

## Quickie® SEDEO® PRO

**Supplier:** This manual must be given to the user of this wheelchair.

**User:** Before using this wheelchair read this entire manual and save for future reference.

Owner's Manual

## Quickie® SEDEO® PRO

**Distribuidor:** Este manual debe ser entregado el usuario de esta silla de ruedas.

**Usuario:** Antes de usar esta silla de ruedas, lea este manual en su totalidad y guárdelo para futura referencia.

Manual de  
Instrucciones

Cada una de las sillas se envía con un manual de instrucciones en inglés. El manual en español y francés está disponible en formato PDF en nuestra página en Internet: [www.SunriseMedical.com](http://www.SunriseMedical.com). Ingrese a la página del producto específico para descargar el manual, o comuníquese con el proveedor autorizado de Sunrise Medical.

## Quickie® SEDEO® PRO

**Au Fournisseur:** Ce manuel doit être remis à l'utilisateur de ce fauteuil roulant.

**Utilisateur:** Avant d'utiliser ce fauteuil roulant, lisez l'intégralité de manuel et conserver pour référence future.

Chaque fauteuil est livré avec un manuel d'instructions en anglais. Les versions en espagnol et en français sont à votre disposition en format PDF sur le site : [www.SunriseMedical.com](http://www.SunriseMedical.com). Veuillez vous rendre à la page de votre produit pour télécharger le manuel dans la langue souhaitée, ou contactez un fournisseur agréé Sunrise Medical.

Manuel  
d'Instructions

P/N 248020 Rev. F

**SUNRISE MEDICAL LISTENS**

Thank you for choosing a Quickie® wheelchair. We want to hear your questions or comments about this manual, the safety and reliability of your chair, and the service you receive from your Sunrise dealer. Please feel free to write or call us at the address and telephone number below:

**SUNRISE MEDICAL (US) LLC**

Customer Service Department  
2842 N. Business Park Avenue  
Fresno, CA 93727 USA  
(800) 333-4000



[www.SunriseMedical.com/register](http://www.SunriseMedical.com/register)

Be sure to register your wheelchair, and let us know if you change your address. This will allow us to keep you up to date with information about safety, new products, and options to increase your use and enjoyment of the wheelchair.

You can also register your product at:  
[www.SunriseMedical.com/register](http://www.SunriseMedical.com/register)

**FOR ANSWERS TO YOUR QUESTIONS**

Your authorized dealer knows your wheelchair best, and can answer most of your questions about chair safety, use, and maintenance.

For future reference, please fill in the following:

Dealer: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Serial #: \_\_\_\_\_ Date/Purchased: \_\_\_\_\_

**ADDITIONAL INFORMATION YOU SHOULD KNOW**

No component of this chair was made with Natural Rubber Latex.

**DISPOSAL AND RECYCLING INFORMATION**

When this product reaches the end of its life, please take it to an approved collection or recycling point designated by your local or state government. This product is manufactured using a variety of materials.

Your product should not be disposed of as ordinary household waste. You should dispose of your product properly, according to local laws and regulations. Most materials that are used in the construction of this product are fully recyclable. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is disposed in a manner that protects the environment.

Ensure you are the legal owner of the product prior to arranging for the product disposal in accordance with the above recommendations.

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## 1.0 User information

Congratulations on choosing a Sunrise Medical wheelchair. Our high quality mobility products are designed to enhance your independence and make your everyday life easier.

As a part of our ongoing product improvement initiative, Sunrise Medical reserves the right to change specifications and design without notice. Further, not all features and options offered are compatible with all configurations of the wheelchair.

All dimensions are approximate and may be subject to change. The intended lifetime of the wheelchair is five (5) years. Please **DO NOT** use or fit any third party components to the wheelchair unless they are officially approved by Sunrise Medical.

### 1.1 This user manual

This user manual will help you to use and maintain your seating system safely. This seating manual is a supplement to Sunrise Medical's general wheelchair user manual:

- The general wheelchair user manual
- The user manual for the seating system (this manual)
- The user manual for the controller
- The user manual for the battery charger

When necessary, this seating user manual refers to other manuals as shown below:

-  General manual: Refers to the general user manual for the wheelchair.
-  Controller: Refers to the user manual for the controller.
-  Battery charger: Refers to the user manual for the battery charger.

### Do not use your wheelchair until this entire manual (all booklets) has been read and understood!

If one of the user manuals was not included with your wheelchair, please contact your Sunrise Medical authorized dealer immediately.

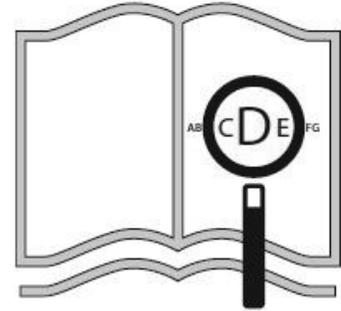
### 1.2 For further information

Please contact your Sunrise Medical authorized dealer if you have any questions regarding the use, maintenance, or safety of your wheelchair. In case there is no authorized dealer in your area or you have any questions, contact Sunrise Medical either in writing or by telephone. For information about product safety notices and product recalls, go to [www.SunriseMedical.com](http://www.SunriseMedical.com)

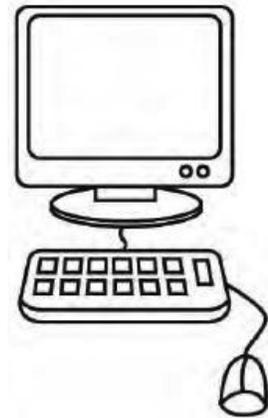
### 1.3 Symbols used in this manual

-  **DANGER!**  
Potential risk of serious injury or death
-  **WARNING!**  
Potential risk of injury
-  **CAUTION!**  
Potential damage to equipment
- NOTE:**  
General user advice

Not following these instructions may result in physical injury, damage to the product, or damage to the environment!



If you are visually impaired, this document can be viewed in PDF format at [www.SunriseMedical.com](http://www.SunriseMedical.com)



## 2.0 SAFETY

Follow the instructions carefully next to these warning symbols! Not paying careful attention to these instructions could result in physical injury or damage to the wheelchair or the environment. Wherever possible, safety information is provided in the relevant chapter.

### 2.1 Symbols and labels used on the product

The signs, symbols, and instructions affixed to the wheelchair comprise part of the safety facilities. They must never be covered or removed. They must remain present and clearly legible throughout the entire lifespan of the wheelchair.

Replace or repair all illegible or damaged signs, symbols, and instructions immediately. Please contact your Sunrise Medical authorized dealer for assistance.

- Fig. 2.1: Warning – Danger of finger entrapment (pinch point).
- Fig. 2.2: Warning – Maximum user weight for the wheelchair.
- Fig. 2.3: Warning – Ensure that the seat interface thumb screws are screwed in tight before using your wheelchair, especially on a slope.
- Fig. 2.4: Warning – Do not drive your wheelchair on a slope with the backrest reclined.

### 2.2 Safety: Temperature

#### **WARNING!**

- Avoid physical contact with the wheelchair's motors at all times. Motors are continuously in motion during use and can reach high temperatures. After use, the motors will cool down slowly. Physical contact could cause burns. Allow the motors after using at least 30 minutes to cool down.
- If you do not use the wheelchair, ensure that it is not exposed to direct sunlight for lengthy periods of time. Certain parts of the wheelchair, such as the seat, the back, and the armrests can become hot if they have been exposed to full sunlight for too long. This may cause burns or allergic reactions to the skin.

### 2.3 Safety: Moving parts

#### **DANGER!**

A wheelchair has moving and rotating parts. Contact with moving parts may result in serious physical injury or damage to the wheelchair. Contact with the moving parts of the wheelchair should be avoided (Fig. 2.5).

- Wheels (turning and caster)
- Powered tilt in space adjustment
- Powered seat lift option
- Powered recline adjustment
- Swing-away bracket of the controller
- Power elevating leg rest

### 2.4 Safety: Choking hazard

#### **DANGER!**

This mobility aid uses small parts which under certain circumstances may present a choking hazard to young children.



Fig. 2.1



Fig. 2.2



Fig. 2.3

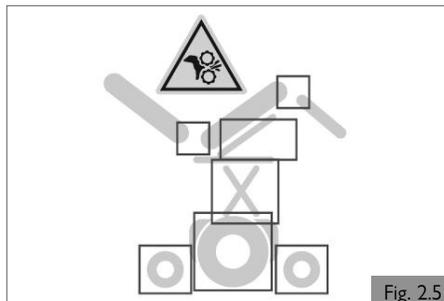


Fig. 2.5



Fig. 2.4

## 2.5 Safety: General warnings

### DANGER!

1. Always ensure that you are able to operate all controls from a comfortable position. Paying attention to your posture is essential to ensure your continued comfort and well being.
2. Always ensure that you can be seen clearly. Use the lights, especially if you intend using your seating system in poor light.
3. This seating system has been set up to match the needs of a particular user. If used by another user, then it may need to be adjusted.
4. Do not let children or others use your seating system.
5. Avoid spilling liquids on to the controller or its connections, especially hot, sticky, sugary, or corrosive liquids. Such contamination may compromise the safe operation of the control system and damage the seating system upholstery.

### WARNING!

DO NOT use any wheelchair that has been involved in a motor vehicle accident. A sudden stop and/or collision may structurally damage your wheelchair. There may have been a change to the structure of the chair and/or damaged or broken some of the components. Wheelchairs involved in sudden stops should be inspected for possible failures in frame and/or components. Frame damage may be represented by but not limited to: visual cracks, dents, metal distortion, bends, or damage to the seating mounting. If the chair no longer drives straight, it could be damaged. **If the wheelchair has been involved in an accident, discontinue use immediately and contact your Sunrise Medical authorized dealer for a thorough inspection.** If the damage is questionable or if there is concern regarding the condition of the chair, Sunrise Medical recommends replacement of the chair.

Wheelchairs involved in collisions should be replaced.

**NOTE: the warranty is void on any wheelchair that is involved in a collision.**

### 2.5.1 User and Attendants

#### DANGER!

1. When transferring the user in or out of the seating system, never use the footplate as a platform.
2. When transferring the user in or out of the seating system, never use the armrest as a means of support.
3. Do not lift this seating system by any parts that are removable. Doing so may result in damage to the seating system or injury to the user.
4. Never try to stop or slow this seating system with the wheel locks (if applicable). Wheel locks are designed to prevent the system from moving when stopped. They are not brakes.
5. Always keep your hands and body parts clear of moving parts to help prevent injuries.

### 2.5.2 User

#### DANGER!

1. Every seating system is different.
2. Take the time to learn the feel of this system before you begin riding.
3. Be aware that you must develop your own methods for the safe use of this system that are best suited to your level of function and ability.
4. Have someone help you practice bending, reaching, and transferring until you learn how to do them safely.
5. Never try a new maneuver on your own unless you are sure it is safe.
6. Get to know the areas where you plan to use your system. Look for hazards and learn how to avoid them.
7. Always wear a positioning belt.
8. Do not use a seating system if the joystick does not spring back to the neutral position.
9. Do not use your seating system if the joystick boot is ripped or damaged.
10. Do not try to tip this seating system without an attendant present.
11. Do not allow additional riders; the system may become unstable.

### 2.5.3 Attendants

#### DANGER!

Ensure you heed all warnings and follow all instructions in each section of this manual. Warnings that apply to the user also apply to you.

1. Do not stand or sit on any portion of this seating system.
2. You need to work with the user, and the user's doctor or health care provider, to develop safe methods best suited to your abilities and those of the user.
3. To manually push the system you must release the motor brakes.
  - Do not engage or disengage motor brakes **unless** power to the system is **off**.
  - Ensure you have full control over the system when you release the motor brakes. When you do so the system will not have brakes.
  - Ensure the system is on level ground before you release the motor brakes.
4. Check to ensure push handle grips will not rotate or slip off.

### 2.5.4 Attendant control

#### DANGER!

Ensure you always have comfortable access to the controls while the chair is moving and ensure that the controller is fixed securely to the chair.

1. Set the speed of the attendant control to a speed that you can comfortably follow.
2. Always turn off the power to the controller when leaving the user in the chair.

## 2.6 Safety: Accessory Trays

### 2.6.1 Vent tray

#### WARNING!

Using a vent tray will affect the stability and overall weight of your wheelchair.

1. Ensure that the batteries and the ventilator are securely fastened to the tray before use.
2. Familiarize yourself with the increased size of the wheelchair before driving to prevent potential collisions.
3. When activating the recline backrest ensure that the area around the vent tray is clear.
4. Be aware that the vent tray assembly can cause a finger trap (pinch point) hazard when the backrest is reclined.
5. The vent tray is not designed to hold anything other than the vent unit and its batteries. It is not designed to hold an oxygen bottle, etc. Use of these items may cause your wheelchair to become unstable.
6. The vent tray must be mounted and maintained by a Sunrise Medical authorized dealer.

### 2.6.2 Swing away tray

#### DANGER!

1. The maximum load allowed for the tray is 5.5 lbs (2.5kg)
2. Do not overload the tray. This could cause the tray to break or could cause the chair to become unstable.
3. Do not leave lit cigarettes or other heat sources on the tray as this could cause the tray to deform and mark.
4. Ensure that all extremities and clothing are clear when positioning the tray for use.

## 2.7 Safety: Stability

#### DANGER!

1. Removing the batteries may cause the chair to become unstable causing it to tip backwards.
2. Only remove the batteries while the chair is on the ground.
3. Do not remove the batteries while the chair is on a lift table or on any other elevated surface.

## 3.0 GENERAL DESCRIPTION

### General description

This wheelchair is equipped with the Sedeo Pro seating system. The Sedeo Pro seating system provides excellent support for the head, torso, arms, and legs. Optimal body support ensures maximum independence for the wheelchair user.

The wheelchair must be adjusted by a qualified specialist. Incorrect settings may have negative consequences for the user.

Main Components (Fig.3.1).

1. Headrest
2. Joystick
3. Armrest
4. Seat cushion
5. Leg rest
6. Backrest cushion

### 3.1 Maximum user weight

**The overall maximum user weight shall not exceed:**

SEDEO Pro/Advanced	- 300 lbs (136 kg)
SEDEO Pro/Advanced w/C-ME® up to 3mph	- 300 lbs (136 kg)
SEDEO Pro/Advanced Heavy Duty with recline	- 350 lbs (159 kg)
SEDEO Pro Heavy Duty without recline	- 450 lbs (204 kg)

**⚠ WARNING!**

Exceeding the weight capacities could lead to injury and/or permanent damage to the equipment.

