
- Insert the armrest (Fig. 17b) on the flipback pivot than rotate it until it clicks with the armrest receiver (Fig. 17c) (for clamp installation, see 10.6.3 installing removable T-armrests).

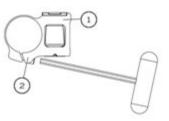
10.6.2 Adjusting the height of Flip-back armrests

- Flip lever (1) left or right to unlock the armrest (Fig. 18).
- 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. 18

10.6.3 Installing removable T-armrests and rigid sideguard

- Install armrest receiver (1) (Fig. 19) on the upper tube of the frame at a distance of 160mm (6 1/4") from the rear tube of the frame.
- Slightly tighten screws (2) to allow the clamp to rotate.
- Insert armrest or sideguard into receiver (1).
- Rotate receiver (1) until the sideguard is perpendicular to the seat.
- Tighten screws (2) firmly.

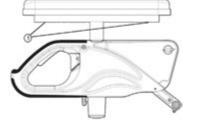






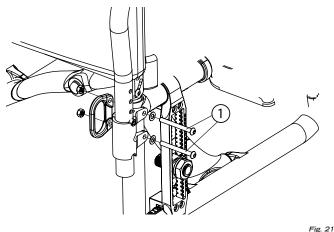
10.6.4 Replacing Armrest Pad

- Remove screws (1) (Fig. 20) located under pad (through the tube).
- Replace with new armrest pad.
- Reinstall screws (1) and tighten firmly.



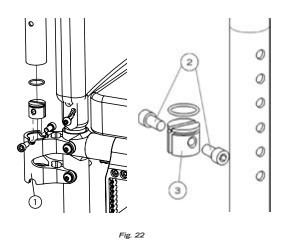
10.6.5 Installing the Swing-away Armrest receiver

- Remove the two bolts (1) (Fig. 21).
- Align the armrest receiver with the mounting holes of the frame and of the transit securement anchor.
- Reinstall the bolts and tighten firmly.



10.6.6 Adjusting Swing-away Armrest height

- Pull the armrest out of the receiver (1) (Fig. 22).
- Remove screws (2) (Fig. 23).
- Inside the armrest tube, slide the dowel nut with a long flat screwdriver at the desired height (3)
- Reinstall screws (2).
- Reinsert armrest in receiver.



damage the wheelchair.

10.7 Footrest lenght

10.7.1 Adjusting Footrest length

- Loosen screw (1) (Fig. 24).
- Slide the extension tube inside the front rigging at the desired length.
- Tighten screw (1) firmly.

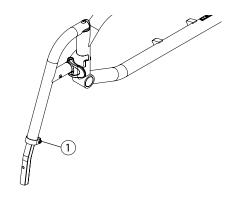


Fig. 24

Fig. 20

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.
- 25).
- 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. 25

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**

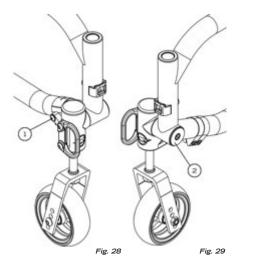
- Loosen nut (3) and remove bolt (1) (Fig. 27).
- · Remove, install or reposition the front caster.
- Place spacers (2) between the caster and the fork.
- Tighten nut (3) firmly.

10.10.2 Removing/Installing the caster housing

- Remove screw (1) (Fig. 28).
- Remove screw (2) (Fig. 29).
- Slide the caster housing out of the frame.

To reinstalled

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



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

OTION COMPOSITES

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. 30

To remove the stem bolt:

- Remove plastic cap (1) (Fig. 30). Loosen lock nut (2) while holding the stem bolt (3) from the
- bottom to prevent the fork from turning.
- The caster wheel will usually need to be removed to take out stem bolt (3).
- Remove the fork 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:

2

Fig. 27

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

10.10.4 Adjusting the caster 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, remove the screws (4) (Fig. 31) and loosen the pivot bolt (3) (Fig. 31).
- Rotate the caster housing to adjust the angle while sliding clamp (5) on the frame.
- Tighten screw (3). This will hold the caster housing position. • Check again that the caster housing is perpendicular to the ground using the set square. (fig. 32)
- Reinstall the two screws (4) in the clamp (5).
- Tighten screws (4) to a snug fit.
- · Final tightening should be done manually.

