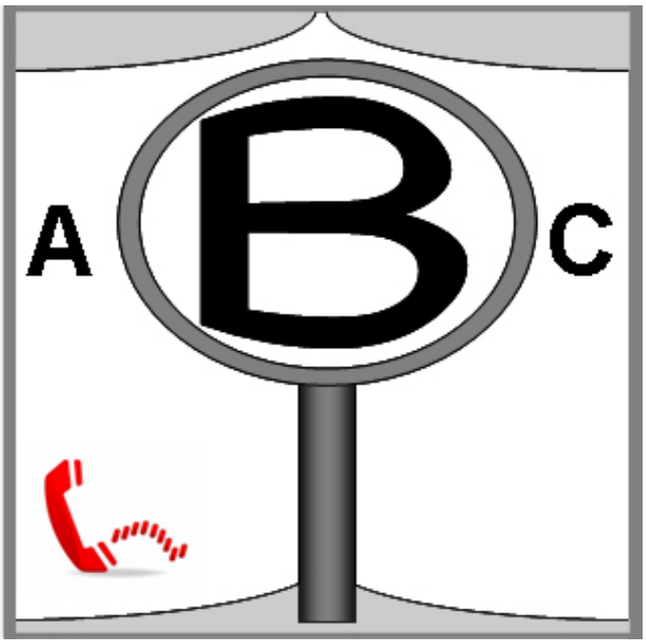
Powered Wheelchair

Instructions for Use

Quickie Jive Up

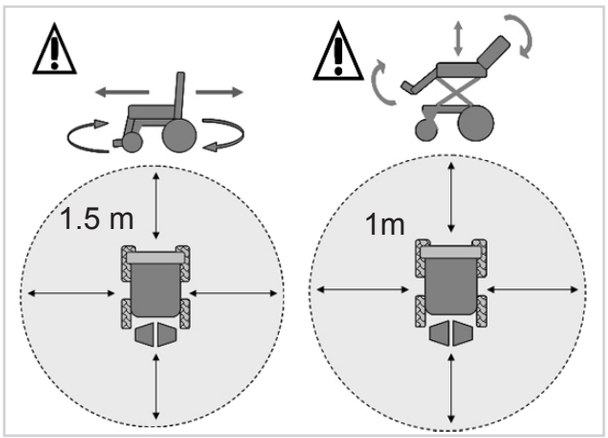
QUICKIE®

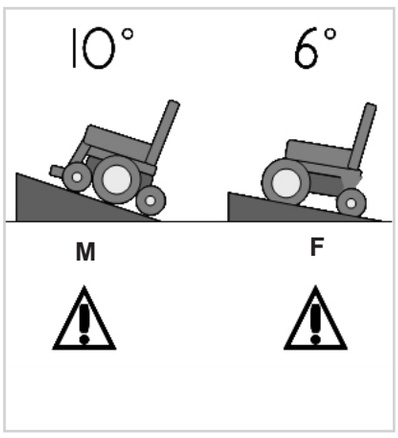
000690706

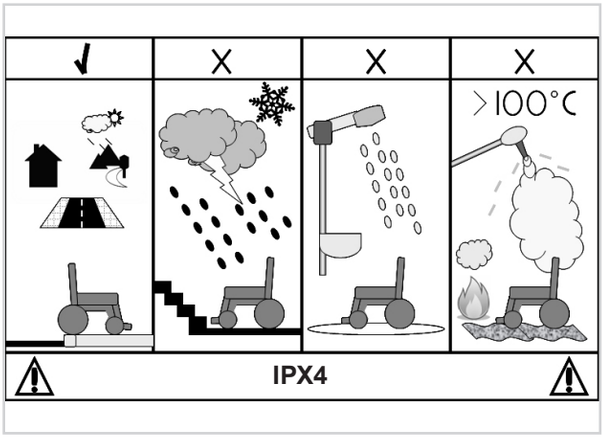


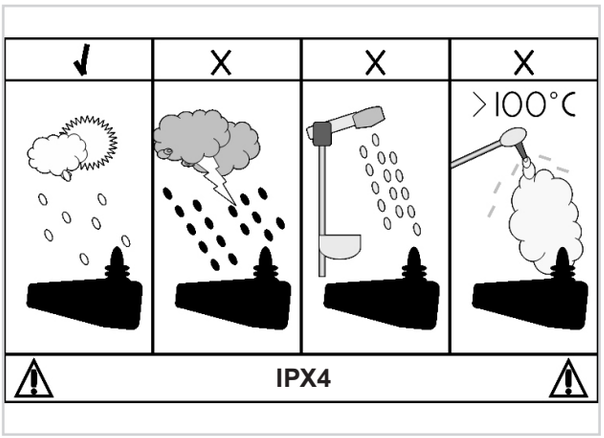
IF YOU ARE VISUALLY IMPAIRED, THIS DOCUMENT CAN BE VIEWED IN PDF FORMAT AT WWW.SUNRISEMEDICAL.COM OR ALTERNATIVELY IS AVAILABLE ON REQUEST IN LARGE TEXT.

FOR FURTHER INFORMATION ON THE FULL SPECIFICATION AND OPTIONS AND ACCESSORIES PLEASE REFER TO THE ORDER FORM.
ALL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTIFICATION. PLEASE CONSULT SUNRISE MEDICAL WITH ANY QUERIES YOU MAY HAVE.









User Information

Intended use power wheel chairs:

Power wheelchairs are exclusively for a user who is unable to walk or has limited mobility, for their own personal use indoors and outdoor.
When an Attendant Control Module is fitted, the Power Wheelchair may be operated by an assistant on behalf of the user.
When a Dual Control Module is fitted the Power Wheelchair may be operated by the user, or control may be switched to an assistant to operate on behalf of the user.

The maximum weight limit (includes both the user and any weight of accessories fitted to the wheelchair) is marked on the serial number label, which is affixed to the chassis of the chair.

The chair serial number is affixed also to the front page of the owners manual supplied with the wheelchair.

Warranty can only be taken on if the product is used under the specified conditions and for the intended purposes.

The intended lifetime of the wheelchair is 5 years. Please DO NOT use or fit any 3rd party components to the wheelchair unless they are officially approved by Sunrise Medical.

Area of Aplication

The variety of fitting variants as well as the modular design mean that it can be used by those who cannot walk or have limited mobility e.g. because of:

- Paralysis
- Loss of extremity (leg amputation)
- Extremity defect deformity
- Joint contractures/joint injuries
- Strokes and brain injuries
- Neurological disabilities (e.g. MS, Parkinson…)
- Illnesses such as heart and circulation deficiencies, disturbance of equilibrium or cachexia as well as for elderly people who still have the strength in the upper body.
- Persons who are mentally and physically able to control an input device to operate the chair and its functions in a safe way.
- The maximum user weight shall not exceed 120 kg.

When considering provision, please also note the body size, weight including the distribution of body weight, the user's physical and psychological constitution, the age of the user, their living conditions and their environment.
If in doubt a health care professional should be involved to ensure the user is not exposed to unacceptable risks.

Sunrise Medical is ISO 9001 certified, which ensures quality at all stages of the development and production of this wheelchair.

Sunrise Medical declares under its sole responsibility that this product is in conformity with the requirements of the directive 93/42/EEC amended by 2007/47/EEC."

Sunrise Medical declares that this product fulfils the performance requirements for a "Crash Test" to ISO 7176-19.

The Serial Number and other important information may be found on a label situated on the right-hand side, main frame of the product.

The JIVE has been designed for use by an individual on a daily basis. It is suitable for both indoor and outdoor use (Class B). It is intended for use on walk ways and/or roads depending on the configuration, but may always be used when crossing between walk ways*.

**The use of the JIVE on walk ways and roads may be subject to the applicable legal requirements of National Road Laws and or Road Traffic Laws*

⚠WARNING!

Do not use your wheelchair until this manual has been read and understood.

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Indications And Contraindications

Indications And Contraindication For The Use Of Stand-Up Wheelchairs.

These indications and contraindications are based on general observations. The conditions for regular standing training varies from person to person and should be individually agreed with a doctor or therapist.
Only a doctor or therapist can decide which method and safe standing training can be achieved with the Quickie wheelchair.

Indications

The Quickie Jive Up wheelchair with Standing function is specifically developed for people who have lost to their ability to stand (e.g. paraplegia, multiple sclerosis, cerebral palsy etc.). Standing is used for therapy and prophylaxis of:

- Osteoporosis: Without regular standing / vertical stress of the bones, bone density can steadily decrease. This leads to the risk of bone fractures and other complications.
- Decubitus prophylaxis: Whilst standing the pressure on the ischial tuberosity is reduced to a minimum.
- Skeletal misalignments / back pain: Whilst seated the spinal column is naturally elongated (kyphosis/hunchback). Standing facilitates a natural spinal position and therefore better upper body stability. This prevents the risk of a scoliosis.
- Muscular atrophy: Without regular leg movement, the risk of muscle shortening increases (muscular atrophy) and consequently contractures may develop. Regular, self-standing training help as movement therapy, thereby avoiding contractures and preventing possible associated pains and expensive operations.
- Tonus regulation of spasticity: Frequent standing helps to reduce spasticity and facilitates seat movement and positioning in the wheelchair or bed. This supports a peaceful sleep.
- Deeper respiration: Straightening the upper body through standing decreases the pressure of the abdominal cavity on the lungs. This improves and deepens respiration, facilitates breathing and can also help reduce the risk of pneumonia.
- Gastrointestinal complications: As with breathing, standing also reduces the pressure on the digestive system. This facilitates digestion (intestinal peristalsis) and helps with the improvement of bowl and bladder functions.

Contraindications

⚠WARNING!

A wheelchair with Standing function can only be used upon prescription by a doctor.
Here are the most common contraindication for the use of a wheelchair with Standing function:

- Reduced bone density: Should the bones already be very weak it is not recommended to stand. This could lead to fractures. In this case consult your doctor for a bone density measurement.
- Poor circulation: For heart or circulatory diseases standing should only occur under medical supervision (cardio training). Please consult a doctor in this case.
- Severe mobility limitations or severe contractures.

Benefits Of A Daily Standing

The use of any stand-up device should be done only under the prescription and supervision of a medical professional.
At the outset, it is recommended that your introduction to regular standing be closely monitored by your Physical or Occupational Therapist.
It has been documented that the regular and cyclical activity of going from the seated to the standing position may offer many benefits to those that are no longer able to stand on their own. The benefits are two fold:
1) there is the ability to once again function in daily activities that necessitate standing (reaching file cabinets and equipment in the workplace, accessing cupboards/stoves/ shelving at home, as well as the ability to interact eye to eye); and,
2) the potential of physical benefits that result from repeated standing (these benefits may include improved; range of motion, bone density, circulation, bowel and bladder function, etc.).

⚠WARNING!

Elevation to standing position:

- Elevation to standing position and operation in standing position must only be done on a flat surface. When the chair is in elevated position, never reach out from the chair, due the higher tipping risk.
- The operation of the Stand Up function (and other pre-defined seating positions) will cause multiple actuators to operate simultaneously.
- If the seating system operates unintentionally or erratically immediately switch off the system with the On/Off button.

⚠CAUTION!

Positioning Belt:
Quickie positioning belts are designed to position the user only and will not protect you in an accident. You may even receive further injury from the belts.

Due to its modular design, simplicity and wide range of adjustments, the Quickie Jive is a perfect choice for easy service, refurbishment and recycle requirements.

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.

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1.0 Your Wheelchair

We at Sunrise Medical want you to get the best out of your JIVE wheelchair. This Owner's Manual will familiarise you with the chair and its features. It contains hints on everyday usage and general care in addition to information on the high quality standards which we adhere to and details about the guarantee.

Your wheelchair should be delivered fully configured for your use; there are a wide range of components and adjustments available on the JIVE. For further information about these you should contact your Sunrise Medical authorised dealer.

Your wheelchair will reach you in excellent condition having been personally inspected before leaving our factory. Following the guidelines for maintenance and cleaning your wheelchair will maintain its first class condition and give you complete satisfaction.
The JIVE has been designed for use by an individual on a daily basis. It is suitable for both indoor and outdoor use (Class B). It is only intended for use as a pavement vehicle, but may also be used when crossing between pavements.

This vehicle has been designed for a single occupant of limited mobility who has the cognitive, physical and visual ability to control the vehicle safely. The Jive Up has a maximum user weight up to 120Kg. The Jive Up has a maximum slope handling of 18% (10°). If you are in any doubt as to the suitability of the power chair, contact your local Sunrise Medical approved supplier for clarification, prior to commencing use.

It is very important to read the relevant section of the owner's manual when making any minor adjustments. Consult the Technical Manual or your local Sunrise Medical authorised dealer for more complex adjustments.

If you have any queries about the use, maintenance or safety of your wheelchair, please contact your local approved Sunrise Medical service agent. If you do not know of an approved dealer in your area or have any other questions please write or telephone:

Sunrise Medical
Thorns Road
Brierley Hill
West Midlands
DY5 2LD
England
Phone: 0845 605 66 88
Fax: 0845 605 66 89
www.SunriseMedical.co.uk

Dealer signature and stamp

2.0 How to use this manual:

2.1 Introduction:
Please keep a note of your local service agent's address and telephone number in the space below.
In the event of a breakdown, contact them and try to give all relevant details so they can help you quickly.
The wheelchairs shown and described in this manual may not be exactly the same in every detail as your own model. However, all instructions are still entirely relevant, irrespective of detail differences.

NOTE: The manufacturer reserves the right to alter without notice any weights, measurements or other technical data shown in this manual. All figures, measurements and capacities shown in this manual are approximate and do not constitute specifications.

2.2 Guarantee:
The guarantee form is included in the Sunrise Pack. Please fill in the relevant details and return to us to register your entitlement.

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. Should a part or parts of the wheelchair require repair or replacement as a result of a manufacturing and/or material fault within 24 months or for frame and cross-braces within 5 years after delivery to the customer, then the affected part or parts will be repaired or replaced free of charge. The warranty will only cover manufacturing defects
2. To enforce the warranty, please contact Sunrise Medical Customer Service with the exact details of the nature of the difficulty. Should you be using the wheelchair outside the area covered by the Sunrise Medical customer service agent, repairs or replacement will be carried out by another agency as designated by the manufacturer The wheelchair must be repaired by a Sunrise Medical designated Customer Service agent, (dealer).
3. For parts, which have been repaired or exchanged within the scope of this warranty, we provide a warranty in accordance with these warranty conditions for the remaining warranty period for the wheelchair in accordance with point 1).
4. For original spare parts which have been fitted at the customer's expense, these will have a 12 months guarantee, (following the fitting), in accordance with these warranty conditions.
5. Claims from this warranty shall not arise, if a repair or replacement of a wheelchair or a part is required for the following reasons:

    a. Normal wear and tear, which include batteries, armrest pads, upholstery, tyres, brakes shoes, etc.
    b. Any overloading of the product, please check the EC label for maximum user weight.
    c. The product or part has not been maintained or serviced in accordance with the manufacturer's recommendations as shown in the user instructions and/or the service instructions.

d. Accessories have been used which are not specified as original accessories.
e. The wheelchair or part having been damaged by neglect, accident or improper use.
f. Changes/modifications have been made to the wheelchair or parts, which deviate from the manufacturer's specifications.
g. Repairs have been carried out, before our Customer Service has been informed of the circumstances.

6. This guarantee is subject to the law of the country in which the product was purchased from Sunrise Medical*

* Means the Sunrise Medical facility from which the product was purchased.

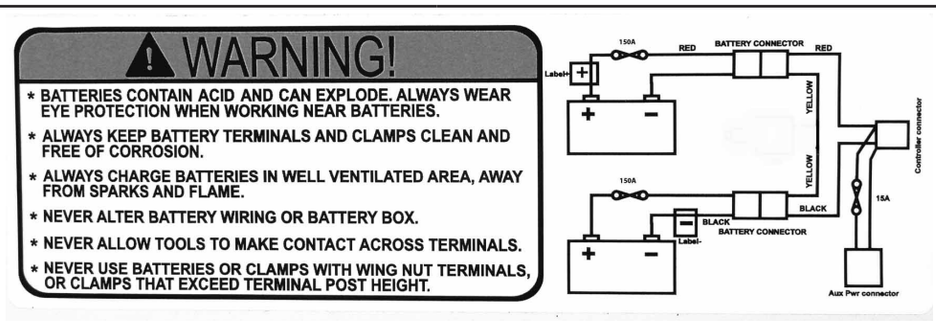
Additional Notes For Australia Only:

i. For goods provided by Sunrise medical Pty Ltd in Australia, our goods come with a guarantee by Sunrise Medical that cannot be excluded under Australian Consumer Law.
ii. You are entitled to a replacement or refund for a major failure and for compensation for any foreseeable loss or damage.
iii. 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.
iv. 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.

