

### **Owner's Manual**



This booklet contains important information about this product. Please give to the owner upon delivery.

### **Owner's Manual: NEOX™ DYNAMIC**

Dynamic Tilt Wheelchair

Physipro Inc. is proud to count you among its customers and would like to thank you for the confidence you have shown by purchasing our product.

This owner's manual was created to provide you with all the information needed to allow you to use our product in a safe and optimal way. For all adjustments and settings, we strongly recommend you contact your distributor.

Physipro Inc relieves itself of all liability should physical injury or property damage occur due to the lack of maintenance or misuse of our product, or from modifications made to the product without the prior written consent of Physipro Inc.

For Physipro Inc. your satisfaction is our highest priority.

Product information:
Purchase date:
Serial number:
Distributor:
Address:
Telephone:



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### 1. Device Plan

#### **NEOX<sup>™</sup> Dynamic**

The Neox<sup>™</sup> Dynamic wheelchair with aluminum frame provides remarkable versatility and adaptability. The numerous adjustments ensure a personalized postural support throughout the occupant's changing needs and clinical conditions.

The 30° tilt system allows the occupant to change the angle of the seat and backrest during the day to prevent the formation of pressure sores, optimize comfort and enable the occupant to be placed in a resting position.

The tilt pivot point is located at the very front of the frame, this ensures that knee height remains constant regardless of the wheelchair's tilt angle. This feature facilitates lower limb propulsion.

The Neox<sup>™</sup> Dynamic wheelchair offers various optional components and adjustments to meet the occupant's specific needs.

Designed for use as a seat in a motor vehicle or adapted transport. This wheelchair is suitable for individuals weighing 265 lbs or less.

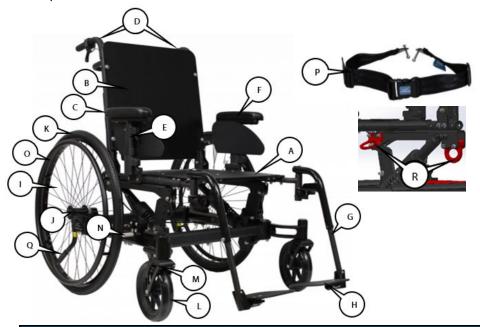
Intended for an adult clientele as well as elderly clients, who are experiencing a loss in mobility, episodes of spasticity, or have a medical condition.

It is primarily meant for use in long-term care facilities, public or private retirement homes or wheelchair accessible private housing.



### **Standard Components – NEOX<sup>™</sup> DYNAMIC**

The standard components provided with the Neox<sup>™</sup> Dynamic wheelchair are shown in the picture below.



	NEOX <sup>TM</sup> DYNAMIC - Standard Components	
А	Rigid seat plate, with depth adjustment	
В	Rigid backrest	
С	Straight back post, with angle and height adjustments	
D	Push handles with grip covers, with height and orientation adjustments	
Е	Armrest, desk length, flip-back or removable	
F	Armrest foam pad, desk length, flat	
G	Legrest bracket, tapered or narrowed, removable or pivoting	
н	Separated footrest, removable, with angle and depth adjustments, standard length	
Ι	Propulsion wheel, any diameter	
J	Fixed-mounted wheel axle	
Κ	Semi-solid propulsion wheel tire, any diameter	
L	Caster wheel with semi-solid tire, any diameter	



М	Caster forks, with height adjustment
Ν	Wheel locks, Push-to-lock
0	Handrims
Ρ	Pelvic positioning belt
Q	Anti-tip device
R	Tie-down strap securement points for adapted transport

### **Optional Components – NEOX<sup>™</sup> DYNAMIC**

Physipro Inc. offers a vast selection of accessories and options to ensure that each wheelchair can be customized to the specific needs of the occupant. For more information, please contact Physipro Inc. or consult the order form.

NEOX <sup>TM</sup> DYNAMIC – Substitutional Components
Sling backrest, with tension adjustment
Stroller bar with grip cover, with height and orientation adjustment
Armrest, full length, flip-back or removable
Armrest foam pad, full length, flat
Armrest foam pad, waterfall style
Armrest gel pad
Elevating and articulating legrest
Separated footrest, removable, with angle and depth adjustments, oversized
Folding footrest, full width, with angle and depth adjustment
Plastic propulsion wheels, any diameter
Quick-release propulsion wheel axle
Pneumatic propulsion wheel tire, standard pressure, any diameter
Wheel locks, Pull-to-lock

Plastic coated handrims

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### NEOX<sup>TM</sup> DYNAMIC - Add-on Components

Dynamic or Reclining gas spring backrest

Clothing guard

Calf support with flat or profiled padding, with angle, depth, and height adjustments

Calf strap with padding, single

Calf strap with padding, double

Heel support strap, adjustable

Wheel lock handle extension, telescopic or fixed

Spoke-guard

Reflective safety stickers

Backrest tension bar

Headrest support mounting fixture for backrest tension bar, with height adjustment

Headrest support, with angle, depth, and height adjustment

Padded headrest

### Autres composants optionnels disponibles – NEOX<sup>TM</sup> DYNAMIC

Attendant wheel lock

Power-tilt mechanism (occupant-controlled)

Cane holder, single or double

Oxygen tank holder



### 2. Technical Specifications

### **NEOX<sup>TM</sup>DYNAMIC**

TECHNICAL SPECIFICATIONS	
Manufacturer	Physipro Inc.
Model	Neox™ Dynamic Tilt wheelchair
Maximum load capacity	265 lbs (120 kg)

MEASUREMENT OF SEATING AND WHEEL DIMENSIONS	
Seat Plane angle Method of measurement: Part 1: ISO 7176-7, section 7.3.2	0° to 30°
Effective seat depth Method of measurement: Part 2: ISO 7176-7, section 7.3.3	14" to 20" (355 mm to 505 mm)
Effective seat width Method of measurement: Part 4: ISO 7176-7, section 7.3.5	14" to 22" (355 mm to 560 mm)
Seat surface height at front edge Method of measurement: Part 5: ISO 7176-7, section 7.3.6	13" to 19" (330 mm to 480 mm) Adjustable in increments of 1"
Backrest angle Method of measurement: Part 6: ISO 7176-7, section 7.3.7	Standard Backrest: 85º to 120º Dynamic Backrest: 85º to 110º Adjustable in increments of 5º Reclining Gas Spring Backrest: 85º to 130º, continuous adjustment
Backrest height Method of measurement: Part 7: ISO 7176-7, section 7.3.8	Standard Back Post: 16" to 25" (405 mm to 635 mm) Dynamic Back Post: 14 ¾" to 27 ¾" (356 mm to 686 mm) Adjustable in increments of 1"
Footrest to seat distance Method of measurement: Part 11: ISO 7176-7, section 7.3.12	60º Footrest: 11 ¼" to 21" (280 mm to 530 mm) 70º Footrest: 10 ¾" to 20 ½" (255 mm to 508 mm) 90º Footrest: 10 ½" to 20 ½" (254 mm to 508 mm) Adjustable in increments of ½"
Leg to seat surface angle Method of measurement: Part 15: ISO 7176-7, section 7.3.16	60°, 70°, 90°
Armrest height Method of measurement: Part 16: ISO 7176-7, section 7.3.17	T-type Armrest: 8" to 15 ½" (200 mm to 381 mm) U-type Armrest: 6 ¾" to 16 ½" (152 mm to 406 mm) Adjustable in increments of ½"
Caster/front wheel diameter Method of measurement: Part 27: ISO 7176-7, section 7.3.28	5" (127 mm), 6" (152 mm) or 8" (203 mm)



Handrim diameter	Wheel: 20'' (508 mm) : Handrim: 17 ‰'' (432 mm)
Method of measurement:	Wheel: 22'' (559 mm) : Handrim: 19 ‰'' (483 mm)
Part 23: ISO 7176-7, section 7.3.24	Wheel: 24'' (610 mm) : Handrim: 21 ‰'' (533 mm)
Horizontal displacement of wheel axle Method of measurement: Part 25: ISO 7176-7, section 7.3.26	Adjustment range: 3" (76 mm), Adjustable in increments of 1"

DETERMINATION OF DIMENSIONS AND MANOEUVRING	
Overall length Method of measurement: ISO 7176-5, section 8.2	Effective seat depth + 27 ½" (686 mm)*
Overall width Method of measurement: ISO 7176-5, section 8.3	Effective seat width + 11" (280 mm)*
Stowage length Method of measurement: ISO 7176-5, section 8.5	N/A
Stowage width Method of measurement: ISO 7176-5, section 8.6	N/A
Ground clearance Method of measurement: ISO 7176-5, section 8.14	1'' (25 mm)**
Turning diameter Method of measurement: ISO 7176-5, section 8.13	65 ¼'' (1651 mm)
Reversing width Method of measurement: ISO 7176-5, section 8.12	N/A
Pivot width Method of measurement: ISO 7176-5, section 8.11	51 ½" (1295 mm)
Push handle height	38'' (965 mm)
Required width of angled corridor	42 ½'' (1080 mm)
Required doorway entry depth	54 ½'' (1384 mm)
Required corridor width for side opening	36 ℁'' (924 mm)
Anti-tip lift height (Rising)	1 ½'' (38 mm)

\* May vary depending on the selected options - footrest included. \*\* Based on the lowest setting of the anti-tip devices.

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### WHEELCHAIR MASS

Wheelchair total mass Method of measurement: BNQ 6645-001, table 10, line 10

### 71,6 lbs (32,55 kg)

DETERMINATION OF FORWARD STATIC STABILITY			
Tipping angle of wheelchair in the least stable configuration, with caster wheels unlocked18,1°Method of measurement: ISO 7176-1, section 8.218,1°			
Tipping angle of wheelchair in the least stable configuration, with caster wheels locked Method of measurement: ISO 7176-1, section 8.3	N/A		

DETERMINATION OF REARWARD STATIC STABILITY		
Tipping angle of wheelchair in the least stable configuration, with propulsion wheels unlocked Method of measurement: ISO 7176-1, section 9.2	23,8°	
Tipping angle of wheelchair in the least stable configuration, with propulsion wheels locked Method of measurement: ISO 7176-1, section 9.3	15,7°	

DETERMINATION OF SIDEWAYS STATIC STABILITY		
Tipping angle of wheelchair in the least stable configuration, left side Method of measurement: ISO 7176-1, section 10.2	22,9°	
Tipping angle of wheelchair in the least stable configuration, right side Method of measurement: ISO 7176-1, section 10.2	22,9°	

DETERMINATION OF STATIC STABILITY OF ANTI-TIP DEVICES		
Rearward tipping angle of wheelchair in the least stable configuration Method of measurement: ISO 7176-1, section 11.2	22,3°	
Forward tipping angle of wheelchair in the least stable configuration Method of measurement: ISO 7176-1, section 11.2	N/A	
Do anti-tip devices prevent rearward tipping? Méthode de mesure : ISO 7176-1, article 11.4	Yes	
Do anti-tip devices prevent forward tipping? Method of measurement: ISO 7176-1, section 11.4	N/A	
Active stability control system	N/A	



DETERMINATION OF EFFECTIVENESS OF WHEEL LOCKS		
Maximum slope angle, uphill Method of measurement: ISO 7176-3, section 7.2	14,1°	
Maximum slope angle, downhill Method of measurement: ISO 7176-3, section 7.2	10,1°	

### REQUIREMENTS AND TEST METHODS FOR STATIC, IMPACT AND FATIGUE STRENGHTS

The Neox<sup>™</sup> Dynamic wheelchair has successfully passed all ISO certifications and test related to Static, Impact and Fatigue strengths requirements. The Neox<sup>™</sup> Dynamic wheelchair complies with the requirements of ISO-7176-8.

### RESISTANCE TO IGNITION OF POSTURAL SUPPORT DEVICES (SEAT, BACKREST, ARMREST, FOOTREST KIT)

The Neox<sup>™</sup> Dynamic wheelchair is equipped with postural support devices (seat, backrest, armrest, footrest kit) that are composed with a combination of fabrics and foams that comply to the test requirements of CAL-117.

### WHEELCHAIR FOR USE AS A SEAT IN A MOTOR VEHICLE

Declaration that this wheelchair model conforms with the requirements of ISO 7176-19 and is designed to be used in a forward-facing position when used as a seat in a motor vehicle.

Types of tie-downs that are suitable for the wheelchair (four-point strap type tie- downs, wheel clamps, other types of docking systems, etc.).	Four-point strap type tie-downs. For more information, please consult the Transport section of this manual.	
Declaration that this wheelchair comes equipped with securement points that are fixed to the frame and has successfully passed the testing requirements of ISO 7176-19.	The Neox <sup>™</sup> : Dynamic wheelchair is equipped with securement points that are fixed to the frame, meeting the requirements of ISO/DIS 7176-19:2019 and has successfully passes a frontal impact crash test with a medium sized, 76.3 kg (170 lbs) crash test dummy. For more information, please consult the Transport section of this manual.	