**NOTE** — Exceeding the weight limit will void the warranty.

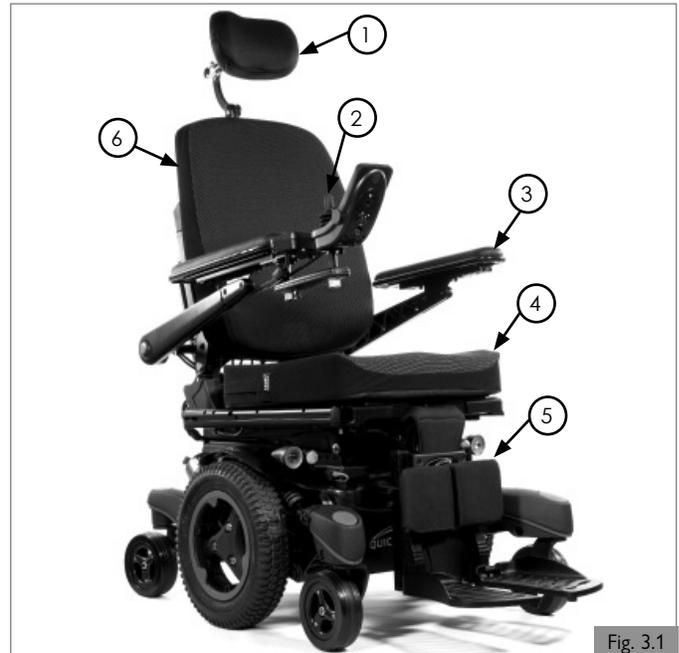


Fig. 3.1

## 4.0 WARNINGS FOR COMPONENTS AND OPTIONS

**⚠ WARNING!**

If you use parts or make changes not authorized by Sunrise Medical it may create a safety hazard and will void the warranty.

**4.1 Armrests****⚠ DANGER!**

1. Armrests will not bear the weight of the user.
2. Never lift this system by its armrests. They may come loose or break.
3. When transferring the user in or out of the seating system, never use the armrest as a means of support.

**4.2 Cushions****⚠ WARNING!**

1. Standard foam cushions and other body supports are not designed for the relief of pressure.
2. If you suffer from pressure sores, or if you are at risk that they will occur, you may need a special seating system or a device that will help control your posture. Consult your health care provider to find out if you need such a device for your comfort and health.

**4.3 Fasteners****⚠ WARNING!**

Many of the screws, bolts, and nuts on this system are special high-strength fasteners. Use of improper fasteners may cause your system to fail.

1. Only use fasteners provided by Sunrise Medical.
2. If fasteners become loose, tighten them immediately.
3. Do not over- or under-tighten fasteners as this can cause damage to your system or its components.
4. Always tighten to specified torque. Specified torque values are listed in Section 9.
5. Do not reuse fasteners.

**4.4 Footplate and footrests****⚠ DANGER!**

1. At the lowest point, footrests should be at least 2-in (51mm) off the ground. If set too LOW, they may "hang up" on obstacles you can expect to find in normal use. This may cause the system to stop suddenly and tip forward.
2. To avoid a trip or fall when you transfer:
  - Ensure your feet do not "hang up" or get caught in the space between the footrests.
  - Avoid putting weight on the footrests, as the system may tip forward.
  - Remove or swing the footrests out of the way, if possible.
3. The footrest should always be in the down position when operating the system.
4. Never lift this system by the footrests. Footrests detach and will not bear the weight of this system. Lift this system only by non-detachable parts of the main frame.

**4.5 Positioning belts****⚠ DANGER!**

The positioning belt is predominately used to support your posture. It can also be used to limit slipping and/or sliding that you might experience when the system is in motion. The positioning belt is not a transit rated safety belt and should not be used in the place of a seat belt while being transported in a motor vehicle. Improper use of positioning belts may cause severe injury or death. If you use a positioning belt, ensure you follow the recommendations in this section:

1. Ensure the rider does not slide down in the seating system seat. If this occurs, the rider may suffer chest compression or suffocate due to pressure from the belts.

2. The belts must be snug, but must not be so tight that they interfere with breathing. You should be able to slide your open hand, flat, between the belt and the rider.
3. A pelvic wedge or a similar device can help keep the rider from sliding down in the seat. Consult with the rider's doctor or health care provider to find out if the rider needs such a device.
4. Use positioning belts only with a rider who can cooperate. Ensure the rider or attendant can easily remove the belts in case of emergency.
5. NEVER use positioning belts:
  - a. As a patient restraint. A restraint requires a doctor's order.
  - b. On a rider who is comatose or agitated.
  - c. As a motor vehicle restraint. In an accident or sudden stop the rider may be thrown from the system. Seating system positioning belts will not prevent this, and further injury may result from the belts or straps.

If you fail to heed these warnings, damage to your system, a fall, tip-over, or loss of control may occur and cause severe injury to the rider or others.

**4.6 Push handles****⚠ DANGER!**

1. Push handles provide secure points for an attendant to propel and control the system. This helps to prevent a fall or tip-over.
2. Check to ensure push handle grips will not rotate or slip off.

**4.7 Seating systems****⚠ DANGER!**

1. Use of a seating system not approved by Sunrise Medical may affect or interfere with other parts of the system.
2. Never change the seating system unless you consult your Sunrise Medical authorized dealer first.
3. Never raise your seating system to a height of more than 19-in (482mm) (measuring from the front of the seat pan to the floor) with all actuators in their home position.

**4.8 Upholstery fabric****⚠ DANGER!**

1. Replace worn or torn fabric of the seat sling and/or seat back as soon as possible. If you fail to do so, the seat may fail and cause you to fall. Worn or torn fabrics may increase the potential for a fire hazard.
2. Fabric will deteriorate with age and use. Look for fraying, thin spots, or stretching of fabric at rivet holes. Replace fabric as required.
3. Be aware that washing may reduce flame retardation qualities of the fabric.

**4.9 Wiring and connectors****⚠ WARNING!**

Never pull on cables directly. This can result in wires breaking inside the connector or harness. To remove a plug or connector, always grasp the plug or connector itself.

**4.10 Assignable controls****⚠ DANGER!**

It is possible to assign a function to an input control (buttons, jacks) to your seating system. If controls have been assigned to perform a dual or alternate function, ensure you know what each control operates. Please contact your Sunrise Medical authorized dealer if you do not receive this information. Failure to do so may result in damage and/or injury.

## 4.0 WARNINGS FOR COMPONENTS AND OPTIONS

### 4.11 Power seating safety

#### ⚠️ DANGER!

#### 1. Operation

- While driving this seating system in the reclined, elevated, or tilted position use caution.
- Do not attempt to operate any power seating option while positioned on an incline.
- Do not attempt to operate any power seating option while this seating system is in motion.
- Do not attempt to operate the recline, lift, or tilt power seating options around children.
- Through programming it is possible to reverse the direction of all powered seating functions. Ensure you know which direction your seat is going to move before operating. Please discuss with your Sunrise Medical authorized dealer which direction the power seating functions have been programmed.

#### 2. Reduced Speed Driving (Creep and/or C-Me)

This power system is designed to automatically reduce the maximum driving speed to a creep and/or C-Me mode when certain power seating limits are reached. Depending on the configuration of the chair there might be multiple creep and/or C-Me speeds. Please discuss the multiple creep and/or C-Me speeds with your Sunrise Medical authorized dealer.

Before operating your chair in creep and/or C-Me mode, read all warnings and guidelines related to this feature. They will help in understanding how to reduce the risk of a fall or tip-over and how to identify environmental conditions that could affect your safety when driving while the chair is in creep and/or C-Me speed.

- When driving indoors or outdoors, in creep mode, it should only be used on flat, level, and hardscape surfaces.
- Driving in creep mode should never be attempted on uneven terrain like: gravel, grass, bumpy surfaces, uneven sidewalks, or hills.
- This feature may be equipped with a system that allows the power chair to drive up to 3 mph when the seat is elevated. This feature is called C-Me.
- NEVER raise the seat when the chair is being operated in the proximity of any of the terrain types listed above, or on any uneven surface.

#### 3. Pinch points

Pinch points may occur when operating the powered seating options on this system. Ensure all hands and body parts are clear of all power seating components that may result in pinch points before operating them.

#### 4. Tilting power base with push handles

Do not attempt to tilt power wheelchairs by pulling down on the push handles. Power wheelchairs have heavy bases. As such, attempting to tilt a power seating system to traverse obstacles can damage components in the seating system and/or modular actuators.

#### 5. Remain clear during power accessory operation

Please stay clear of any powered actuator while the component is in motion. Sunrise Medical power mechanisms move over large ranges of travel. Users should be aware of their surroundings while components are in motion.

#### 6. Maximum user weight

Do not exceed the weight capacity for your specific system/seating system configuration. Doing so could result in premature failure or injury.

#### 7. Latch mode

Use caution while operating any power seating function in latched mode. In latch mode, powered seating will not stop until a reverse command is performed or the end of travel is met. Please consult with your Sunrise Medical authorized dealer to receive training before using latch mode. Failure to do so may result in potential serious injury.

### 4.12 Power recline

#### ⚠️ DANGER!

#### Pinch Point

Avoid putting hands or fingers near the power recline mechanism while in operation.

#### Power Recline Weight Capacity

The maximum user weight capacity for the power recline is up to 300 lbs (136 kg), 350 lbs (158 kg) for heavy duty chair. Exceeding this weight capacity could lead to injury and/or permanent damage to the equipment.

### 4.13 Power leg rest

#### ⚠️ DANGER!

The power leg rest accessory has a maximum user weight capacity of up to 450 lbs (204 kg) depending on your system configuration. Never exceed this capacity while operating the powered actuator.

### 4.14 Lift, Tilt, or Combo

#### ⚠️ DANGER!

#### Pinch Point

Avoid putting hands, fingers, clothing items, or letting children near the seating system when the Tilt/Lift mechanism is in operation.

#### Lift, Tilt, or Combo Weight Capacity

The powered lift, tilt and/or lift/tilt modular accessory for this system has a maximum user weight of up to 300 lbs (136 kg), 450 lbs (204 kg) for heavy duty tilt. Never exceed this capacity while operating the powered actuator.

### 4.15 C-Me® Lift

#### ⚠️ DANGER!

The C-ME accessory has a maximum user weight capacity of 300 lbs (136 kg) with a maximum speed of 3 mph at full lift. Never exceed this capacity while operating the lift.

#### ⚠️ WARNING!

Exceeding these weight capacities could lead to injury and/or permanent damage to the equipment.

Note: Exceeding the weight limit will void the warranty.

### 4.16 Swing away joystick arm

#### ⚠️ DANGER!

Before adjusting the swing away arm, switch off the controller to avoid accidental displacement of the joystick which would cause unwanted movement of your wheelchair. Be aware that the width of your chair may have increased and you may not be able to go through certain obstacles.

#### ⚠️ DANGER!

- Only operate the wheelchair at a low and maneuverable speed when the parallel swing-away is in use. (Fig. 4.1)
- When transferring to and from the wheelchair, do not use the remote as a means of support.
- Do not hang any items on or over the parallel swing-away remote assembly as this could damage the swing-away mechanism.

Note: hanging items on/near the joystick may cause unwanted movement and potential of serious injury or death!

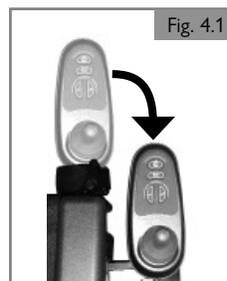


Fig. 4.1

## 4.17 Transit

**⚠ DANGER!**

Important Transit notes for the chair:

1. If possible and feasible, the rider should transfer to the Original Equipment Manufacturer (OEM) vehicle seat and use the vehicle restraint.
2. If the seating system is used for transport, it must be used in a forward-facing seating position during travel in a motor vehicle.
3. The recommended clear zones for wheelchair seated occupants restrained by both pelvic and upper-torso belt(s) and only by a pelvic belt are shown in the diagrams (Fig. 4.2 and 4.3) and described below. Frontal Clear Zones (FCZ) need to be larger when upper torso belt(s) are not used. The Rear Clear Zone of 16-in (40.5 cm) is measured from the rearmost point on an occupant's head. The Front Clear Zone is measured from the front most point of an occupant's head and is 26-in (66 cm) with pelvic and upper-torso belt(s) and 37-in (94 cm) with only a pelvic belt. The frontal clear zone may not be achievable for wheelchair-seated drivers.
4. The estimated seated height (HHT) from the ground or floor to the top of the wheelchair-seated occupant's head ranges from approximately 47-in (119 cm) for a small adult female to about 61-in (155 cm) for a tall adult male (Fig. 4.3).
5. The rider must not weigh more than the weight capacity of the wheelchair.
6. Attach WTORS to securement points in accordance with the manufacturer's instructions and SAE J2249.
7. Ensure hip guides are mounted and are locked in place.
8. Only use Wheelchair Tie-down and Occupant Restraint Systems (WTORS) which meet the requirements of SAE J2249 Recommended Practice-Wheelchair Tie-down and Occupant Restraint Systems For Use in Motor Vehicles. Do not use WTORS designed to rely on the wheelchair structure to transfer occupant restraint loads to the vehicle.
9. In order to reduce the potential of injury to vehicle occupants, wheelchair mounted accessories, such as trays and respiratory equipment, should be removed from the seating and wheelchair and secured separately.
10. Postural supports and positioning devices should not be relied on for occupant restraint.
11. Do not alter or substitute wheelchair frame parts, components, or seating.
12. Sudden stops or impacts can structurally damage your system. Chairs involved in such incidents should be replaced.

Important Transit notes for Occupant restraints:

13. Attach occupant restraints in accordance with the manufacturer's instructions and SAE J2249.
14. Both pelvic and upper torso restraint belts must be used to restrain the occupant to reduce the possibility of head and chest impacts with the vehicle components and serious risk of injury to the user and other vehicle occupants (Fig. 4.4).
15. The upper torso restraint belt (A) should be mounted to the vehicle (B) pillar. Failure to do so will increase the risk of serious abdominal injuries to the user (Fig. 4.4).
16. A head restraint suitable for transportation must be fitted and suitably positioned at all times during transportation.
17. The pelvic restraint belt (C) must be worn low across the front of the pelvis so that the angle of the pelvic belt is within the preferred zone of 30 to 75 degrees to the horizontal (Fig. 4.4).
18. A steeper (greater) angle within the preferred zone is desirable closer to, but not exceeding, 75 degrees (Fig. 4.6).
19. The upper torso restraint belt (A) must fit over the shoulder and across the chest (Fig. 4.4).
20. Restraint belts must be adjusted as tightly as possible consistent with user comfort, and should not constrict breathing (Fig. 4.5).