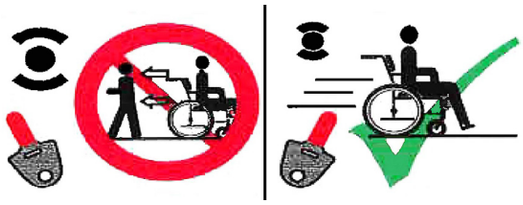
3.0 Label Explantation / Word definitions

3.1 Definitions of words used in this manual

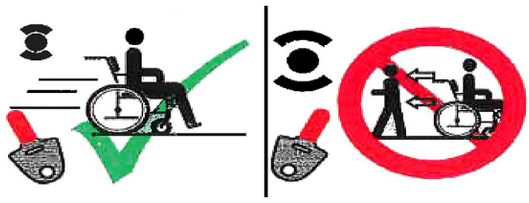
Word	Definition
⚠ **DANGER!**	Advice to the user of Potential Risk of serious injury or death if the advice is not followed
⚠ **WARNING!**	Advice to the user of a potential risk of injury if the advice is not followed
⚠ **CAUTION!**	Advice to user that potential damage to equipment may occur if the advice is not followed
NOTE:	General advice or best practice
	Reference to a related document
	Information



Battery Label – Warning Instructions and Circuit Diagram



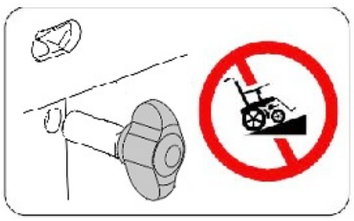
Lever position for the Left-hand freewheel mechanism.
OUT – disengaged IN - engaged

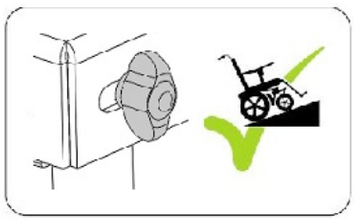


Lever position for the Right-hand freewheel mechanism.
OUT – disengaged IN - engaged

Labels and their descriptions

Warning - Do Not Touch - HOT



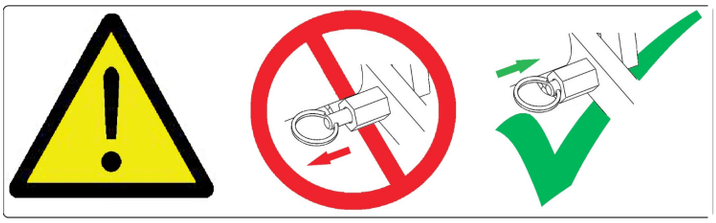


WARNING – Ensure the seat interface quick release is screwed in tight before using your wheelchair, especially on a slope

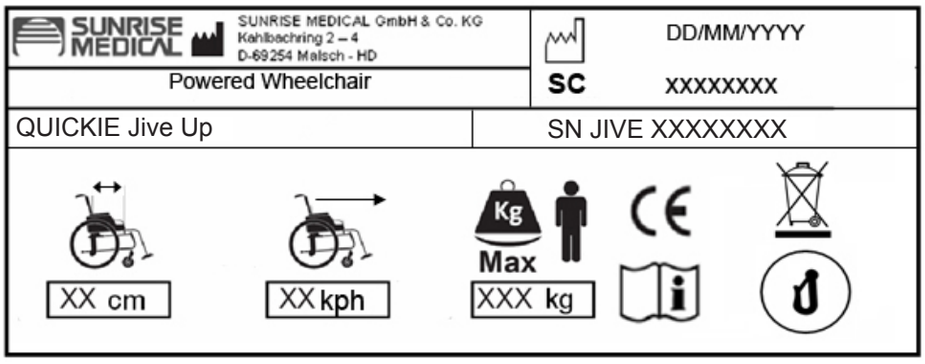
Attached to Joystick
WARNING – Do not drive your wheelchair on a slope with the backrest reclined and/or the seating in standing mode

WARNING – Maximum user weight for the chair
120Kg

WARNING – Danger of finger entrapment



WARNING – When the seat is raised, ensure the spring pin clicks back into the lock position to hold the seat upright.



The serial number and information label is located on the front right hand side of the main frame.

4.0 General safety warning and user tips

4.1 General warnings

⚠WARNING!

- Always ensure that your wheelchair is switched off before attempting to mount or dismount.
- 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.
- Always make sure that you can be seen clearly, especially if you intend using your wheelchair in poor light.
- This wheelchair has been built to match the needs of a particular user. If used by another user then it may need to be adjusted and reprogrammed.
- Do not let children or others use your wheelchair.
- 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.
-

⚠DANGER!

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

4.2 Features and options

NOTE: Some of the options shown in this manual may not be available in your country and may also restrict the overall physical limits of the standard product (e.g. max. speed, user weight limit, etc.). Those limitations are marked on the order form, in the technical manual and in this owner's manual. For further information please consult your Sunrise Medical authorised dealer.

4.3 Kerbs

⚠DANGER!

- Never descend a kerb backwards. Please read carefully the section 4.33 on kerb climbing in this manual before attempting to mount and dismount any kerbs in your wheelchair.
- Do not attempt to climb or descend a series of steps or use on escalotors. It is unsafe to do so and could cause personal injury or damage the chair. The Jive has only been designed to climb a single step or kerb.
- We recommend that users with upper trunk instability wear further customised restraint systems to keep the upright body position during decending or ascending ramps, kerbs or obstacles.

4.4 Routine service

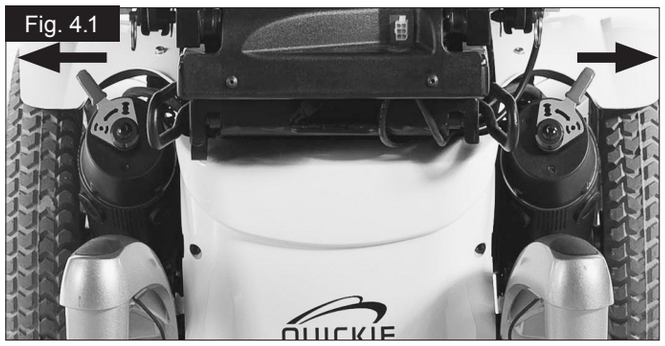
The recommended service interval is one year. (See service history table in section 16).

4.5 Emergency freewheel

⚠DANGER!

- Please remember that you have no braking facility when the freewheel levers are moved from the normal drive position to the freewheel position (Fig. 4.1). Always ensure an attendant is with you when bringing the chair into the freewheel mode.
- The wheelchair must never be left with one or both levers in the freewheel position. For an enhanced description of this facility and its limitations to use please see later section at 5.4.

Fig. 4.1



4.6 EMC - Radio transmitting devices.

⚠WARNING!

- When operating two-way radio, walkie-talkies, C.B., amateur radio, public mobile radio and other powerful transmitting devices the wheelchair should be brought to a halt and turned off.
- The operation of cordless, mobile telephones and cell phones including hands-free devices is permitted but if abnormal operation of the wheelchair is encountered then the chair must be brought immediately to a halt and turned off.
-

NOTE: the electrical systems of the wheelchair may disturb the performance of alarm systems in retail shops. Automatic door entry/exit systems may also be affected.

4.7 Emergency braking
There are three ways to stop your wheelchair:

1. Simplest and safest way to stop the wheelchair is to release the joystick (see Hand Control section 7). This will bring the chair to a halt in a controlled manner.
2. Pulling back the joystick will brake the chair abruptly with a fast stop
3. Switching the control system off whilst the chair is in motion will also bring the chair to a halt.

⚠WARNING!

This third method is only to be used in an emergency situation as the stopping action is very abrupt.

4.8 Sharp turns

⚠DANGER!

Full speed turns should not be attempted. If you need to turn sharply you must reduce your speed with the joystick or speed setting. This is particularly important when travelling across or down a slope. Disregarding this advice could lead to your wheelchair tipping over.

4.9 Batteries
Your wheelchair is supplied as standard from Sunrise Medical with maintenance-free batteries. These only require regular charging. Before charging, please read section 12 in this manual.

⚠WARNING!

Do not, under any circumstances, tamper with the batteries. If in any doubt contact your local Sunrise Medical authorised dealer.

⚠CAUTION!

Before using your vehicle for the very first time, please charge your batteries for a period of 24 hours.

⚠WARNING!

Avoid contact with acid on damaged sealed type batteries or wet batteries. Battery acid can cause burns to the skin as well as damage to floors, furniture and your wheelchair. If it comes into contact with the skin or clothing, wash immediately with soap and water. If it comes into contact with the eye, immediately flood the eye with running cold water for at least 10 minutes and seek medical attention immediately. Acid can be neutralised with baking soda and water. Take care to keep batteries upright at all times, especially when transporting your wheelchair.

Battery and charger type:
24V (2x12V) / 73 Ah/20h. Maintenance free
Dimensions: 260 x 171 x 210 mm.
24V (2x12V) / 60 Ah/20h. Maintenance free
Dimensions: 256 x 169 x 178 mm.
Connector: 3 pins “Neutrik” type (polarity scheme in section 17)

4.10 Tyres
Your wheelchair tyres can wear depending on use. Check them regularly in accordance with the service instructions in this manual, especially the pressure of the tyres. The tyre type used for the drive wheels can be solid or pnumatic 3.00-8. The 6 inch castor wheels are specific to the Jive Up (mid-wheel drive) and need to be ordered through your approved Sunrise Medical service agent.

⚠DANGER!

Never inflate the tyres using a garage forecourt airline, always use the pump provided.

4.11 Weight limit

⚠DANGER!

- The user plus items carried should never exceed a total weight of 120Kg.
- Never use this chair for weight training if the total weight (user plus additional weights) exceed a total weight of 120Kg.
- Exceeding the weight limit is likely to damage the seat, frame or fasteners and may cause severe injury to you or others from chair failure
- Exceeding the weight limit will void the warranty.

4.12 Wheelchair motors
After prolonged use, the motors will produce heat, which is radiated through the motors' outer casing.

⚠**WARNING!**

Do not touch the motors' outer casing for at least 30 minutes after using the wheelchair, to allow it to cool. (Fig. 4.2).

- Hot surfaces
- Not only the motors can get hot during the operation of the chair, but also the upholstery material and armrests when standing in the sun.
-

Fig. 4.2

4.13 Wheelchair range
The range of your wheelchair can be affected by many factors such as user weight, terrain, ambient temperature, use of powered options and battery condition.

NOTE: The stated range in the sales literature should be seen as the theoretical maximum (ISO 7176; Part 4) and may not be attained by every user (also see section 15.1 in this manual). We recommend that every user initially limit their journey to half the stated range, until they have confidence in the actual range their wheelchair can attain.

⚠**CAUTION!**

If your battery indicator is showing a low charge then do not attempt a long journey unless you are confident in reaching your destination and also returning to your home without the risk of being left stranded.

4.14 Road use
Please show the utmost consideration for the other traffic on the road.

⚠**DANGER!**

Remember that the last thing a car or lorry driver expects to see is a wheelchair backing off the kerb into the road. If in any doubt, do not risk crossing the road until you are certain that it is safe. Always cross the road as quickly as possible; there may be other traffic.

4.15 Adverse conditions
Please be aware that when driving your wheelchair in adverse conditions, e.g. on wet grass, mud, ice, snow or other slippery surfaces, you may experience a reduction in the grip and traction of your wheelchair.

⚠**DANGER!**

- We recommend you take extra precautions in these conditions, particularly on hills and slopes; your wheelchair could become unstable or skid causing possible injury.
- When you are using a Powered Wheelchair take extra care with loose or long items of clothing. Moving parts, such as wheels, can be potentially dangerous or even fatal if clothing becomes entangled.

NOTE: Extreme variances in temperature may trigger the self protect mechanism in the control system. If this occurs the control system will temporarily shut down to prevent damage to the electronics or the wheelchair.

4.16 Ramps

⚠**WARNING!**

When using a ramp, please ensure that it is capable of taking the combined weight of the power chair and yourself. If a ramp is being used to load a chair into a vehicle, please ensure the ramp is properly secured to the vehicle.
Always approach the ramp head-on and exercise caution.

⚠**CAUTION!**

Please ensure your ramp is suitable for the product you are transporting.

4.17 Transfer to and from the chair

⚠WARNING!

- Sunrise Medical recommend that you consult your healthcare professional for assistance in developing your personal front or side transfer technique to best suit your needs and avoid any personal injury.
- Ensure controller is switched off during transfers to avoid unintentional movement.

4.18 Stand Up module

⚠WARNING!

Please be aware that the standing module present a trap hazard. Make sure that during operation the standing module is free from all clothing, hands, feet and other extremities to prevent injury.
Do not drive on ramps or slopes with the seating in stand up position. Before attempting to climb or decend a slope, return the wheelchair to a standard seated drive position, with the backrest upright.

4.19 Castors

⚠CAUTION!

Make sure that castors are not damaged or worn before using your chair.
Check the castors are functioning correctly on a regular basis.

4.20 Use on a slope
Your wheelchair has been designed and tested to allow its use on slopes or gradients of up to 10° (18%) in standard configuration. However, you have the option of adjusting your position with the standing option powered centre mount legrest or a combination of these options.

⚠WARNING!

- Standing and legrest adjustments can affect the wheelchair centre of gravity. Under certain conditions this might cause instability that could lead to unintentional tipping. It may be necessary to carry out a risk assessment if the wheelchair is adjusted to extremes.
- Stopping distances on slopes can be significantly longer than on level ground.

⚠WARNING!

- In certain circumstances your wheelchair could become unstable. Before attempting to climb or descend a slope or a kerb, caution should be taken when using weight shift options (e.g. powered , recline or standing), of the seat and/or your body for a counter balance weight.
- To improve stability lean forward when driving uphill, with the seat and back in an upright position.
- Alternatively sit in an upright position when travelling in a forward, downhill direction or and/or recline the seat backwards.
- We strongly recommend that you return the seat and back to an upright lowered and seated position before attempting to climb or descend a slope. Failure to do this may cause the wheelchair to become unstable.
- If you are in any doubt about the capabilities of your wheelchair on a slope then do not attempt to drive up or down the slope/kerb; try to find an alternative route.

4.21 Gradients: ascents

⚠WARNING!

- When going uphill, keep the chair moving.
- Steer by carefully moving the joystick forwards making slight Left and Right adjustments as you go.
- If you have stopped on a hill, you should start slowly.
- If necessary lean forward.
- 4.22 Gradients: descents

On descents, it is important not to let the wheelchair accelerate beyond its normal level of ground speed.

⚠WARNING!

Proceed slowly down steep descents, (below the speed of 5kph) and stop if any anxiety arises regarding directional control.
If the chair picks up speed, centre the joystick to slow it or to stop all forward movement, then restart slowly and do not allow the speed to increase.

NOTE: The solid state controller has the benefit of a logic system that will help compensate when driving along a camber or up a hill. This is an added safety feature on your wheelchair. In addition of course, you may control the wheelchair speed by using the speed control.

4.23 Using a vehicle mounted passenger lift
Wheelchair lifts are used in vans, buses and buildings to help you move from one level to another.

⚠DANGER!

- Ensure that the user and all carers fully understand the lift manufacturer's instructions for using the passenger lift.
- Never exceed the lift manufacturer's recommended safe working load and load distribution guidance.
- Always turn off all power when you are on the lift. If you fail to do so, you may touch the joystick by accident and cause your chair to drive off the platform. Be aware that a rollstop at the end of the platform may not prevent this.
- Always position the user securely in the chair to help avoid falls while on the lift.
- Always ensure the chair is in drive mode when using passenger lift (wheels locked not in freewheel mode).

4.24 Creep mode

⚠WARNING!

Please ensure your backrest recline angle relative to floor level, (which is a combination of the back recline itself and the angle), does not exceed 12° to drive the chair safely.

NOTE: Because your wheelchair is fitted with a standing module, you will go into 'Creep Mode' as soon as the option is selected.

⚠DANGER!

This is especially dangerous when attempting to drive up or down a slope.

4.25 Stability of your wheelchair
Please follow the user instructions in this manual regarding the use of standing modules and the use of your chair on a slope.

⚠WARNING!

Other variables can affect your chair stability, including:

Movement of the user
Effects of the addition of accessories or other equipment
Inappropriate adjustments or modifications to the wheelchair

In some cases these issues are further compounded by the effects of the local environment such as:

- Hills
- Slopes
- Ramps
- Sloping/uneven footpaths
- Dropped kerbs

Furthermore different body proportions of a wheelchair user affect stability for example:

- Lower limb wasting or amputation
- Increased upper torso mass
- Upper torso height
- Obesity

4.26 Seat stay pin
A seat stay pin is provided on your powerchair to provide access for service and maintenance. When the seat is raised, ensure the spring pin clicks back into the lock position to hold the seat upright.

⚠WARNING:

Do not move the wheelchair with the seat stay pin in place and make sure you are on flat stable ground. Make sure that the pin is retracted before lowering the seat.

4.27 Wheels

⚠DANGER!

Always use the pump that is supplied with the chair,
Never use a forecourt pump.
Inspect all tyres regularly for signs of wear.
Do not drive over anything that could cause punctures in the tyres.
Ensure that there are no objects in your path that could possibly become lodged in your chair mechanism or in the spokes of the rear wheels. This could cause the chair to come to a sudden stop.
Riding over drains or grids could cause the wheelchair castors or wheels to become lodged, causing the chair to come to a sudden stop.
Always maintain the correct pressure for the tyre. These are listed in section 13 of this manual.