Rating of the ease of use of the motor vehicle as required by ISO 7176-19, section 5.5.a.	Excellent		
Rating to the degree to which the use of the motor vehicle's three- point seat belt adequately secures the occupant as required by ISO 7176-19, section 5.5.b			
Never remove the tie-down strap securement points that secure your wheelchair to a motor vehicle. If the tie-down strap securement points are removed, they cannot be replaced and your wheelchair will no longer comply with ISO/DIS 7176-19:19. For more information, please consult the Transport section of this manual.			
Note that ease of access and maneuverability in a motor vehicle can be greatly diminished by the size of the wheelchair, and a smaller turning diameter generally facilitate access to the vehicle and maneuverability in a forward-facing position. For more information, please consult the Transport section of this manual			
Use as a seat in a motor vehicle	Yes. For more informati the Transport section o		



### 3. Recommendations



### WARNING

Do not use this equipment without having read and understood this owner's manual in its entirety. This booklet contains essential information and instructions to ensure the safety of the occupant and any other individual who is near the wheelchair.

### **Safety Inspection Checks**

A thorough inspection of the wheelchair should be completed upon delivery, as well as, at the intervals indicated in the *Maintenance Checklist*, to ensure the wheelchair occupant's safety.

- ✓ Verify upon delivery, that the wheelchair is assembled with all the components selected in the order form and that no parts are missing or damaged.
- ✓ Verify that the wheelchair rolls smoothly and functions normally.
- ✓ Make sure all parts operate without abnormal noises, vibrations, or irregular movements. The presence of one of these conditions may indicate that the propulsion wheels are deflated, that a part is not adequately fastened or that the wheelchair has sustained damage.
- ✓ Make sure the propulsion wheels and caster wheels are firmly attached and that no object interferes with their functional performance.
- ✓ Make sure tire pressure is adequate (with pneumatic tire option).
- ✓ Verify that wheel locks function effectively.
- ✓ Make sure anti-tips are securely attached and function as intended.
- ✓ Verify that both the seat and the backrest are stable and securely attached to the frame.
- ✓ Make sure armrests are securely fastened and locked in place.
- ✓ Make sure footrests are adequately adjusted and securely fastened.
- ✓ Make sure the belt is firmly fixed to the frame and are adjusted to properly fit the occupant.
- ✓ Ensure that no heavy object is attached to the backrest.



### **Safety Guidelines**

Several safety measures must be taken to ensure the safety of the occupant and the individuals who are near the wheelchair. The following list is not exhaustive. It is the responsibility of every individual to remain cautious in all actions undertaken.

- ✓ Never use a wheelchair without adequate tire pressure (with pneumatic tire option).
- ✓ Do not attempt to reach for an object, if you must lean forward, sideways, or backwards.
- Never attempt to surmount a tall obstacle, changes in height will affect the stability of the wheelchair.
- ✓ Never transport more than one person in a wheelchair.
- ✓ Never attach objects to the backrest, except those provided with the wheelchair.
- ✓ Never attempt to tilt the wheelchair without assistance.
- Never use the footrest as a platform, during a transfer or when attempting to lift oneself.
- ✓ Never use detachable or removable parts to lift wheelchair. Always use the rigid parts of the frame when lifting the wheelchair.
- ✓ Be careful not to pinch your fingers when installing a wheelchair component or using a removable part.
- ✓ To ensure your safety onboard adapted transport, it is essential to use the wheelchair's identified securement points along with the vehicle's Transport Canada approved restraint system.
- ✓ Always be aware of your environment. Taking a few moments to familiarize yourself with your surroundings, before using your wheelchair in a new environment, will allow you to avoid obstacles and potential dangers.
- ✓ When attempting a new manoeuvre, if you are uncertain about the safest way to proceed, it is important to ask for assistance to ensure your safety.
- ✓ Physipro Inc. strongly recommends the use of anti-tips. Anti-tips improve safety by helping to prevent the wheelchair from accidentally tipping over, therefore reducing the risk of falling and sustaining injuries.



### WARNINGS WHEN ASSISTING A WHEELCHAIR OCCUPANT

- ✓ Always communicate your intentions to the occupant before moving their wheelchair.
- ✓ Never move a wheelchair occupant without ensuring they are well seated and secured in their wheelchair to prevent falls.
- ✓ Never move a wheelchair occupant without ensuring that their feet are correctly positioned on the footplates. This will keep the occupant's feet out of the way of the wheels, and from inadvertently getting caught under the wheelchair when it is pushed, which could result in injuries or falls.



### **General Warnings**

### Getting to know your wheelchair

- Each wheelchair is unique and thereby requires an initial period of adaptation. To ensure the safe use of your wheelchair, we recommend that you follow the instructions provided by your occupational therapist and allow yourself the necessary time to become familiar with the different features and characteristics of your wheelchair.
- Start with simple movements, such as leaning forward, grasping an object, and performing a transfer. Do not hesitate to ask for assistance, especially during the adaption period. Once you have determined the limits of your wheelchair, you will be able to develop your own techniques.

### **Maximum load capacity**

- Never exceed the maximum load capacity. The maximum load capacity is for the combined weight of the occupant and the items being carried. Exceeding the maximum load capacity increases the risk of losing control of your wheelchair, tipping over, or falling and may result in serious injury to the occupant or other individuals and may damage the wheelchair. (The maximum load capacity of your wheelchair is indicated in the Technical Specifications section).
- Never transport more than one person in a wheelchair. The wheelchair was designed for one person only.

### Surrounding environment

- This wheelchair was designed for use on smooth surfaces such as asphalt, concrete, or interior flooring. Do not use your wheelchair on rough terrain or unstable surfaces like sand, mud, snow, or ice. Manoeuvring the wheelchair in these conditions, increases the risk of losing control, tipping over, or falling and may result in serious injury to the occupant or other individuals and may damage the wheelchair.
- Be extremely cautious when you must move on a wet or icy surface. If in doubt of the safest way to proceed, do not hesitate to ask for assistance.
- Never use your wheelchair in a swimming pool, a shower or other watery area.
- Avoid exposing your wheelchair to excess moisture. For example, do not leave your wheelchair in the bathroom while taking a shower or a bath.
- Always dry your wheelchair if wet or after cleaning.
- Avoid exposing your wheelchair to extreme temperatures to prevent hypothermia (frostbite) or burns. The surfaces of the wheelchair can become frigid when exposed to cold temperatures or burning hot if left in excessive heat or direct sunlight.

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### Sports and weight training

• Our wheelchairs are not designed for use during the practice of sports or weight training. Weightlifting may damage the wheelchair by exceeding the maximum load capacity and will void the warranty.

#### Street use

Physipro Inc. wheelchairs are designed primarily for residential use. Use on public roads is strongly discouraged. If you must use your wheelchair on a public road, the following warnings and precautions must be observed.

- Be aware that because of the low position of your wheelchair, motorists may have difficulty seeing you. It is therefore important to always establish eye contact with the driver before moving in a parking lot or on a public road. Always yield to the motorist if you are not sure of their intentions.
- Reflective safety stickers are available as an option. These stickers must be affixed to the wheelchair by the occupant or an attendant if you plan to use your wheelchair at night or in poor lighting conditions. Wearing reflective clothing is also advised.
- When moving on a public road, be extremely careful and pay close attention to the dangers and obstacles on the road, such as potholes and uneven or cracked surfaces.
- Never engage on roads with heavy traffic.

### Assisting a wheelchair occupant

- Check with a qualified professional on the best methods and techniques to adopt to safely assist a wheelchair occupant.
- Ensure that the push handles are well-adjusted and securely fastened. Inspect the handle grip covers, the grip covers should not slide on the push handles and must not show signs of wear and tear.
- Always engage wheel locks when occupant is left alone.
- Never use detachable or removable parts to lift the wheelchair, these parts may detach and cause injury to the occupant or yourself. Always use the rigid parts of the frame to lift the wheelchair.
- Always maintain a good posture when lifting or tilting the wheelchair. Remember to keep your back straight and to bend your knees when lifting.
- Always communicate your intentions to the occupant before moving their wheelchair.
- Never move a wheelchair occupant without ensuring they are well seated and secured in their wheelchair to prevent falls.
- Never move a wheelchair occupant without ensuring that their feet are correctly positioned on the footplates. This will keep the occupant's feet out of the way of the wheels, and from inadvertently getting caught under the wheelchair when it is pushed, which could result in injuries or falls.



#### WARNING

Failure to observe these warnings and precautions increases the risk of losing control of the wheelchair, tipping over, or falling and may result in serious injury to the occupant or other individuals and may damage the wheelchair.



### Warnings: Falls and Tips

This section contains essential information to prevent the risk of falling and/or tipping. It is important to observe all the precautions and follow the instructions listed. We strongly recommend that you always fasten your pelvic positioning belt for added protection.

#### **Changing clothes**

When getting dressed, make sure that the front caster wheels are pointing forward and that the wheel locks are engaged. If the wheelchair is not equipped with anti-tips, place the back of your wheelchair against a wall.

### Grabbing an item, bending over, or leaning

Be aware that the center of balance of your wheelchair will be affected when you shift your body position. Bending or leaning over to grab an item modifies your wheelchair's center of balance and decreases stability.

Certain precautions must be taken to proceed securely.

- Place your wheelchair parallel and as near as possible to the desired item, with the front caster wheels pointed forward. To correctly position the wheelchair, move your wheelchair forward, slightly beyond the item you want to obtain than move your wheelchair backwards along the item, the front caster wheels will point forward and the distance between you and the item will be reduced. Never block the propulsion wheels, doing so will create a tipping point and increase the risk of tipping over and/or falling.
- Make sure you are seated as far back as possible on your seat, with your back leaning into the backrest.
- Reach your arm out to the side to grasp the item with one hand, while keeping the opposite hand on the handrim or armrest.
- Ask for help if the item is out of reach or use a reaching aid.



#### WARNING

Never attempt to grab an item that is out of reach, if you must lift yourself up, move forward on your seat, bend or lean sideways, forwards, or backwards, you will modify the center of balance of your wheelchair and increase the risk of tipping over and/or falling, which may lead to serious injury to yourself or damage the wheelchair.



### Transfers

To safely transfer from one surface to another, the following procedure should be followed.

- 1. Position the wheelchair as close as possible to the transfer surface, with the front caster wheels pointed forward.
- 2. Immobilize the wheelchair by engaging wheel locks.
- 3. Remove the footrest or legrest.
- 4. Place your feet on the ground.
- 5. Remove or swing away the armrest and clothing guard, located on the side of the intended transfer.
- 6. Perform transfer.



ENGLISH

**Note** - The use of a transfer board is recommended to ensure your safety.



### WARNING

- It is not recommended to attempt a transfer without the help of an attendant; transferring from one surface to another requires good balance and agility. Be aware that during a transfer, there is a moment when the wheelchair is no longer underneath you.
- Never use the footrest to lift oneself or to perform a transfer, too much pressure on the footrest may cause the wheelchair to tip forward, which may result in serious injury to the occupant or damage to the wheelchair.

### **Obstacles**

- When in a new environment, always take a few moments to familiarize yourself with your surroundings and locate any potential obstacles that may hinder your movements. This will allow you to determine the best way to move forward safely and avoid obstacles.
- If possible, rethink your living and workspace to improve wheelchair access. Choose flooring materials that are smooth, uniform and obstacle-free. Make sure that hallways and doorways are large enough to accommodate the wheelchair and that there is enough space between furniture to easily maneuver around.
- Never use furniture, door handles or frames or any other object to pull or propel yourself.
- Never attempt to surmount a tall obstacle whose height might jeopardize the stability of the wheelchair.
- When negotiating an obstacle, always keep both hands on the handrims, with your body slightly bent forward when going up, and slightly bent backwards when going down. Doing this will help compensate for the shift in the wheelchair's center of balance.
- If your wheelchair is equipped with anti-tips, make sure to disengage them by turning them inwards, towards the center of the frame, before clearing an obstacle.



#### Going up a sidewalk or step

To safely go up a sidewalk or step, the help of an attendant is required, and the following procedure should be followed.

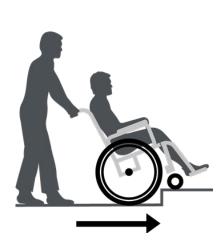
- 1. The attendant must disengage and rotate the anti-tips inwards, to ensure enough clearance is between the anti-tips and the raised platform.
- The attendant must than place the wheelchair as near as possible to the platform.
- 3. The occupant must ensure that their belt is securely fastened, then lean back into the backrest and hold the armrests.
- 4. The attendant will then incline the wheelchair backwards, to lift the front caster wheels from the ground and place them onto the platform.
- 5. The attendant must push the wheelchair forward until the propulsion wheels are in contact with the raised platform and continue to push forward to surmount the obstacle.
- 6. Replace the anti-tips in their initial position.

#### Going down a sidewalk or step

To safely descend a sidewalk or a step, the help of an attendant is required, and the following procedure should be followed.

 The attendant must disengage and rotate the anti-tips inwards, to ensure enough clearance is between the antitips and the platform. The attendant must than place the back of the wheelchair at the edge of the platform.

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**Note** - Never go up a sidewalk or step without assistance.

- The occupant must ensure that their belt is securely fastened, then lean back into the backrest and hold the armrests.
- The attendant must go down the step first and then gently roll the wheelchair down the step, towards themselves, until the propulsion wheels are on lower ground.
- 4. The attendant must raise the front caster wheels and roll backwards until they are no longer above the raised platform and then gently place them on the lower ground.
- 5. Replace the anti-tips in their initial position.