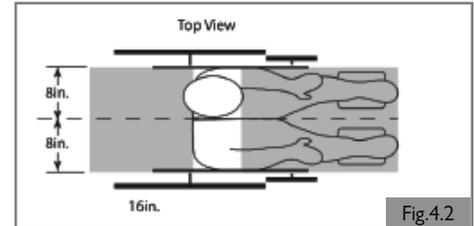


Fig.4.2

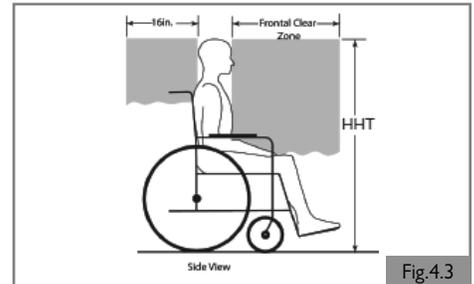


Fig.4.3

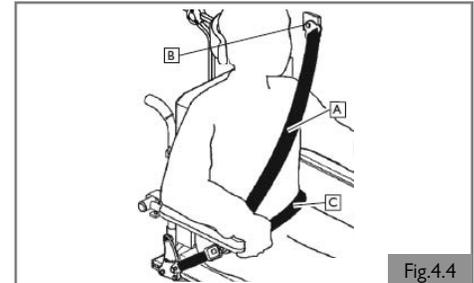


Fig.4.4

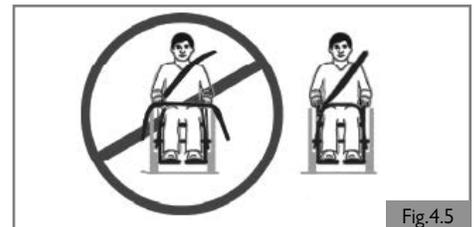


Fig.4.5

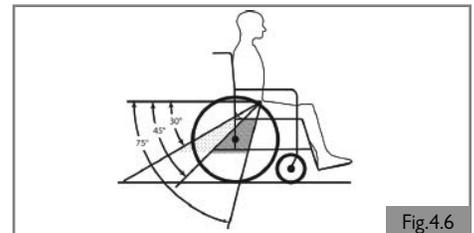


Fig.4.6

## 5.0 SETTING UP THE SEATING SYSTEM

### 5.0 Setting up the seating system

The average wheelchair does not exist. This is why Sunrise Medical wheelchairs can be pre-set according to specific needs of the user.

Pre-settings are carried out once, the first time the wheelchair is going to be used. They must be executed by a qualified specialist, unless explicitly stated otherwise.

#### Tool and calibration marks

A M5 Allen key is supplied with the seating system. This can be used by a Sunrise Medical authorized dealer for adjusting all the seating system settings.

#### **⚠ CAUTION!**

There are calibration marks on various parts of the seating system. The factory settings are indicated.

#### 5.1 Pre-set backrest frame depth (Fig. 5.1 and 5.2)

1. Loosen the seat pan bolts (A and B) by one turn.
2. Adjust the seat back (C) to the desired position.
3. Tighten the seat pan bolts (A and B). See section 9 for specified torque values.

#### **⚠ CAUTION!**

1. When a bigger seat depth is required, ensure that the harnesses are lengthened before the mechanical adjustment takes place.
2. There are 2 sizes seat rail available: 15.75-in - 20.50-in (400-520 mm), and 19-in - 22-in (480-560 mm). Choose the correct seat rail to match the adjusted seat depth.
3. Mount extra seat depth mounting plate for seat depth 19-in - 22-in for more stability of the long seat rail (check with Sunrise Medical Customer Service for COG mounting location). (Fig. 5.3)

#### **⚠ DANGER!**

We strongly recommend that you contact your Sunrise Medical authorized dealer to adjust the seat depth, because adjusting the seat depth will affect the center of gravity.

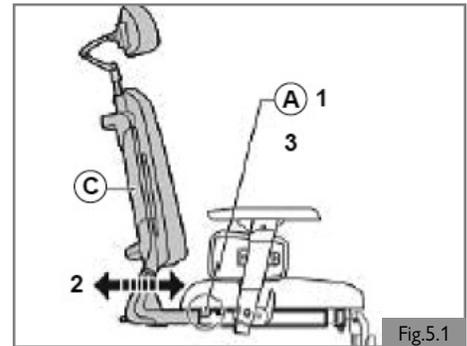


Fig.5.1

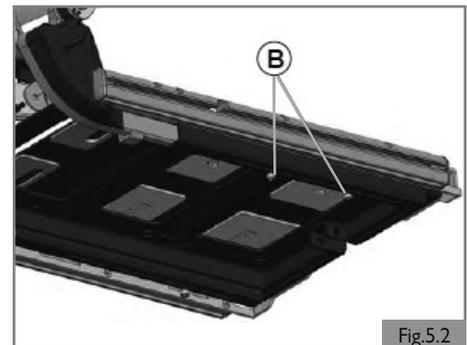


Fig.5.2

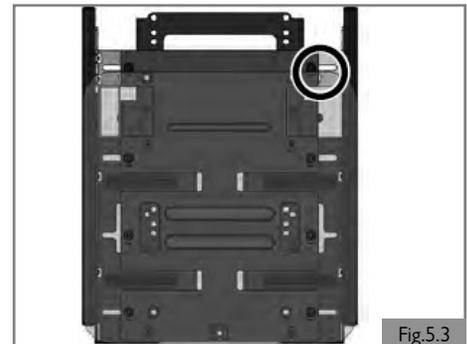


Fig.5.3

### 5.2 Pre-set armrests

#### Flip back armrests / Single post removable armrests width (Fig. 5.4)

Fine adjustments can be done with the armrest only. For larger adjustments also pre-set the seat plate width.

1. Loosen (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

#### **⚠ CAUTION!**

Please check that the new armrest position does not interfere with any seat positioning.

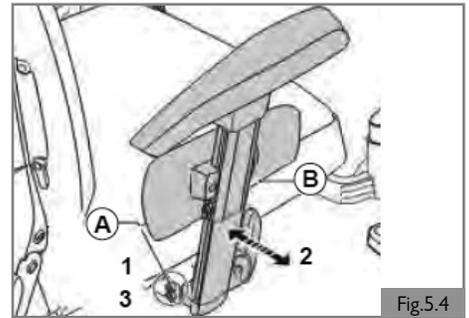


Fig.5.4

#### Reclining flip back armrest width (Fig. 5.5)

1. Loosen (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

#### **⚠ CAUTION!**

Ensure that the new armrest position does not interfere with any seat positioning.

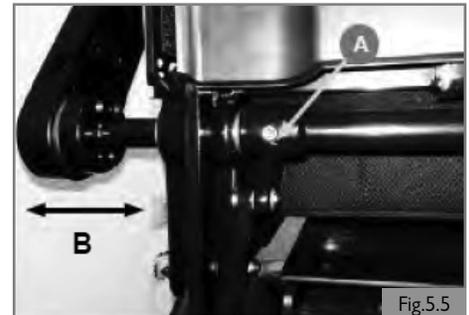


Fig.5.5

#### Seat plate width (Fig. 5.6 - Fig. 5.8)

Lift the seat cushion off the Velcro® strips to access the seat plates.

For standard seat pans:

1. Loosen (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

For HD seat pans:

1. Loosen (A) and (F) by one turn.
2. Adjust (B) to the desired position. (Fig. 5.6)
3. Tighten (A) and (F). See section 9 for specified torque values.

If adjusting seat width to 22-in or less:

4. Remove screws (C), then slide seat rails (D) out of the mounting channel.
5. When the rail is removed, remove the support brackets (E) and set aside.
6. Attach again the rail (D) and add screws (C).
7. Adjust seat width per steps 1-3.

The seat width is indicated by the scale that runs alongside each slot (B).

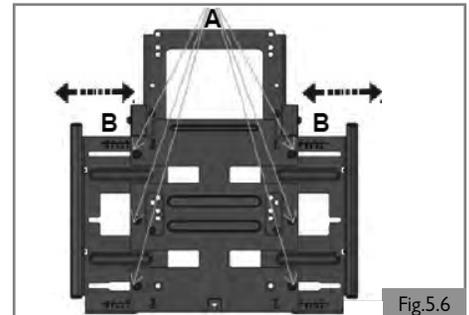


Fig.5.6

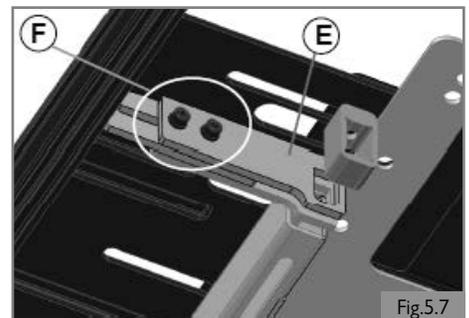


Fig.5.7

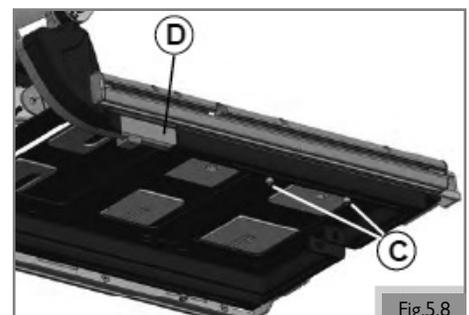


Fig.5.8

## 5.0 SETTING UP THE SEATING SYSTEM

### 5.3 Pre-set backrest

#### Backrest angle (Fig. 5.9)

1. Turn (A) in order to adjust (B).

#### Backrest height with fixed back or reclining back (Fig. 5.10)

1. Loosen (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

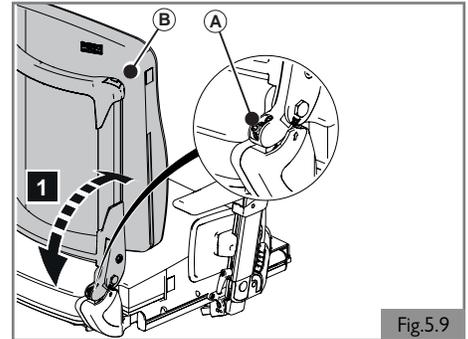


Fig.5.9

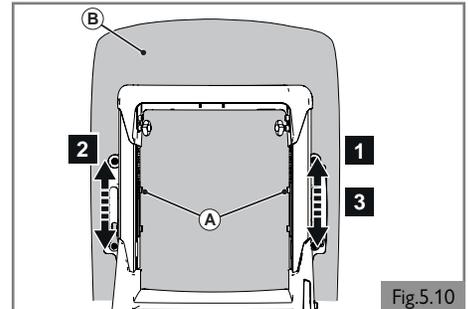


Fig.5.10

### 5.4 Pre-set flip back armrests / single post removable armrests

#### Armrest height (Fig. 5.11)

1. Loosen (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

Ensure that the arms are supported well, without the shoulders being pushed upwards.

#### Armrest depth (Fig. 5.12)

1. Loosen (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

Position the flip back armrest further back in order to obtain more space for sideways transfers. Position the armrest further to the front to obtain more support for forward transfers.

#### Armrest pad depth (Fig. 5.13)

1. Loosen (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

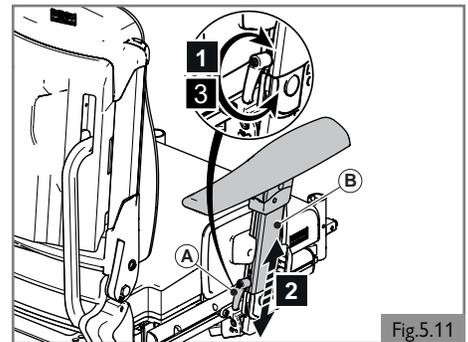


Fig.5.11

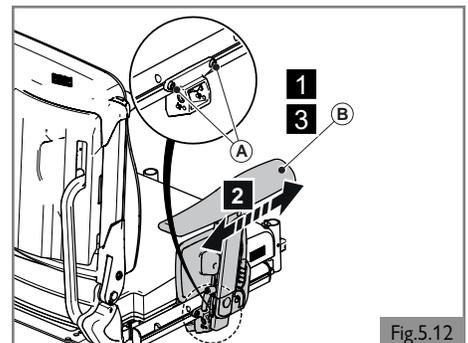


Fig.5.12

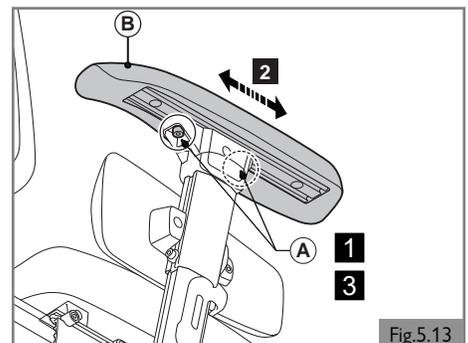


Fig.5.13

**Armrest pad width**

To remove: (Fig. 5.14 and 5.15)

1. Loosen screws (A).
2. Remove armpad (B).
3. Loosen screws (C) by one turn.
4. Remove mounting plate (D).

To position: (Fig. 5.16 and 5.17)

5. Slide slot (E or F) onto clamp nuts (G).

**CAUTION!**

Ensure that the slot (E or F) and clamp nuts (G) are fully engaged.