4.28 Rear view mirror

⚠WARNING!

To avoid injury to people around you please be aware that the mirror protrudes outside the space envelope of the chair and could cause injury to someone when driving past.
The mirror must be used on the 10KPH model on UK roads.
Always make sure that when using the mirror that it is clean and unbroken so that it does not impair your visibility.

4.29 Crutch holder

⚠WARNING!

Make sure that the crutch is securely fastened to the crutch holder.
Make sure that the crutch is not interfering with the mechanisms of the chair.
Make sure that the crutch does not protrude from the chair.
Do not attempt to remove the crutch whilst the chair is in motion.
Always come to a complete stop and turn off the power to the controls before attempting to remove the crutch. This will avoid accidentally operating the chair.

4.30 Lights and indicators

⚠WARNING!

Ensure that the lights and indicators are functioning correctly and lens are clean before going outdoors at night.

4.31 Vent tray

⚠WARNING!

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

Make sure that the batteries and the ventilator are securely fastened to the tray before use.
Familiarise yourself with the increased size of the wheelchair before driving to prevent potential collisons
When activating the recline backrest make sure that the area around the vent tray is clear.
Be aware that the vent tray assembly can cause a finger trap hazard when the backrest is reclined.
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.
The vent tray must be installed and maintained by a Sunrise Medical authorised dealer.

4.32 Swing away tray

⚠WARNING!

The maximum weight allowed for the tray is 2.5kg.
Do not overload the tray, this could cause the tray to break or could cause the chair to become unstable.
Do not leave lit cigarettes or other heat sources on the tray as this could cause the tray to deform and mark.
Ensure that all extremities and clothing are free when positioning the tray for use.

4.33 Kerb climbing

⚠WARNING!

Always approach a kerb at 90° (Fig 4.3).

Approach the kerb (step) head on driving forwards slowly and steadily and always at a 90° angle.

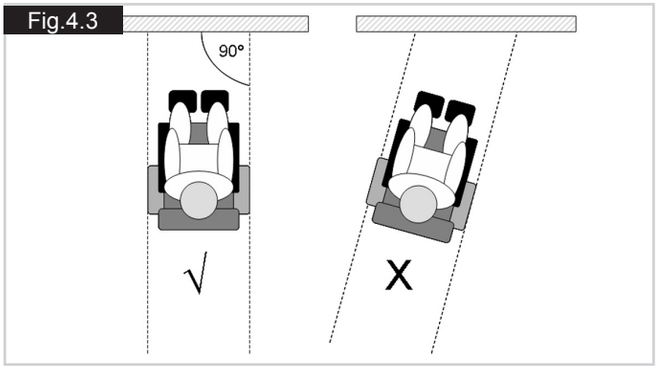
Stop the chair as soon as the castor wheels touch the kerb. Apply sufficient power to the motors to lift the front of the chair up onto the kerb (step) and then apply slightly more power and speed so that the drive wheels climb the kerb (step) smoothly and without hesitation. As far as possible, keep the joystick in the straight forward position.

In accordance to the ground clearance, the maximum obstacle height possible to climb is 100 mm when conducted as described above.

⚠WARNING!

The approach speed and process can vary depending on your wheelchair drive type and castor wheel choice.

Fig.4.3



4.33.1 Dismounting the kerb.

⚠WARNING!

Move the chair slowly and carefully in a forward direction until both front wheels are on the edge of the kerb, again in a 90° position to the kerb. (Fig 4.3)

Drive as slowly as possible off the kerb with the drive wheels. Don’t stop the chair during decent of the kerb. You will feel more secure if you can lean backwards, but if you can’t, don’t worry, the wheelchair is extremely stable. As long as you stay within its limitation, you will be quite safe.

The rear of the chair will naturally follow down the kerb as you continue to drive slowly forwards.

All powered seating options need to be in home position. Your powered leg rests may need to be adjusted to give enough clearance to mount or dismount the kerb.

We recommend to use the lap strap to feel more secure during declining the kerb. For extra protection we recommend to fit every chair with the leg rests.

4.34 Lap strap
The 50 mm (2“) Aircraft Buckle lap strap. (Fig. 4.2).

Fig.4.4

The 50 mm (2”) Aircraft Padded Lap strap. (Fig. 4.5)

Fig.4.5

The lap strap fitted for a right-handed user. (Fig. 4.6)

Fig.4.6

The lap strap fitted for a left-handed user. (Fig. 4.7)

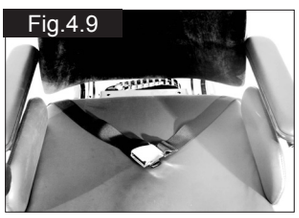
Fig.4.7

Place the strap 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. (Fig. 4.8)

Fig.4.8

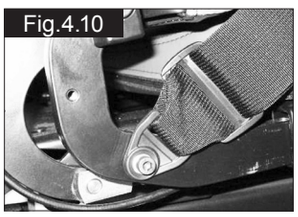
Pass the other ends of the strap through the gap between the backrest posts and the backrest upholstery as shown above. (Fig. 4.9)

Fig.4.9



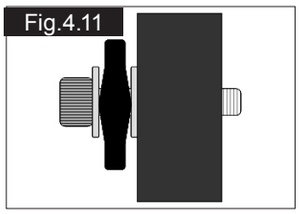
Feed the bracket ends of the straps under the backrest brace bar as shown, using the lower fixing hole. Ensure that the adjuster buckles can be accessed and the strap is not twisted, (Fig. 4.10).

Fig.4.10



Put a washer on the bolt.
Pass the bolt through the lap strap fixing bracket.
Put the next washer on to the bolt, (Fig. 4.11).

Fig.4.11



Screw the bolt into the lowest pre-drilled hole in the frame. (Fig.4.12)

Fig.4.12

Tighten using a 5.0mm hex wrench to a torque value of 10Nm, (Fig.4.13).

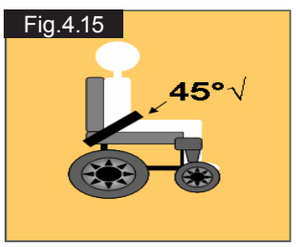
Fig.4.13

Adjust the lap strap to suit, leaving no more than a hand’s width gap for comfort and safety.
The hand clearance should be with the lap strap under normal tension and not allow large gaps or loops, (Fig. 4.14).

Fig.4.14

Generally, the lap strap should be fixed so that the straps sit at an angle of approximately 45° (Fig. 4.15), and when correctly adjusted should not allow user to slip down in the seat.

Fig.4.15



⚠DANGER!

- Always make sure that the lap strap is correctly secured and adjusted prior to use.
- Too loose a strap could cause the user to slip down and cause serious injury.
- Check lap strap and securing components at regular intervals for any signs of fray or damage. Replace if necessary
- When servicing, check for correct operation of the release buckle and for any signs of wear on the material or plastic brackets.
- Lap straps are not suitable for transit purposes, approved occupant restraint systems must be used.

NOTES:

- Standard Sling - Lap strap movement is restricted by upholstery
- Contoured back - Use universal bottom bracket as per recline back method

5.0 Preparing your wheelchair for use

5.1 Handling the wheelchair

NOTE: To dismantle the chair for transport or storage no tools are required.

The list of components when dismantled: (components below are related to the maximum detachable parts and dependent on the type of seating system chosen):

- 1 pair of armrests
- 1 pair of leg rests, or single centre mount leg rest with flip-up footplate
- 1 backrest (Jay/ Jay Comfort)
- 1 drive unit with seat frame.

⚠WARNING!

Make sure, when the chair is stored or left in the car or anywhere else, the controller is switched off and the freewheel mechanisms are engaged.

⚠CAUTION!

If there is a need to lift the drive unit use the rear castor arm and the drive wheel. Caution should be taken if the chair is in freewheel.

To remove the control pod:
Loosen the adjustment screw on the control arm and slide the arm out of the bracket, (Fig 5.1). Place the controller and arm in a safe place until required.
R-net: Locate the in-line bus connector. Gently pull the plugs apart to separate the loom, (Fig. 5.2).
To reconnect the hand control just repeat the process in reverse.

5.2 Re-Assembling

Flip up or replace the backrest. Put your armrests back in and connect the remote controller. Attach the hangers or flip down the footplate. Make sure your freewheel mechanisms are engaged. Now you are ready to drive the chair.

⚠WARNING!

Never lift the wheelchair by the armrests or the leg rests, since they are detachable and harm could be done to the user or to the wheelchair.

5.3 Emergency freewheel

Jive Up
By pulling the freewheel levers outwards from both sides of the base (Fig.5.3-5.4), the drives become disconnected from the motors.

⚠DANGER!

This may only be used in an emergency, or if you need to manually push your wheelchair. It is not intended for permanent use or to push the wheelchair up/down a slope with the user sitting in it.

NOTE: The chair's automatic braking system will not work unless the brake release levers are in the "drive" position.

⚠WARNING!

- Motor surfaces can be hot after use. Be careful not to touch the motor casing when disengaging the freewheel.
- Never attempt to disengage the freewheel mechanism whilst sitting in the wheelchair, especially on a slope.

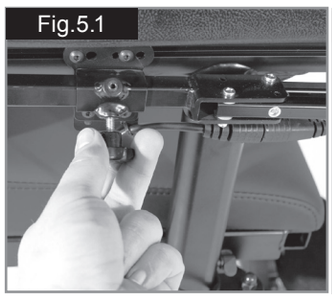


Fig.5.1

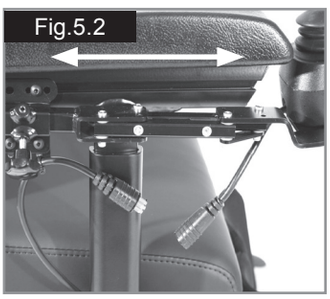


Fig.5.2

Fig.5.3

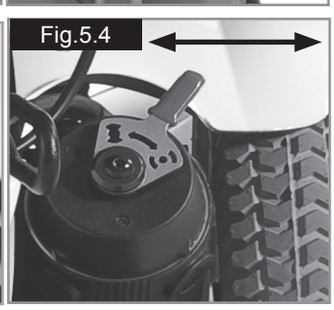


Fig.5.4

5.4 Drive wheel suspension Jive Up:
The Jive Up has an effective and adjustable drive wheel suspension system as a standard feature. To match your requirements on drive comfort, the tension of the springs at the damper can be adjusted. Turning the aluminium ring on the top of the spring downwards will stiffen your ride, adjusting the aluminium ring in a higher position will soften it. This option is to be used to match the different user weights to the suspension system. We recommend the suspension adjustments are done equally on the left and right side of the chair.

5.5 Control joystick unit position:
Depending on your chosen control system, there are two principles of control systems: Quickie VR2 and Quickie R-net controls (for details please see the controls section 7). The remote is mounted on a sliding mechanism which enables the control to be moved forwards and backwards.
Undo the locking screw, (Fig.5.1, Previous).

- Slide the control arm either out or to it's new position, (Fig.5.2, Previous).

When the most comfortable position has been selected, secure the slider by tightening the locking screw. Ensure the locking screw is fully tightened prior to use and especially when transporting your wheelchair.

5.6 Arm Rests:
5.6.1 Flip-Back Arm Rests:
The armrests on both sides of the wheelchair can be flipped up to allow side transfer, (Fig. 5.5-5.6). For side transfer flip the armrest all the way up until it goes into its mechanical stop. This frees up space for side transfer. To bring the armrests back into their position flip it all the way down until it sits on its mechanical stop. Guide it downward, do not let it fall on its own. (Fig. 5.7).

5.6.2 Adjusting the armrest width:
To adjust the width:
Loosen the four screws (5mm allen key) on the traversing tube as shown in (Fig. 5.8).

- Move the armrest receiver brackets to the desired position.
- Tighten the screws firmly prior to use.

NOTE: Please check that the new arm rest position does not interfere with any seat positioning.

Fig.5.8

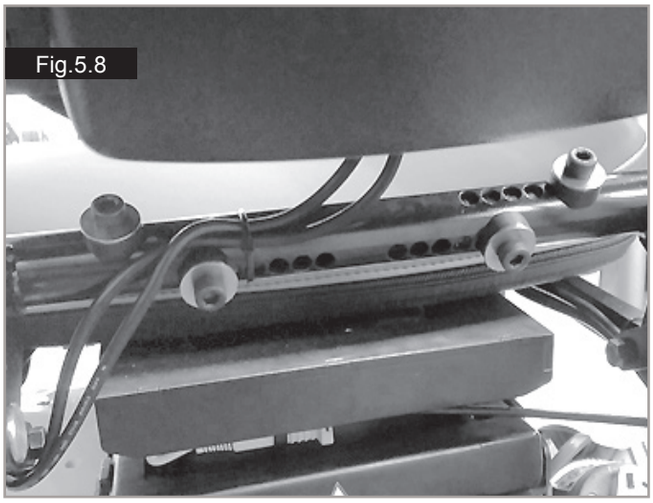


Fig.5.5

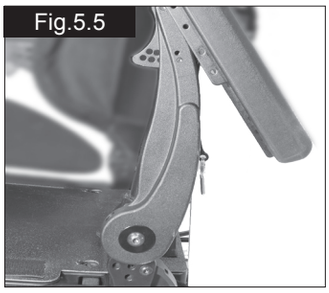


Fig.5.6

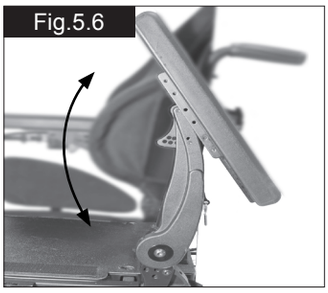
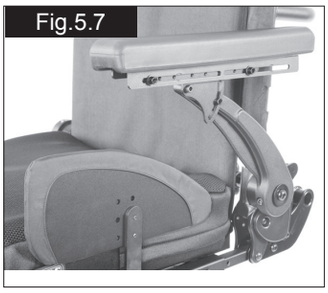


Fig.5.7



5.7 Standard Armrests:

5.7.1 Armrests-removing and replacing (Standard Seat).

The armrests on both sides of the wheelchair can be flipped up to allow side transfer, (Fig. 5.9).

For side transfer flip the armrest all the way up until it goes into its mechanical stop. This frees your space for side transfer.
To bring the armrests back into their position flip it all the way down until it sits on its mechanical stop. Guide it in its downward movement and do not let it fall on its own.

Fig. 5.9

5.7.2 Standard Seat : Armrest Height Adjustment :

The following section outlines armrest height adjustment. In the case of either fine or gross adjustment, it is a two-part process:
PART I: Adjust the armrest height through rotation.
PART 2: Adjust arm pad angle.

1.Basic fine adjustment.

PART 1 (fig. 5.10 & 5.11)

Up to 25 mm of armrest height adjustment can be achieved using the 5mm fine height adjustment screw to fine tune the armrest's height.

1. Loosen the 6mm rotation bolts on both armrests (B).
2. Turn the adjustment screws (C) counter-clockwise to raise the armrest or clockwise to lower.
3. Retighten both rotation bolts (B). Use 20 N/m or 177 in/lb of torque.

Fig. 5.10

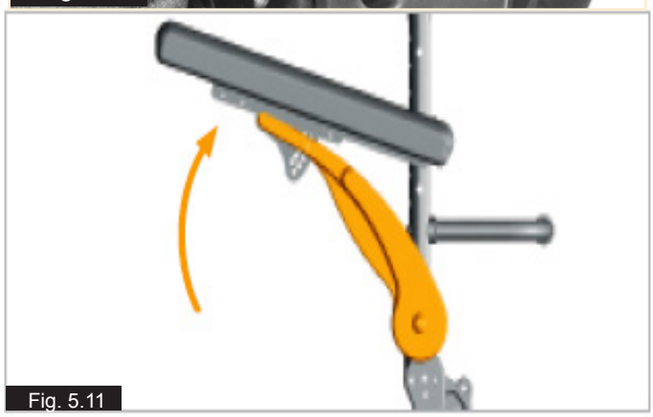


Fig. 5.11

PART 2 (fig. 5.12 & 5.13)

1. Loosen the 4mm armpad angle pivot bolts (A) on both armrests.
2. both armpads down (or up in the case of a lowered armrest) until the armpads are in the preferred angle. Check to see if the height is correct.
3. Retighten both armpad angle pivot bolts (A). Use 10 N/m or 88.5 in/lb of torque for both sets of bolts

⚠WARNING!

Both sets of bolts should be checked periodically for tightness. If loose the armpad could slip down when pressed.

Fig. 5.12

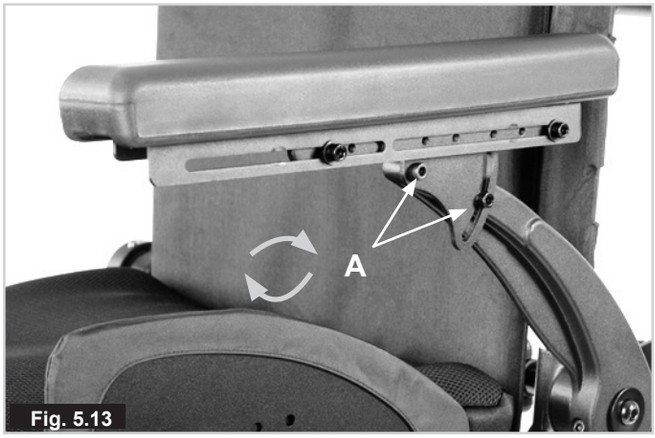


Fig. 5.13

2.Basic coarse adjustment.