#### Going up or down stairs

To safely go up or down stairs, the help of two attendants is required and the following procedure should be followed.

- 1. Place the back of the wheelchair towards the stairs. The first attendant must stand behind the wheelchair and firmly grip the push handles, the second attendant must take hold of a fixed part of the front frame to prevent the wheelchair from rolling forward.
- 2. Once both attendants are in position, tilt the wheelchair back, so that the front caster wheels are raised above ground.
- 3. Roll the wheelchair so that the propulsion wheels are positioned at the edge of the first step and lift the wheelchair.
- 4. Go up or down the stairs and then gently lower the wheelchair, so that all four wheels are on the ground.



**Note** – Never go down a sidewalk or step without assistance.



**Note** - The attendants must not forget to keep their backs straight and to bend their knees when lifting the wheelchair to avoid injury.



#### Escalators

Never attempt to use your wheelchair on an escalator, not even with an attendant. There is a high probability that doing so will result in the loss control of your wheelchair, increasing the risk of tipping over and/or falling and may result in serious injury to the occupant or other individuals. The wheelchair may also sustain damage.

#### **Center of balance**

The center of balance can be modified by several factors. Proceed with caution in the following situations:

- When wheelchair is on an inclined surface or when surmounting an obstacle, such as sidewalk or stairs, the wheelchair will be in a tilted position and the center of balance will be affected.
- A change in posture and/or weight distribution will modify the center of balance.
- Fixing objects to the backrest will also affect the center of balance.

#### **Moving backwards**

Caution is in order when moving backwards with a wheelchair. The wheelchair is designed to offer greater stability when moving forward. Before backing up with your wheelchair, make sure the way is clear and then slowly roll the wheelchair backwards, without any abrupt movements.

#### Wheelies

Wheelchair wheelies are a dangerous maneuver that increases the risk of losing control of your wheelchair, tipping over and/or falling, this may also damage your wheelchair and can result in serious injury to the occupant and other individuals.

- Consult your doctor or occupational therapist to find out if you have the physical skills to safely perform a wheelie.
- Never attempt to tilt the wheelchair without assistance.



#### Going up or down a slope or a ramp

Certain precautions must be followed to safely go up or down a slope or a ramp.

- Do not descent or move up a slope that is steeper than 10 % (a 10% slope equals one foot in elevation for every 10 feet of horizontal distance).
- Always check your surroundings to identify any obstacles or changes in surface inclination to avoid danger.
- Be extremely cautious on wet or slippery surfaces.
- Always have an attendant behind your wheelchair when moving onto a long slope.
- Always keep your hands on the handrims when moving on a slope or a ramp, to ensure a controlled descend speed.
- Never turn or change direction on a slope or a ramp.
- An inclined surface will impact the wheelchair's center of balance and increases the risk of tipping over. You must always adjust your body position to keep a steady balance and maintain stability.
- Never stop in the middle of a steep slope.
- Never use wheel locks to slow down or stop.
- Before moving onto a ramp, make sure the wheelchair is in the center of the ramp and that the ramp is wide enough so that the wheels to not fall over the edge.



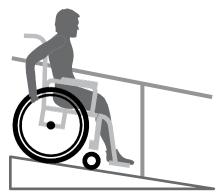
#### WARNING

- Always verify that the ramps used are compliant with the legal standards of your region.
- A change in surface inclination affects the effectiveness of anti-tips. Anti-tips may not be able to prevent the wheelchair from tipping over and/or falling. The occupant must adapt their body position to counteract the change in the wheelchair's center of balance.



### Going down a slope or a ramp

- 1. Lean your back into the backrest, this will help counter the shift in the center of balance caused by an inclined surface.
- 2. To efficiently control the speed of descent, always apply a steady pressure to the handrims by letting them slowly slip through your hands.
- 3. Always control the direction of your wheelchair and move in a straight line when descending slope.



Go down a slope or a ramp

#### Going up a slope or a ramp

- 1. Bend your body forward, this will help counter the shift in the center of balance caused by an inclined surface.
- 2. The occupant must perform firm and vigorous propulsion stokes to the handrims, when moving uphill.



Go up a slope or a ramp



### 4. Instructions

### **Required tools**

Our wheelchairs are designed to be easily adjusted and maintained with standard hand tools.

The following tools are required:

- Metric wrenches: 4 mm, 8 mm, two 10 mm wrenches, two 13mm wrenches and a 19 mm wrench
- Metric Allen keys: 2,5 mm, 3 mm, 4 mm, 5 mm and 10 mm
- Imperial wrenches: 7/16"et 3/4", 1 1/8"
- Imperial Allen keys: 7/64", 1/4", 7/16"
- Two 3/4" socket wrenches
- 19 mm reversible ratchet
- Phillips screwdriver



### WARNING

• Never use pneumatic or electric tools, these may damage your wheelchair.



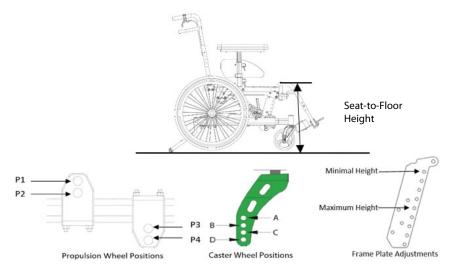
### WARNING

- •All modifications made to your wheelchair must be performed by a qualified technician. Failure to observe this warning may lead to serious injury to the occupant or any other individual who is near the wheelchair.
- •Be careful not to pinch your fingers when installing a wheelchair component or using a removable part.



### Seat-to-Floor Height

It is important to note that the seat-to-floor height of the Neox Dynamic wheelchair varies depending on the position and diameters of the caster and propulsion wheels. Adjustments to the frame can also modify the seat-to-floor height.



4-Wheel Configuration Table				
Propulsion Wheel Diameter	Caster Wheel	Propulsion Wheel Position	Caster Wheel Position	Seat-to-Floor Height (Frame plate adjustments)
	5" (130 mm)	Р3	D	13" to 17" (330 to 430 mm)
12''(305 mm)	6" (150 mm)	Р3	С	14" to 18" (360 to 460 mm)
	8" (200 mm)	P4	D	15" to 19" (380 to 480 mm)
20'' (508 mm)	5" (130 mm)	P1	С	13" to 17" (330 to 430 mm)
	6" (150 mm)	P1	В	13" to 17" (330 to 430 mm)
	6" (150 mm)	P2	D	14" to 18" (360 to 460 mm)
	D6" (150 mm)	P2	В	14" to 18" (360 to 460 mm)
	6" (150 mm)	P1	D	14" to 18" (360 to 460 mm)
22'' (559 mm)	D6" (150 mm)	P1	В	14" to 18" (360 to 460 mm)
	8" (200 mm)	P2	D	15" to 19" (380 to 480 mm)
24"(610 mm)	D6" (150 mm)	P1	D	15" to 19" (380 to 480 mm)
24'' (610 mm)	8" (200 mm)	P1	D	15" to 19" (380 to 480 mm)

**Note** - Depending on the selected size of the propulsion wheels, the seat-to-floor height may be limited to 13", 14" or 15".

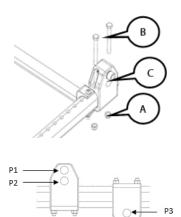
6-Wheel Configuration Table			
Propulsion Wheel	Seat-to-Floor	Require	d Position
Diameter	Height	P1	P2
20" (510 mm)	13" to 17" (330 to 430 mm)	х	
22" (560 mm)	14" to 18" (360 to 460 mm)	х	
24" (610 mm)	15" to 19" (380 to 480 mm)	х	

**Note -** The desired seat-to-floor height of the 6-Wheel Neox Dynamic wheelchair will be determined by the size of the propulsion wheels only. The caster wheels are supplied and pre-assembled to dynamic forks with a diameter of 5" (127 mm) or 6" (152 mm).

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### Modifying the position of the axle mounting block

- 1. Remove propulsion wheels by referring to section *Removing propulsion wheels Threaded axle* or *Removing propulsion wheels Quick-Release axle*, depending on the type of axle installed
- 2. Unfasten nuts **A** with a 13 mm wrench and remove bolts **B**.
- 3. Determine if mounting block **C** should be placed upward or downward on the side frame rail to obtain the desired seat-tofloor height. Move the mounting block **C** forward or backward to the desired location.
- 4. Reinsert bolts **B** and tighten nuts **A**.
- 5. Reinstall propulsion wheel at the desired position (see *Configuration Tables*).





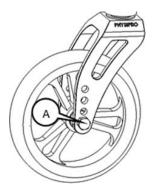
#### WARNING

- After modifying the position of the propulsion wheels on the axle mounting blocks, you may need to readjust the position of caster wheels on the fork or change caster wheel diameter.
  - Always position the propulsion wheels as far back as possible, this will guarantee maximum stability and ensure there is enough space in front of the propulsion wheels to properly install wheel locks.

#### Modifying the position of the caster wheels

- 1. With two 13 mm wrenches, unfasten bolt **A** and remove spacers if necessary.
- 2. Refer to the *Configuration Table* of your wheelchair to determine the correct caster wheel position in order to obtain the desired seat-to-floor height.
- 3. Line up the caster wheel with the appropriate adjustment hole.
- 4. Reinstall spacers, if needed, and reinsert and tighten bolts **A**.

**Note** - Make sure the wheel rotates easily once the bolt has been installed.





### **Propulsion Wheels**

The Neox Dynamic wheelchair can be equipped with propulsion wheels of different sizes, ranging from 12" to 24" (310 mm to 610 mm) and can be positioned at four different heights.

**Note** – To ensure ease-of-installation and adjustment, we recommend that you place your wheelchair on a flat surface, such as a table or workbench.

### Installing the propulsion wheels -Threaded axle

- Make sure the mounting block F is properly positioned, if not, please refer to section Modifying the position of the axle mounting block.
- Insert the axle bushing E in the desired height-adjustment hole of mounting block F.
- With a 1<sup>1</sup>/<sub>8</sub>" wrench, secure the axle bushing E in place with lock washers D and nut C.
- Insert axle A through wheel hub B and axle bushing E.
- Tighten nut G with a <sup>3</sup>/<sub>4</sub>" socket wrench while holding axle A in place with another <sup>3</sup>/<sub>4</sub>" socket wrench.

### **Removing propulsion wheels -Threaded axle**

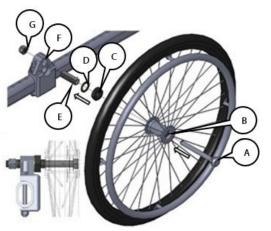
- Loosen nut C with a <sup>3</sup>/<sub>4</sub>" socket wrench while holding axle A with a <sup>3</sup>/<sub>4</sub>" another socket wrench.
- 2. Remove nut C.
- 3. Slide axle **A** out of axle bushing **B**.
- 4. Remove axle **A** from wheel hub.

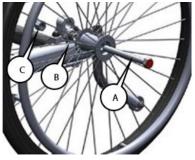


### WARNING

After all adjustments or the reinstallation of the propulsion wheels, it is essential that the stability of the wheelchair be verified. Adjustments to the front caster wheels, the wheel locks, the anti-tips and the propulsion wheel's mounting block may be necessary. Repositioning of the seat and backrest may also be required. These adjustments must be performed by a qualified technician.

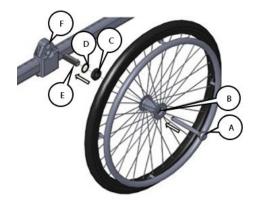






### Installing propulsion wheels – Quick-Release axle

- 1. Make sure the mounting block **F** is properly positioned, if not, please refer to section *Modifying the position of the axle mounting block*.
- Insert the axle bushing E in the desired height-adjustment hole of mounting block F.
- With a 1<sup>1</sup>/<sub>8</sub>" wrench, secure the axle bushing E in place with lock washers D and nut C.
- Insert axle A through wheel hub B and axle bushing E.

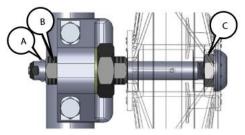


### Removing propulsion wheels -Quick-Release axle

- 1. Unfasten nut **C** and remove lock washers **D**.
- 2. Slide axle **A** out of wheel hub **B** and axle bushing **E**.

### Adjusting the Quick-Release axle

Adjusting the quick-release axle is necessary if the propulsion wheels do not rotate easily or if irregular movement is observed. To adjust the quick-release axle, tighten or loosen nut **C** with a 3/4" wrench while holding the tip of the axle in place with a 7/16" wrench. Make sure retaining balls **A** project completely out from the axle bushing **B**.



Quick-Release axle adjustments



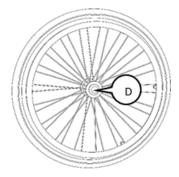
### Using the Quick-Release axle

Available as an option with the Neox Dynamic wheelchair, the Quick-Release Axle can be installed to facilitate the removal and installation of the propulsion wheels.

Removal of the wheels can be done in three easy steps.

- 1. Disengage wheel locks. Depending on the type of wheel lock installed, either push or pull the handle to disengage wheel locks.
- 2. Press down on the quick-release button **D** at the center of the wheel.
- 3. Hold button **D** down and remove the wheel by pulling outwards.