6. Adjust the depth of (D) and tighten screws (C). See section 9 for specified torque values.

To attach again: (Fig. 5.14)

7. Attach again the armpad (B) with screws (A). See section 9 for specified torque values.

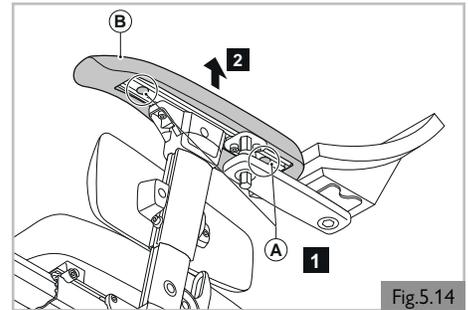


Fig.5.14

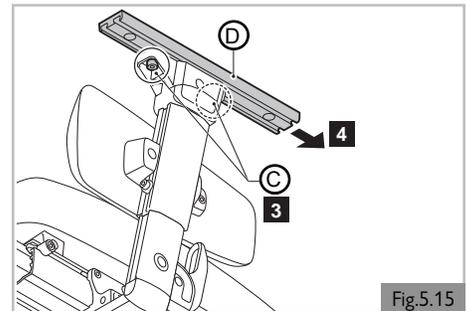


Fig.5.15

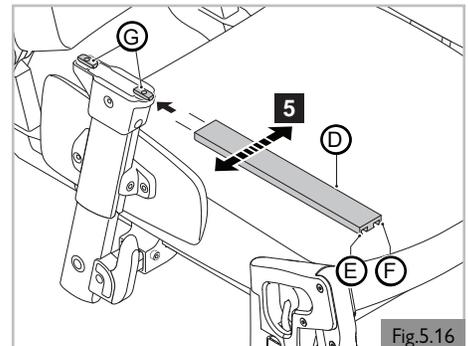


Fig.5.16

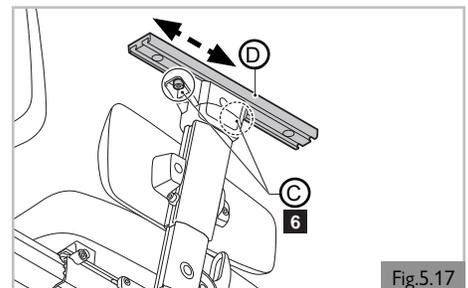


Fig.5.17

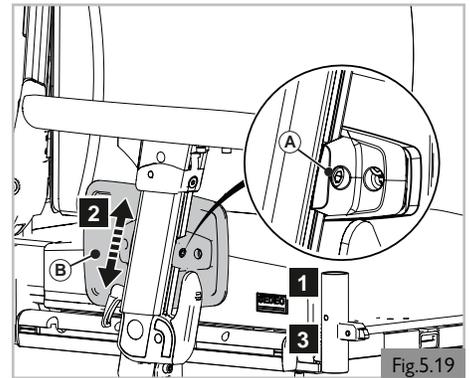
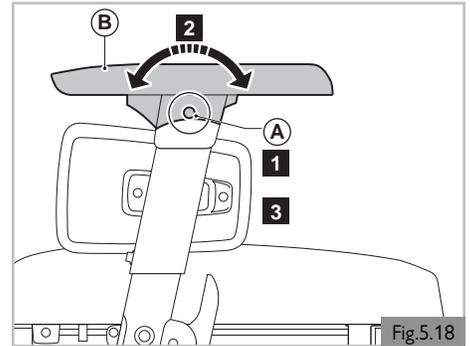
## 5.0 SETTING UP THE SEATING SYSTEM

### Armrest angle (Fig. 5.18)

1. Loosen (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

### Side guard height (Fig. 5.19)

1. Loosen (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.



### 5.5 Pre-set reclining flip back armrests

#### Armrest height

Fine or gross adjustment, it is a two-part process:

##### Part 1 (Fig. 5.20)

1. Loosen (A) in order to adjust (B).

##### Part 2 (Fig. 5.21)

2. Loosen (A) in order to adjust (B).
3. Retighten screws (A-Fig. 5.20 and A-Fig. 5.21). See section 9 for specified torque values.

#### Armrest pad depth (Fig. 5.22)

1. Loosen both screws (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

#### Armrest width adjustment (Fig. 5.23 and 5.24)

1. Using 8mm hex tool, loosen both screws (A) by one turn.
2. Adjust (B) in or out to the desired position.
3. Tighten (A). See section 9 for specified torque values.

#### **⚠ WARNING!**

All screws should be checked periodically for tightness. A loose arm pad could slip down when pressed. See maintenance schedule in section 9.

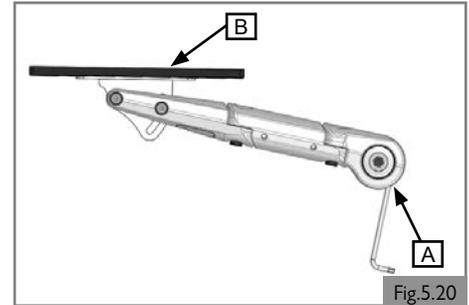


Fig.5.20

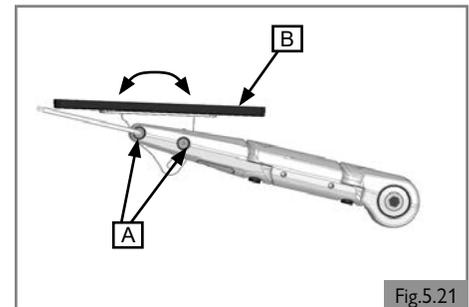


Fig.5.21

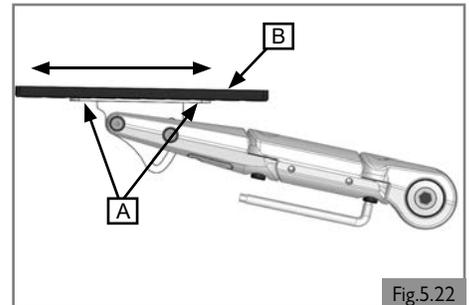


Fig.5.22

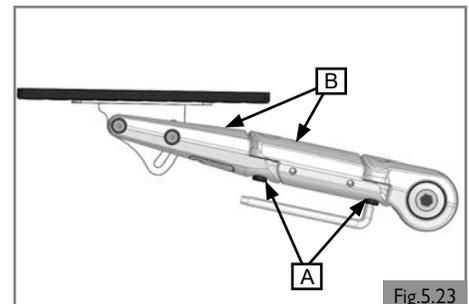


Fig.5.23

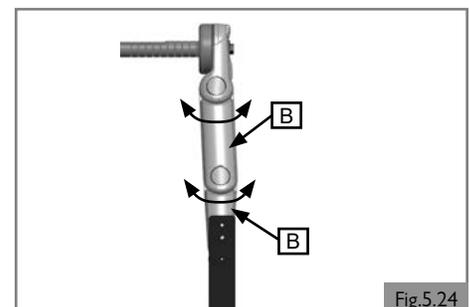


Fig.5.24

## 5.0 SETTING UP THE SEATING SYSTEM

### 5.6 Pre-set fixed center mount leg rest (short and long)

#### Removing the assembly (Fig. 5.25)

1. Remove the 3 screws (A) and lower the footrest assembly from the seat. (Use a 5mm hex key)

#### Lower leg length (Fig. 5.26)

1. Remove the 6 securing screws (B). (Use a 5mm hex key)
2. Move footplate up or down to desired height.
3. Attach again screws (B) through adjustment holes and tighten the hardware. See section 9 for specified torque values.

#### Calf pad height adjustment (Fig. 5.27)

1. Remove the 2 securing screws (C). (Use a 5mm hex key)
2. Move calf pads to desired height.
3. Tighten screws (C) through adjustment holes. See section 9 for specified torque values.

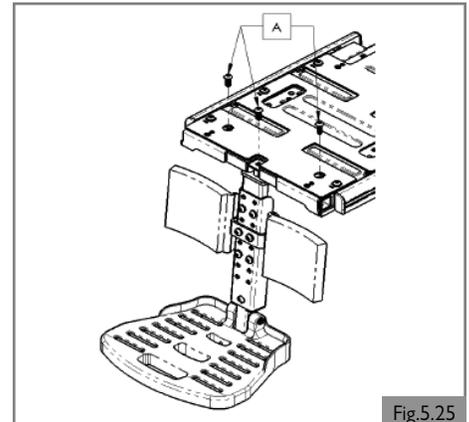


Fig.5.25

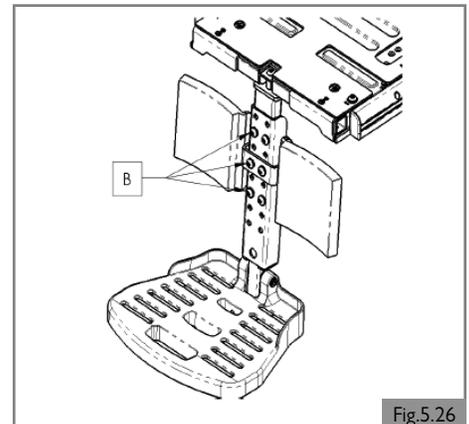


Fig.5.26

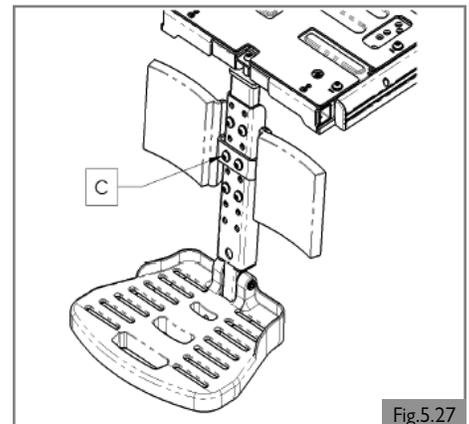


Fig.5.27

### 5.7 Pre-set Sedeo Seating fixed center mount leg rest

#### Removing the assembly (Fig. 5.28)

1. Remove the two screws (A). (Use a 5mm hex key)
2. Fold forward the neoprene cover (C).
3. By hand, remove the two spacers (B).
4. Remove one screw (D) and lower the footrest assembly from the seat.

#### Lower leg length (Fig. 5.29)

1. Loosen the two screws per footplate (D) and adjust to the desired height. (Use a 5mm hex key)
2. When finished adjusting, tighten screws (D). (Use a 5mm hex key) See section 9 for specified torque values.

#### Calf pad height adjustment (Fig. 5.29)

1. Loosen the two screws (A) per calf pad and adjust calf pads (C) to desired height. (Use a 5mm hex key)
2. When finished adjusting, tighten screws (A). (Use a 5mm hex key) See section 9 for specified torque values.

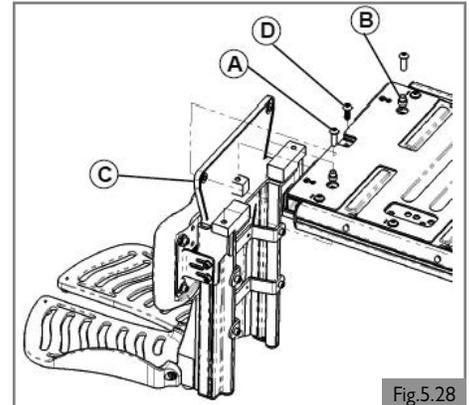


Fig.5.28

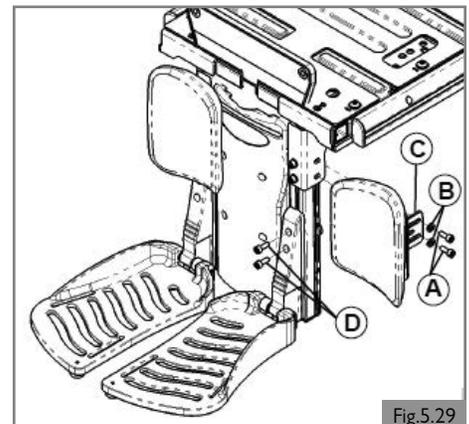


Fig.5.29

### 5.8 Pre-set power center mount leg rest

#### ⚠ DANGER!

1. Be aware of your environment to ensure you do not injure your legs when leg rests are extended.
2. Always ensure that the leg rests or foot plates do not come into contact with the casters before driving the wheelchair.
3. Leg rests are not to be used for lifting or carrying the wheelchair under any circumstances.
4. As with all moving parts, be careful not to trap your fingers. (Fig. 5.30)

#### Removing the assembly (Fig. 5.31)

1. Remove the three screws (A) and lower the footrest assembly from the seat. (Use a 5mm hex key)
- Note: Neoprene cover not shown for clarity.

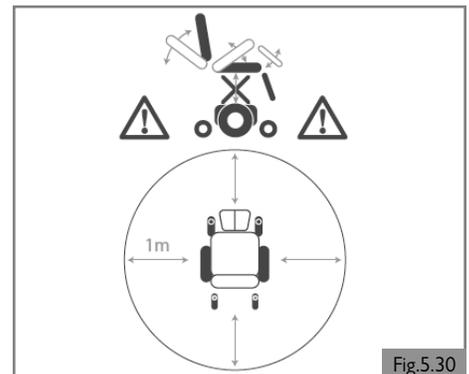


Fig.5.30

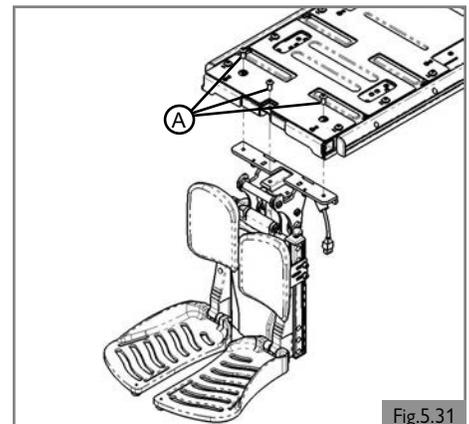


Fig.5.31

## 5.0 SETTING UP THE SEATING SYSTEM

### Lower leg length (Fig. 5.32)

1. Loosen the two screws per footplate (D) and adjust to the desired height. (Use a 5mm hex key)
2. When finished adjusting, tighten screws (D). (Use a 5mm hex key) See section 9 for specified torque values.

### Calf pad height adjustment (Fig. 5.32)

1. Loosen two screws (A) per calf pad and adjust calf pads (C) to desired height. (Use a 5mm hex key)
2. When finished adjusting, tighten screws (A). (Use a 5mm hex key) See section 9 for specified torque values.

### Ankle angle (Fig. 5.33)

1. Flip up the footplate (A).
2. Turn (B) in order to adjust the ankle angle as desired.
3. Fold down the footplate (A).
4. Repeat on the opposite side.

### **⚠ DANGER!**

1. After adjustment and with the seat in its normal drive position, ensure there is a gap of at least 2-in (51mm) between the floor and the footplate at all times.
2. Perform this test with the user sitting in the chair loading the leg rest.
3. Using the chair with the leg rest set too low might result in personal injury or damage to the wheelchair and its surroundings.

### Width adjustment (Fig. 5.34)

1. Remove (A) using a 6mm Allen wrench.
2. Move (B) to the desired side of the footplate mount (C).
3. Attach again (A) through items (B, D, and E).
4. Torque (A) to 13.5-14.9 Nm (120-132 in-lbs). After the bolt is torqued, the footplate should still rotate up and down but with 0.5-5 lbs of resistance.