PART 1

1. To achieve more than one inch of adjustment, remove the 6mm armrest rotation bolts on both sides of the seat, (Fig.5.14).
2. Remove both armrest assemblies. (Fig.5.15)
3. Remove both sets of 4mm armrest adjustment ring bolts. (Fig.5.16)
4. Rotate the armrest height adjustment rings, (Fig.5.17) to match the desired height.
5. Replace both sets of armrest adjustment ring bolts, (Fig.5.18).
6. Use 10 N/m or 88.5in/lb of torque.
7. Replace both armrest assemblies. (Fig.5.19)
8. Replace the armrest pivot bolts on both sides of the seat, but do not tighten completely. (Fig.5.20)

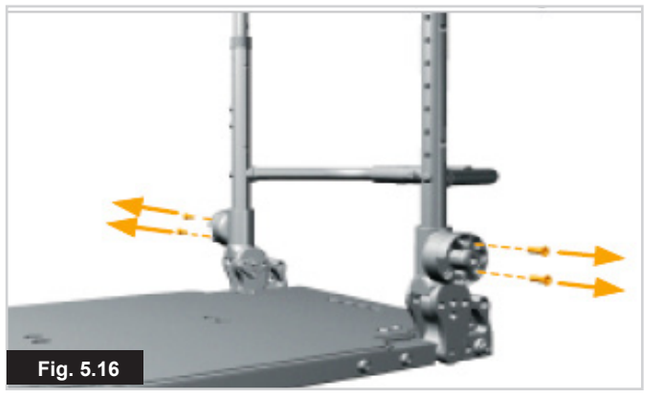


Fig. 5.16

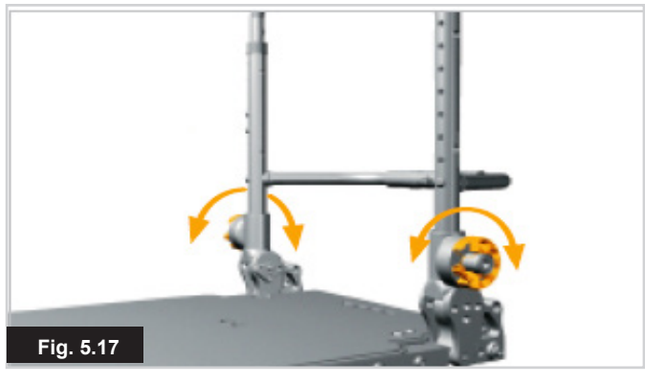


Fig. 5.17

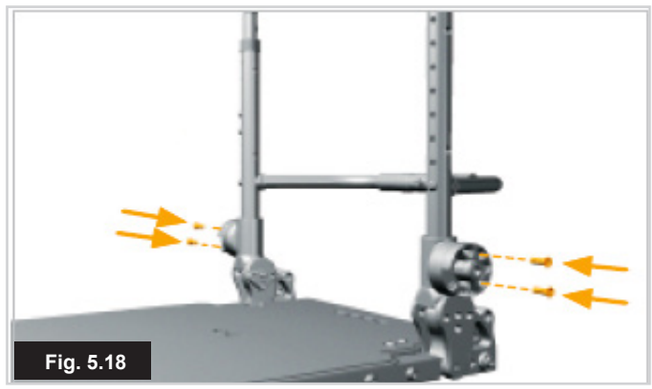


Fig. 5.18

Fig. 5.19

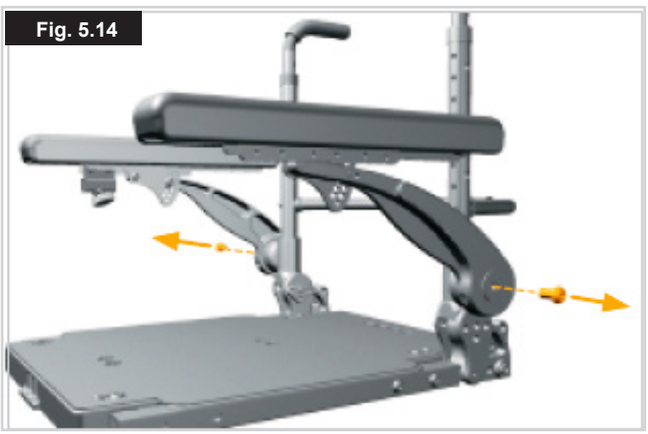


Fig. 5.14

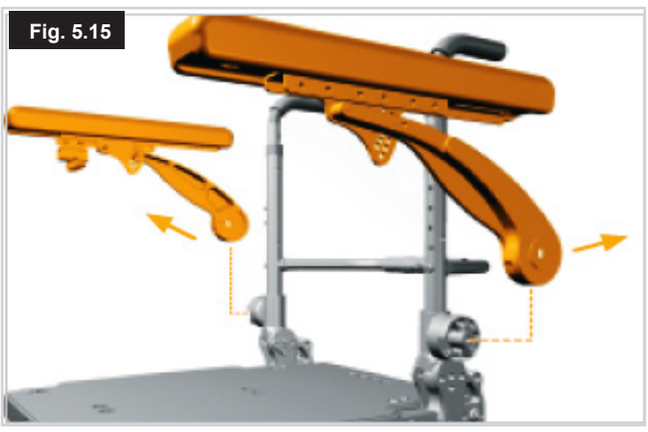


Fig. 5.15

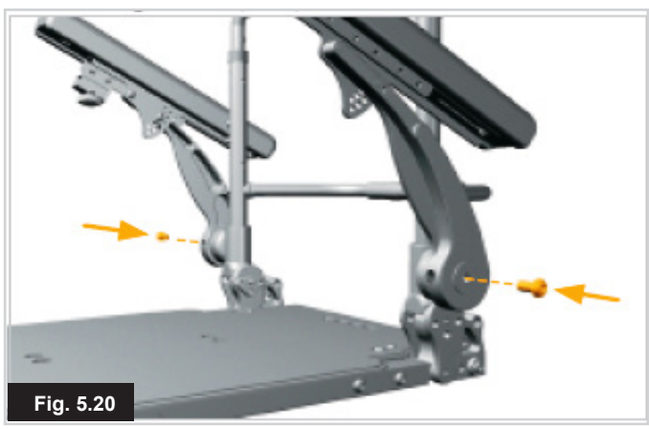


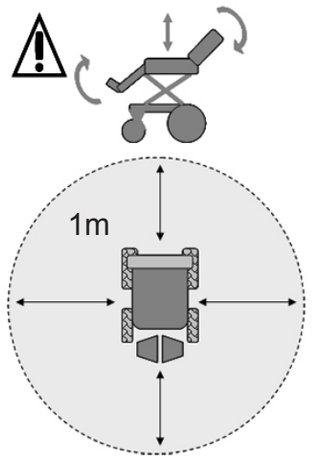
Fig. 5.20

5.8 Leg Rests and Foot Plates

⚠**WARNING**!

- Be aware of your environment to make sure you do not injure your legs when Leg Rests are extended.
- Always ensure that the Leg Rests or foot plates do not come into contact with the castors before driving the wheelchair.
- Leg Rests are not to be used for lifting or carrying the wheelchair under any circumstances.
- As with all moving parts be careful not to trap your fingers, (Fig.5.21)
- .

Fig.5.21



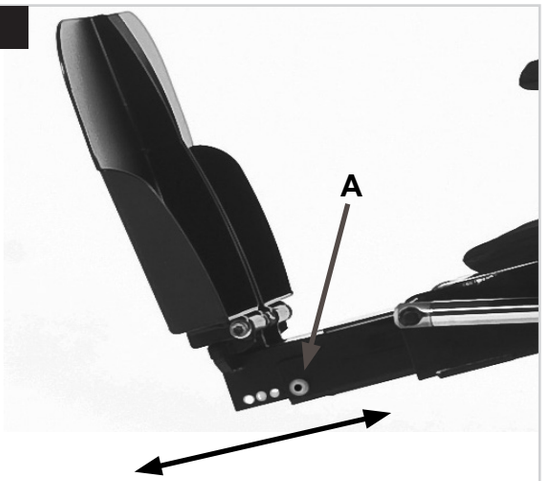
5.8.1 Foot plate height adjustment

The height of the foot plates is secured with one screw, (A), on each side.

The height of the foot plates can be adjusted in 15mm steps. They are secured with two screws:

1. Undo the two screws on the foot plate receiver in question. (Fig.5.22).
2. Adjust the foot plate to the required height and secure by tightening the screws.
3. Check, following adjustment, that the foot plates are fully secured. Also make sure there´s sufficient space (>25 mm.) between the floor and the footplate at all time when maneuvering the legrest in/out and when using the standup function. Perform this test with the user sitting in the chair loading the footplates.

Fig.5.22



⚠**WARNING**!

After adjustment and with the seat in its normal drive position, make sure there´s sufficient space (>25 mm.) between the floor and the footplate at all times when maneuvering the legrest in/out and when using the standup function. Perform this test with the user sitting in the chair loading the footplates. Using the chair with the footplates set too low might result in personal injury or damage to the wheelchair and its surroundings.

5.9 Powered Center mount leg rest, (R-Net):
See Fig. 5.23-5.25

⚠**WARNING**!

There is an option on the programme of the leg rest that allows you to send the footrest to the floor to allow for easier mounting and dismounting for the user. 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.

Operation:
- Switch the chair on and press the mode button, (A).
- The controller will change into the actuator mode, the seat symbol will appear in the LCD screen, (Fig.5.24).
- Operate the joystick left or right to select the actuator required. Selection is indicated via the lighting of the relevant seat section and is also written below the seat icon.
- Operate the joystick in the forward or rearward direction to move the leg rest, standing, recline or MEMORY POSITION up or down.
- Release the joystick when the desired angle/position is reached.
- To return to drive mode press the mode button again until the speed gage appears on the LCD screen.

⚠**CAUTION**!

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

For further details please refer to your R-net Owner's Manual.

Fig.5.23

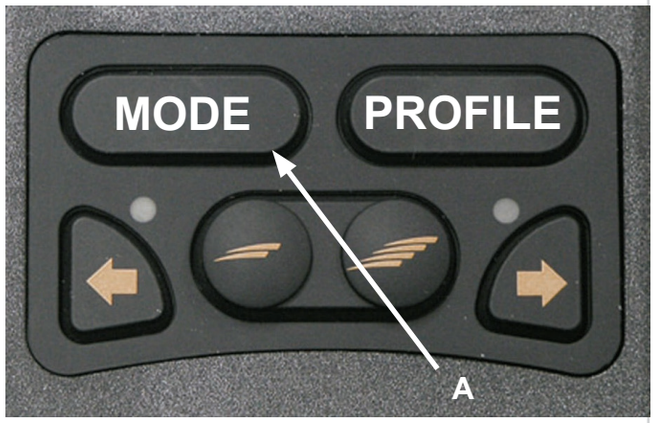
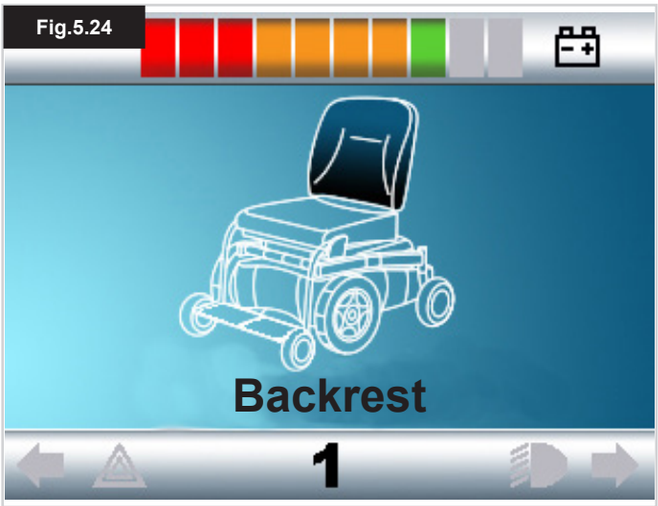


Fig.5.24

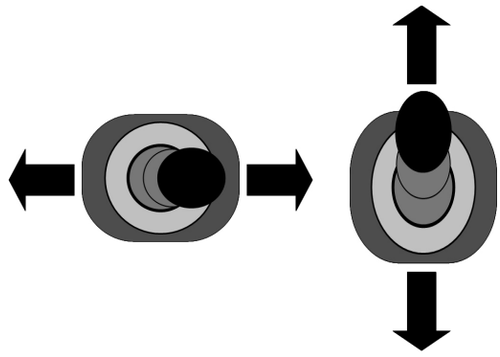


5.10 Powered adjustable backrest:

Operation (Fig 5.23 - 5.25):
- Switch the chair on and press the mode button
- The controller will change into the actuator mode, the Seat symbol will appear in the LCD screen.
- Operate the joystick left or right to select the actuator required. Selection is indicated via the lighting of the relevant seat section and is also written below the seat icon
- Operate the joystick in the forward or rearward direction to move the leg rest, standing, recline or MEMORY POSITION up or down.
- Release the joystick when the desired angle/position is reached.
- To return to drive mode press the mode button again until the speed gage appears on the LCD screen. (See Fig. 5.23-5.25, previous page)

For further details please refer to your R-net Owner's Manual.

Fig.5.25



5.11 Powered seat Lifting:
The seat can lift up to 200 mm by operating it through your control system.

⚠**WARNING**!

Before operating the seat lift function ensure that the immediate area around the wheelchair is clear of possible obstructions, (eg wall shelving), and potential hazards, (eg small children and pets).

NOTE:
- Operating the seat lift will limit the drive speed of the wheelchair.
- Operating the seat lift and another electric option will stop the drive all together.

Operation:
- Switch the chair on and press the mode button.
- The controller will change into the actuator mode, the Seat symbol will appear in the LCD screen.
- Operate the joystick left or right to select the actuator required.
- Selection is indicated via the lighting of the relevant seat section and is also written below the seat icon.
- Operate the joystick in the forward or rearward direction to move the leg rest, standing, recline or MEMORY POSITION up or down.
- Release the joystick when the desired angle/position is reached.
- To return to drive mode, press the mode button again until the speed gage appears on the LCD screen. (See Fig. 5.23-5.25 previous page).

For further details please refer to your R-net Owner's Manual.

5.12 Powered seat Tilting:
The seat can be tilted by operating your control system.

⚠**WARNING**!

Before operating the seat function, ensure that the immediate area around the wheelchair is clear of possible obstructions, (eg wall shelving), and potential hazards, (eg small children and pets).

NOTE:
- Operating the seat will limit the drive speed of the wheelchair.
- Operating the seat and another electric options will stop the drive all together.

Operation:
- Switch the chair on and press the mode button.
- The controller will change into the actuator mode and the seat symbol will appear in the LCD screen.
- Operate the joystick left or right to select the actuator required.
- Selection is indicated via the lighting of the relevant seat section and is also written below the seat icon.
- Operate the joystick in the forward or rearward direction to move the leg rest, standing, recline or MEMORY POSITION up or down.
- Release the joystick when the desired angle/position is reached.
- To return to drive mode, press the mode button again until the speed gage appears on the LCD screen. (See Fig. 5.38-5.40 previous page)

Please refer to your R-net Owner's Manual for further details.

NOTE: With the seat lift raised the maximum speed is limited to approximately 10% of its normal value. This is known as "Creep Mode".
Raising the seat in combination with other powered seating options, such as standing/recline/leg rests, can suspend the normal drive options, (depending on programming). This is quite normal and is a safety feature.
To start driving the wheelchair again, bring the seating options back to their start positions.

5.13 Leg Rests

⚠WARNING!

There is an option within the programming of the leg rest that allows you to send the foot rest to the floor to allow for easier mounting and dismounting for the user. 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 lowest position do not hold the joystick in its operating position as this could damage the actuator.

5.14 Front Knee Fixation

(Fig.5.26-5.28)

To remove:

- Grip and squeeze the Red lever, (A), on the inside edge of the front knee fixation assembly.
- **Gently lift the assembly up and out of the receiver.**

To Refit:

- Grip and squeeze the Red lever on the inside edge of the front knee fixation assembly.
- Place the lower edge of the square tube into the receiver.
- Push home and release the lever.
- Ensure the assembly is fixed firmly in place.

To Adjust the Depth:

(Fig.5.29).

- Turn the hand wheel, (B), anti clockwise to loosen.
- Slide the inner tube to the desired depth.
- Turn the hand wheel clockwise to tighten.