To reinsert wheel, hold button **D** down and reinsert axle.



**Note** - Make sure retaining balls project completely out from the axle bushing and the tip of the ball lock pin is aligned with the tip of the axle before using your wheelchair.



### WARNING

- After all adjustments or reinstallation of the propulsion wheels, always make sure the retaining balls of the quick release axle project completely out from the axle bushing and that the tip of the ball lock pin is perfectly aligned with the tip of the axle before using your wheelchair.
- Keep quick-release axles clean and free of dust or lint to ensure its proper operation. Lubricate if necessary.
- Always make sure the wheels are securely locked before using your wheelchair, an unlocked wheel may detach during use if not properly secured and can result in a fall.

### Propulsion wheel horizontal positioning

The horizontal position of the propulsion wheel directly affects the wheelchair's stability. Placing the propulsion wheel toward the front, has the disadvantage of reducing wheelchair stability but has the advantage of facilitating propulsion. Finding the right position to maximize stability and ease of use is essential. The different adjustments available on the Neox Dynamic wheelchair provide a wide range of positioning options to better accommodate the needs of each individual.



Follow these steps to adjust the horizontal position of the propulsion wheel:

- 1. Remove the propulsion wheel. Depending on the type of axle installed, refer to section *Removing Propulsion Wheels* – *Threaded Axle* or *Removing Propulsion Wheels* – *Quick-Release Axle*.
- 2. Unfasten nut **A** with a 13 mm wrench and remove bolts **B**.
- 3. Move mounting block forward or backward on the side frame rail until the desired position is obtained.
- 4. Reinsert bolts **B** and tighten nuts **A** firmly.
- 5. Reinstall propulsion wheel.

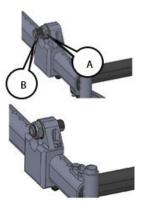


# Always position the propulsion wheels as far back as possible, this will guarantee maximum stability and ensure there is enough space in front of the propulsion wheels to properly install wheel locks.

### **Propulsion wheel lateral positioning**

This modification is used to move the propulsion wheels closer or further from the frame. Follow these steps to adjust the lateral position of the propulsion wheel:

- 1. Remove the propulsion wheel. Depending on the type of axle installed, refer to section *Removing Propulsion Wheels Threaded Axle* or *Removing Propulsion Wheels Quick-Release Axle*.
- 2. With a 1<sup>1</sup>/<sub>8</sub>" wrench, loosen nut **A**.
- 3. Unscrew or screw the axle bushing **B**, closer or further from the frame, depending on the desired lateral position of the propulsion wheel.
- 4. Tighten nut **A** firmly.
- 5. Reinstall the propulsion wheel.





### WARNING

After adjustments are made, make sure all assembly hardware is firmly tightened, otherwise injury or damage may occur.



### **Pneumatic Tires (option)**

If your wheelchair is equipped with pneumatic tires the following steps should be followed to install the inner tube and inflate the tires securely.

### Installing the inner tube

- 1. Before installing an inner tube, make sure the rim and the inside of the tire are clean.
- 2. Inflate the inner tube slightly.
- 3. Position the inner tube valve through the hole in the rim.
- 4. Insert the inner tube inside the tire.

**Note** - Make sure to properly position the inner tube on the rim and inside the tire. The inner tube must not be twisted or stick out of the tire.

### Inflating the tire

- 1. Look on the outer tire for the recommended pressure.
- 2. Connect pump to inner tube valve.
- 3. Inflate tire, using a pressure gauge to regularly check tire pressure. Do not exceed the recommended tire pressure.

**Note** - Tire pressure can vary from one manufacturer to another, always check the recommended air pressure indicated on the outer tire.



### WARNING

- Never use a wheelchair without properly inflate tires, the recommended tire pressure is indicated on the outer tire.
- Check tire pressure weekly, as recommended in the *Maintenance Checklist*.
- Overinflated tires can burst, while under inflated tires can deform. Tire deformation can cause the wheel locks to slip and allow the wheel to spin unexpectedly, this can potentially lead to a loss of control of your wheelchair.
- Proper inflation will extend the lifespan of your tires and improve ease-of-use.



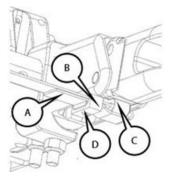


### **Rear Caster Tilt Mechnism (6-wheel option)**

The Rear Caster Tilt Mechanism makes it easier for the attendant to move the occupant around on a daily basis. With a simple foot movement, the rear caster will tilt, creating an angle that facilitates surmounting obstacles.

### Installing the rear cater tilt mechanism

- 1. Insert strap **A** through clamping ring **B** and eyelet **C**.
- 2. Fold the strap over and reinsert through clamping ring **B**.
- 3. Adjust strap tension.
- 4. Once the desired strap tension is reached, tighten screw **D** with a 3mm Allen Key.



### Clearing obstacles with the rear caster tilt mechanism



#### WARNING

For safety reason, it is important to return the seat parallel to the ground and to remove the occupant's weight from the rear casters, before using the rear caster tilt mechanism to clear an obstacle.

- 1. Move the wheelchair as near as possible to the obstacles.
- 2. Position the back post **A** upright to remove the occupant's weight from the rear casters.





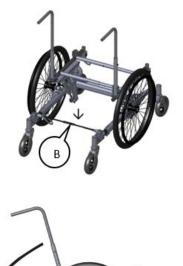
3. Gently press foot down on the strap **B** to activate tilt mechanism.



#### WARNING

Front caster wheels should no longer touch the ground.

 Once the rear caster tilt mechanism is activated, the front caster wheels will lift upwards. Keep foot pressed down on strap and move the wheelchair forward to surmount obstacle.





#### WARNING

The maximum obstacle height that can be cleared is approximately 5" (127 mm).



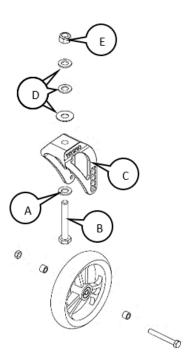
## **Front Casters**

The Neox Dynamic wheelchair can be equipped with polyurethane caster wheels and are available in diameters of 5" (127 mm), 6" (152 mm), 7" (178 mm) or 8" (203 mm) with a width of 1" (25 mm), 1<sup>1</sup>/<sub>4</sub>" (32 mm) or 1 <sup>1</sup>/<sub>2</sub>" (38 mm). Pneumatic caster wheels are also available in diameters of 6" or 8" (150 or 200 mm) with a width of 1<sup>1</sup>/<sub>4</sub>" (32 mm).

## Assembling and installing the front caster fork

- 1. Install spacer **A** on bolt **B**.
- 2. Insert bolt **B** with spacer **A** through fork **C**.
- 3. Install spacers **D** and nut **E** onto bolt **B**.
- 4. Remove cap on caster stem housing.
- 5. Insert bolt **B** into caster stem housing.
- Secure caster fork by tightening nut E with a 19mm reversible ratchet, while holding bolt B in place with a 19mm wrench.
- 7. Replace cap on caster stem housing.

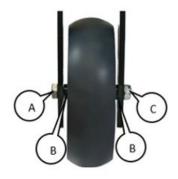
**Note** - Make sure the casters forks are securely attached and that they swivel easily. If not, loosen nut **E** slightly.





#### **Installing caster wheels**

- 1. Determine the correct position of the caster wheel (see section *Seat-to-Floor Height*).
- Insert screw A in the appropriate adjustment hole with spacers B placed in between the caster wheel and the fork.



 Install nut C onto screw A and tighten with two 13mm wrenches.

Note - Once tightened, make sure the wheel rotates easily.



#### WARNING

- Changing a front caster wheel for a wheel with a different width may require replacing the fork.
- All modifications made to your wheelchair must be performed by a qualified technician. Failure to observe this warning may lead to serious injury to the occupant or any other individual who is near the wheelchair.
- If your wheelchair is equipped with pneumatic caster wheels, check tire pressure weekly, as recommended in the *Maintenance Checklist* Never use your wheelchair without properly inflate tires, the recommended tire pressure is indicated on the outer tire. Overinflated tires can burst, while under inflated tires can deform. Tire deformation can cause the wheel to spin unexpectedly, this can potentially lead to a loss of control of your wheelchair. Proper inflation will extend the lifespan of your tires and improve ease-of-use.



## Seat

#### Modifying seat depth

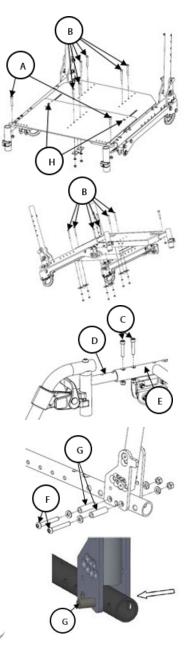
The seat depth of the Neox Dynamic wheelchair can be changed by moving the inner seat rails.

The following steps explain how to adjust seat depth:

- 1. With a 5mm Allen key and a 10mm wrench, unfasten bolts **A**.
- 2. With a 3mm Allen key and an 8mm wrench, unfasten bolts **B**.
- 3. Remove both seat plates.
- With a 5mm Allen key and a 10mm wrench, unfasten bolts C.
- 5. Slide inner seat rail **D** into outer seat rail **E** to obtain the desired depth and simultaneously adjust footrest depth.
- 6. Insert screws **C** in the appropriate adjustment holes and tighten screws firmly.
- With a 4mm Allen key and a 10mm wrench, unfasten bolt assembly F at the rear section of the seat.
- 8. With a flat punch, remove alignment sleeves **G**.
- Move the back post positioning plate forward or backward to obtain the desired depth.
- 10. Reinsert alignment sleeves **G** and bolt assembly **F** and firmly tighten.
- With a 3mm Allen key and an 8mm wrench, loosen screws H and adjust the depth of the seat plates.
- Insert screws A and B in the appropriate adjustment holes and firmly tighten screws A, B and H.

For all seat depths ordered, the depth can be increased or decreased by 1" (25 mm).

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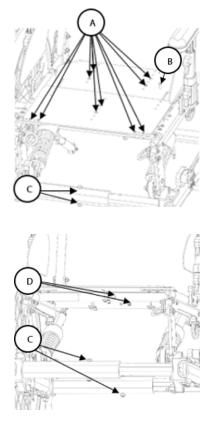


#### Modifying seat width (option)

The seat width of the Neox Dynamic wheelchair can be modified. Three types of frames are available and offer the following seat width adjustment ranges in increments of 1":

Standard frame: 14" to 22" (356 to 559 mm) Extended frame: 19" to 22" (482 to 559 mm) Heavy Duty frame: 19" to 26" (482 to 660 mm)

- 1. With a 3mm Allen key and an 8mm wrench, unfasten bolts **A**.
- 2. Remove seat plates **B**.
- 3. With two 13mm wrenches, unfasten bolts **C**.
- 4. With two 13mm wrenches, unfasten screws **D**.
- 5. With a 3mm Allen key, unfasten both central screws of the backrest tension bar (see section *Installing the tension bar*).
- 6. If a stroller bar is installed, unfasten both central screws with a 4mm Allen key (see section *Installing the stroller bar*).
- Simultaneously widen or narrow the adjustable frame rails, the tension bar and stroller bar, if applicable, to obtain the desired seat width.
- 8. Reinsert bolts **C** and **D**, the tension bar's central screws and the stroller bar's central screws, if applicable.
- 9. Reposition seat plates **B** and reinsert bolts **A**.
- 10. Firmly tighten bolts **A**, **C** and **D**, as well as the tension bar's central screws and the stroller bar's central screws, if applicable.



**Note** – The tension bar, stroller bar and seat plates can limit the seat width adjustment range.



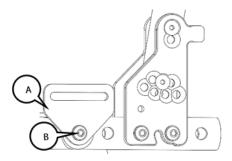
Revision 1 October 2023

## **Pelvic Positioning Belt**

The primary function of the pelvic positioning belt is to help the occupant maintain a proper posture and to secure the occupant in the wheelchair.

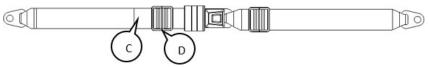
## Installing the pelvic positioning belt

Position the belt end **A** on the seat rail and tighten screw **B** with a 4mm Allen key.



#### Adjusting the pelvic positioning belt

To adjust the length of the positioning belt, slide the belt strap C into the plastic slide buckle D and tighten or loosen until the belt fits snugly without causing any discomfort.





#### WARNING

- When using your wheelchair, it is important to always fasten your positioning belt for added protection.
- It is important to adjust your positioning belt to maximize comfort and safety.
- Improper use can result in serious injury or death.



## Backrest

Adjustable back posts are available for each type of backrest: Standard, Dynamic, or Reclining gas spring.

The back posts are adjustable in 1" increments, the following table indicates the range of height adjustment of the back post, depending on the type of backrest installed.

Standard Backrest	Dynamic Backrest	Reclining gas spring Backrest		
16" to 20" (406 to 508 mm)	18" to 22" (457 to 559 mm)	16" to 20" (406 to 508 mm)		
21" to 25" (533 to 635 mm)	23" to 27" (584 to 686 mm)	21" to 25" (533 to 635 mm)		

## Modifying back post height

The following steps explain how to adjust the height or replace back posts.