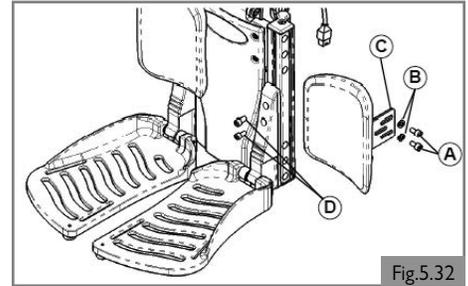


Fig.5.32

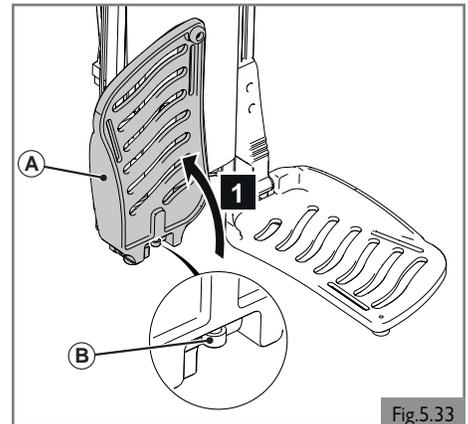


Fig.5.33

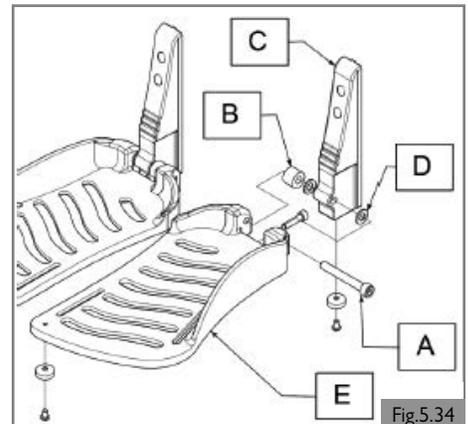


Fig.5.34

### 5.9 Pre-set swing away leg rest

#### Leg rest width (Fig. 5.35)

1. Loosen (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

#### Lower leg length (Fig. 5.36)

1. Loosen (A) a few turns.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

#### CAUTION!

Ensure that there is at least 2-in (51mm) of free space under the footplate for the wheelchair to drive over obstacles.

#### Ankle angle (Fig. 5.37)

1. Loosen (A) a few turns.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

#### Knee angle (Fig. 5.38)

The position of the foot plates can be changed by adjusting the knee angle.

1. Loosen (A) a few turns.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

Note: Change the height or knee angle if the footplate touches the caster wheel.

#### CAUTION!

Check after setup and/or adjustment of wheelchair. After the initial setup by the Sunrise Medical authorized dealer or after making any adjustments to the wheelchair, a check to confirm that no interferences exist must be completed. Interferences can happen (but not limited to) adjustments to the joystick, armrest, specialty control mounts, leg rest, headrest, etc. After an adjustment has been made, the movement of that device may collide or hinder the operation of another component of the wheelchair. A check must be performed prior to operation of the chair to ensure all moving pieces move freely and through the entire range of motion without coming into contact with another part of the wheelchair.

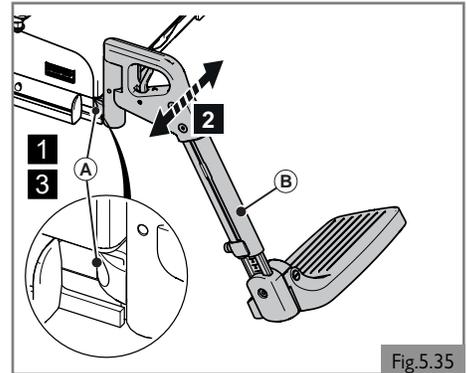


Fig.5.35

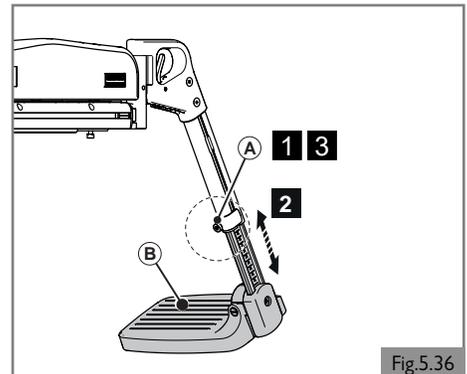


Fig.5.36

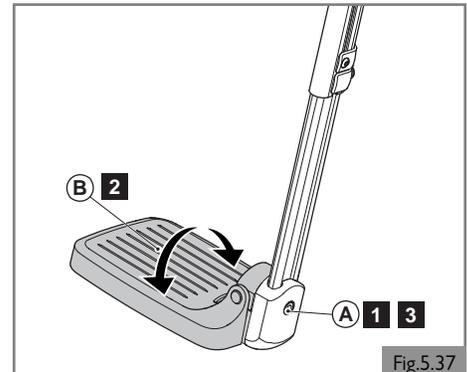


Fig.5.37

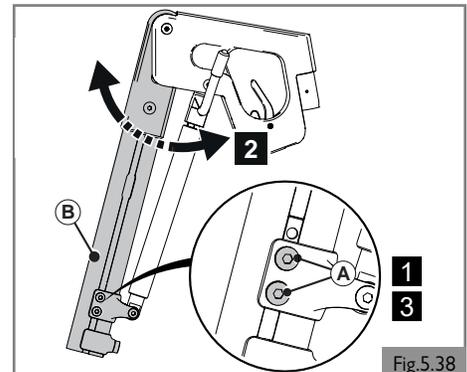


Fig.5.38

## 5.0 SETTING UP THE SEATING SYSTEM

### Calf pad height (Fig. 5.39)

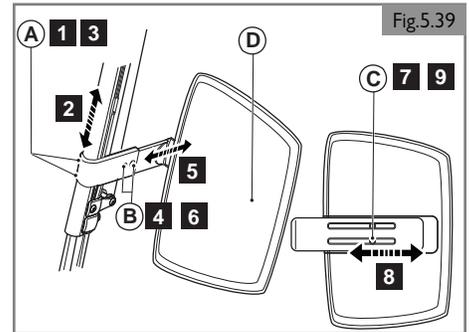
1. Loosen (A) a few turns.
2. Adjust (D) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

### Calf pad depth (Fig. 5.39)

4. Loosen (B) a few turns.
5. Adjust (D) to the desired position.
6. Tighten (B). See section 9 for specified torque values.

### Calf pad width (Fig. 5.39)

7. Loosen (C) on the back of (D) a few turns.
8. Adjust (D) to the desired position.
9. Tighten (C). See section 9 for specified torque values.



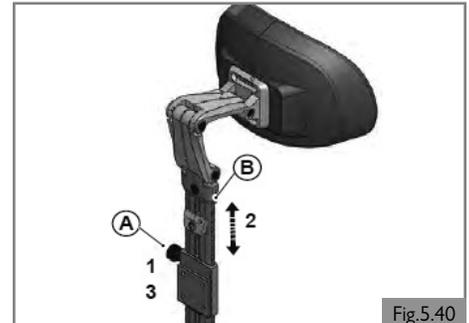
### 5.10 Pre-set headrest



1. If a headrest is part of the options selected for the user/chair, never drive the chair without the headrest attached.
2. Never use the chair without a headrest if a person is transported with the chair in a vehicle.

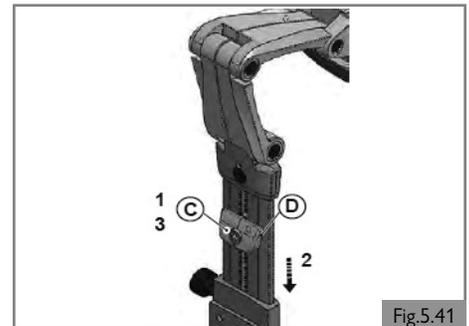
### Headrest height (Fig. 5.40)

1. Loosen (A) a few turns.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.



### Fixed height setting (Fig. 5.41)

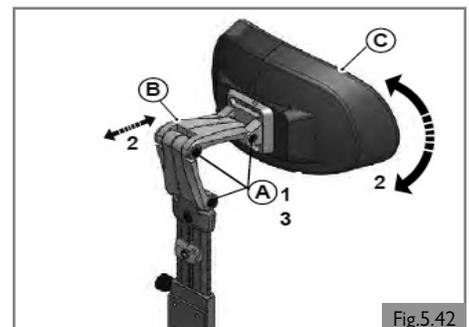
1. Loosen (C) by one turn.
2. Slide (D) as far down as possible.
3. Tighten (C). See section 9 for specified torque values.



### Headrest position (Fig. 5.42)

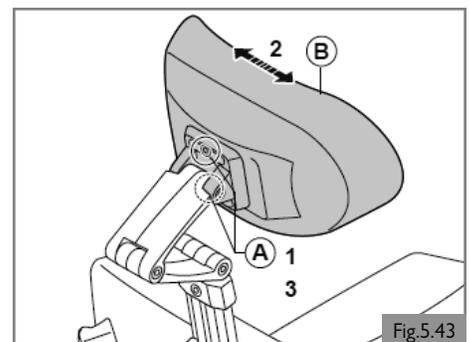
1. Loosen (A) by one turn.
2. Adjust (B and C) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

Note: Correct the headrest height and tilt the headrest cushion as required.



### Headrest cushion width (Fig. 5.43)

1. Loosen (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.



**5.11 Pre-set fixed / swing away controller****Bracket depth of the controller (Fig. 5.44)**

1. Loosen (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

**Height of the controller (1) (Fig. 5.45)**

1. Loosen (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

**Height of the controller (2) (Fig. 5.46)**

1. Loosen (C) by one turn.
2. Adjust (D) to the desired position.
3. Tighten (C). See section 9 for specified torque values.

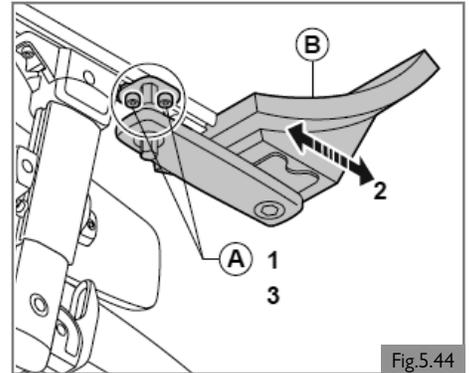


Fig.5.44

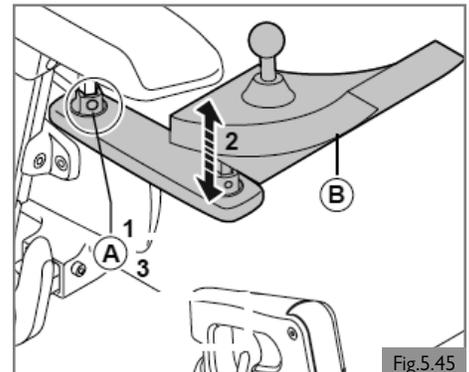


Fig.5.45

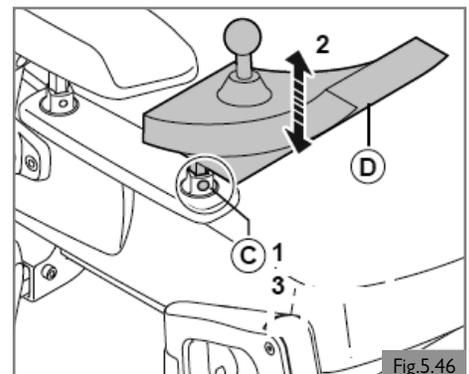


Fig.5.46

## 5.0 SETTING UP THE SEATING SYSTEM

### 5.12 Pre-set laterals

#### Laterals width (Fig. 5.47)

1. Loosen (A) completely.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

#### Laterals height (Fig. 5.48)

1. Loosen (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.

#### Laterals depth (Fig. 5.49)

1. Loosen (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.
4. Loosen (C) by one turn.
5. Adjust (B) to the desired position.
6. Tighten (C). See section 9 for specified torque values.

#### Laterals angle (Fig. 5.50)

1. Loosen (A) by one turn.
2. Adjust (B) to the desired position.
3. Tighten (A). See section 9 for specified torque values.
4. Loosen (C) by one turn.
5. Adjust (B) to the desired position.
6. Tighten (C). See section 9 for specified torque values.

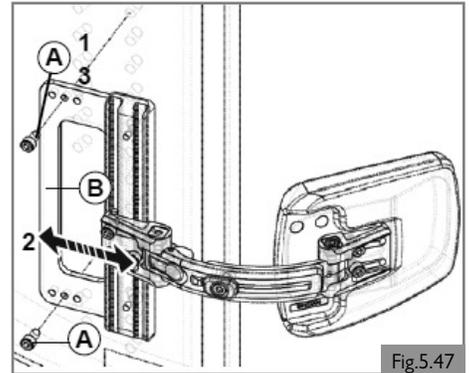


Fig.5.47

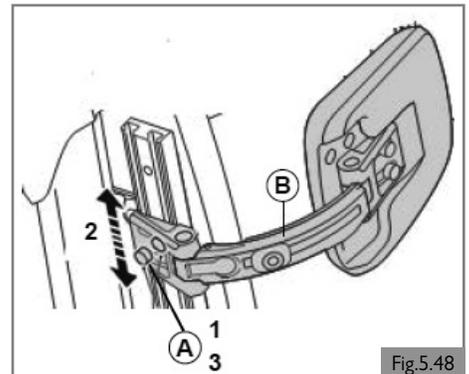


Fig.5.48

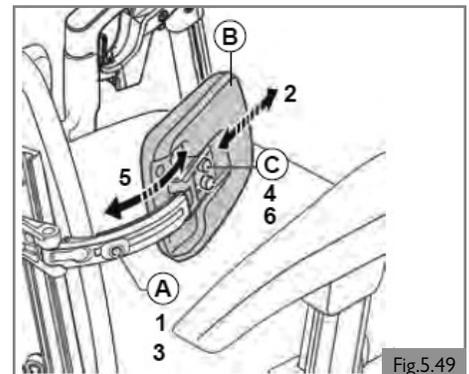


Fig.5.49

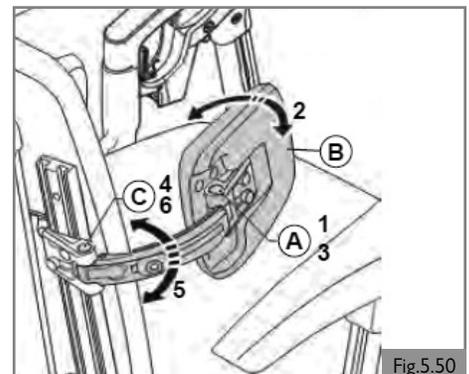


Fig.5.50

**5.13 Lap belt / seating positioning belt (Fig. 5.51)****⚠ DANGER!**

1. This product is only to be used to position a single person in a wheelchair.
2. Lap belts are not suitable for transit purposes. Approved occupant restraint systems must be used.
3. Failure to heed these warnings may result in severe injury or death.
4. Ensure that the carer or attendant is trained in the correct operation of the belts.
5. Untrained carers or attendants may lead to delays, if an emergency situation occurs.

**Mounting a lap belt /seating positioning belt**

1. Attach (A) to the seating frame using provided screws on the left and on the right. (Fig. 5.52)
2. Tighten (B). See section 9 for specified torque values.

**Positioning a person with a lap belt**

1. Adjust the lap belt to suit, leaving no more than a hand's width gap for comfort and safety. (Fig. 5.53)
2. The hand clearance should be with the lap belt under normal tension and not allow large gaps or loops.
3. Generally, the lap belt should be fixed so that the belt sits at an angle of approximately 45° (Fig. 5.54), and when correctly adjusted should not allow user to slip down in the seat.
4. Place the belt loosely across the seat with the opening end of the buckle facing to the right for a left-handed person and to the left for a right handed person. Pass the other ends of the belt through the gap between the backrest posts and the backrest.