Fig.5.26

Fig.5.27

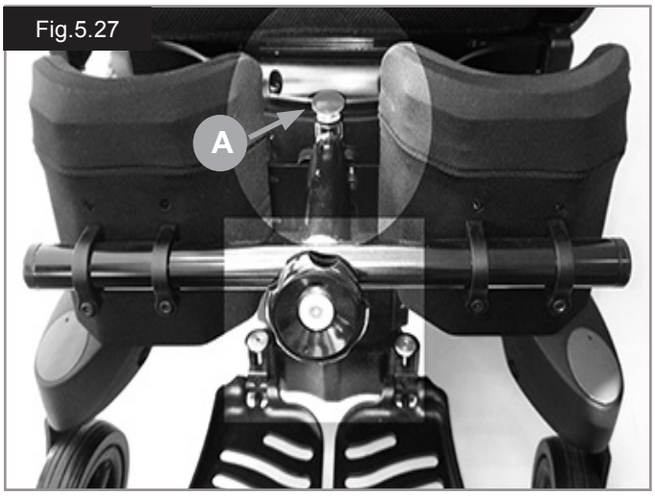


Fig.5.28

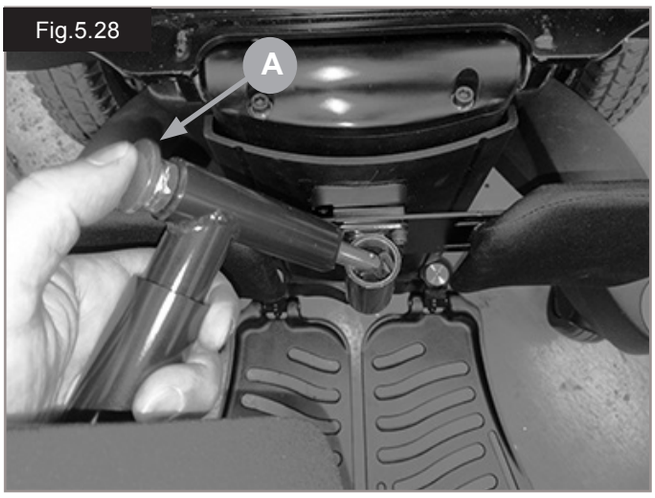
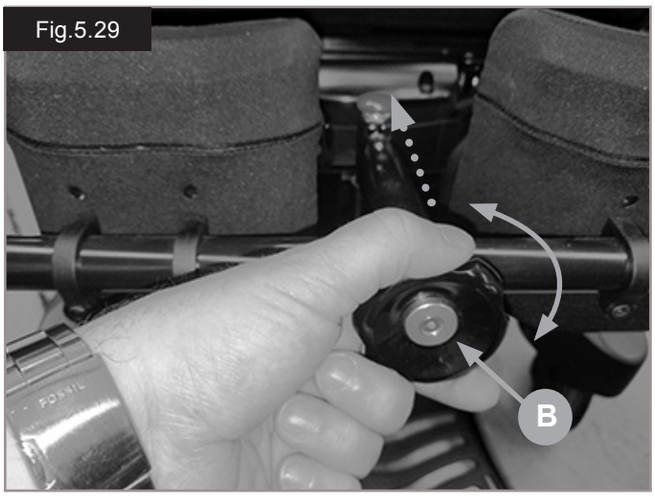


Fig.5.29



6.0 Seating

6.1 Seat cushions

Seat cushions supplied by Sunrise Medical will have Velcro® strips that correspond to patches on the seat.

⚠WARNING!

- You must ensure the strips are aligned prior to using the wheelchair.
- Other cushions used should also have Velcro® strips in a similar position to ensure the cushion does not slip off the seat.
-

NOTE: The seat cushions, supplied by Sunrise Medical all have removable covers.

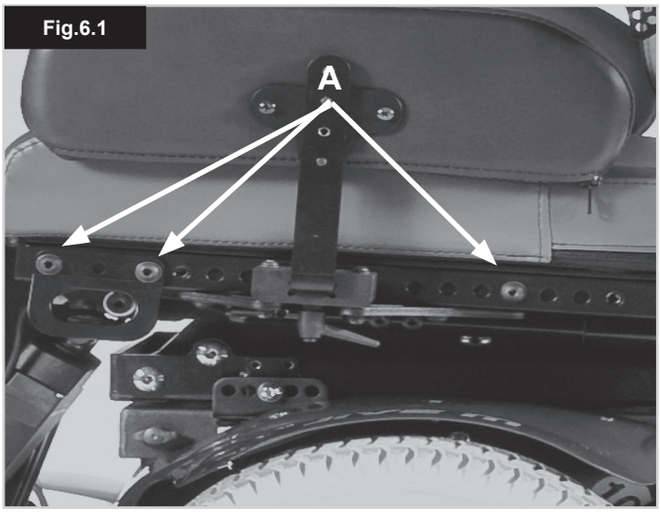
6.2 Changing seat depth on the Jive Up seat

- Loosen the arm pad width adjustment screws, using a 5.0 mm spanner.
- Repeat for the other side.
- Slide the inner seat frame to the desired position.
- Tighten all screws, (Fig.6.1).

⚠WARNING!

Sunrise Medical strongly recommend that you contact your approved Sunrise medical servicing agent to carry out this task.

Fig.6.1



6.3 Changing seat height

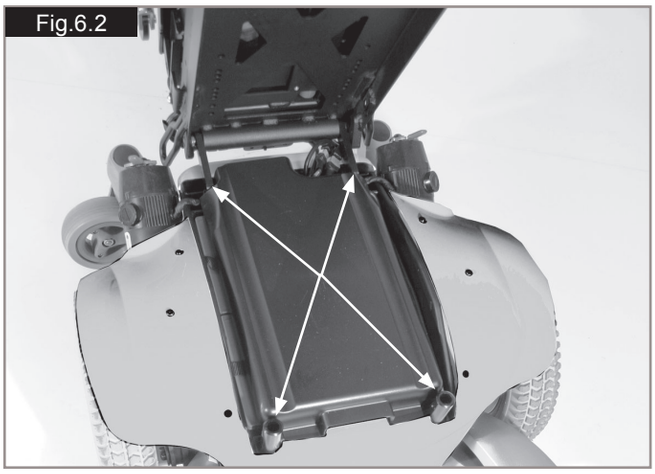
There are four adjustable seat posts, one at each corner of the drive base, (Fig.6.2).
The posts are held in place by bolts inserted through adjustment holes.
To adjust the seat height:
Remove the bolts from the posts using two 13 mm spanners.

- Move the posts to the desired position.
- Replace the bolts into the new holes in the posts.
- Tighten the bolts.

⚠DANGER!

- Sunrise Medical strongly recommend that you contact your approved Sunrise medical servicing agent to carry out this task.
- If any bolts are removed from the seat frame or seat posts it is possible that unexpected movement of the assembly may occur. This could result in serious injury.
- The seating system must never be adjusted beyond safe limits. Always consult your approves Sunrise Medical dealer/ service agent.

Fig.6.2



6.4 Removable seat covers

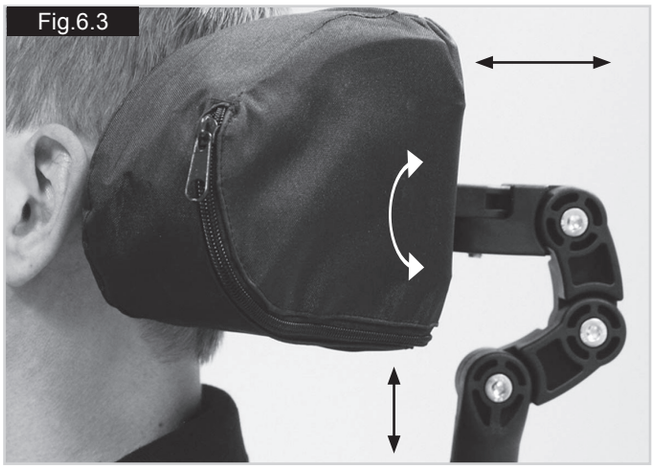
The seat covers are all fully removable using zips or Velcro®. Once brackets are removed seat covers can be removed. The zip for the backrest is located on the underside of the cushion.

6.5 JAY backrests

The standard backrest assembly will allow the fitting of a JAY backrest, which is available as an optional extra.

6.6 Headrest (Fig.6.3)
To fit the headrest, fit the location bracket to the backrest bracket, using the screws and nuts supplied, ensuring that they are fully tightened.
The headrest height is changed by loosening the adjustment lever on the stem, slide the inner vertical tube to the desired position and tightening the lever. The headrest to seat depth is adjusted by loosening the 6mm Allen screws and moving the hinge to the desired position and then tightening the screws securely. To adjust the headrest angle, loosen the screws at the headrest upholstery, position the headrest as required and tighten the screws securely.

Fig.6.3



6.7 Powered Seating

⚠WARNING!

- It is possible to reverse the direction of an actuator relative to the direction of the joystick. Ensure you know which direction to move the joystick for the desired operation. Failure to do so may result in damage and/or injury.
- Powered seat functions can be operated in “latched” mode. To stop a latched seat function before the end of travel, operate the joystick in the reverse direction.

6.7.1 Powered adjustable backrest

⚠WARNING!

- Lowering the backrest by an angle of greater than 15° from vertical alters the balance of your wheelchair.
- Never exceed 15° of recline when on any gradient or when driving your wheelchair.
- If it is clinically safe to do so, bring the back rest back to the upright position when travelling along.

6.7.2 Powered seat lift
The seat can lift up to 200 mm by operating it through your control system.

⚠WARNING!

- Before operating the seat lift function ensure that the immediate area around the wheelchair is clear of possible obstructions,
- (eg wall shelving), and potential hazards, (eg small children and pets).
- Operating the seat lift will limmit the drive speed of the wheelchair.

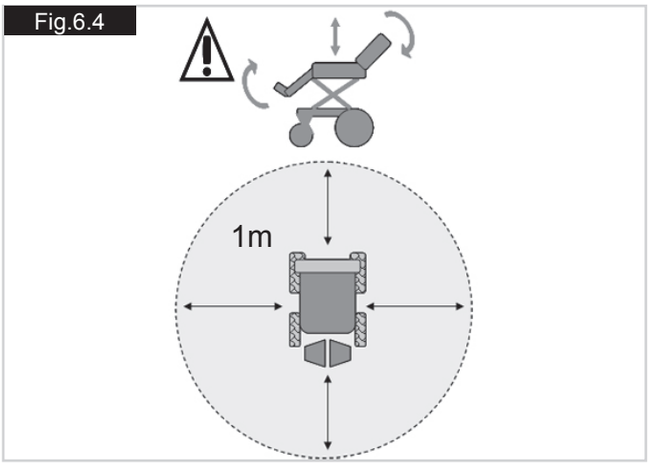
6.7.3 Powered seat
The seat can be ed by operating your control system.

⚠WARNING!

- Before operating the seat function ensure that the immediate area around the wheelchair is clear of possible obstructions, (Fig. 6.4).
- (eg wall shelving), and potential hazards, (eg small children and pets).
- Operating the seat will limit the drive speed of the wheelchair.
- Operating the seat and another electric option will stop the drive all together.

NOTE: With the seat lift raised the maximum speed is limited to approximately 10% of its normal value. This is known as “Creep Mode”.
Raising the seat in combination with other powered seating options, such as /recline/leg rests, can suspend the normal drive options, (depending on programming). This is quite normal and is a safety feature.
To start driving the wheelchair again, bring the seating options back to their start positions.

Fig.6.4



7.0 Stand Up and Related Functions

⚠WARNING!

- The chest strap may only be assembled and adapted by an authorized dealer.
- Before operating the stand-up function the chest strap and the positioning belt, supplied as standard has to be buckled in accordance with these user instructions.
- Always also use the knee fixation for the stand-up procedure.

⚠DANGER!

Due to the risk of choking it is extremely hazardous to use the belts without using the knee fixation.

7.1 Chest strap Adjustments:

Setting the height of the chest strap, (Fig.7.1-7.2).

NOTE: A 5.0 mm Hexagon wrench, (Allen Key), is required.

Positioning:
- Seat the user into the chair in the correct seating position.
- To use the lower position chest strap position, place the stud into the threaded hole, (1), and tighten using the 5.0 mm Allen Key. (Fig.7.1).
- To use the higher position chest strap position, place the stud into the threaded hole, (2), and tighten using the 5.0 mm Allen Key. (Fig.7.2).
- Tighten the Allen screws to a torque value of 9 Nm (+/- 10%).

⚠DANGER!

- To prevent choking hazards the belt may not be adjusted too high or too low relative to the users body.
- Make sure the rider does not slide in the wheelchair seat. If this occurs, the rider may suffer chest compression or suffocate due to pressure from the chest strap.
- Never use the chest strap as a patient restraint.
- Never use the chest strap on a user who is comatose or agitated.

⚠CAUTION!

Ensure the belt position does not interfere with any other device attached to the wheelchair.

Fig.7.1

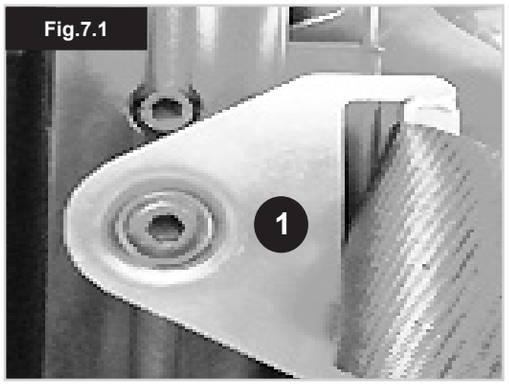
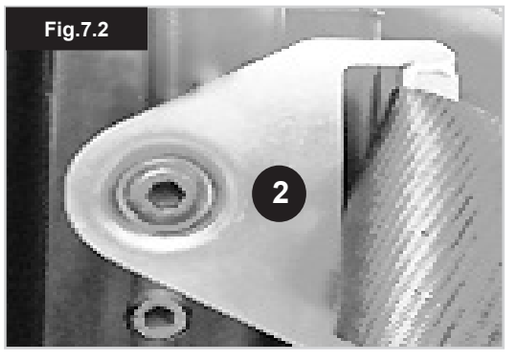


Fig.7.2



Adaptation/Adjustment:
Seat the user into the wheelchair.

- Feed the buckle on the chest strap through the loop, (Fig.7.3).
- Pull the chest strap so that it fully supports the users upper body firmly and comfortably, (Fig.7.4).
- Ensure that chest strap is not too tight.
- Close the buckle until a loud click is heard, (Fig.7.5).
- The D-Ring facilitates easy adjustment for the user, (Fig.7.6).
- Ensure the chest strap fully supports the user and that there is enough room to fit a hands width between the user and the support. (Fig 7.7).

Safety:
In addition to the chest strap latches, the chest strap incorporates two further safety features that prevent the unintended opening of the belt.
Each of the chest strap latches is secured with an overlaying safety Velcro strap. In addition to these, on each side of the chest strap there is a securing strap which is guided through the D-Ring adding another degree of safety.

⚠**WARNING!**

- Never use the stand-up function without the knee fixation, chest strap and positioning belt attached and safely locked.
- Make sure the rider does not slide in the wheelchair seat. If this occurs, the rider may suffer chest compression or suffocate due to pressure from the supports.
- Never use positioning supports as a patient restraint.
- Never use positioning supports on a user who is comatose or agitated.

Fig.7.3

Fig.7.4

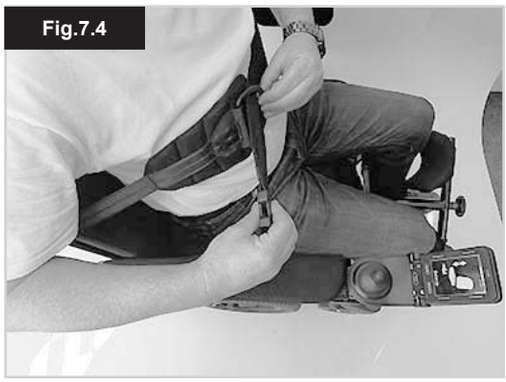


Fig.7.5

Fig.7.6

Fig.7.7

Usage:

⚠DANGER!

- This product is only to be used to position a single person in a wheelchair.
- It is not suitable for use as a transportation restraint.
- Failure to heed these warnings may result in severe injury or death.
- An unintended opening of the chest strap can result in the user falling forward out of the chair.
- If it is likely that the movements or cognitive agility of the user could lead to an unintended opening of the chest strap, a carer or attendant has to be present at all times when the wheelchair is in use.
- Ensure that the carer or attendant is trained in the correct operation of the belts.
- Untrained carers or attendants may lead to delays, if an emergency situation occurs.

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.
- We recommend that users carry out the regular exercises prescribed by their health care professional to prevent pressure sores.
- We recommend that regular checks are made to monitor skin condition.

Maintenance:
Sunrise Medical recommends:

- All fasteners should be checked monthly for wear, such as loose bolts or broken components.
- Loose fasteners should be re-tightened according to the installation instructions.
- Check the chest strap monthly for frayed straps, ripped seams or other indications of excessive wear damage. Discontinue use if damage is found.
- Chest straps should be replaced at the first indication of damage and/or excessive wear.
- If a broken or loose component is found, discontinue use immediately and contact your authorised Sunrise Medical supplier for replacement.
- Check all Velcro fastening straps for correct adhesion when pressed together.
- Ensure that any contamination, such as fluff, hair, etc is removed from the Velcro straps. Such contamination may affect adhesion

7.2 Electric Standing function
The Quickie Jive Up has an electric Standing function. This function makes it possible for the user to stand up in the wheelchair.