- 1. Remove screw **A** and lock washer **B** with a 10mm wrench.
- 2. Raise or lower the adjustable upper section of the back post to obtain the desired height or replace the upper section with a new back post.
- 3. Reinsert screw **A** and lock washer **B**, tighten screw **A** firmly.







## **Standard Backrest**

## Modifying the backrest angle

The angle of the backrest can be adjusted to accommodate the needs of the occupant.

- 1. With a 4mm Allen key and a 10mm wrench, remove bolts **B**.
- 2. Once the bolts are removed, reposition the back post at the desired angle.
- 3. Reinsert bolts **B** in the adjustment holes corresponding to the desired angle and tighten firmly.

**Note** - The interval between two consecutive adjustment holes is  $5^{\circ}$ . For a  $120^{\circ}$  backrest angle, use the  $115^{\circ}$  position in combination with the upper  $120^{\circ}$  adjustment hole. The  $120^{\circ}$  backrest angle is achievable with standard back post only.

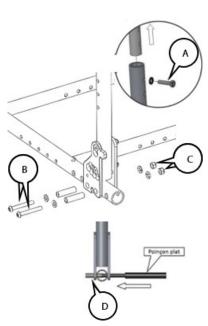
## **Removing the standard backrest**

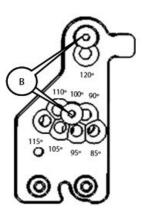
The Standard backrest can be removed and replaced by a Dynamic or Reclining gas spring backrest, if needed. The following steps explain how to remove the standard backrest positioning plates.

- 1. Remove armrests and propulsion wheels.
- 2. Remove cables and tilt activation levers.
- 3. Remove backrest, tension bar and stroller bar, if applicable.
- With a 10mm wrench, remove screw A and lock washer and pull out the upper back post.
- With two 10mm wrenches, unfasten bolts **B** and nuts **C** and remove positioning plates.

**Note** - If positioning plates cannot be dislodged easily, remove the alignment sleeves **D**, located in the seat rail, with a flat punch, this will facilitate the removal of the positioning plates. Reinsert the alignment sleeves in the seat rail before installing new positioning plates.

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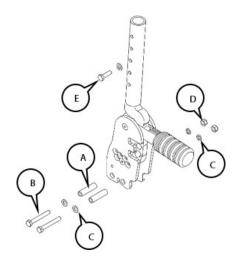
#### **Dynamic Backrest**

#### Installing the dynamic backrest

- 1. Remove the standard backrest (see section *Removing the standard backrest*).
- 2. Insert alignment sleeves A.
- Install the dynamic backrest's positioning plates and the lower back post at the desired angle.

**Note** – To adjust the backrest angle, you must decrease the tension of the dynamic backrest by turning the handle counterclockwise.

- 4. With two 10mm wrenches, fasten bolts **B** with washers **C** and nuts **D**.
- Reinstall and adjust the height of the upper back post. Insert screw E in the appropriate adjustment hole and firmly tighten with a 10mm wrench.
- 6. Reinstall the backrest, the tension bar and stroller bar, if applicable.
- 7. Reinstall armrests and propulsion wheels.
- 8. Reinstall the activation levers and cables.



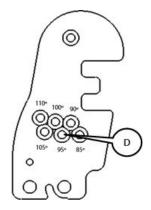


Revision 1 October 2023

#### Modifying the dynamic backrest angle

The angle of the backrest can be adjusted to accommodate the needs of the occupant.

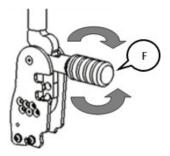
- 1. Turn the tension handle counterclockwise, to decrease the backrest tension.
- 2. With a 4mm Allen key and a 10mm wrench, remove bolts **F**.
- Once the bolts are removed, reposition the back post at the desired angle.
- 4. Reinsert bolts **F** in the adjustment holes corresponding to the desired angle and tighten firmly.
- 5. Readjust the backrest tension.



#### Adjusting the dynamic backrest tension

The dynamic backrest allows you to adjust the tension of the back post to better accommodate the occupant's changing needs.

- To decrease tension, turn handle **F** counterclockwise (to the left).
- To increase tension, turn the handle **F** clockwise (to the right).

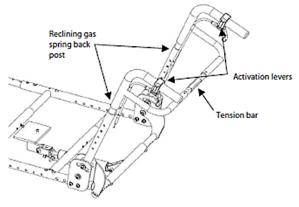




#### **Reclining Gas Spring Backrest**

The reclining gas spring backrest is pre-assembled in our factory. When replacing a standard backrest with a reclining gas spring backrest, you must follow the steps in the order indicated.

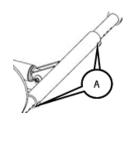
**Note** - The reclining gas spring mechanism cannot be installed with dynamic back posts.

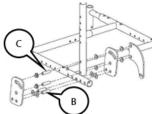


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#### Installing the reclining gas spring backrest

- 1. Remove all the hardware of the standard backrest (see section *Removing the standard backrest*).
- With a 5mm Allen key, remove screws A. Slide the inner tubes into the outer tube, until the desired width is obtained.
- 3. Insert sleeves **B** inside the seat rail, in the appropriate seat depth adjustment holes.
- 4. Insert sleeve **C** through the mounting holes of the lower back post and place in between the positioning plates.
- 5. Place the positioning plates as illustrated.
- 6. Insert bolts **D** with washers through the positioning plates and the seat rail, firmly tighten bolts **D** with a 5mm Allen key.



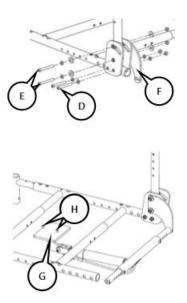


- Insert bolts E with washers through the positioning plates and the lower back post. Make sure all the assembly hardware is installed as illustrated and that the pivoting plate F is properly positioned. Tighten bolts E with a 5mm Allen key.
- 8. Reinsert screws **A** in the inner and outer tubes and tighten firmly.
- 9. If needed, drill two 5mm holes in the mounting plate **G**.
- 10. Fix mounting plate **G** to the rigid seat plate and fasten screws **H** with a 4mm Allen key.
- 11. Insert the upper back post into the lower back post and adjust the height.
- 12. Reinstall backrest, tension bar and stroller bar, if applicable.
- 13. Install the reclining backrest's activation lever (see section *Installing an activation lever*) and secure cables to the wheelchair.
- 14. Reinstall armrests and propulsion wheels.

**Note-** Installing a reclining backrest mechanism will require the installation of a new activation lever that is equipped with a splitter cable.

## Modifying the backrest angle

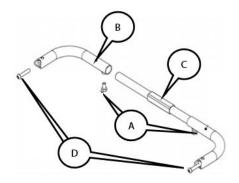
- 1. Press and hold the activation lever down.
- 2. Incline the backrest as desired.
- 3. Release the activation lever to lock backrest into place.





#### Installing the tension bar

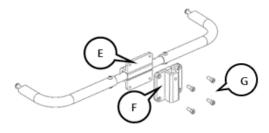
- 1. With a 3mm Allen key, remove screws A.
- 2. Install the tension bar tubes **B** onto central tube **C**.
- 3. Insert screws **D** in the pre-drilled holes of the back posts and through the ends of the tension bar tubes.
- 4. With a 4mm Allen key, firmly tighten screws **D**.
- 5. With a 3mm Allen key, firmly tighten screws A.



To remove tension bar, completely unfasten and remove screws **D**.

#### Installing a headrest support mounting fixture on the tension bar

- 1. Position both parts **E** and **F** of the headrest mounting fixture onto the central tube **C** of the tension bar.
- 2. With a 5mm Allen key, secure the headrest mounting fixture by firmly tightening all 4 screws **G**.



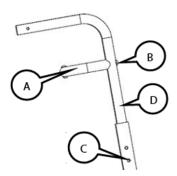


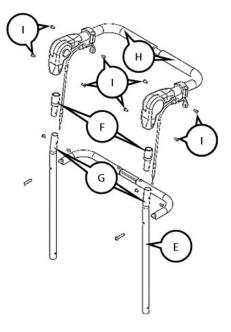
#### Installing the stroller bar (option)

The Neox<sup>™</sup> Tilt-in-Space wheelchair must be equipped with specifically designed back posts for the installation of the angle adjustable stroller bar. If your wheelchair is currently equipped with standard back posts, you must replace them before beginning the installation of the stroller bar. Steps 1 to 5 explain how to remove the standard back posts and install the stroller bar back posts. If your wheelchair is already equipped with the appropriate back posts, you can proceed directly to steps 6 to 9.

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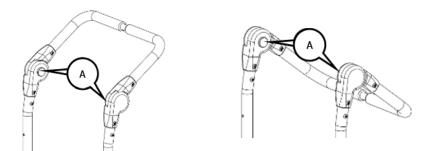
- 1. With a 4mm Allen key, unfasten screws **B** and remove tension bar **A**.
- 2. With a Philips screwdriver, remove activation lever(s) (see section *Installing an activation lever*).
- With a 10mm wrench, unfasten screws C. Remove back posts D by pulling upwards.
- 4. Install the stroller bar back posts **E** and fasten screws **C**.
- 5. Insert adapters **F** into back posts **E** and fasten screws **G**.
- 6. Reinstall tension bar **A** onto the back posts **E**.
- With a 3mm Allen key, unfasten screws H completely and adjust the width of the stroller bar. Once the desired width is obtained, reinsert, and fasten screws H.
- Insert stroller bar into adapters F and fasten screws I with a 3mm Allen key.
- 9. Reinstall activation lever(s).





#### Adjusting the stroller bar angle:

To adjust the stroller bar angle, simply press both push buttons **A** simultaneously. This will allow the stroller bar to move freely. Once the desired angle is obtained, release both push buttons **A** and the stroller bar will automatically lock into place.





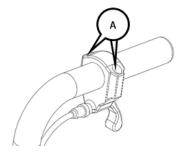
#### WARNING

Never lift or pull your wheelchair with the stroller bar. The stroller bar was designed to push and steer the wheelchair only. Improper use may damage or break the stroller bar and can result in injury.

#### Installing an activation lever

- 1. Position both parts of the activation levers on the push handle or stroller bar.
- 2. With a Philips screwdriver, firmly tighten both screws **A**.

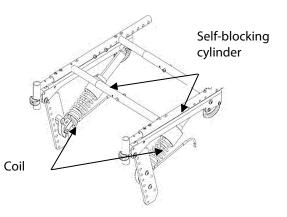
To remove activation levers, remove screws **A** and separate both parts.





# **Tilt Mechanism**

The Neox Dynamic wheelchair can be equipped with a tilt mechanism to allow the occupant to change position during the day to prevent the formation of pressure sores and improves comfort.



Propulsion Wheels	Seat-to-	Seat I	Depth	Seat I	Depth	Seat l	Depth
	Floor	14" to 16"		17″ to 19″		20" to 22"	
	Height	Т	U	Т	U	Т	U
12″	13″	30°	12°	30°	10°	30°	8°
	14″	30°	16°	30°	14 <sup>°</sup>	30°	10°
	15″	30°	20°	30°	17°	30°	13°
	16″	30°	24°	30°	21°	30°	16°
	17″	30°	28°	30°	24°	30°	19°
20″	13″	30°	5°	30°	6°	30°	3°
	14″	30°	9°	30°	9°	30°	7°
	15″	30°	13°	30°	12°	30°	8°
	16″	30°	16°	30°	16°	30°	11°
	17″	30°	21°	30°	19°	30°	14°
22″	14″	30°	6°	30°	4°	30°	4°
	15″	30°	10°	30°	8°	30°	7°
	16″	30°	14°	30°	11°	30°	9°
	17″	30°	20°	30°	14 <sup>°</sup>	30°	11°
	18″	30°	28°	30°	17°	30°	15°
24″	15″	30°	6°	30°	4°	30°	4°
	16″	30°	10°	30°	8°	30°	7°
	17″	30°	14 <sup>°</sup>	30°	11°	30°	9°
	18″	30°	20°	30°	14 <sup>°</sup>	30°	11°
	19″	30°	28°	30°	17°	30°	15°

**Note -** The "U" Type armrest, the attendant wheel lock, the dynamic backrest, as well as an oxygen tank holder, can influence results.

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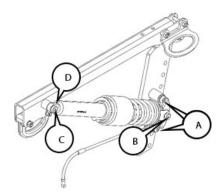
## Limiting the tilt angle

- With a 7/64" Allen key, loosen screws A, located on locking collars B.
- 2. Position the locking collars **B** at the desired location on both cylinder rods **C** to limit tilt.
- 3. Tighten screws **A** firmly.

## Replacing the self-blocking cylinder

The following steps explain how to replace the self-blocking cylinder. It is important to follow these steps in the order indicated.