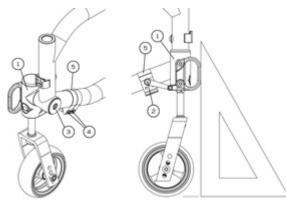
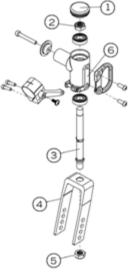


Fig. 31

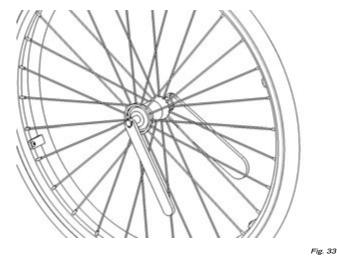


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10.11 Rear wheels

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. 33) 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.



10.11.2 Replacing/Adjusting hand rims

- Use a plastic tire removal tool to take off the tire (1) (Fig. 34).
- 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.

18

10.11.3 Adjusting the rear axle height

- Loosen the nut holding the axle bushing. (3) (Fig. 35 - Fig. 36)
- Move axle bushing (1) along mounting plate (2).
- Reinstall the bushing in the desired mounting hole and tighten nut (3).



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

The seat height, seat depth, back

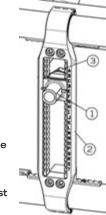


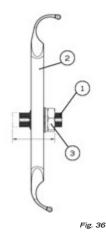
Fig. 35

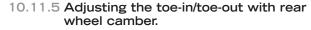
have specific positions depending on rear wheel size, rear wheel position, front caster size/position and seat-to-floor angle. These adjustments MUST be performed by a qualified technician

10.11.4 Adjusting rear wheel spacing

The rear wheels can be adjusted laterally by repositioning axle bushing (1) (Fig. 36) 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).





- Remove the rear wheel.
- Maintain the wheelchair on a horizontal plane with the support of the three other wheels.
- Loosen nuts (1) (Fig. 37) while keeping a bit of tension.
- Put the camber adjustment tool on the axle bushing
- Use a set square and rotate the axle bushing so that the tool is parallel to the set square (and perpendicular to the ground)
- With one hand, hold the tool and the mounting plate together to keep the setting.
- With the other hand, use a ratchet to tighten firmly the nut (1) facing inside the wheelchair.

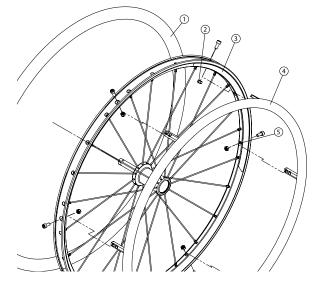


Fig. 34

If you ignore these Warnings or fail to inspect or maintain your wheelchair as directed in the manual , you may fall, tip over or lose control of the wheelchair and seriously injure yourself or others or damage the wheelchair.



10.12 Wheel Locks

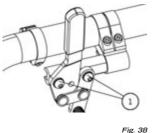
10.12.1 Replacing/Adjusting the Wheel Locks

- Loosen screws (1) (Fig. 38).
- 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 3 mm into the tire.

10.13 Lock Extension

10.13.1 Replacing/Adjusting the wheel lock extensions

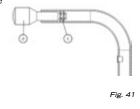
- Loosen screw (1) (Fig. 39).
- Align eyelet (2) with the mounting hole.
- Re-tighten screw (1) on the lock lever.



10.15. Headrest Kit and Headrest Support

10.15.1 Installing a headrest support

- Cut the end of the push-handle 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. 41) 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.

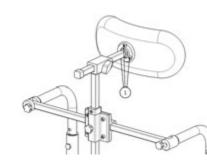


10.15.2 Installing Headrest Kit

- 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. 42).