⚠WARNING!

- Before using the standing function ensure that the front knee fixation is in place.
- Only use the standing function on a sound and level surface.
- The stand up procedure automatically locks the front and rear castor arm suspension.
- If the locking procedure fails the chair will automatically stop in a safe position. The seat can always be returned to the normally seated position in any mode.

7.3 Electric Lie Down function
The Quickie Jive Up has an electric lie down function. This function makes it possible for the user to lie down in the wheelchair.

⚠WARNING!

- Only use the lie down function on a sound and level surface.
- The lie down procedure automatically locks the front and rear castor arms.
- If the locking procedure fails the chair will automatically stop in a safe position. The seat can always be returned to the normally seated position in any mode.

7.4 Electric Relax function
The Quickie Jive Up has an electric relax seating function. This function makes it possible for the user to come to a relaxed seating position in the wheelchair.

7.5 Electric Transfer function
The Quickie Jive Up has an electric transfer function. This function makes it possible for the user to transfer in and out of the wheelchair.

7.6 Electric Seating function
The Quickie Jive Up has an electric seating function. This function is the seat position to which all the Memory seat positions described above come back to by pulling the Joystick into the backward direction when in the seating memory mode.

⚠DANGER!

When the standing, or lie down function is used, the centre 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.

7.7 Seat Memory Position
The control system on the Jive Up has 5 predefined seat memory positions. Each memory location has a set of factory seat positioning presets:
Seating, Stand-Up, Lie-Down, Transfer and Relax. There is a 6th Memory position (Custom Position) that can be used as a customized seat position. The Seat actuators are all working with a feedback system to track their positions and movements. This is important:
a) to reach the required memory position.
b) to prevent mechanical clashes of the seat.
c) to operate the actuators especially towards the memory positions in an ergonomic, smooth and safe way.

Although there is one free programmable seat Memory position, all predefined 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.

7.7.1 Retrieving a Memory Seat Position

(Fig.7.9-7.11)

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, Stand-Up, Lie-Down, Transfer, Relax or Custom Position). 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 position 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!

- Movement of the seat can be stopped at any time by releasing the joystick.
- 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.

7.7.2 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.

7.7.3 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 socket on the 12V potentiometer power supply box, (Fig. 7.12).
2. Press the ”Mode” button one or more times until a seat icon appears in the LCD control panel display, (Fig.7.13).
3. Move the joystick to the left or right to select a memory seat position (Seating, Stand-Up, Lie-Down, Transfer, Relax or Custom Position), (Fig.7.14). A seat icon and the memory description for the relevant position are shown in the LCD control panel display.
4. Move and hold the joystick forwards, (Fig.7.14). 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 need.
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 12V potentiometer power supply box, (Fig.7.15) 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 stop always in this new programmed end position.

Fig.7.9

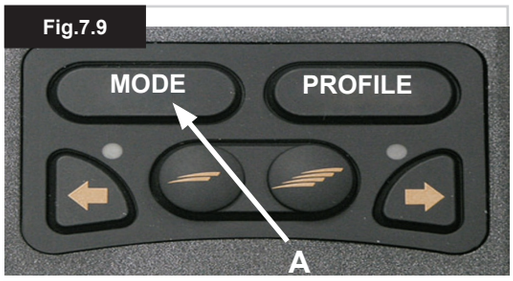
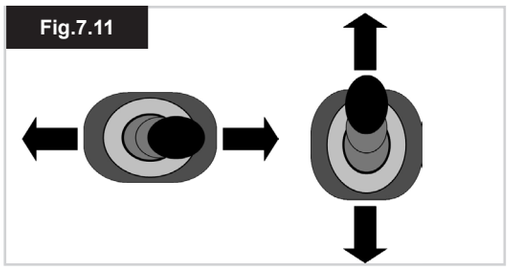


Fig.7.10

Fig.7.11



7.7.4 Delete custom programmed memory positions

Refere to Fig.7.12 - 7.15

1. Remove the rear cover of the backrest and connect a Switch with a 3,5mm Jack to the socket at the 12V potentiometer power supply box. (Fig. 7.12)
2. Press the ”Mode” button one or more times until a seat icon appears in the LCD control panel display, (Fig.7.13).
3. Move the joystick to the left or right to select a memory seat position (Seating, Stand-Up, Lie-Down, Transfer, Relax or Custom Position), (Fig.7.14). A seat icon and the memory description for the relevant position are shown in the LCD control panel display.
4. Press and hold the Switch at the 12V potentiometer power supply box, (Fig.7.15) 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.

7.7.5 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.

Fig.7.12

Fig.7.13

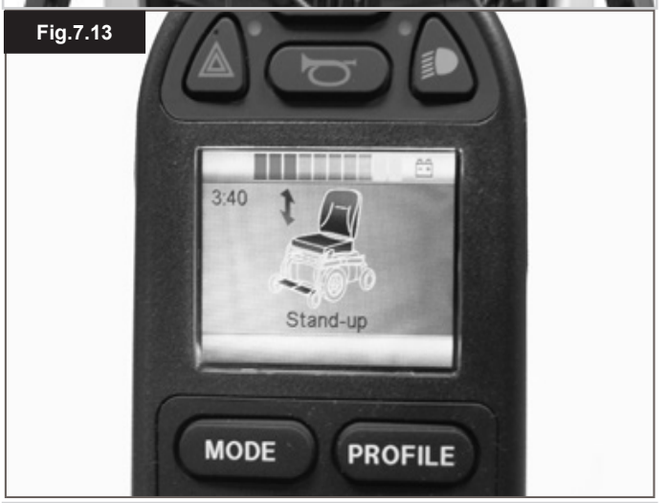


Fig.7.14

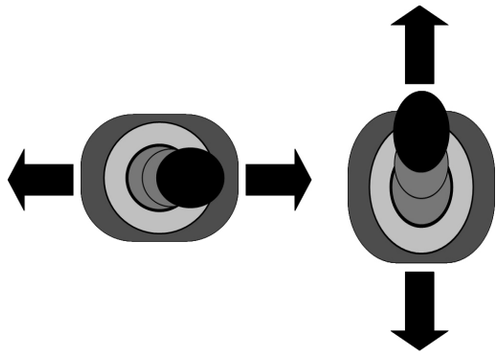
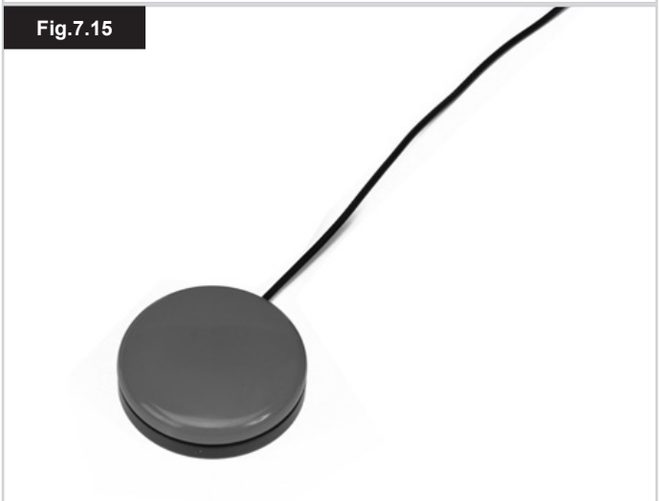


Fig.7.15



8.0 Troubleshooting The R-net Control:

Always consult your Sunrise Medical authorised dealer when a diagnostic fault has appeared on your hand control.
The battery gauge, (A) and maximum speed/profile indicator, (B), show the status of the control system, (Fig.8.1).

Battery Gauge is steady - This indicates that everything is OK.

Battery Gauge flashes slowly - The control system is functioning correctly but the batteries need charging as soon as possible.

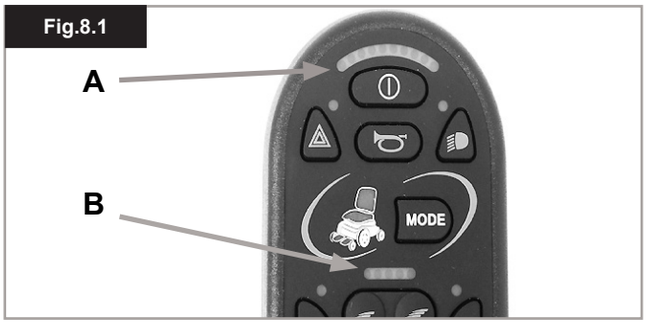
Battery Gauge steps up - The wheelchair batteries are being charged. You will not be able to drive the wheelchair until the charger is disconnected and you have switched the control system off and on again.

Battery Gauge flashes rapidly (even with the joystick released)
The control system safety circuits have operated and the control system has been prevented the wheelchair from moving.

This indicates a system trip. i.e. the controller has detected a problem somewhere in the wheelchairs electrical system.

- Switch off the control system.
- Make sure that all connectors on the wheelchair and the control system are mated securely.
- Check the condition of the battery.
- If you can't find the problem, try the self help guide on the next page.
- Switch on the control system again and try to drive the wheelchair.
- If the safety circuits operate again, switch off and do not try to use the wheelchair.
- Contact your Sunrise Medical authorised dealer.

Fig.8.1



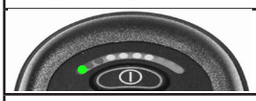
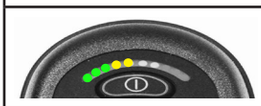
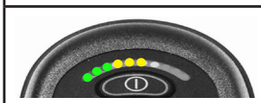
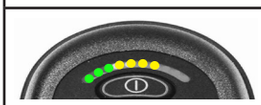
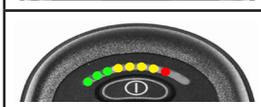
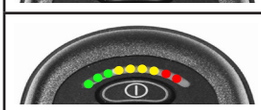
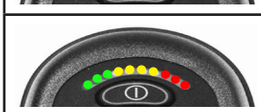
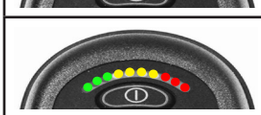
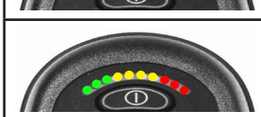
Self help guide, (Fig.8.1-8.2).

If a system trip occurs you can find out what has happened by counting the number of LED's on the battery gauge that are flashing.
Go to the number on the list which matches the number of flashing bars and follow the instructions.
Slow or sluggish movement - If the wheelchair does not travel at full speed or does not respond quickly enough and the battery condition is good, check the maximum speed setting. If adjusting the speed setting does not remedy the problem then there may be a non hazardous fault. Consult your Sunrise Medical authorised dealer.

Speed/Profile Indicator ripples up and down - This indicates the control system is locked, refer to section 7.3 for details on how to unlock the control system.

Speed/Profile Indicator flashes - This indicates that the speed of the wheelchair is being limited for safety reasons. The exact cause will depend on the build of the chair but usually indicates that the seat is elevated.

Actuator LED flashes - This indicates that the actuators may be inhibited in one or both directions.

FAULT CODE	FLASH	POSSIBLE CAUSE Fig.8.2
	1	The batteries need charging, or there is a bad connection to the battery. Check the connections to the battery. If the connections are good, try charging the batteries.
	2	The left hand motor has a bad connection. Check the connections to the left hand motor.
	3	The left hand motor has a short circuit to a battery connection. Contact your Sunrise Medical authorised dealer.
	4	The right hand motor has a bad connection. Check the connections to the right hand motor.
	5	The right hand motor has a short circuit to a battery connection. Contact your Sunrise Medical authorised dealer.
	6	The wheelchair is being prevented from driving by an external signal. One possibility is that the battery charger is plugged in.
	7	A joystick fault is indicated. Make sure that the joystick is in the centre position before switching on the control system.
	8	A control system fault is indicated. Make sure the control system connections are secure.
	9	The parking brakes have a bad connection. Check the parking brake and the motor connections. Make sure that the control system connections are secure.
	10	An excessive voltage has been applied to the control system. This is usually caused by a poor battery connection. Check the battery connections
	10 + S	S = Speed indicator LED's A communication fault is indicated. Make sure that the joystick cable is securely connected and not damaged.
	10 + A	A = Actuator LED's An actuator trip is indicated. If more than one actuator is fitted, check which actuator is not working. Check the actuator wiring.

9.0 R-net Control System

9.1 R-net control system information

An alternative control system called R-net is available for the wheelchair.
The R-net system has extended options and is suitable for individuals with complex needs or when there is a preference for screen based menu options and information displays.

The R-net control system offers simple, effective solutions to many situations, thereby enhancing the lifestyle and independence of the user.

The operation of the R-net wheelchair control system is simple and easy to understand. Both the R-net and VR2 control systems incorporates state-of-the-art electronics, the result of many years of research, to provide you with ease of use and a very high level of safety.

Because of the comprehensive nature of the R-net control system, a separate R-net Owner's Manual is supplied whenever this system is fitted.

The R-net control system can be programed to suit the drive performance needs of the user. The R-net control system can be programmed via a hand held or PC programmer. Programming can significantly change the drive profiles of the wheelchair: For this reason programming must only be carried out by your approved Sunrise Medical dealer/service agent.

Please refer to the R-net Owner's Manual for details of R-net hand control functions.

10.0 Controller Mounts

10.1 General warnings

⚠WARNING!

- Do not replace the joystick knob with any unauthorised item. It may cause hazardous operation and loss of control of the chair.
- It is important that the joystick boot is replaced if it is torn or brittle; failure to do so could cause substance damage to the controller and unexpected movement of the chair.
- Ensure that you always have comfortable access to the controls whilst the chair is moving and make sure that the controller is fixed securely to the chair.
- To avoid unexpected or unintentional movement of the wheelchair and to conserve battery power, it is recommended that the control system is switched Off when drive or seating adjustments are not being used.

10.2 Parallel swing-away general warnings, (Fig.10.1)

⚠WARNING!

- 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 has increased if the swing-away arm is out and you may not get between certain obstacles.
- Do not hang any items on or over the parallel swing-away remote assembly as this could damage the swing-away mechanism.
- When transferring to and from the wheelchair do not use the remote as a means of support.
- Ensure the power is switched off while adjusting the parallel swing-away arm.
- Only operate the wheelchair at low manoeuvring speed when the parallel swing-away is in use.

Fig. 10.1

10.3 Attendant control, (Fig.10.2)

⚠WARNING!

- Ensure that you set the speed of the attendant control to a speed that you can comfortably follow.
- Always turn off the power to the controller when leaving the user in the chair.
-

10.4 Centre bar mount control (R-net)

⚠WARNING!

- Make sure that the controller is fixed securely to the centre bar.
- Always turn off the power to the controller before moving the controller out of the way.

10.5 Tray mount control, (R-net):

⚠WARNING!

- The maximum weight allowed for the tray is 2.5kg.
- Do not overload the tray; this could cause the tray to break or could cause the chair to become unstable.
- Always turn off the power to the controller before moving the tray out of the way.
- Do not leave lit cigarettes or other heat sources on the tray as this could cause the tray to deform and mark.
- Ensure that all extremities and clothing are free when positioning the tray for use.
- Ensure that you always have comfortable access to the controls whilst the chair is moving and make sure that there is nothing on the tray that could interfere with your control of the chair.

Fig. 10.2

10.6 Swing-away tray mounted centre control (R-net)
The swing-away tray mounted centre control enables the hand control to be flipped over, providing a flat surface when the tray is required and back around when the user requires access to the hand control

NOTE: All warnings for the flip up version are the same as the normal version (section 10.4 above) with the following additional warnings:

⚠WARNING!

- Make sure that the controller is turned off before it is flipped over

NOTE: Be aware that when the controller is flipped to the underside of the tray that driving will be inhibited for the user's safety.

Centre bar mount with R-net Control
Please refer to the R-net Owner's Manual for details of R-net hand control functions.

11.0 Speciality Controls

11.1 Proximity head array

⚠WARNINGS

- The sensors used in this product will operate if moisture of any substance that is electrically conductive is present in sufficient quantities.
- Electro magnetic interference from electrical power lines and certain types of phones will cause the sensors to activate.
- These sensors are capacitive in nature and any material that is conductive will activate them. These sensors are electronic sensors and generate an electronic field which can be affected by liquids and radio frequency interference.
- If the user is caught in the rain or some type of liquid is spilled on the sensor pad, the chair has a great potential to act erratically. Try to activate the stop sensor or shut the chair down if possible.
- Avoid use under high power lines and around cell phones which will interfere with the electronic field generated by the sensor.
- A warning must be conveyed to the wheelchair operator that the chair could come to a sudden stop or act in an erratic manner due to liquids or radio frequency interference (RFI).
- Most electronic equipment is influenced by (RFI). Caution should be exercised with regard to the use of portable communication equipment in the area around where the sensors are located in the head array. If RFI causes erratic behaviour, shut the wheelchair off immediately. Leave off while transmission is in progress.