- 1. Make sure the seat is parallel to the ground (see section *Adjusting the tilt angle*) to improve safety during cylinder replacement.
- 2. Unfasten and remove the cylinder cable.
- 3. With a 4mm wrench, unfasten and remove screws **A**.
- 4. With a 4mm Allen key and a 10mm wrench, unfasten shoulder screw **B**.
- 5. With a 4mm Allen key, unfasten screws **C.**
- With a 19mm wrench, unfasten the cylinder end **D** from the old cylinder and install on the replacement cylinder.
- 7. With a 4mm Allen key, fasten screws C.
- 8. With a 4mm Allen key and a 10mm wrench, fasten shoulder screw **B**.
- 9. With a 4mm wrench, fasten screws A.
- **Note** Make sure that all hardware is properly reinstalled and that each screw is firmly tightened.
- 10. Fasten the cylinder cable to the new self-blocking cylinder.

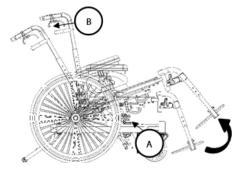




#### Adjusting the tilt angle

The Neox Dynamic wheelchair can be tilted backwards. Follow these instructions to safely tilt the wheelchair.

- 1. Before tilting the wheelchair, engage wheel locks **A**.
- Activate tilt mechanism by pressing and holding both activation levers **B** simultaneously.
- 3. Once the desired tilt angle is obtained, release both activation levers **B**.
- 4. If needed, the maximum tilt angle can be limited (see section *Limiting the tilt angle*).





#### WARNING

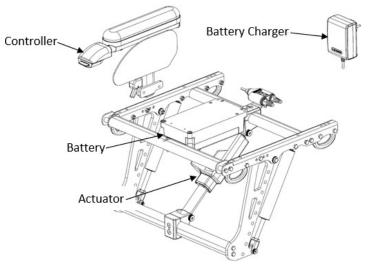
- Never replace parts of the tilt mechanism when in an inclined position.
- When adjusting the tilt angle, make sure no objects are underneath or close to the tilt mechanism.



#### **Power Tilt Mechanism (option)**

The power tilt mechanism was designed to allow the occupant to tilt their wheelchair without assistance.

The power tilt mechanism is always pre-installed at our factory.



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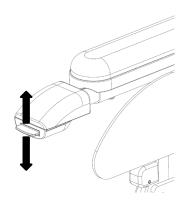
#### **Operating the power tilt mechanism**

1. To tilt your wheelchair backwards, press the controller lever upwards.

**Note** - Once maximum tilt is obtained, the tilting mechanism will stop even if the controller lever is still pressed upwards.

2. To return your wheelchair to a horizontal position, press the controller lever downwards.

**Note** - If the wheelchair seems unstable or if tilt is uneven, check all bolts to ensure they are tightly fastened.



#### **Battery charging process**

- The charging instructions for the battery are included in the battery package box.
- It is possible to charge the battery while still using the power tilt mechanism.
- When the battery needs to be recharged it will emit a low battery warning sound. Simply plug the charger into a power outlet and the warning sound will cease.

Green light	= Normal charge		
Flashing orange light	= Low charge		
Orange light	= Charging problem		
Light off	= Deactivated (Protection)		

# LED Charge indicator light – Battery status



# WARNING

- Charge in dry areas only.
- Do not charge in areas where there is a risk of explosion (e.g.: Garage).
- The charger must be kept out of the reach of children.
- Charge battery in a well-ventilated area.
- Unplug the battery charger from power outlet, when the battery charger is being cleaned, when maintenance is being performed or if the battery charger is not being used.
- Never pull on the power cord to unplug the battery charger.
- Check the power cord regularly, if damage is visible, have a specialist replace it.
- Keep the battery charger away from oil, grease, solvents, and abrasive products. Contact with one of these products may damage the battery charger case.
- Never place the battery charger near sharp objects.
- If battery charger is dropped or shows visible signs of damage, have it checked immediately by a specialist.
- The maximum load capacity of the power tilt mechanism is 265 lbs/120 kg.



## Armrest

#### " U " type armrest

The « U » type armrest is made with a foam padding to improve comfort and can be flipped back to facilitate transfers.

The « U » type armrest offers a height adjustment range between 6  $\frac{3}{4}$ " and 16  $\frac{1}{2}$ " (152 mm and 406 mm). Adjustable in increments of  $\frac{1}{2}$ ".

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#### Installing the "U" type armrest

- With a 4mm Allen key, unfasten screw **A** while holding nut **B** in place with a 10mm wrench.
- 2. Position receiver **C** on the positioning plate.
- 3. Reinsert screw **A** through the receiver, positioning plates and seat rail.
- Place nut **B** on screw **A** and firmly tighten using a 4mm Allen key and a 10mm wrench to hold nut **B** in place.
- 5. With two 10mm wrenches, place receiver **F** at the front of the seat rail.

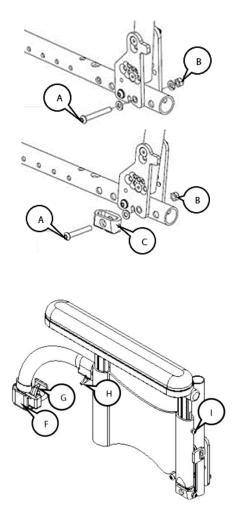
#### Flipping back the "U" type armrest

- 1. Press lever G.
- 2. Flip-back armrest.

#### Adjusting the "U" type armrest height

- 1. Press lever H.
- 2. Raise or lower armrest.
- Release lever H to lock armrest in place once the desired height is obtained.

**Note** – Make sure armrest is fully engaged in the adjustment holes and that set screw **I** is firmly tightened.



**ENGLISH** 

#### "T" type armrest

The "T" type armrest is made with a foam padding to improve comfort and can be removed to facilitate transfers.

The "T" type armrest offers a height adjustment range between 8" and 15  $\frac{1}{2}$ " (200 mm and 381 mm). Adjustable in increments of  $\frac{1}{2}$ "

#### Installing the "T" type armrest receiver

- Position receiver A on the seat rail and insert screws B through the receiver and seat rail.
- Place nut C on screw B and firmly tighten using a 5mm Allen key and a 10mm wrench to hold nut C in place.

#### Installing the "T" type armrest

- 1. Press and hold down lever **D**.
- 2. Insert armrest into receiver A.
- 3. Release lever **D** to lock armrest in place.

## Adjusting the "T" type armrest height

- 1. Press and hold lever E.
- 2. Raise or lower armrest.
- 3. Release lever **E** to lock armrest in place once the desired height is obtained.

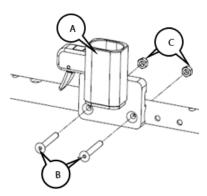
**Note** - Make sure the armrest height adjustment lock pins are fully engaged in the adjustment holes and that set screw **F** is firmly tightened.

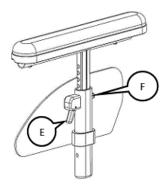
#### Adjusting the clothing guard height

- 1. With a 4mm wrench, loosen set screw G.
- 2. Position clothing guard I at the desired height.
- 3. Firmly tighten set screw G.

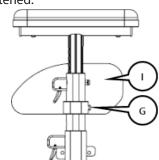
#### Removing the "T" type armrest

- 1. Press and hold lever **D**.
- 2. Lift up and remove armrest.











## Footrest

The footrest is removable and can swivel inwards or outwards and can be equipped with a standard flip-up footplate or a flip-up footplate with angle and depth adjustments. Three models of footrest are available: 60°, 70° et 90°.

Each model features an extensive range of adjustments to ensure optimal support of the lower limbs.

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Footrest 60°: 11 ¼" to 21" (280 mm to 530 mm) Footrest 70°: 10 ¾" to 20 ½" (255 mm to 508 mm) Footrest 90°: 10 ½" to 20 ½" (254 mm to 508 mm) Adjustable in increments of ½".

#### Installing the footrest

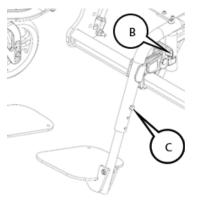
- 1. Insert pivot saddle **A** into the receiver on the front frame tube.
- 2. Turn the footrest inwards until the footrest locks in place.

#### **Removing the footrest**

- 1. Press and hold lever **B** while turning the footrest outwards.
- 2. Lift the footrest upwards until it is completely removed from the receiver.

#### Adjusting footrest length

- 1. With a 10mm Allen key, remove screw **C**.
- 2. Raise or lower the inner adjustment tube until the desired length is obtained.
- 3. Reinstall screw **C** in the appropriate adjustment hole and tighten firmly.



#### Folding the flip-up footplate

To fold the footplate, simply flip the footplate upwards.

### Adjusting footplate depth

- 1. With a 4mm Allen key, unfasten and remove both screws **D**.
- 2. Position the footplate and insert both screws **D** in the appropriate adjustment holes and tighten screws firmly.

#### Adjusting the horizontal angle of the footplate

- 1. With a 4mm Allen key, loosen both screws **D**, without removing them.
- 2. Pivot the footplate until the desired horizontal angle **B** is obtained.
- 3. Firmly tighten both screws **D**.

## Adjusting the vertical angle of the footplate

With a ¼"Allen key, turn plastic screw **E** to obtain the desired vertical angle.

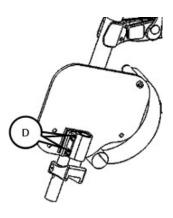
- Turning screw **E** clockwise will increase the angle.
- Turning screw **E** counterclockwise will decrease the angle.

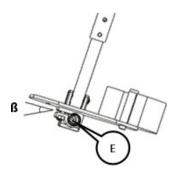


#### WARNING

Never lift the wheelchair by the footrest. Damage or injury may occur. Always use the rigid parts of the frame when lifting the wheelchair.







# **Elevating and Articulating Legrest**

#### **Installing the legrest**

- 1. Install tube end **A** into the receiver on the front frame tube.
- 2. Turn the legrest inwards until the legrest locks in place.

## Adjusting legrest height at knee level

- 1. With a 2.5mm Allen key, unfasten all 4 bolts **B**.
- 2. Place the upper part of the legrest onto tube.
- 3. Position the legrest at the desired height and insert bolts **B** in the appropriate adjustment holes.
- 4. Tighten all 4 bolts **B** firmly.

#### Adjusting legrest length

- 1. With a 4mm Allen key, unfasten screws **C**.
- Raise or lower the inner adjustment tube until the desired length is obtained.
- 3. Reinstall screws **C** in the appropriate adjustment holes and tighten firmly.

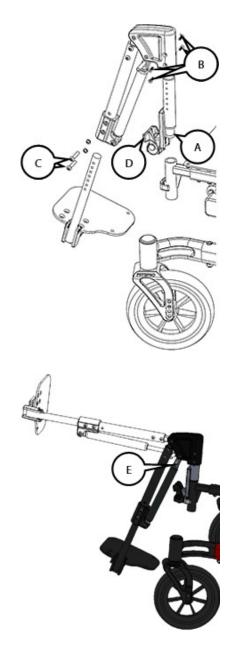
#### **Removing legrest**

- 1. Pull lever **D** towards you and turn legrest inwards or outwards.
- 2. Lift the legrest upwards until it is completely removed from the receiver.

#### Adjusting legrest angle

- To increase angle, lift the legrest upwards.
- To decrease the angle, press and hold lever **E** and push the legrest downwards.

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# Wheel Locks

The installation of wheel locks must be done after the installation and adjustment of the propulsion wheels is completed. Be aware that the size of the propulsion wheels will affect the position of wheel lock brackets. If the propulsion wheel installation has not been completed, consult section *Installing propulsion wheels* – *Threaded axle* or *Installing propulsion wheels* – *Quick-Release axle*, depending on your type of axle.



#### WARNING

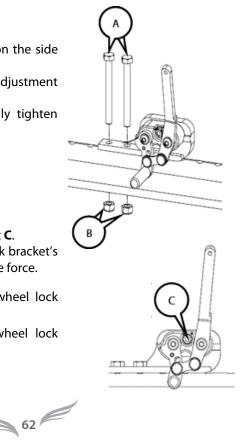
- If your wheelchair is equipped with pneumatic tires, always make sure tire pressure is adequate before adjusting wheel locks.
- Ensure that all bolts and nuts are securely fastened when modifications have been made.
- It is important that wheel locks are readjusted if modifications have been made to the propulsion wheels or if propulsion wheels appear worn.

## Installing wheel locks

- 1. Position the wheel lock bracket on the side frame rail.
- 2. Insert bolts **A** in the appropriate adjustment holes and put nuts **B** on bolts **A**.
- 3. With two 13mm wrenches, firmly tighten bolts **A** and nut **B**.

## Adjusting the brake force

- 1. With a 5mm Allen key, loosen bolt **C**.
- 2. Move wheel lock in the wheel lock bracket's slot **D** to obtain the required brake force.
  - To increase brake force, move wheel lock closer to the propulsion wheel.
  - To reduce brake force, move wheel lock further from propulsion wheel.
- 3. Firmly tighten bolt **C**.



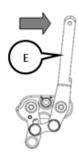
- Test and readjust wheel lock position until the required brake force is obtained, and wheel locks effectively immobilize the wheelchair.
- 5. If necessary, move the wheel lock bracket on the side frame rail.
- 6. Once the required brake force is obtained, make sure all bolts are securely fastened.

**Note** – When engaged, the wheel lock pressure bar should embed  $\frac{1}{8}$ " to  $\frac{1}{4}$ " into the tire.

## **Using wheel locks**

#### Push-to-lock

- To lock wheels, push handle **E** forward.
- To unlock wheels, pull handle **E** backwards.