Fig. 42

• Once the adjustment is completed, firmly tighten all parts.



10.14 Anti-tippers

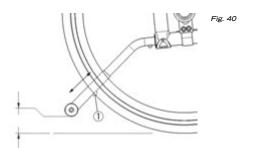
10.14.1 Adjusting the Height of the Anti-tippers

Fig. 39

Anti-tippers MUST be used with your wheelchair at all times. Because anti-tippers are an option in some markets on this wheelchair, Motion Composites strongly recommends to order the anti-tippers as they are an important safeguard for the wheelchair user. Always use anti-tippers.

The anti-tippers should be between $1\frac{1}{2}$ and $2\frac{3}{4}$ 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. 40) and slide anti-tippers extensions to desired length.
- Ensure the button snaps back into place.





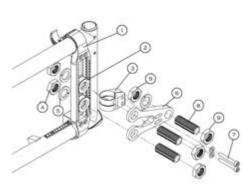
If you are unable to adjust the anti-tippers to the proper height, contact your Motion Composites dealer to replace your anti-tipper for another size.



10.16 Amputee Axle Plate

10.16.1 Installing an amputee axle plate

- Install mounting plate (1) (Fig. 43) by closing the clamps around the frame.
- Insert a second axle receiver (2) on the axle plate
- Install the back clamp (3) onto the rear of the frame.
- Insert two axle bushing (8) through axle plate (6) and in the two axle receiver (2) and secure with bolt and washer (4)(5).
- Insert two screws (7) into amputee axle plate through the mounting clamp and tighten.
- Insert axle bushing (8) through the amputee plate and tighten nuts (9).



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10.17 Using a paratransit service



Motion Composites recommend that wheelchair users should not be transported in any kind of vehicles while sitting in a wheelchair. Motion Composites recognise that the safest transit option for a wheelchair user is to transfer into an appropriate seat in the vehicle and use the seat belts made available by the auto industry. Motion Composites cannot, and does not, recommend any wheelchair transporting systems.

The standard wheelchair seatbelt should never be used as a safety seat belt when sitting in a paratransit vehicle.

Only Use approved transit tie-down systems if equipped with WC-19 approved attachment directly mounted on the wheelchair frame. To avoid risk of injuries, remove all objects or accessories from the wheelchair and store them securely in the paratransit vehicle.

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 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 one (1) year 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:

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• damage arising from normal wear and tear or from other circumstances beyond Motion Composites' control;

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.



IMPORTANT NOTICE REGARDING CONSUMERS RIGHTS

The benefits we give in this manufacturer's warranty are additional to, and do not detract from, any rights and remedies that you may have under local consumer protection laws. This manufacturer's warranty is governed by the laws of the country, province, state or territory in which you purchased your Motion Composites product.

In many countries, consumers have statutory rights under local consumer laws. Those consumer rights may differ between countries, territories, states or provinces, and often cannot be excluded.

This Manufacturer's warranty is not intended to:

- change or exclude any statutory consumer rights that cannot be lawfully changed or excluded; or
- limit or exclude any right you have against the person who sold the Motion composites product to you if that person has breached their sales contract with you.

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 innertubes
- 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 antitippers, 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 you 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.

Keys:

10 mm

11 mm

1/2" (13 mm)

Tools

Allen key:	
2,5 mm	
3 mm	
4 mm	
5 mm	

For Quick Release: 7/16" (11 mm)

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

Phillips screwdriver



13. Maintenance and 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 tension.

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, JOK 3H0 Phone: 1-866-650-6555 Fax: (450) 588-0200 support@motioncomposites.com www.motioncomposites.com

Authorized representative

Advena Ltd. Pure Offices, Plato Close, 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):

Helio C2 manual wheelchair

Manufacturing site:

Motion Composites 519 J-Oswald-Forest Suite 101, St-Roch-de-l'Achigan Quebec, Canada, JOK 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 manoeuvring 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.