11.2 Driving with the head array (Fig 11.1)
The head array uses 3 zero touch sensors for driving, one in each head pad.

The sensor in the centre of the headpiece controls forward and reverse.
Sensors in the right and left headpieces are for right and left directional motion respectively.

The fourth switch is your mode switch and it toggles the head array between forward and reverse and between driving the wheelchair and operating any ancillary devices, (such as powered seating or augmentative communications systems).

Fig. 11.1

Switching modes
A variety of mode switches are available. These can be divided into three types: internal, hardware mounted and external.

- Internal: mode in left pad or right pad
- Hardware mounted: beam switch
- External: fibre optic, button or mode jack 2. All mode switches perform the same tasks.
- Single click of the mode switch will toggle between forward and reverse.
- A double click of the mode switch will change the operating mode of the system. e.g. standby to drive to actuator etc.

For further details refer to the user manual supplied with your module or contact your Sunrise Medical authorised dealer.

11.3 Proportional head control

Operation of the head control (Fig 11.2).

1. The drive is based on displacement of the headrest. A small amount of pressure must be exerted on the headrest to generate results.
2. Neutral position is when the headrest is not displaced.
3. When the headrest moves right or left, the chair will move in the respective direction.
4. For forward or reverse the headrest needs to be displaced in a backwards direction. Use of the mode switch selects the direction of movement. This will be displayed on the enhanced display module.
5. The greater the displacement of the headrest from the neutral position the faster the chair will go.

For further details refer to the user manual supplied with your module or contact your Sunrise Medical authorised dealer.

Head Controls
Please refer to the R-net Owner's Manual for details of R-net hand control functions.

11.4 Sip and puff control and buddy buttons

WARNINGS

- Do not wrap the cable around the switch, wrap the cable separately
- Do not pull on the cable of the switch
- Do not overload your switch connection, adhere to maximum current ratings
- Do not immerse the switch in water
- Do not open or attempt to fix switch
- Do not use solvents to clean your switch, use only a damp cloth or alcohol. The pneumatic tube of the sip and puff can be sterilised in a gas autoclave
- Do not expose switch to extreme heat or cold

For further details refer to the user manual supplied with your module or contact your Sunrise Medical authorised dealer

Fig. 11.2

Fig. 11.3

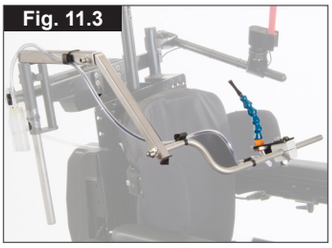
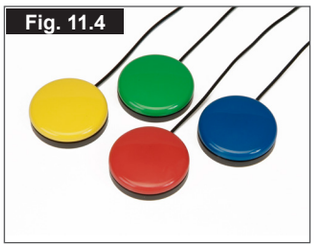


Fig. 11.4



Sip and puff (Fig 11.3). Piko buttons (Fig 11.4)

11.5 MicroGuide joystick as a chin control or hand control

The MicroGuide joysitck (Fig .11.5) is a small joystick which can be handled with little strength (~40 gr.) and little movement. The MicroGuide joysitck can be adjusted to the needs of the user via 2 extra handles. In combination with mounting kit it's possible to manipulate the mini joystick by finger, hand, tongue, chin, etc.

The joystick is completely protected against moisture, which makes it suitable to use outdoors and when the joystick isn't used for long periods a hood can be placed over it. This will give extra protection.

Fig. 11.5

11.6 Proportional chin control (Fig.11.6)
The proportional chin control must be used in conjunction with the Omni Plus module. This is to give visual feedback for the selection of drive profiles and seating options.

⚠**WARNING!**

- Do not replace the joystick knob with any unauthorised item. It may cause hazardous operation and loss of control of the chair.
- It is important that the joystick boot is replaced if it is torn or brittle; failing to do so could cause substance damage to the controller and unexpected movement of the chair.
- Ensure that you always have comfortable access to the controls whilst the chair is moving and make sure that the controller is fixed securely to the chair.

Fig. 11.6

11.7 MicroPilot Joystick
The Micro Pilot joystick is a miniature joystick based on a different technology than other mini “throw” based joysticks. As little as 10 grams of force with virtually no joystick deflection will activate the chair. All internal metal construction means outstanding durability, (Fig 11.7).

Fig. 11.7

R-net, Omni Plus control
Please refer to the R-net Owner’s Manual for details of R-net, Omni Plus control functions

12.0 Batteries and charging

⚠**WARNING!**

- Please read the owner’s manual with the charger supplied carefully. The general procedures and effects for the interference with the chair and the batteries remain valid.
- Do not expose any part of the battery to direct heat (i.e. naked flame, gas fire).
- When charging always place your charger on a hard surface in a room with good ventilation.
- You should not charge your batteries in outdoor conditions.

12.1 Batteries
The batteries are contained within the drive unit located under the battery shroud.
To remove the batteries first release the two handle screws under the front of the seat frame, (Fig.12.1), which connect the seat frame with the seat module interface.
Flip the seat frame backwards until the automatic lock pin clicks to secure it in place, (Fig.12.2). Ensure the seat is secure before letting go.
Lift off the battery box lid.
Disconnect the 2 pin Anderson connectors from each battery (Fig.12.3 and 12.4).
There are straps available on each battery to facilitate lifting them out. Remove the front battery first.

Fig. 12.1

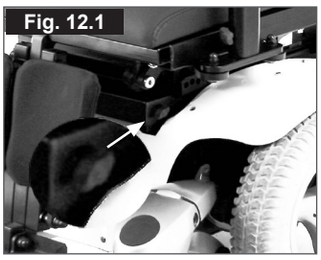


Fig. 12.2

Fig. 12.3

Fig. 12.4

To fit the batteries reverse the above procedure.

12.2 Safety cut-outs
In the event of a short circuit there are several safety systems built into your wheelchair to safeguard your electrical circuits, (Fig.12.7).

1. Fusible 100A links are connected into the battery harnesses to protect the batteries and wiring.
2. 15A auxiliary power circuit fuses for auxiliary modules and the Recaro seat power supply

To replace them contact your Sunrise Medical authorised dealer, who will also diagnose the fault.

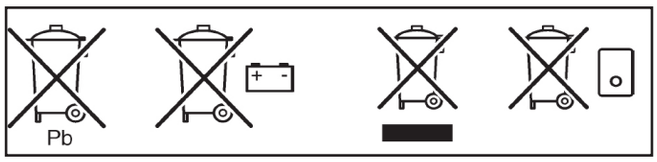
12.3 Common battery statements
Over the years, battery technology has moved forward but, unfortunately, some of the advice given on battery care has not. This has resulted in a number of confused and at times contradictory instructions on the 'best' way to care for your batteries.
This section will help to dispel some of these myths and legends.

Batteries are the power source for almost all of the modern mobility products available today. The design of batteries used in mobility products is significantly different to the batteries used to start a car for example. Car batteries are designed to release a large amount of power over a short period of time, whilst mobility batteries (commonly called deep cycle batteries) release their power evenly, over a long period of time. Therefore, due to the lower production volumes and increased technological requirements, mobility batteries are typically more expensive.

Commonly two 12 volt batteries are used together in a mobility product, giving a total voltage of 24 volts. The size of the battery (e.g. its available power) is expressed in amps per hour e.g. 70amp/hr. The higher the number, the bigger the battery size, weight and, potentially, the greater the distance you can travel. Sunrise Medical only fit as standard maintenance free batteries into these types of wheelchairs.

⚠CAUTION!

- Do not fit car batteries to the wheelchair. Fit only deep cycle, maintenance free mobility batteries.
- When the batteries are worn out, take them to the local authority disposal point.



12.4 Maintenance free batteries
This type of battery uses a method of carrying the electrolyte commonly referred to as 'gel', that is held within the battery case. As the name implies, no maintenance is required other than regular charging. You can safely transport this type of battery without fear of acid spilling. Furthermore, they are approved for transportation on aircraft, trains and ships.

12.5 Battery care
Below is set out a battery care plan for maintenance free batteries. This has been agreed between Sunrise Medical and the battery manufacturers, to enable you to get the best out of your batteries. If a different care plan is followed, this may result in lower than expected performance from your mobility vehicle.

12.6 Maintenance free battery care plan

⚠CAUTIONS!

1. Only use an approved Sunrise Medical charger compatible with the vehicle to be charged.
2. Charge your batteries every night, regardless of the amount of use your mobility device has had during the day.
3. Do not interrupt the charging cycle.
4. If your mobility device is not required for use, it should remain connected to the charger until required. This will not damage your batteries, as long as the mains socket/plug is left switched on. Turning the mains socket/plug off, but leaving the mains cable plugged in will eventually deplete your battery charge.
5. If you leave your vehicle for an extended period (more than 15 days) charge the batteries fully and then disconnect the main battery lead.
6. Failure to allow for recharge will damage the batteries and can lead to shortened distances and premature failure.
7. Do not top up the charge of your batteries during the day. Wait until the evening for a full overnight charge.
8. As a general rule, maintenance free batteries take longer to fully charge than “wet” lead acid batteries.
9. The battery terminals need to be checked regularly for signs of corrosion. If any corrosion is apparent, then clean the terminals completely and re-grease the terminal using Vaseline petroleum jelly, not ordinary grease. Ensure that the terminal nut and bolt, cable clip and exposed cable are completely covered with jelly.
10. Following all the points above should result in a healthier battery, greater range for the vehicle user and a longer life for your batteries.
11. Return the batteries back to Sunrise Medical or directly to the battery manufacturer for recycling, when they no longer hold charge.

12.7 General charger information

The external charger has been designed to charge two 12V Gel type batteries connected in series (= 24 V).

12.7.1 Charger safety features

The chargers have features which prevent hazards or accidents occurring as a result of connecting batteries the wrong way round, overheating caused by fault conditions or attempting to charge wrong voltage batteries.
The majority of charger sizes are electrically double insulated and no earth connection is required. Some larger sizes may be electrically earthed and this will be clearly stated on the label.
The 3 pin UK mains input plug contains a replaceable fuse. The rating of this fuse is shown on the charger label.

⚠DANGER!

- As with all mains powered electrical equipment, always replace blown fuses with the same type and size of fuse as specified.
- Fitting of different fuses can result in an increased fire risk, damage to the charger or failure of the charger to operate properly.

If your charger has been specified for use in Continental Europe it will contain a European two pin plug which does not have a fuse. In this case the fuse is located in the fascia panel of the charger.

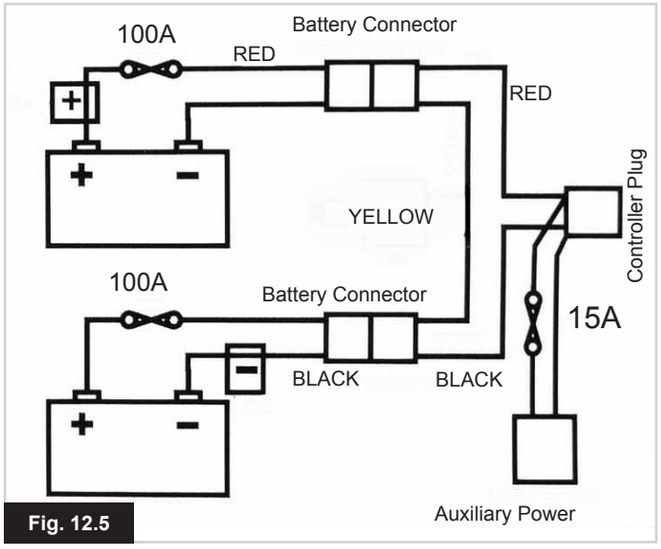


Fig. 12.5

12.7.2 Procedure for connecting the charger and charging

- Connect the battery charger round output plug to the charging socket on the front of the joystick module,
- (Fig. 12.6-12.8).
- Connect the charger to the mains supply by means of the mains plug and switch on.
- The GREEN light will flash to show power is on and the charger is initialising.
- The ORANGE light comes on to show that the batteries are charging.
- Flickering between ORANGE and GREEN shows that charge is almost complete.
- Solid GREEN indicates charge is complete.
-

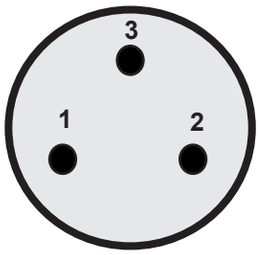
For more information about the charger operation, consult the instructions provided with the charger.

NOTE: If the charger is not connected to the wheelchair, it does not output charge voltage.
The charger may be used with other brands of Gel type batteries, subject to written confirmation from the Technical Department of Sunrise Medical.

Fig. 12.6

Fig. 12.7

Charging Socket



Pin 1 = Battery Positive
Pin 2 = Battery Negative
Pin 3 = Inhibit

⚠DANGER!

- An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of fire and electric shock.
- If any extension cord must be used, make sure the pins on the plug of the extension cord are the same number, size and shape as those of the plug on the charger; and that the extension cord is properly wired and in good electrical condition.

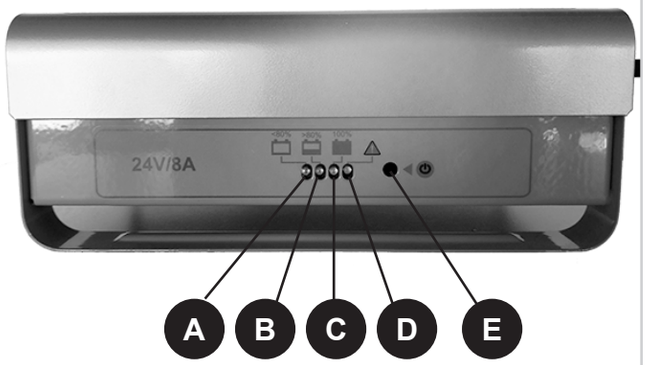
⚠WARNING!

- Always switch off at the mains before disconnecting the batteries.
- The charger is designed for indoor use. Do not use outdoors or expose to rain, snow, spray or moisture.

⚠CAUTION!

When buying replacement batteries or charger always consult your Sunrise Medical service agent. Do not leave the charger connected to the battery with the mains disconnected or switched off. This could result in damage to your battery being caused by deep discharge over a period of time.
To reduce the risk of damage to electric plug and cord, pull by the plug rather than the cord when disconnecting the charger.

Fig. 12.8



A. Charging, (less than 80% complete).
B. Charging, (more than 80% complete).
C. Charged (100%).
D. Fault. Switch off imediately.
E. ON when lit.

⚠WARNINGS!

- Make sure the cord is located so that it will not be stepped on, tripped over or otherwise subjected to damage or stress.
- Do not rest a battery on top of the charger.
- Do not stand the charger on a carpet or other soft surface. Always place it on a hard flat surface.
- Do not operate the charger if it has received a sharp blow, been dropped or otherwise damaged in any way. Take it to a qualified technician.
- Never place the charger directly above the battery being charged; gases from the battery will corrode and damage the charger.
- Never charge a frozen battery. A fully charged battery will rarely freeze but the electrolyte of a discharged battery can freeze
  at -9° Centigrade. Any battery that is suspected of being frozen should be thawed completely before charging.
- Never sit with the charger on your lap when charging your batteries
- The charger casing will get hot during its normal operation.
- Do not disassemble charger; only have it repaired by the manufacturers. Incorrect re-assembly may result in a risk of electric shock or fire.
- To reduce the risk of an electric shock, unplug the charger from the outlet before attempting any maintenance or cleaning. Turning off the controls will not reduce the risk.
- Never smoke or allow a spark or flame in the vicinity of battery or charger.
- Be extra cautious to reduce the risk of dropping a metal tool onto the battery. It could spark or short circuit the battery or other electrical parts that may cause an explosion. Also take off all personal metal effects and dangling objects when working on the battery.

12.8 The range of your vehicle

Please refer to the specification tables at the back of this manual for Energy Consumption, (Maximum Range), information.

Most manufacturers of mobility products state the range of their vehicles either in the sales literature or within the Owner's Manual. The range stated sometimes differs from manufacturer to manufacturer even though the battery size is the same. Sunrise Medical measure the range of their vehicles in a consistent and uniform manner, but variances still occur due to motor efficiencies and overall product load weight.

The range figures are calculated to I.S.O. Standard 7176. Part 4: Wheelchair Energy Consumption Theoretical Range

This test is carried out in controlled conditions with new, fully charged batteries, on a level test surface and a user weight of 100 kg. The range figures stated should be seen as a theoretical maximum and could be reduced if any single, or combination, of the following circumstances occur:

- User weight heavier than 100 kg.
- Batteries whose age and condition are less than perfect.
- The terrain is difficult e.g. very hilly, sloping, muddy ground, gravel, grass, snow and ice.
- The vehicle climbs kerbs regularly.
- The ambient temperature is very hot or very cold.
- Incorrect tyre pressures in one or more tyres.
- Lots of start/stop driving.
- Also thick pile carpets within the home can affect range.
- Use of additional power consumption options (e.g. light, actuators, etc.)

The battery sizes available on each Sunrise Medical product should give sufficient range to cope with the majority of customer's lifestyles.