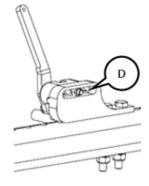
Push-to-lock



## WARNING

- Never stop a moving wheelchair with wheel locks. Wheel locks are used to lock the propulsion wheels and immobilize the wheelchair. Wheel locks are not designed to slow down or stop a moving wheelchair.
- When engaged, the wheel lock pressure bar should embed  $\frac{1}{8}''$  to  $\frac{1}{4}''$  into the tire.





## Pull-to-lock

- To lock wheels, pull handle **E** backwards.
- To unlock wheels, push handle **E** forward.



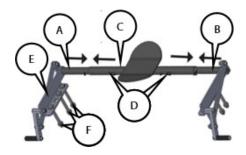
Pull-to-lock



# Attendant Wheel Lock (4-wheel or 6-wheel option)

## Installing the attendant wheel lock

- Insert parts A and B into tube C and adjust the width of the attendant wheel lock according to the width of the wheelchair.
- 2. Position and adjust bracket **E** on the side frame rails.
- 3. With two 13mm wrenches, tighten bolts **F** firmly.
- 4. Center tube **C** and then firmly tighten screws **D** with a 10 mm wrench.



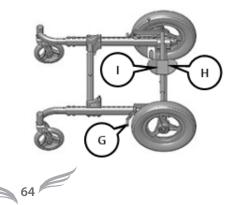
## Adjusting the brake force

- 1. With two 13mm wrenches, remove bolts F.
- 2. Move the attendant wheel lock brackets forward or backwards to obtain the required brake force.
  - To increase brake force, move attendant wheel lock backwards closer to the propulsion wheel.
  - To reduce brake force, move wheel lock further from propulsion wheel.
- 3. Reinsert bolts **F** and firmly tighten.

**Note** – Make sure the wheel lock pressure bar **G** is placed at approximately ½" from the propulsion wheel, when disengaged.

#### Using the attendant wheel lock

- To lock wheels, push down on side **H** of the foot operated lever.
- To unlock wheels, push down on side I of the foot operated lever.



# **Anti-Tips**

Physipro Inc. recommends the installation of anti-tips on all wheelchairs.

#### Installing anti-tips

- 1. Press button pin **A**, so that the lock pin is drawn inside the tube.
- 2. Insert anti-tip into the receiver.
- 3. Slide and turn the anti-tip tube until the button pin **A** and lock pin are positioned through the receiver's mounting hole.
- Repeat the process for the second antitip.

## **Adjusting anti-tips**

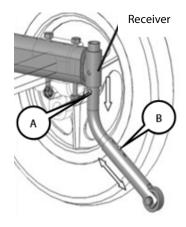
Once anti-tips are installed, it is important to adjust their height.

- Press button pin B and raise or lower the anti-tip's adjustment tube until button pin B is positioned in the adjustment hole corresponding to desired height.
- 2. Repeat the process for the second antitip.

**Note -** For maximum safety, it is recommended that anti-tips be installed no higher than 2" above the ground.

#### **Removing anti-tips**

To remove the anti-tips, simply press on button pin **A** and pull anti-tip downwards until completely extracted from the receiver.





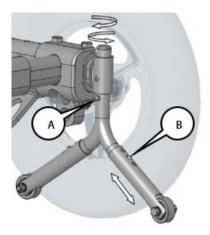
Revision 1 October 2023

# ENGLISH

#### **Disengaging anti-tips**

When being pushed by an attendant or when clearing an obstacle, anti-tips should be disengaged.

- 1. Press and hold button pin A.
- 2. Turn the anti-tips inward, towards the center of the frame.
- 3. Repeat the process for the second anti-tip.
- After an obstacle is cleared or if the occupant is left unattended, replace the anti-tips in their initial position. Make sure antitips are locked in place.





#### WARNING

- Make sure anti-tips are locked in place and that the button pins and lock pin protrude from the receiver mounting holes.
- Anti-tips may be less efficient on wet surfaces, on clay or sandy soils, in snow or gravel or uneven surfaces.
- For maximum safety, it is recommended that anti-tips be installed no higher than 2" above the ground. Adjusting anti-tips too low can make it difficult to clear common obstacles, while adjusting anti-tips to high increases the risk of tipping backwards.
- Make sure both anti-tips are positioned at the same height.
- Physipro Inc. recommends the installation of anti-tips on all wheelchairs.
- Never tilt the wheelchair by pushing down on anti-tips.



## 5. Transport

The Neox<sup>™</sup> Dynamic was designed to facilitate access to adapted transport and comes equipped with factory-installed securement points.

It is important to carefully read the *Technical sheet - Use as a seat in a motor vehicle*, in its entirety before using your wheelchair in an adapted transport vehicle to familiarize yourself with your wheelchair's technical specifications and requirements. Please take note that if you want to travel onboard a motor vehicle that is not approved by Transport Canada as an adapted transport vehicle, it is important to read the following warnings.

- Never use the wheelchair as a seat onboard a standard motor vehicle. In the event
  of a collision or a sudden stop, the occupant may be ejected from the wheelchair
  and may sustain serious injuries. The wheelchair's belts and harnesses are not
  designed to secure the occupant in these circumstances and may increase the risk
  of injury.
- During vehicle transportation, an unoccupied wheelchair should be placed inside the vehicle's cargo compartment or secured with straps inside the vehicle for the duration of travel.
- Never leave the wheelchair on the front or back seat. In the event of an accident
  or sudden stop, the wheelchair could move or be thrown forward and distract or
  even injure the driver or passengers.
- The wheelchair occupant should always use the vehicle's approved seat and safety belt.
- Never use a wheelchair that has been implicated in a traffic accident without having had conducted a thorough inspection by a qualified technician. Cease all use of the wheelchair if it shows any signs of damage.



# TECHNICAL SHEET – USE AS A SEAT IN A MOTOR VEHICLE

Read this entire manual before using your wheelchair in an adapted vehicle. Be sure to use the wheelchair tie-down and occupant restraint systems that meets ISO/DIS 7176-19:2019 standards or risk serious physical injury or death.

If you have any questions regarding the use of this wheelchair as a seat in adapted transport, contact Physipro Inc. at the following number: 1 800 668-2252.

### INTRODUCTION

The Neox<sup>TM</sup> Dynamic wheelchair complies with the ISO/DIS 7176-19:2019 standard and was designed to be placed in a forward-facing position while used as a seat in a motor vehicle.

**Note:** Compliance with this standard does prohibit using the wheelchair in a rear-facing position in larger adapted vehicles, that are equipped with rear-facing wheelchair passenger stations.

The Neox<sup>TM</sup> Dynamic wheelchair is equipped with belt restraint devices in accordance with the requirements of the ISO/DIS 7176-19:2019 standard and has successfully passed a frontal impact crash test with a 76.3 kg (170 lbs) dummy.

The Neox<sup>™</sup> Dynamic wheelchair is equipped with factory-installed securement points and uses a four-point strap tie-down restraint system.

> Only use wheelchair tiedown and occupant restraint systems which meet the ISO/DIS 7176-19:2019 standard, failure to do so may lead to serious or even fatal injury.



## WARNINGS

#### Limitations:

- The performance analysis, required by ISO/DIS 7176-19:2019, was conducted with the wheelchair in a forward-facing position in a frontal-impact collisions test of 48 kph (30 mph).
- This wheelchair meets the testing standard required by ISO/DIS 7176-19:2019 with the configurations defined at page 75 of the current manual. Wheelchairs configured differently or with seating system provided by another manufacturer have not been tested, therefore, Physipro Inc. cannot guarantee the performance of these wheelchairs.
- Compliance with the ISO/DIS 7176-19:2019 standard does not prevent injury or death of the wheelchair occupant, if implicated in a vehicle collision.

#### In the event of an accident:

- If the wheelchair is implicated in an accident, cease all use of the wheelchair immediately. Structural damage may have occurred even if there are no visible signs of damage.
- After being involved in a vehicle collision, an inspection of the wheelchair by a qualified representative of the manufacturer must be done before use.
- **WARNING:** The warranty is void if a wheelchair is implicated in a vehicle collision.



#### Travel onboard an adapted motor vehicle:

- When a transfer is possible, a wheelchair occupant should always use the vehicle's seat and safety belt. The unoccupied wheelchair should then be placed inside the vehicle's cargo compartment or secured inside the vehicle for the duration of travel.
- When adapted transport is required, the motor vehicle must be equipped with a wheelchair tie-down and occupant restraint systems which meet the ISO/DIS 7176-19:2019 standard.
- Physipro Inc. wheelchairs were dynamically tested in a forward-facing position with the occupant restrained with a pelvic belt and a shoulder belt. Both the pelvic belt and shoulder belt must be used to reduce the risk of head or chest injuries that may be sustained by impact with components of the vehicle.
- Please note that the size of the wheelchair may reduce manoeuvrability and accessibility inside a motor vehicle and that a smaller turning diameter facilitates access and mobility inside the vehicle when placed in a forwardfacing position.

#### Wheelchair modifications:

- Never remove the tie-down securement points that are used to secure the wheelchair in a motor vehicle. If the securement points are removed, they may not be reinstalled correctly, and the wheelchair will no longer meet the requirements of ISO/DIS 7176-19:2019.
- Never modify or substitute the wheelchair's tie-down securement points or any of the structural parts and components of the wheelchair, including the frame, without prior authorization by Physipro Inc.



## Weight limitations:

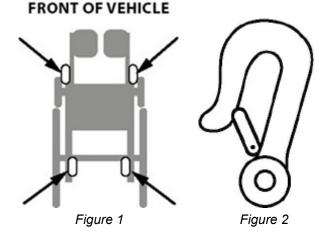
• The weight limit (for the occupant and accessories that are fixed to the wheelchair) is 120 kg (265 lbs) for use onboard an adapted vehicle. Never use a wheelchair on adapted transport if the weight limit is exceeded.

#### Inspection:

• A regular visual inspection of the complete restraint system for adapted transport is required.

## SECURING THE WHEELCHAIR ONBOARD A VEHICLE

• Install tie-down straps to the wheelchair's identified securement point locations. (see Figure 1). Securement points for adapted transport are indicated by securement point symbols on the wheelchair. (see Figure 2)



- Never install tie-down hooks on any other part of the wheelchair, if not indicated by a securement point symbol.
- Make sure the tie-down straps are properly tightened.

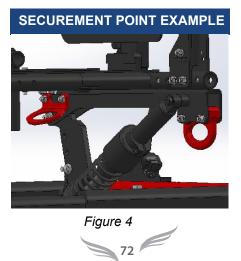


 To secure the wheelchair to the vehicle, install the rear tie-down straps to the rear securement points of the wheelchair. Install the front tie-down straps to the front securement points, make se the vehicle's front anchor points are spaced slightly wider than the wheelchair, this ensures better lateral stability. (see Figure 3)



#### WARNING

• The Neox<sup>™</sup> Dynamic was tested with and must be used with the wheelchair's complete tie-down securement system and the vehicle's occupant restraint system to ensure compliance with the ISO 10542-1 requirements.



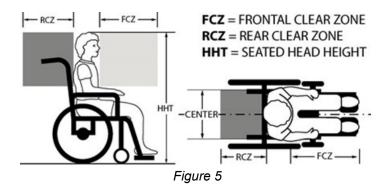
### WHEELCHAIR CLEARANCE INSIDE A MOTOR VEHICLE

The wheelchair must be placed in a forward-facing position onboard a motor vehicle. The clear zones required to ensure the proper use of the vehicle's pelvic and shoulder belts are as follows:

**Front clear zone (FCZ):** The front clear zone is measured from the frontmost point of the occupant's head and must measure 26 inches (66 cm) minimum. **Note:** The front clear zone may not be achievable for wheelchair-seated drivers.

**Rear clear zone (RCZ):** The rear clear zone is measured from the rearmost point of the occupant's head and must measure 16 inches (40.64 cm) minimum. There must be no obstruction inside this zone.

**Seated head height (HHT):** This measurement from the floor to the top of the occupant's head ranges from about 47 inches (120 cm) for a shorter adult and 61 inches (155 cm) for a taller adult.





#### WARNING:

#### Securing wheelchair accessories:

- To reduce the risk of injury to passengers, remove lap trays that have not been specifically designed for transport safety and secure separately inside the vehicle or affix lap tray securely to the wheelchair, as far away as possible from the occupant, with a shock-absorbing material placed in between the lap tray and the occupant.
- All auxiliary equipment must be firmly secured to the wheelchair or removed and stowed in a secure location during transport to reduce the risk of injury.
- If auxiliary equipment cannot be removed (such as with respirators and IV supports), the equipment must be placed as far away as possible from the occupant and wrapped in a shock-absorbing material. Make sure the protective packaging material conforms to the FMVSS201 requirements.

## **POSITIONING THE OCCUPANT**

#### Adjusting the wheelchair:

- During transportation, ensure the back angle is adjusted at no more than 30 degrees to the vertical to reduce the risk of injury to the occupant.
- If wheelchair is equipped with angle-adjustable seating, the seat angle must be set at 10-degrees.