Motion Composites

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



I. Appendix

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

		3" cas	ster		4" cas	ster		5" cas	ster		6" cas	ter		7" cas	ster		8" cas	ster	
IN	СН	Stem	bolt lei	ngth	Stem	bolt lei	ngth	Stem	bolt ler	ngth	Stem	bolt ler	ngth	Stem	bolt lei	ngth	Stem	bolt le	ngth
For	ks	STD	+1"	+2"	STD	+1"	+2"												
4"	P1	13	14	15	13 1/2"	14 1/2"	15 1/2"												
	P2	13 1/2"	14 1/2"	15 1/2"	14	15	16	14 1/2"	15 1/2"	16 1/2"									
5"	P1																		
	P2	13 3/4"	14 3/4"	15 3/4"	14 3/4"	15 3/4"	16 3/4"	14 3/4"	15 3/4"	16 3/4"									
	P3	14 1/4"	15 1/4"	16 1/4"	14 3/4"	15 3/4"	16 3/4"	15 1/4"	16 1/4"	171/4"	15 3/4"	16 3/4"	17 3/4"						
	P4	14 3/4"	15 3/4"	16 3/4"	15 1/4"	16 1/4"	17 1/4"	15 3/4"	16 3/4"	17 3/4"	16 1/4"	17 1/4"	18 1/4"	16 3/4"	17 3/4"	18 3/4"			
7"	P1										16 1/4"	17 1/4"	18 1/4"	16 3/4"	17 3/4"	18 3/4"			
	P2							16 1/4"	17 1/4"	18 1/4"	16 3/4"	17 3/4"	18 3/4"	17 1/4"	18 1/4"	19 1/4"			
	P3							16 3/4"	17 3/4"	18 3/4"	17 1/4"	18 1/4"	19 1/4"	17 3/4"	18 3/4"	19 3/4"	18 1/4"	19 1/4"	20 1/4"
	P4				16 3/4"	17 3/4"	18 3/4"	17 1/4"	18 1/4"	19 1/4"	17 3/4"	18 3/4"	19 3/4"	18 1/4"	19 1/4"	20 1/4"	18 3/4"	19 3/4"	20 3/4"
	P5	16 3/4"	17 3/4"	18 3/4"	17 1/4"	18 1/4"	19 1/4"	173/4"	18 3/4"	19 3/4"	18 1/4"	19 1/4"	20 1/4"	18 3/4"	19 3/4"	20 3/4"	19 1/4"	20 1/4"	21 1/4"

		3" ca	ster		4" ca	ster		5" ca	ster		6" ca	ster		7" ca	ster		8" ca	ster	
CN	1	Stem	ı bolt le	ength	Stem	ı bolt le	ength	Stem	ı bolt le	ength									
For	ks	STD	+1"	+2"	STD	+1"	+2"	STD	+1"	+2"	STD	+1"	+2"	STD	+1"	+2"	STD	+1"	+2"
4"	P1	33,0	35,6	38,1	34,3	36,8	39,4												
	P2	34,3	36,8	39,4	35,6	38,1	40,6	36,8	39,4	41,9									
5"	P1																		
	P2	34,9	37,5	40,0	37,5	40,0	42,5	37,5	40,0	42,5									
	Р3	36,2	38,7	41,3	37,5	40,0	42,5	38,7	41,3	43,8	40,0	42,5	45,1						
	P4	37,5	40,0	40,0	38,7	41,3	43,8	40,0	42,5	45,1	41,3	43,8	46,4	42,5	45,1	47,6			
7"	P1										41,3	43,8	46,4	42,5	45,1	47,6			
	P2							41,3	43,8	46,4	42,5	45,1	47,6	43,8	46,4	48,9			
	Р3							42,5	45,1	47,6	43,8	46,4	48,9	45,1	45,1	50,2	46,4	48,9	51,4
	P4				42,5	45,1	47,6	43,8	46,4	48,9	43,2	47,6	50,2	46,4	48,9	51,4	47,6	50,2	52,7
	P5	42,5	45,1	47,6	43,8	46,4	48,9	45,1	47,6	50,2	46,4	48,9	51,4	47,6	50,2	52,7	48,9	51,4	54,0