**⚠ DANGER!**

1. Always ensure that the lap belt is correctly secured and adjusted prior to use.
2. Too loose a belt could cause the user to slip down and cause serious injury.
3. Check lap belt and securing components at regular intervals for any signs of fray or damage. Replace if necessary.
4. When servicing, check for correct operation of the release buckle and for any signs of wear on the material or plastic brackets.
5. Regular checks/activities:
  - As with all positioning components, there is a need for corrective adjustments as the person changes their seating position over time.
  - Check the belts regularly for correct fitting, to ensure the safety and comfort of the user.

**⚠ CAUTION!**

1. Standard Sling: Lap strap movement is restricted by upholstery.
2. Contoured Back: Use universal bottom bracket as per recline back method.

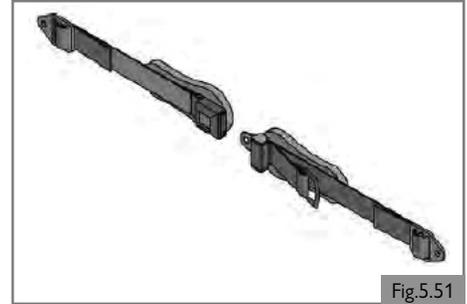


Fig.5.51

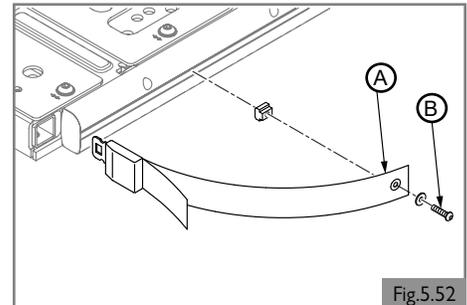


Fig.5.52

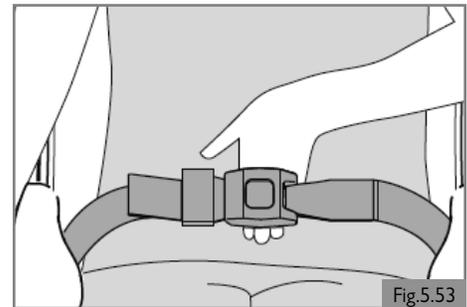


Fig.5.53

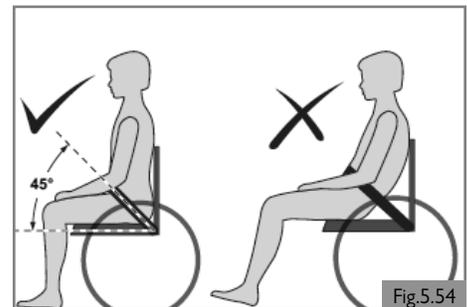


Fig.5.54

## 6.0 USING THE SEATING SYSTEM

### 6.1 Getting in and out of the wheelchair (Transferring)

Sunrise Medical recommends that you consult your health care provider for assistance in developing your personal front or side transfer technique to best suit your needs and avoid any personal injury.

#### **⚠ DANGER!**

To prevent a fall:

1. Ensure controller is switched off during transfers to avoid unintentional movement. If you fail to do so you may touch the joystick and cause your system to move when you do not expect it.
2. Ensure that the free wheel switch has been set to "drive". (  General manual)
3. Rotate the front casters so that they point forward.
4. Work with your health care provider to learn all safe methods for transfers.
5. Ensure motor brakes are engaged. This keeps the system from moving when you transfer.
6. It is dangerous to transfer on your own. It requires good balance and agility. Be aware that there is a point during every transfer when the seating system seat is not below you.
7. Learn how to position your body and how to support yourself during a transfer.
8. Have someone help you until you are sure you can do a safe transfer on your own.
9. Do not stand on the footrest. Putting your full weight on the footrest may lead to wheelchair damage and to hazardous situations, including the wheelchair tipping up.
10. Ensure your feet do not "hang up" or get caught in the space between the footrests.

### 6.2 Preparing for forward transfer

#### **⚠ DANGER!**

Move your wheelchair as close as possible to the seat you intend to transfer to.

#### Swing-away leg rests (Fig. 6.1)

1. Fold up the foot supports (A).
2. Swing the calf plates (B) to the side (if applicable).
3. If possible, push (C) to the rear and swing leg rests (D) to the side.

#### Centermount foot plate (Fig. 6.2)

1. Flip up (A) so they are out of the way.

#### Lower the centermount foot plate (Fig. 6.3)

1. Ensure the area is level and free of obstacles and hazards.
2. Turn the control system ON.
3. Select the powered centermount leg rest.
4. Push the joystick forward until the footplates rest fully on the ground. (Fig. 6.3)
5. Switch the control system OFF before transferring.

#### **⚠ WARNING!**

Be aware that when powered, the area around and underneath the footplate needs to be clear of all personal items and bodily extremities to prevent injury or damage to property.

#### **⚠ CAUTION!**

Once the leg rest is fully lifted or in its lowered position, do not hold the joystick in its operating position as this could damage the actuator.

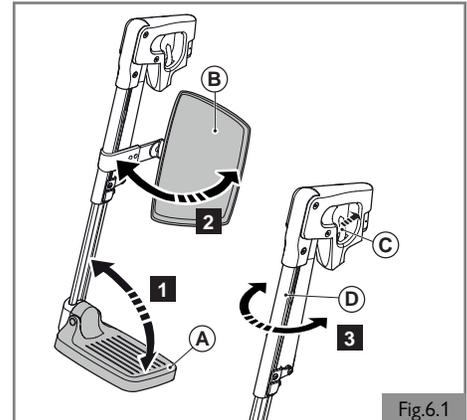


Fig.6.1

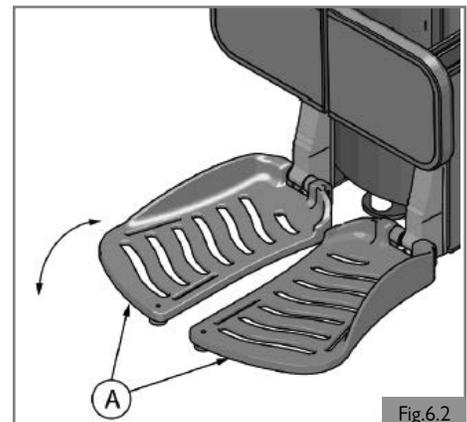


Fig.6.2

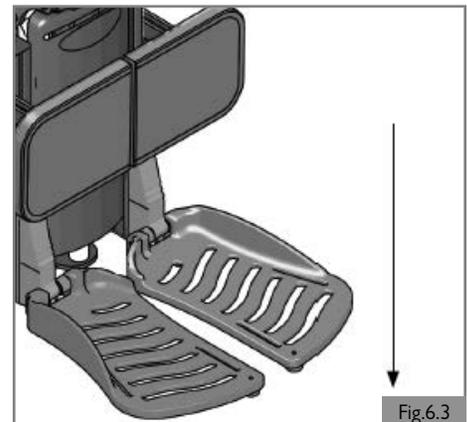


Fig.6.3

**6.3 Preparing for side transfer****⚠ DANGER!**

1. Move your system as close as you can to the seat you are transferring to. If possible, use a transfer board.
2. Transfer as far back onto the seat surface as you can. This will reduce the risk that you will miss the seat or fall.

**⚠ CAUTION!**

1. Some versions of the controller will need to be swung aside.
2. Remove the tray before folding back the armrest.
3. Do not lean on the armrest when folded back.

**Flip back armrest (Fig. 6.4)**

1. Press (A).
2. Fold (B) to the rear.

**Single post removable armrest (Fig. 6.5)**

1. Tip (A) downwards.
2. Remove (B).

**Reclining flip back armrest (Fig. 6.6)**

1. Flip (A) to the rear.

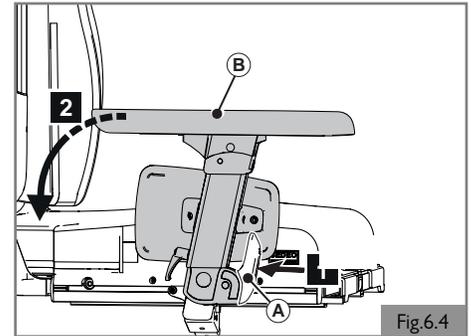


Fig.6.4

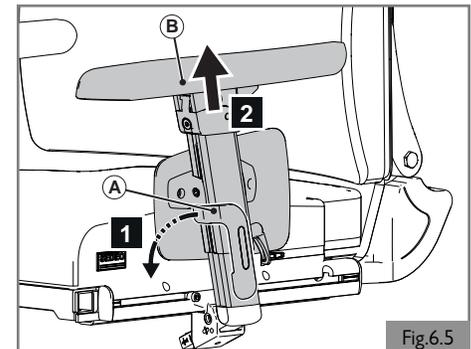


Fig.6.5

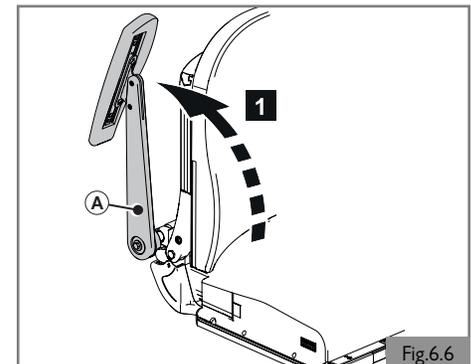


Fig.6.6

**6.4 Manual recline backrest (Fig. 6.7)**

To manually recline backrest:

1. Pull up lever (A).
2. Lean forward or backward to adjust (B) to the desired position.

Note: Keep pulling up on (A).

3. Release (A) when desired position is obtained.

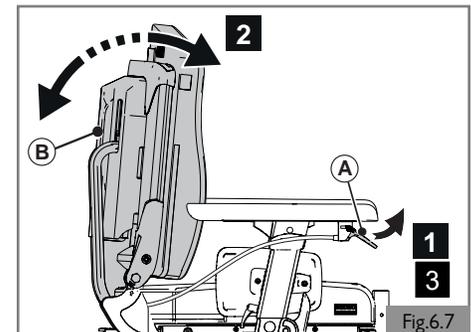


Fig.6.7

**6.5 Manually elevating leg rests knee angle (Fig. 6.8)**

The angle of the comfort leg rests can be adjusted independently of each other.

1. Push handle (A) forward.
2. While sitting in the chair, lift your leg.
3. Release the handle when in the desired position.

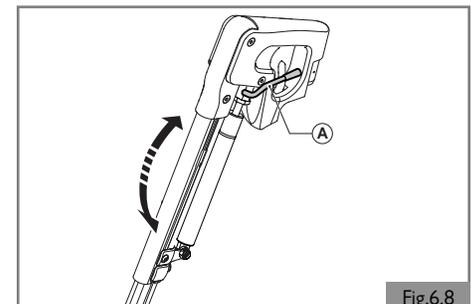


Fig.6.8

## 6.0 USING THE SEATING SYSTEM

### 6.6 Headrest

#### Removing / positioning the headrest (Fig. 6.9)

1. Loosen knob (A).
2. Slide (B) out of or into bracket (C).
3. Tighten (A).

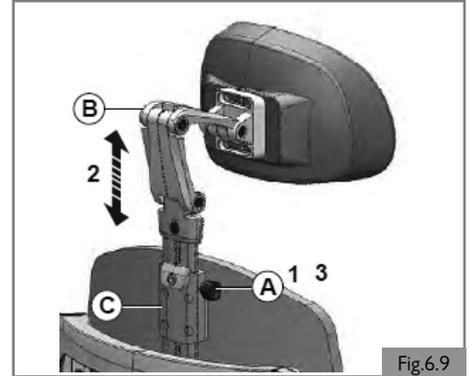


Fig.6.9

### 6.7 Swing-away controller

The joystick is mounted with a mechanism that allows the joystick to be locked in two forward positions. (Fig. 6.10)

#### Swing-away the controller bracket (Fig. 6.11)

1. Push (A) outward or inward.
2. To return to forward position, push the back of the joystick forward until it locks into place (click).

Note: Swinging back the controller bracket will allow you to pull up close to a table. Full operation of the controller remains possible.

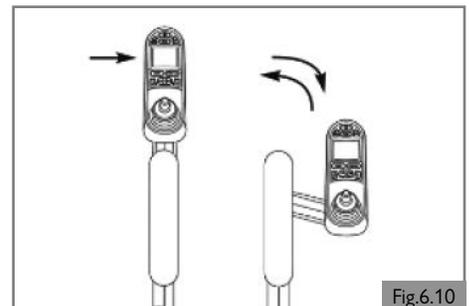


Fig.6.10

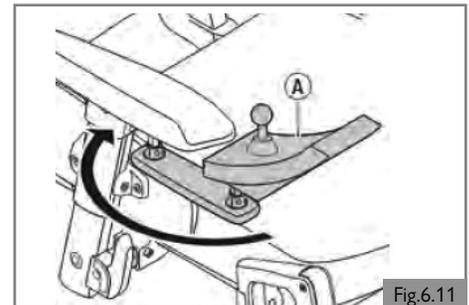


Fig.6.11

### 6.8 Laterals (Fig. 6.12)

1. Press (A) to swing away (B).

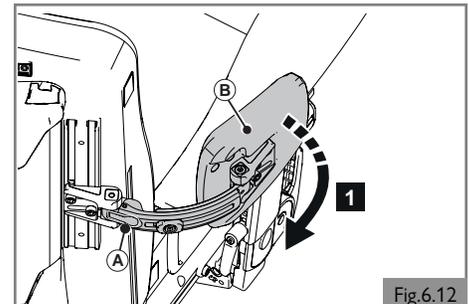


Fig.6.12

### 6.9 Push handle height (Fig. 6.13)

1. Loosen (A) by one turn.
2. Slide (B) into the desired position.
3. Tighten (A). See section 9 for specified torque values.



Do not use the push handles to tip the whole chair to the rear (in order to go up a sidewalk, for example). The push handle is not suitable for such use.

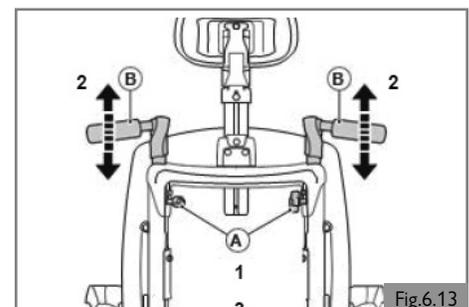


Fig.6.13

### 6.10 Electric seating function

The seating system has an electric seating function. This function is the seat position to which all the memory seat positions (described in Section 7) come back to by pulling the joystick into the backward direction when in the seating memory mode.