#### Neck and head protection:

- Make sure the occupant is properly positioned in the wheelchair to protect their neck and their head in the event of a collision.
- The use of a headrest is recommended onboard adapted transport to reduce the risk of neck and head injuries in the event of a collision.



## THREE-POINT SEAT BELT

#### Positioning:

1- Position the pelvic belt across the front of the lower pelvis. The pelvic belt should be in direct contact with the occupant's pelvis and hip bones. The pelvic belt should be positioned at an angle between 45 and 75 degrees to the horizontal. If these requirements cannot be reached, the pelvic belt can be positioned securely in the optional zone, at an angle between 30 and 45 degrees to the horizontal. (see Figure 6)

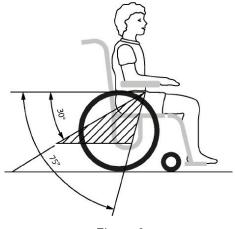


Figure 6

2- A steeper pelvic belt positioning angle in the preferred zone is recommended. A sharper angle will help minimize the formation of a vertical gap between the occupant and the pelvic belt and will considerably diminish the risk of the occupant sliding under their belt.



3- The shoulder belt should lie across the center of the chest, directly over the sternum and the middle of the anterior shoulder. The upper anchor point must be located above and behind the occupant to ensure the occupant remains in place during transportation. (see Figure 7)



Figure 7

4- The pelvic and shoulder belts should fit snugly against the occupant's body and should never be held away from the body by any of the wheelchair's components or parts (such as the armrest or wheels). For optimal positioning of the pelvic and shoulder belts, it may be necessary to insert the strap of the pelvic belt between the armrest and the backrest or in the opening between the seat and the backrest to avoid placing the strap directly over the armrest. (see Figure 8 and Figure 9)



Figure 8

Figure 9



- 5- The straps of safety belt should be positioned in a straight a line, with no more than 5-degree deviation between the occupant and both the left and right anchor points.
- 6- Make sure the straps of the safety belt are not twisted.
- 7- Adjust the safety belts as firmly as possible, without impeding the occupant's normal breathing cycle or blood circulation.

#### WARNING:

- Postural supports should not be used to restrain the occupant in a moving vehicle, except if the product is labeled as being in accordance with the requirements specified in ISO/DIS 7176-19:2019.
- Always ensure the safety belt is properly positioned and that wheelchair components cannot interfere with the buckle and activate the opening mechanism in the event of a collision.

#### Wheelchair rating in accordance with the ISO/DIS 7176-19:2019 standard:

- Rating for ease of use of the motor vehicle's three-point safety belt as required by the ISO/DIS 7176-19:2019 standard:
- o Neox<sup>™</sup> Dynamic "Excellent"
- Rating of the degree to which the use of the vehicle's three-point safety belt adequately secures the occupant as required by the ISO/DIS 7176-19:2019 standard:

CRASH TEST CONFIGURATION			
ISO 7176-7 WHEELCHAIR CONFIGURATION MEASUREMENTS			
Neox <sup>™</sup> Dynamic	18" (width) x 18" (depth) x 18" (STF*),		
	20'' backrest height		
ISO 7176-5 WHEELCHAIR MASS MEASUREMENT			
Neox <sup>™</sup> Dynamic	30.91 kg (68 lbs)		
ISO 7176-11 RECOMMENDED MAXIMUM			
OCCUPANT MASS MEASUREMENT			
Neox™ Dynamic	120 kg (265 lbs)		

o Neox<sup>™</sup> Dynamic - "Excellent"

\*STF: Seat-to-Floor Height



## 6. Cleaning and Maintenance

Regular cleaning and maintenance will extend the lifespan and performance of your wheelchair. We strongly recommend that when cleaning your wheelchair, you inspect all the parts and components to ensure they are in good condition.

#### **General Recommendations**

- Immediately remove all contaminates (food and/or organic).
- If a person has a contagious infection, disinfect the seat cushion, armrests, backrest, and any other surface daily with a disinfectant spray.

## **Cleaning your wheelchair**

#### **Painted surfaces**

A weekly cleaning is recommended.

- 1. Clean painted surfaces with a mild soap or a neutral based detergent and water (2 ounces (6 cl) for 8L of water) and rinse thoroughly.
- 2. Dry with a clean cloth to absorb excess moisture.

Treating the painted surfaces with a coat of non-abrasive car wax every three (3) months will protect the painted finishes.

- 1. The painted surfaces must be clean and completely dry before applying car wax.
- 2. Apply car wax by following the instructions listed on the product label.
- 3. Use a microfiber cloth to polish.



#### WARNING

- Never use an abrasive cleaner.
- Never use a pressure washer.

#### **Axle and Moving Parts**

A weekly cleaning is recommended.

- 1. Remove all dirt and dust from the axles and moving parts.
- 2. Clean the axles and moving parts with a damp cloth and dry with a clean cloth.



#### Sling Backrest

A weekly cleaning is recommended.

- 1. Gently wipe with a cloth dampened with a mild soap or neutral detergent.
- 2. Remove excess moisture by lightly patting the surfaces with a clean cloth.
- 3. Allow to air dry completely.



#### WARNING

Never machine wash or dry a sling backrest, doing so will damage the fabric.

#### **Comfort Accessories**

A weekly cleaning is recommended.

- 1. Gently wipe with a cloth dampened with a mild soap or neutral detergent.
- 2. Remove excess moisture by lightly patting the surfaces with a clean cloth.
- 3. Allow to air dry completely.

## Disinfection

Disinfection helps destroy infectious agents and eliminate pathogenic microorganisms with the use of bactericidal or virucidal cleaning products.

- 1. Wipe surfaces with disinfecting wipes containing at least 70% alcohol.
- 2. Let product react for 15 minutes.
- 3. Rinse with a clean, water-dampened cloth.
- 4. Remove excess moisture by lightly patting the surfaces with a clean cloth.
- 5. Allow to air dry completely.

We strongly recommend that frequently touched surfaces, such as handles, armrests, handrims, propulsion wheels, wheel locks and footrest, be disinfected regularly, even daily.



#### WARNING

Never use a bleaching agent on fabrics or straps.



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## Maintenance

Performing regular maintenance will extend your wheelchair's lifespan and ensure your safety during use.



#### WARNING

- Upon receiving your wheelchair, a thorough inspection of all components and parts should be completed to ensure their proper function and the occupant's safety.
- A regular inspection of the wheelchair components and parts, at the intervals indicated in the *Maintenance Checklist*, is necessary to keep your wheelchair in good condition.
- The inspection by a qualified technician is recommended twice a year to ensure your wheelchair's proper operation.

Maintenance Checklist	Weekly	Monthly	Every 6 months
General			
Clean all wheelchair parts	1		
Make sure wheelchair rolls in a straight line	1		
Make sure all parts operate without abnormal noises, vibrations, or irregular movements.	1		
Wheels and Tires			
Make sure tire pressure is adequate (if applicable)	1		
Check tires for wear or deformation		1	
Make sure wheels roll smoothly		1	
Check wheel alignment			1
Check the camber angles of the wheel			1
Make sure caster forks are securely attached			1
Make sure caster forks rotate properly		1	
Make sure handrims are firmly attached			1
Make sure handrims are in good condition		1	
Make sure spoke guards are firmly attached			1
Make sure Quick-release axle is clean and well-oiled (if applicable)		1	

Rear Caster Tilt Mechanism (if applicable)			
Check the condition and the proper operation of the Rear Caster Tilt Mechanism			1
Wheel locks	1		1
Check the effectiveness and condition of wheel locks		1	
Make sure wheel locks do not interfere with the rotation of the propulsion wheels		1	
Check condition of wheel lock handles		1	
Tilt System			
Make sure activation levers and gas cylinders are functioning properly		1	
Make sure gas cylinders are not leaking oil		1	
Check condition of cables and make sure they are well attached		1	
Power Tilt System (if applicable)			
Make sure activation levers and electric cylinders are functioning properly		1	
Check condition of cables and make sure they are well attached		1	
Armrest			
Make sure armrest are well-adjusted and securely attached			1
Make sure height-adjustment and removable mechanism function properly			1
Check the condition of clothing guard			1
Check the condition of armrest pads		1	
Footrest			
Make sure footrest are well-adjusted and securely attached		1	
Make sure the removable footrest mechanism function properly			1
Check the condition of footplates			1



Elevating and Articulating Legrest (if applicable)						
Make sure the elevating legrest is securely attached and functions properly			1			
Seat and Backrest	Seat and Backrest					
Make sure the seat, backrest and tension bar are securely attached			1			
Make sure the stroller bar functions properly (if applicable)			1			
Make sure the Dynamic backrest functions properly (if applicable)		1				
Make sure the Reclining Gas Spring backrest functions properly (if applicable)			1			
Check the condition of seat and backrest covers			1			
Pelvic positioning belt						
Check the condition and make sure the positioning belt is securely attached		1				
Check the proper functioning of belt buckle	1					
Anti-tips						
Check the condition and adjustment of anti-tips to ensure proper functioning	1					
Transport						
Check the condition of securement points and make sure they are securely attached	1					

#### **Replacement Parts**

Please refer to our website to consult our parts catalog. For more information, you can contact us by phone at 1 800-668-2252, by email at order@physipro.com or visit us in person. Physipro Inc. is located at 370, 10th Avenue South, Sherbrooke (Quebec) Canada J1G 2R7.

#### **Repair Services**

All parts and components, except for pneumatic tires and inner tubes, must be repaired by the manufacturer or an authorized repair facility.

If your wheelchair presents any of the following problems: abnormal noises or vibrations, frame deviation, misaligned wheels, loose bolts, misaligned caster forks, broken or loose spokes, broken bearings, or if replacement parts are needed, please contact our customer service at 1 800 823-2252 or at order@physipro.com for the complete list of authorized repair facilities and the repair procedure.

Certain parts and components, such as the wheels, armrests, footrests, seat sling and cushion can be removed and sent directly to a repair facility, after receiving a written approval by Physipro Inc.

Certain distributors may provide replacement units during the repair process. For more information, contact your representative.

Physipro Inc. will provide repair parts for a minimum of 5 years or will provide a compatible replacement option.



## 7. Storage and Shipping

## Storage General Recommendations

- Your wheelchair must be stored in a clean and dry area. Do not store near any pointed objects that may damage the wheelchair.
- If your wheelchair is stored for several weeks, please consult the *Maintenance Checklist*, and proceed to a thorough inspection before use. It is important to verify the proper functioning of each component. If necessary, perform the recommended maintenance.
- If your wheelchair has been stored for over two (2) months, an inspection by a qualified technician is required.
- To avoid damaging your wheelchair, never store your wheelchair in an excessively humid area or leave your wheelchair outside for long periods of time in bad weather, such as rain, snow, or extreme cold temperatures.

## Shipping

To safely ship your wheelchair, please follow these recommendations.

- Place the wheelchair in a sturdy cardboard box, that is large enough to accommodate the wrapped wheelchair. We recommend that the box be at least 5" (130 mm) larger and taller than the wheelchair.
- Wrap the wheelchair in a protective packaging material.
- Fill all empty space inside the box with a packaging material to prevent the wheelchair from moving around inside the box.



#### WARNING

Before using your wheelchair, inspect all components. Please refer to the *Maintenance Checklist*.



## 8. Warranty

Physipro Inc. is committed to maintain all devices, components, and parts in good working condition, and to repair all design or manufacturing defects, that may impede on the proper functioning or breakdown of the product, at its expense.

This warranty applies to all devices, components and parts and covers all materials and workmanship required for the complete execution of repair. This warranty also includes administrative and transport costs incurred for repair services.

Physipro inc. offers the following warranty periods:

#### 5 years

- Frame and cross-brace against defects in materials and workmanship.

#### 2 years

- Parts and labor for original defects in material and workmanship of the wheelchair components and optional components.
- New parts that have been replaced by the supplier or by an authorized dealer, with effect from the delivery date or, if applicable, from the date of replacement, with a copy of the seller's invoice required for coverage under this warranty.

#### 30 days

- Tires, inner tubes, comfort upholsteries, armrests, seat covers, backrest covers and ball bearings.

Physipro inc. agrees to repair or replace any inoperative or defective part for the duration of the warranty period.

Devices and components that are replaced or repaired under one of these warranties will remain subject to the warranty for the remaining warranty period.



## **Warranty Limitation:**

The warranty does not cover damages:

- Attributed to the installation of a component or part, provided by a third party or a manufacturer, without the supplier's authorization.
- Caused by a third party or a manufacturer, that does not have the supplier's authorization.
- Arising from improper use or failure to comply to the operation and maintenance instructions and the recommendations provided in the user manual.
- Damage that occurs to the product during transportation.

Replacement and repairs carried out during the warranty period must be made with the original parts and components.

To obtain warranty service, please contact Physipro Inc. or an authorized dealer.

Do not return this product without prior approval by Physipro Inc. If you are dissatisfied with this product, send us your comments by email at order@physipro.com or at the following address:

**Physipro Inc.** 370, 10th Avenue South, Sherbrooke (Quebec) Canada J1G 2R7

Physipro Inc. is responsible for ensuring that the guarantees and terms of this warranty are implemented.

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Notes:		
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#### Canada



LES ÉQUIPEMENTS ADAPTÉS PHYSIPRO INC.

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