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

Wheel size	Height available ± ¼" (0.6 cm)
20" wheel	12 ½" (31.7 cm) to 17" (43.1 cm)
22" wheel	13 ½" (34.2 cm) to 18" (45.7 cm)
24" wheel	14 ½" (36.8 cm) to 19" (48.2 cm)
25" wheel	15" (38.0 cm) to 19 ½" (49.5 cm)
26" wheel	15 ½" (39.3 cm) to 20" (50.8 cm)



<u>KEHELIO C2</u>

Disclosure Information (ISO) chart

Standard reference		min.	max.	Standard reference		min.	max.
	Overall length with legrest	711,2	1130,3	IS07176-7 7.3.2	Seat plane angle	0°	25.0°
	Overall width	546,1	749,3	IS07176-7 7.3.3	Effective seat depth	355,6	508
	Folded length	711,2	1130,3	IS07176-7 7.3.5	Eff ective seat width	355,6	558,8
	Folded width	317,5	419,1	IS07176-7 7.3.6	Seat surface height at front edge	330,2	539,8
	Folded height	609,6	1092,2	IS07176-7 7.3.7	Backrest angle	-5.0°	20.0°
	Total mass	7.5kg	15.5kg	IS07176-7 7.3.8	Backrest height	381	533,4
	Mass of the heaviest part	12kg	7.8kg	IS07176-7 7.3.12	Footrest to seat distance	342,9	533,4
ISO7176-1 Clause 9	Static stability downhill (UNLOCK)	20.7°	31.8°	IS07176-7 7.3.16	Leg to seat surface angle	90.0°	60.0°
IS07176-1 Clause 10	Static stability uphill (UNLOCK)	7.4°	8.8°	IS07176-7 7.3.17	Armrest to seat distance	203,2	355,6
IS07176-1 Clause 11	Static stability sideways	21.0°	24.0°	IS07176-7 7.3.18	Front location of armrest structure	254	355,6
	Energy consumption	N/A	N/A	IS07176-7 7.3.24	Handrim diameter	431,8	590,6
	Dynamic stability uphill	N/A	N/A	IS07176-7 7.3.26	Horizontal location of axle	19,1	88,9
	Obstacle climbing	N/A	N/A	IS07176-5 3.25	Minimum turning radius	990,6	-
	Maximum speed forward	N/A	N/A	IS07176-3 9a	Parking brake - Maximum slope downhill	12,1	-
	Min. braking distance - max speed	N/A	N/A	IS07176-3 9a	Parking brake - Maximum slope uphill	12,2	-

Static stability Test results - Helio C2

Reference	Stability Direction		Tipping angle	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		
			32,0 °	36,8		
10,0	Rear	Rear wheels locked	10,3	10,5		
			7,4 °	8,8 °		
		Rear wheels unlocked	10,2	10,4		
			7,9 °	15,3 °		
11,0	Rear	Antitip devices	11,2	11,3		
			11,1 °	12,2 °		
12,0	Sideways		12,1	12,2		
		Left	21,0 °	24,0 °		
		Right	21,0 °	24,0 °		

The ISO7176 tests are available for the Motion Composites wheelchair use ; service center, retailor or distributc . Please contact our service department at info@motioncomposites.com or c \cdot III 1-450-588-6555 to get the comple te test results.

Conversion chart

Inch	es	Metric	Inches	Metric	Inches	Metric	Inches	Metric
1/-	4"	0.6 cm	1"	2.5 cm	10"	25.4 cm	19"	48.3 cm
1/	2"	1.3 cm	2"	5.1 cm	11"	27.9 cm	20"	50.8 cm
3/-	4"	2.0 cm	3"	7.6 cm	12"	30.5 cm	21"	53.3 cm
			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		

If you ignore these Warnings or fail to inspect or maintain your wheelchair as directed in the manual , you may fall, tip over or lose control of the wheelchair and seriously injure yourself or others or damage the wheelchair.