#### **⚠ DANGER!**

When the supine function is used, the center of gravity is moved away from the original safe position into a raised or retracted position. This can increase the likelihood of tipping over. So only use this seat function on a level floor and drive in the lowest speed. Not doing so could lead to personal injury.

### 6.11 Seat memory position

The control system on the seating system has up to 6 predefined seat memory positions. Each ordered memory location has a set of factory seat positioning presets:

1. Seated
2. Supine
3. Pressure Relief
4. Feet Above Heart
5. Transfer
6. C-ME®

The seat actuators are all working with a feedback system to track their positions and movements.

This is important:

1. To reach the required memory position.
2. To prevent mechanical clashes of the seat.
3. To operate the actuators especially towards the memory positions in an ergonomic, smooth, and safe way.

All ordered memory positions, if not suitable for the user, can be changed and customized to the needs required. The software takes into account the range of the available mechanical movements and also all safety aspects.

### 6.12 Retrieving a memory seat position (Fig. 6.14 to 6.16)

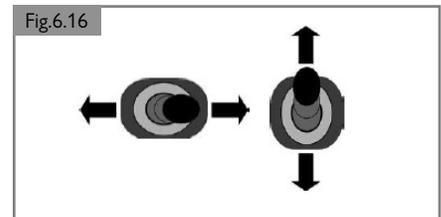
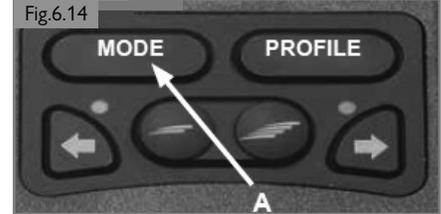
1. Press the "Mode" button (A) one or more times until a seat icon appears in the LCD control panel display.
2. Move the joystick to the left or right to select a memory seat position (Seating, Supine, Pressure Relief, Feet Above Heart, Transfer, or C-ME®). A seat icon and the memory description for the relevant position are shown in the LCD control panel display.
3. Move and hold the joystick forwards. The seat adjusts to the factory preset position. The movement can be stopped at any time and started again when moving the Joystick forward.
4. In any of the 6 memory seat positions moving the Joystick backwards brings the seat into the "Seating" memory position. Once the seat has adjusted to the saved position, it stops moving.

#### **NOTE:**

1. Movement of the seat can be stopped at any time by releasing the joystick.
2. During a stop period, another memory position can be selected with a right or left movement of the Joystick. After selecting a new Memory position, moving the joystick forward will operate the seat into the new selected position.

### 6.13 Return to drive mode

Press the "Mode" button one or more times until a standard display image with speed indicator appears in the LCD control panel display.



## 6.0 USING THE SEATING SYSTEM

### 6.14 Saving a new position to memory

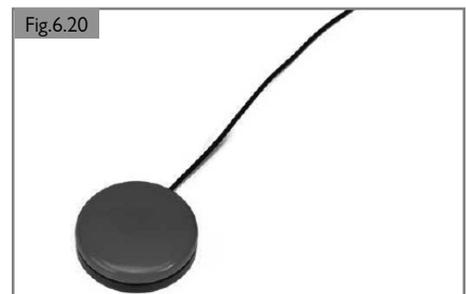
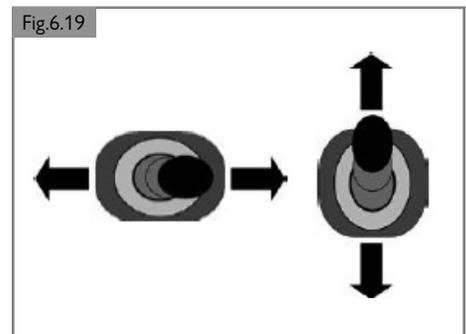
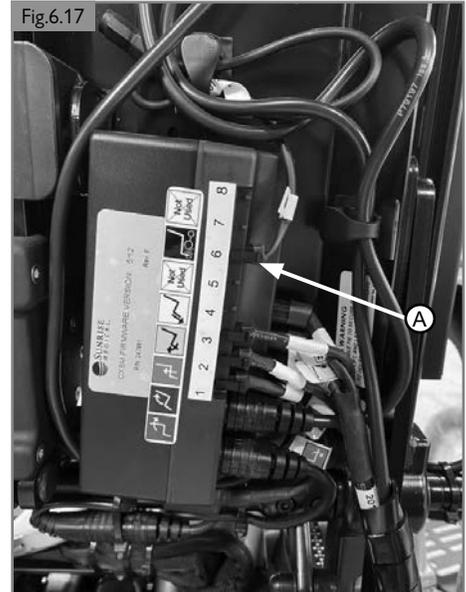
1. Remove the rear cover of the backrest and connect a switch with a 3.5mm Jack to the I6 harness socket (A) on the CxSM (Complex Seating Module) (Fig. 6.17).
2. Press the "Mode" button one or more times until a seat icon appears in the LCD control panel display (Fig. 6.18).
3. Move the joystick to the left or right to select a memory seat position (Seating, Supine, Pressure Relief, Feet Above Heart, Transfer, or C-ME®) (Fig. 6.19). A seat icon and the memory description for the relevant position are shown in the LCD control panel display (Fig. 6.18).
4. Move and hold the joystick forwards (Fig. 6.19). The seat adjusts to the factory preset position. The movement can be stopped at any time and started again when moving the joystick forward.
5. Stop the seat movement where required and select with a left or right joystick movement the seat actuator that needs to be changed.
6. Move the joystick forward or backwards until the required position is reached. Select other actuators if required and move them where needed.
7. Move the joystick left or right until the factory memory position is reached and where the new position shall be programmed in.
8. Press and hold the switch connected to the CxSM (Fig. 6.20) and pull the joystick backwards for 3 seconds until a beep can be heard.
9. Release the joystick and the button. Your new required position is now stored and the actuators will always stop in this new programmed end position.

### 6.15 Delete custom programmed memory (Fig. 6.17 - 6.20)

1. Remove the rear cover of the backrest and connect a switch with a 3.5mm Jack to the I6 harness socket (A) on the CxSM (Fig. 6.17).
2. Press the "Mode" button one or more times until a seat icon appears in the LCD control panel display (Fig. 6.18).
3. Move the joystick to the left or right to select a memory seat position (Seated, Pressure Relief, Supine, Feet Above Heart, Transfer, or C-ME®) (Fig. 6.19). A seat icon and the memory description for the relevant position are shown in the LCD control panel display (Fig. 6.18).
4. Press and hold the switch connected to the CxSM (Fig. 6.20) and pull the joystick backwards for 6 seconds. After 3 seconds you will hear the programming beep and after 6 seconds you will hear a change in the beep sound.
5. As soon as you hear this new sound release the joystick and the button. All memory positions are now set to the factory settings.

### 6.16 Return to drive mode

Press the "Mode" button one or more times until a standard display image with speed indicator appears in the LCD control panel display.



### 7.1 Powered seating options

The wheelchair can be equipped with the following powered options to adjust your seating position. These options can be operated by the user without the use of tools.

#### Powered adjustable seating options (Fig. 7.1 - Fig. 7.3)

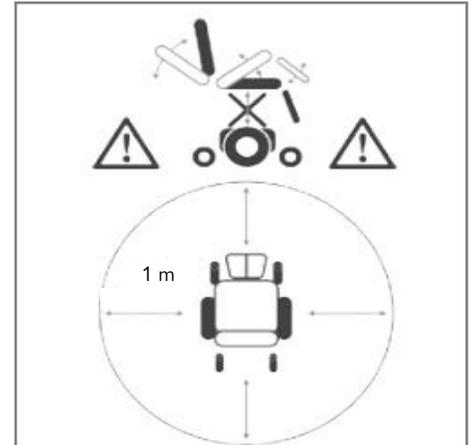
How to operate these powered seating options can be found in:

##### CONTROLLER

1. Powered tilt function
2. Powered seat lift
3. Powered backrest recline
4. Powered elevating leg rests

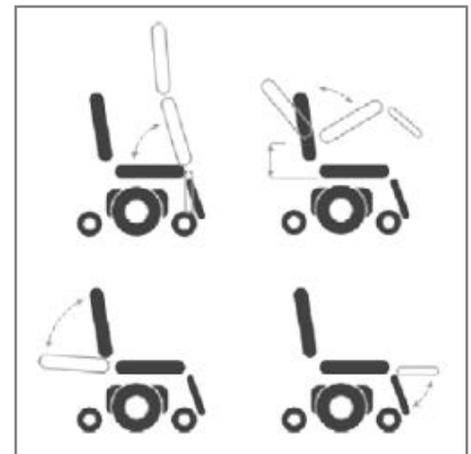
#### DANGER!

1. Use of powered adjustable seating options may influence the stability of the wheelchair.
2. Only use the powered adjustable seating options when the wheelchair is on a flat surface! **Do Not** attempt to operate any power seating option while positioned on an incline.
3. Please stay clear of any powered actuator while the component is in motion. Sunrise Medical power mechanisms move over large ranges of travel. Users should be aware of their surroundings while components are in motion.
4. While driving this seating system in the reclined, elevated, or tilted position use caution.
5. Do not attempt to operate any power seating option while this seating system is in motion.
6. Do not attempt to operate the tilt power seating option around children.
7. Through programming it is possible to reverse the direction of all powered seating functions; ensure you know which direction your seat is going to move before operating. Please discuss with your Sunrise Medical authorized dealer which direction the power seating functions have been programmed.
8. Please be aware that the lift/tilt modules present a trap hazard (pinch point). Ensure that during operation the lift/tilt modules are free from all clothing, hands, feet, and other extremities to prevent injury.
9. Do not drive on ramps or slopes with the seating in the elevated position. Before attempting to climb or descend a slope, return the wheelchair to a standard seated drive position, with the backrest upright.
10. The following order of operations should be used when moving powered seating functions:
  - a. To a tilted and/or reclined position: Tilt, Recline, Legs.
  - b. From a tilted and/or reclined position: Tilt, Legs, Recline.
 Note: If equipped with a powered seat elevator, always operate the powered seating functions with the seat elevator in its lowest position.
11. This power system is designed to automatically reduce the maximum driving speed to a creep and/or C-Me mode when certain power seating limits are reached. Depending on the configuration of the chair there might be multiple creep and/or C-Me speeds. Talk to your Sunrise Medical authorized dealer about creep and/or C-Me speeds for your chair.



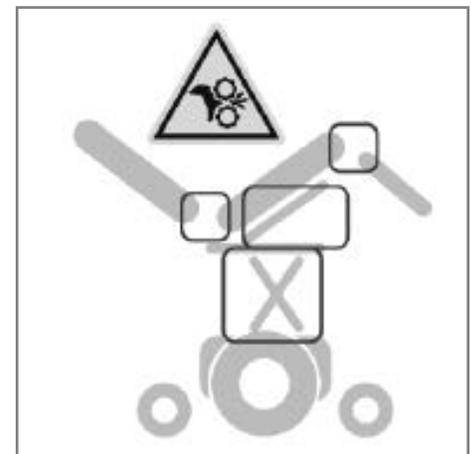
Powered adjustable seating option

Fig. 7.1



Powered adjustable seating option

Fig. 7.2



Powered adjustable seating option

Fig. 7.3

## 8.0 REDUCING THE SEATING SYSTEM SIZE FOR TRANSPORTATION PURPOSES

### **⚠ WARNING!**

The wheelchair can be reduced in size for transportation without a passenger. Any components of the seating system that can be detached easily should be removed. Store away such components safely so that they cannot cause injury or damage, or become damaged themselves.

#### **8.1 Flip down backrest quick release (Fig. 8.1)**

Folding the backrest fully forward:

1. Loosen (A).

### **⚠ CAUTION!**

Do not remove (A).

2. Fold (B) fully forward.

Note: If necessary, first remove the back cushion and/or the armrest assemblies.

#### **Folding the backrest fully forward with recline (Fig. 8.2)**

1. Remove bolt and pin (A) to fold seat back forward. Do not discard the bolt and pin.

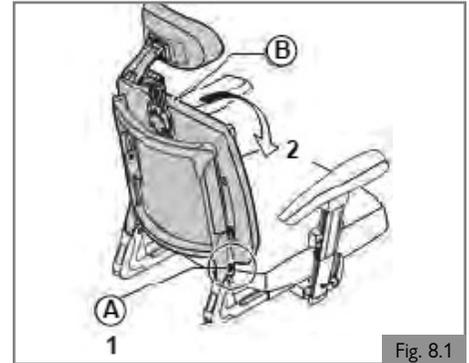


Fig. 8.1

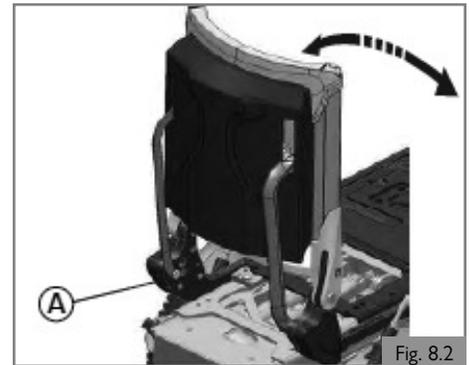


Fig. 8.2

#### **8.2 Swing away leg rests (Fig. 8.3)**

##### **Removing a swing-away leg rest**

2. Push the catch (A) to the rear in order to unlock the leg rest.
3. Swing the leg rest outwards.
4. Remove the leg rest (B) from its bracket by lifting.

Note: You should hear an audible click when replacing the leg rest. This indicates that the leg rest has locked into place.

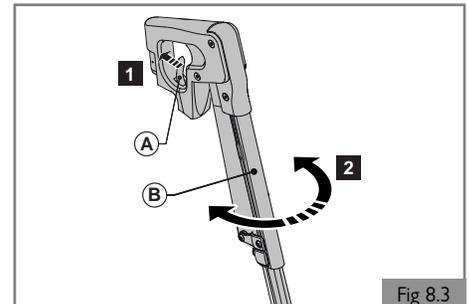


Fig. 8.3

#### **8.3 Single post removable armrest**

##### **Removing the armrest assembly (Fig. 8.4)**

1. Tip (A) downward.
2. Remove (B).

##### **Positioning the armrest assembly (Fig. 8.5)**

1. Slide (A) onto (B).
2. Push (C) upward.

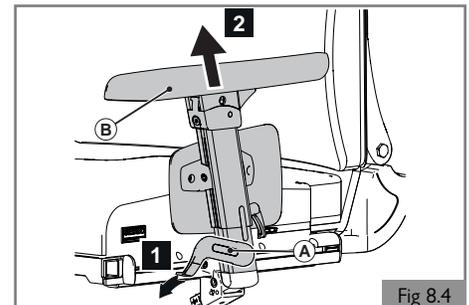


Fig. 8.4

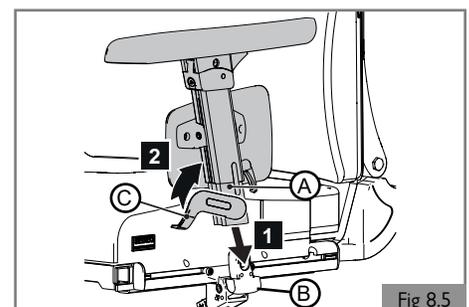


Fig. 8.5

The wheelchair's lifespan is dependent on it being well maintained.

For information concerning specific settings, maintenance, or repair work, please contact your Sunrise Medical authorized dealer. Always ensure you mention the model and year of manufacture and identification number provided on the serial number label of the wheelchair when contacting your Sunrise Medical authorized dealer.

### CAUTION!

The wheelchair should be serviced by your Sunrise Medical authorized dealer once a year or, in the case of intensive use, every six months. For a list of approved authorized dealers in your area please contact Sunrise Medical Service Center.

The contact details of your local Sunrise Medical Service Center can be found on the inside front cover of this booklet.

Website addresses are on the back cover.

## 9.1 General maintenance

1. All fasteners should be checked quarterly for wear, such as loose bolts or broken components.
2. Loose fasteners should be re-tightened. See section 9 for specified torque values.
3. Check all straps monthly for fraying, ripped seams, or other indications of excessive wear damage. Discontinue use if damage is found.
4. Chest straps should be replaced at the first indication of damage and/or excessive wear.
5. If a broken or loose component is found, discontinue use immediately and contact your Sunrise Medical authorized dealer for replacement.
6. Check all Velcro® fastening straps for correct adhesion when pressed together.
7. Ensure that any contamination, such as fluff, hair, etc is removed from the Velcro® straps. Such contamination may affect adhesion.

### Daily checks

Perform the daily check routine before driving as described below.

#### Checking seating

1. Ensure that all cushions are in place.
2. Ensure that the backrest is correctly fitted and adjusted.
3. Visually inspect the wheelchair to ensure the leg rests, armrests, etc. are correctly positioned and attached to the wheelchair and all fasteners are sufficiently tightened. See section 9 for specified torque values.
4. Ensure that the seat interface knobs are tight and secure.

#### Checking clothing on potential entrapment

When operating the wheelchair, ensure that your clothing does not hamper the wheelchair (e.g. too long). Before use, always ensure your clothing or accessories do not come into contact with the wheels or other moving and/or rotating parts in which they could become entangled.

### Weekly checks

Perform the weekly check routine before driving as described below.

#### Checking connectors and cables

1. Ensure that all connectors are securely mated.
2. Check the condition of all cables and connectors for damage.

#### Checking controller

1. Check the thin rubber gaiter or boot around the base of the joystick shaft for damage or splitting. Check visually only; do not handle the gaiter.
2. Ensure that all components of the control system are securely mounted.

#### Checking controls

1. Switch on the hand control – Do the lights flash? This signifies that there is a fault in the electronic system.
2. Operate all of the electric options, including lights and indicators (if fitted) to ensure that they work correctly.
3. Drive the wheelchair in each of the drive profiles to ensure the wheelchair performs as it did before.

### General weekly checks

1. Check tires for proper inflation level (if applicable).
2. Check frame and base for foreign objects and/or obstructions.
3. Ensure the knobs that attach the seat frame to the front of the base are not loose.

### Quarterly checks

Perform the quarterly check routine before driving as described below.

1. Check all straps for fraying, ripped seams, or other indications of excessive wear damage. Discontinue use if damage is found, and contact a Sunrise Medical authorized dealer.
2. Check chair for any missing or loose nuts, bolts, and/or fasteners. Contact a Sunrise Medical authorized dealer if found.
3. Check wheelchair for any broken components, unusual wear, or other indicators of excessive wear. Discontinue use if damage is found, and contact a Sunrise Medical authorized dealer.

### WARNING!

1. If you are in any doubt about the performance requirements of your wheelchair contact your Sunrise Medical authorized dealer.
2. After performing any maintenance or repairs on the wheelchair you must ensure that it is functioning correctly before it is used.
3. A complete inspection, safety check, and service should be made by a Sunrise Medical authorized dealer at least once per year.
4. All fasteners must be replaced like for like using the correct length, tensile strength, and materials.
5. When replacing self-locking nuts, or nuts/studs secured with a thread locking solution, ensure that a suitable thread locking solution is reapplied to the new fastener.
6. Check all Velcro® fastening straps for correct adhesion when pressed together.
7. Ensure that any contamination, such as fluff, hair, etc is removed from the Velcro® straps. Such contamination may affect adhesion.
8. Do not reuse fasteners.

## 9.2 Cleaning your seating system

The wheelchair should be wiped over once per week with a slightly damp, not wet, cloth and any fluff or dust that has accumulated around the actuators should be blown or dusted away.

### CAUTION!

Ensure that you dry all parts of your wheelchair if it becomes wet or damp after cleaning or if it is used in a wet or damp environment.

### DANGER!

It is important that should the wheelchair be used by more than one person it is cleaned thoroughly to ensure there is no cross contamination.

### 9.2.1 Cleaning and inspection of your seating

#### WARNING!

Tears, dents, wearing, or slackening of upholstery particularly near to metal could result in poor posture or lower levels of comfort and pressure relief.

#### Cleaning instructions for seating

Wash all parts of the covers with a gentle-wash detergent at 100°F (38°C). You can spin-dry the covers, but do not dry them in a dryer. Remove all parts of the covers independently of each other and wash them separately. Take out the foam inlays prior to washing and close the Velcro® fasteners!

Where upholstery cannot be removed, clean regularly to prevent build up or soiling. Clean with a damp, soapy cloth. Disinfectants may be used in dilution as specified by their manufacturer. Ensure surfaces are rinsed well with clean water and dried thoroughly.

## 9.0 MAINTENANCE AND CLEANING

### 9.3 Hygiene measures when being re-used

Prior to the wheelchair being reused, it must be carefully prepared. All surfaces which come into contact with the user must be treated with a disinfectant.

To do this, you must use a suitable disinfectant for rapid alcohol-based disinfection of medical products and medical devices.

Please take into account the manufacturer's instructions for the disinfectant you are using.

#### CAUTION!

1. Do not use solvents, bleaches, abrasives, synthetic detergents, wax polishes, or aerosols.
2. Disinfectants may be used in dilution as specified by the manufacturer.
3. Ensure surfaces are rinsed with clean water and dried thoroughly.

### 9.4 General cleaning instructions

#### CAUTION!

1. You should remove stains on your seat as soon as possible.
2. After a long period of use, you should clean the cover of your seat with a standard commercially available dry foam cleaning agent.
3. You should always clean the whole surface and not just individual spots in order to avoid unattractive edges. The longer you wait the more difficult it will be to remove them.
4. Avoid powerful rubbing with aqueous solutions. This will roughen up cover fabric.
5. Dirt stains (eg. beer, blood, cola, red wine, etc.) are best removed with the dry foam cleaning agents or with a mild action detergent.
6. Please follow the respective instructions of use when treating the covers.
7. The covers should be allowed to dry for at least 48 hours after cleaning with foam cleaning agents.
8. For grease stains (eg. ball point pen, lipstick, chewing gum, etc.) use a proprietary stain remover. Carefully rub the soiled location on the surface only with a clean cloth impregnated with the stain remover.
9. Use only a very small quantity of stain remover.
10. Test a small, inconspicuous area first.

### 9.8 Maintenance and inspection schedule

11. The upholstery material must not be saturated, since the stain remover might then change it.
12. Do not use a hose or a pressure washer to clean your chair.

#### WARNING!

1. Always read the label on any commercial or domestic cleaning substances.
2. Always follow the instructions carefully.

### 9.5 Cleaning accessories

1. All parts/accessories such as swing away trays should be cleaned with a damp cloth.
2. All lateral supports, headrest, armrests, side guards, calf pads, lap belts, and knee pads should be cleaned with a damp cloth.

### 9.6 Cleaning controls

Should the controller of your wheelchair become soiled or dirty, it can be wiped with a damp cloth with a dilute disinfectant until clean.

#### DANGER!

1. This is important should the wheelchair be used by more than one person to ensure there is no cross contamination.
2. Ensure that wafer boards, joysticks (all variants), head arrays, and switches (all variants) are cleaned with a mild disinfectant and a cleaning cloth to avoid any cross contamination possibilities. Following removal from chair regularly wash the sip and puff mouth piece and tube to maintain cleanliness and functionality.
3. Ensure control is switched off before cleaning.

### 9.7 Storage

To keep the upholstery and other parts of the wheelchair in good condition, store in a dry environment as close to room temperature as possible.

#### CAUTION!

1. Never store your wheelchair in direct sunlight or in a damp/outdoor environment.
2. Direct sunlight might bleach upholstery/plastic parts and cause metal parts to become hot.

To be performed by:

Maintenance and Inspection Schedule	End User / Caregiver			Sunrise Medical Authorized Dealer
	Daily*	Weekly	Quarterly*	Annually
Daily Check routine as described in Section 9.1	<input checked="" type="checkbox"/>			
Weekly Check routine as described in Section 9.1		<input checked="" type="checkbox"/>		
Clean wheelchair upholstery as described in Section 9.2		<input checked="" type="checkbox"/>		
Quarterly Check routine as described in Section 9.1			<input checked="" type="checkbox"/>	
<b>Complete inspection, safety check, and service should be made by a Sunrise Medical authorized dealer</b>				<input checked="" type="checkbox"/>

\* Daily = Before each use of the wheelchair. Quarterly = Every three (3) months.

If fasteners are found to be loose a Sunrise Medical authorized dealer should tighten the fastener to the torque setting per size detailed below, unless stated otherwise in all appropriate owner's manuals or instruction sheets (if applicable).

- M8 Fasteners = 13.5-14.9 Nm [120-132 in-lbs]
- M5 Fasteners = 3.1-3.6 Nm [27-32 in-lbs]
- M6 Fasteners = 6.8-7.9 Nm [60-70 in-lbs]
- M4 Fasteners = 0.7-0.9 Nm [6-8 in-lbs]

## 10.0 TECHNICAL SPECIFICATIONS: APPLICABLE NORMS / STANDARDS



This product complies with the regulations and guidelines for medical aids and carries a CE symbol.

The product meets the requirements and standards below. These are checked by independent institutions.

Standard	Definition / Description	Maximum User Weight
EU guideline 93/42 EEC	Applicable as mentioned in Appendix 1	N/A
NEN-EN 12182:2014 Class B	“The requirements from EN12182 (2014) as mentioned in NEN-EN 12184: Assistive products for persons with disability - General requirements and test methods”	450 lbs / 204 kg
NEN-EN 12184:2014 Class B	Electrically powered wheelchairs, scooters and their chargers - Requirements and test methods	450 lbs / 204 kg
ISO 7176-8:2014	Requirements and test methods for impact, static and fatigue strengths	N/A
ISO 7176-9:2009	Climate tests for electric wheelchairs	N/A
ISO 7176-14:2008	Requirements and test methods for control systems for electric wheelchairs	N/A
ISO 7176-16:2012	Requirements for resistance to ignition of upholstered parts	N/A
ISO 7176-19:2008	Wheelchairs - Part 19: Wheeled mobility devices for use as seats in motor vehicles: The Q-series meet the crash test requirements as described in ISO 7176-19	450 lbs / 204 kg
ISO 7176-4:2008	Wheelchair Energy Consumption Theoretical Range	450 lbs / 204 kg
ANSI/RESNA WC-1:2009	Requirements and test methods for wheelchairs (including scooters)	N/A

## 11.0 SUNRISE LIMITED WARRANTY

### THIS GUARANTEE DOES NOT AFFECT YOUR LEGAL RIGHTS IN ANY WAY.

Sunrise Medical\* provides a guarantee, as set out in the warranty conditions, for wheelchairs to its customers covering the following.

#### Warranty conditions

1. **FOR ONE (1) YEAR** - We warrant all Sunrise-made parts and components of this wheelchair including: motors, gearboxes, and electronic components, against defects in materials and workmanship for one year from the date of first consumer purchase.
2. **BATTERIES** - The batteries are covered by a one (1) year warranty provided through the original battery manufacturers.
3. **LIMITATIONS**
  1. We do not warrant:
    - a. Tires and tubes, upholstery, pads, and push-handle grips.
    - b. Damage from neglect, accident, misuse, or from improper installation or repair.
    - c. Products modified without Sunrise Medical's express written consent.
    - d. Damage from exceeding the weight limit.
  2. This warranty is VOID if the original chair serial number tag is removed or altered.
  3. This warranty applies in the USA and Canada only. Check with your Sunrise Medical authorized dealer to find out if international warranties apply.
  4. This warranty is not transferable and only applies to the first consumer purchase of this wheelchair through a Sunrise Medical authorized dealer.
4. **WHAT WE WILL DO** - Our sole liability is to repair or replace covered parts. This is the exclusive remedy for consequential damages.
5. **WHAT AUTHORIZED DEALER MUST DO** -
  1. Obtain from Sunrise Medical, while this warranty is in effect, prior approval for return or repair of covered parts. Contact Customer Service for a Returned Material Authorization (RMA) number and information as to where to return the product. Upon contacting Customer Service please provide Model number, Serial number, description of what is required for service/repair, and any additional information as to reason for service being performed to the wheelchair.

#### 6. NOTICE TO CONSUMER -

1. You must pay the cost of labor to repair, remove, or install parts even if they are covered under warranty.
2. If allowed by law, this warranty is in place of any other warranty (written or oral, express or implied, including a warranty of merchantability, or fitness for a particular purpose).
3. This warranty gives you certain legal rights. You may also have other rights that vary from state to state or province to province.
7. This guarantee is subject to the law of the country in which the product was purchased from Sunrise Medical.

\* Denotes the Sunrise Medical facility from which the product was purchased.

### ADDITIONAL WARRANTY INFORMATION FOR AUSTRALIA ONLY

1. For goods provided by Sunrise Medical Pty Ltd in Australia, our goods come with a guarantee by Sunrise Medical that cannot be excluded under the Australian Consumer Law.
2. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage.
3. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
4. The benefits to you given by this warranty are in addition to your other rights and remedies under a law in relation to the goods to which the warranty relates.

Record your serial number here for future reference:

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(Refer to Base owner's manual for serial number label location)

[www.SunriseMedical.com](http://www.SunriseMedical.com)



Customer Service:  
800.333.4000  
In Canada 800.263.3390

Sunrise Medical  
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Fresno, CA 93727 • USA