12.9 Battery warranty

Battery warranties are subject to periods set by the manufacturers. However, most of these warranties are subject to a wear and tear clause, and if you genuinely wear out your batteries in 6 months, it will not be possible to obtain a replacement under warranty.

13.0 Transportation

A wheelchair secured in a vehicle will not provide the equivalent level of safety and security as a vehicle seating system. Sunrise Medical recommends that the user transfers to the vehicle seating and uses the vehicle-installed restraint system wherever possible. Sunrise Medical recognises that it is not always practical for the user to be transferred and in these circumstances, where the user must be transported whilst in the wheelchair, the following advice must be followed:

13.1 Transportation Warnings

⚠WARNING!

- Confirm that the vehicle is suitably equipped to transport a passenger in a wheelchair, and ensure the method of access/egress is suitable for your wheelchair type. The vehicle should have the floor strength to take the combined weight of the user, the wheel chair and accessories.
- Sufficient space should be available around the wheelchair to enable clear access to attach, tighten and release the wheelchair and occupant tie down restraints and safety belts.
- The occupied wheelchair must be located in a forward facing position and secured by the wheelchair tie down and occupant restraint straps (WTORS tie downs meeting the requirements of ISO 10542 Part 2 or SAE J2249) in accordance with the WTORS manufacturer's instructions. Refer to the section 'Tie Down Instructions' for further information on transporting your wheelchair.
- The wheelchair's use in other positions within a vehicle has not been tested e.g. transportation in a side facing position must not be carried out under any circumstances. (Fig 13.1).

⚠DANGER!

- Alterations or substitutions must not be made to the wheelchair securement points or to structural and frame or components without consulting the manufacturer. Failure to do so will invalidate the ability of the wheelchair to be transported within a vehicle.
- The wheelchair should be inspected by a Sunrise Medical authorised dealer before re-use following involvement in any type of vehicle impact.
- Both pelvic and upper torso restraint belts must be used to restrain the occupant (Fig 13.2) to reduce the possibility of head and chest impacts with the vehicle components.

NOTE: This wheelchair has been successfully crash tested with the Unwins headrest. Sunrise Medical recommends that you use a suitably positioned headrest when being transported in the wheelchair. However it is highly recommended that as a preference you transfer from your wheelchair to a seat within the motor vehicle.

⚠WARNING!

- Postural supports (lap straps, lap belts) should not be used or relied on for occupant restraint in a moving vehicle unless they are labelled as meeting the requirements specified in ISO 7176-19:2001 or SAE J2249.
- Spill proof sealed batteries such as "gelled electrolyte" must be installed on powered wheelchairs when used in a motor vehicle.

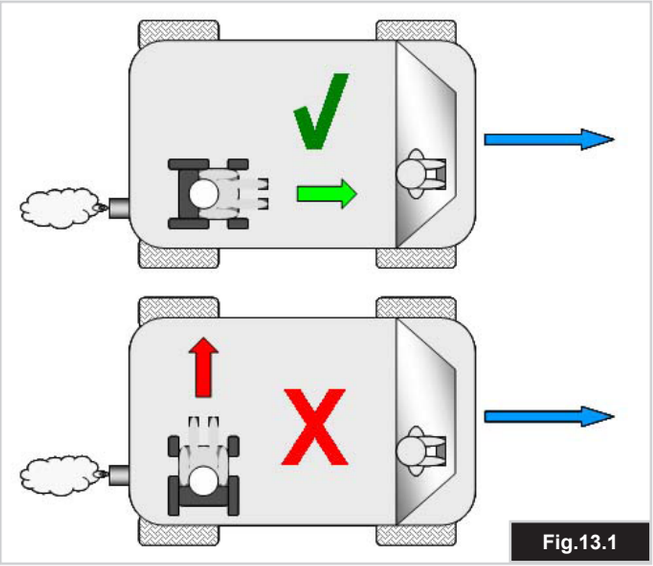
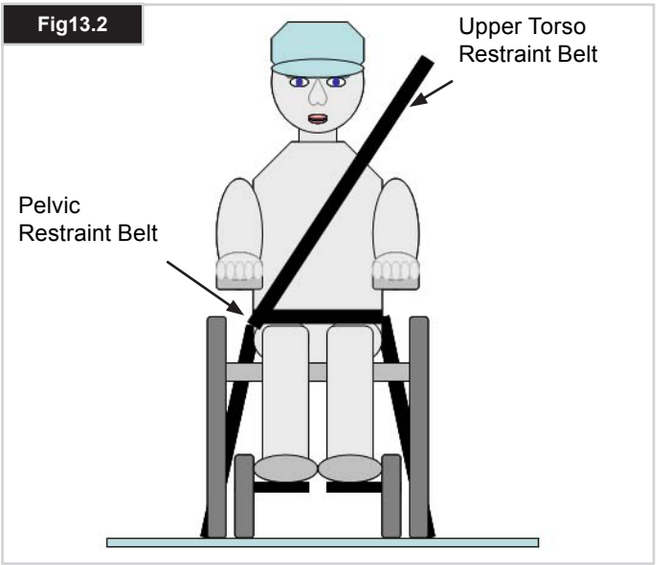


Fig.13.1

Fig13.2



Due to the weight of the Jive wheelchair it is always necessary to use a 6 strap tie down system, 4 straps at the rear of the wheelchair and 2 at the front.
A representative Jive Up wheelchair has been tested in accordance with the dynamic performance requirements specified in ISO 7176-19:2008 “Wheeled Mobility Devices for use in Motor Vehicles”.
The 6 point strap restraint system, 4 straps at the rear and 2 straps at the front, conforms to ISO 10542 or SAE J2249 and was used in accordance with the WTORS manufacturer’s instructions.
The Unwins TITAN 1 restraint system was used for these tests. However other 6 strap restraint systems may be used as long as they conform to ISO10542 or SAE J2249 and are used in accordance with the WTORS manufacturer’s instructions. They must also be checked to make sure that they are sufficiently specified for the weight of the wheelchair and rider

NOTE: In order to restrain the wheelchair effectively using a six point strap system please ensure that the tie down straps are correctly tensioned as per the WTORS manufacturers instructions

⚠DANGER!

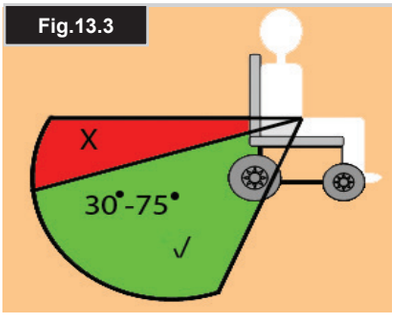
- The tie-down restraints should be fitted to the main frame of the wheelchair as indicated by the diagrams in this section. Positioning of Tie down Restraints on the Wheelchair, and not to any attachments or accessories, e.g. not around the spokes of wheels, brakes or footrests.
- The tie–down restraints should be attached as close as possible at an angle of 45 degrees and tightened securely in accordance with the manufacturer’s instructions.
- Alterations or substitutions must not be made to the wheelchair tie down points or to structural and frame or components without consulting the manufacturer. Failure to do so will invalidate the ability of a Sunrise Medical wheelchair to be transported within a vehicle.
- 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.13.2) The upper torso restraint belt should be mounted to the vehicle “B” pillar - failure to do so will increase the risk of serious abdominal injuries to the user.
- A head restraint suitable for transportation (see label on headrest) must be fitted and suitably positioned at all times during transportation.

⚠DANGER!

- The safety of the user during transportation depends upon the diligence of the person securing the tie down restraints and they should have received appropriate instructions and/or training in their use.
- Wherever possible remove and stow safely away from the wheelchair all auxiliary equipment, for example: Crutches, Loose cushions, Tray Tables, etc.
- Articulating/elevating leg rest should not be used in the elevated position when the wheelchair and user are being transported and the wheelchair is restrained using Wheelchair Transport and Occupant Restraints.
- Reclining backrests should be returned to an upright position.
- The manual brakes must be firmly applied.

13.2 User Weight Less Than 22 kg:
When the user being transported is a child, less than 22Kg mass and the vehicle involved has less than eight (8) seated passengers it is recommended that they be transferred to an UNCE Regulation 44 compliant child restraint system (CRS). This type of restraint system provides a more effective occupant restraint system than the conventional 3 point occupant restraint system and some CRS systems also include additional postural supports to assist in maintaining the position of the child when seated.
Parents or care providers may consider the option, in some circumstances, for their child is to remain in their wheelchair whilst in transport due to the level of posture control and comfort provided by the set up in the wheelchair.
We would recommend in such circumstances that a risk assessment be carried out by your healthcare professional and relevant competent persons.

Fig.13.3



13.3 Occupant Restraint Instruction:

- The pelvic restraint belt 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.
- A steeper (greater) angle within the preferred zone is desirable i.e. closer to, but never exceeding 75degrees. (Fig.13.3).
- The upper torso restraint belt must fit over the shoulder and across the chest as illustrated Fig 13.5.
- Restraint belts must be adjusted as tightly as possible consistent with user comfort.
- Restraint belt webbing must not be twisted when in use.
- Restraints should be mounted to the vehicle “B” pillar and should not be held away from the body by wheelchair components such as armrest or wheels, (Fig.13.4).
- The tie down symbol (Fig.13.6) on the wheelchair frame indicates the position of the wheelchair restraint straps. The straps are then tensioned after the front straps have been fitted to secure the wheelchair.

Fig.13.4

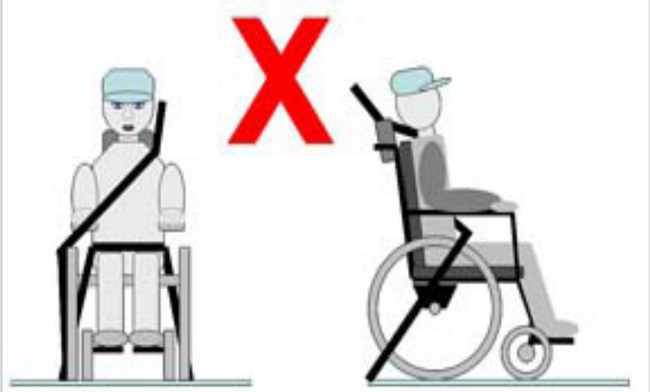


Fig.13.5

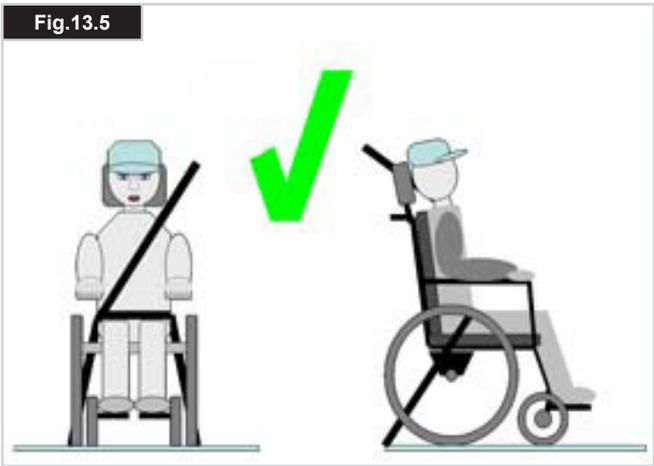


Fig.13.6

13.4 Positioning of the Tie Down Restraints:

Please refer to Frames, (13.7 - 13.9).

Forward Tie Down Brackets:

Fig.13.7

Rearward Tie Down Brackets:

Fig.13.8

Both Tie Down Brackets:

Fig.13.9

13.5 Using your Wheelchair on the train:
If you wish to use your wheelchair on the train, we recommend that you contact the train operator in advance when planning your journey. Railway carriages have provision for a “wheelchair” space where you can sit on your wheelchair during the journey.
When planning your journey, you should check with the train operator that there will be suitable boarding access available to allow you to access the railway carriage and the intended “wheelchair” space on joining and leaving the train and there is suitable access onto the platform. We recommend you check with the train operator that : The boarding access is suitable for the combined mass of your wheelchair and the occupant; the slope of the access is not greater than the maximum safe slope of the wheelchair; any steps or risers are no greater than the maximum height of the wheelchair obstacle climbing height; there is adequate turning space within the access area to the train and on the train.
Most train operators will provide assistance provided that arrangements have been made in advance. We suggest you have you Owner’s Manual ready when planning your journey and contacted them.

13.6 Other Transport requirements:
The wheelchair may be transported by road, rail, sea or air as luggage.
Before you travel, please contact the appropriate carrier or travel operator. You may be asked to provide certain information about the wheelchair such as the wheelchair mass and overall dimensions. This information can be found in the Technical Specifications in section 15.1.

If transporting the wheelchair by road as luggage, it may need to be secured to prevent unintended movement into other vehicle passengers in the event of a sudden stop or placed in a space reserved for luggage. Your wheelchair can be secured by attaching suitable restraints to the front and rear tie down points as shown previously

⚠**WARNING!**

Do not sit in your wheelchair when it is transported as luggage only.

13.7 Special shipping requirements:
The wheelchair may be transported by road, rail, sea or air and the batteries conform to IATA regulations.

⚠**CAUTION!**

Before you travel, please contact the appropriate carrier. The travel operator will be able to supply details of any special requirements/instructions.

Ensure that any detachable parts are secured with your mobility aid or separately packed and labelled so they do not get lost during loading and unloading.
Take this Owner’s Manual with you and if fitted take the R-net Owner’s Manual also.
The carrier will need to refer to the following sections.
How to lock/unlock the Joystick, (Section 7.3), (Section 4.32 R-Net Owners Manual).
How to disconnect the batteries, (Section 12.1).
How to disconnect the drive, (Section 5.4).

13.8 Medium to long term storage:
When storing your wheelchair for long periods of time (in excess of one week), follow these simple instructions:

Fully charge the wheelchair for at least 24 hours.
Disconnect the batteries or battery boxes.

⚠**WARNING!**

- Never store your wheelchair;
- Outside.
- In direct sunlight, (plastic parts may discolour).
- Near a source of direct heat.
- In a damp environment.
- In a cold environment.
- With the batteries/battery boxes connected, (even if the controller is switched off).

Avoiding all of the above will minimise battery deep cycle discharge and extend battery lifetime.
When returning the wheelchair to use, please reconnect the batteries/battery boxes and charge the wheelchair for at least 24 hours before use.

14.0 Maintenance and Cleaning

⚠**CAUTION!**

It is important that you follow the following cleaning and maintenance schedule in order to keep your wheelchair in tip top condition.

14.1 Tyre maintenance and pressures

14.1.1 Tyre pressure

⚠**CAUTION!**

If pneumatic tyres are fitted to your wheelchair it is important to regularly check the air pressure and for signs of wear.
The correct pressures are between the minimum of 137 kiloPascals (20 psi, 1.37 bar) and the maximum 241 kiloPascals (35 psi, 2.41 bar) for rear and front wheels (see side of tyre).
The pressure will need to vary, depending on the weight of the user.

NOTE: It is important that front wheels are inflated to equal pressures as a pair, and likewise the rear. The inflator pump provides the safest method of inflating your wheelchair tyres and the pressure can be checked with a standard motor vehicle pressure gauge.

⚠**DANGER!**

- Do not inflate beyond the maximum allowed tyre pressure.
- Always use the pump that is supplied with the chair,
- Never use a forecourt pump

14.1.2 Tyre wear

When inspecting the tyres for signs of wear, look for significant scuff marks, cuts and a diminished tyre tread. Tyres will need to be changed when the tread cannot be seen over the complete surface of the tyre, (Fig.14.1).

Fig. 14.1

14.1.3 Drive wheel tyre repair

To remove the wheel/tyre:
Please see below and next page for photographs.

- Use a 8.0 mm hex key to loosen the 3-Socket studs, (Fig. 14.2).
- Jack the wheel up and support it using blocks,
- (Fig. 14.3).
- Remove the 3 studs and pull the wheel away from the hub.
- Remove the valve cap and let the air out of the tyre by gently pressing the valve stem with a small screw driver, (Fig. 14.4).
- There are 6 rim studs that must be loosened/tightened in the number order shown, (Fig.14.5).
- Use a 5.0 mm Allen key to release/tighten the studs. (Fig. 14.5) .
- Lift the inner rim off the tyre wall (Fig. 14.6).
- Lift the tyre and tube off the outer rim, (Fig.14.7).
- Gently get a hold of the inner tube just behind the valve.
- Carefully feed the tube out of the tyre, (fig.14.8).
- Ensure all parts are clean before reassembling, (Fig.14.9).

To refit

- Place the tube inside the tyre and rest the tyre on the outer rim.
- Align the valve stem with the cut out in the rim.
- Face the valve stem outward.
- Place the inner rim over the tyre, tube and outer rim.
- Align the cut out to fit over the valve stem and match it up to the cut out in the outer rim, (Fig.14.10).
- Make sure the stud mounts are in line on both rims.
- Tighten the studs in the sequence shown in Fig.14.5, taking care not to pinch the tube.
- Slowly inflate to the pressures quoted in section 14.1.1 .
- Refit the wheel back onto the motor shaft and fix it safely with the 3 studs to a torque of 47Nm.

For solid tyres the sequence is the same, just discount the references to the inner tube and valve.

Fig. 14.3

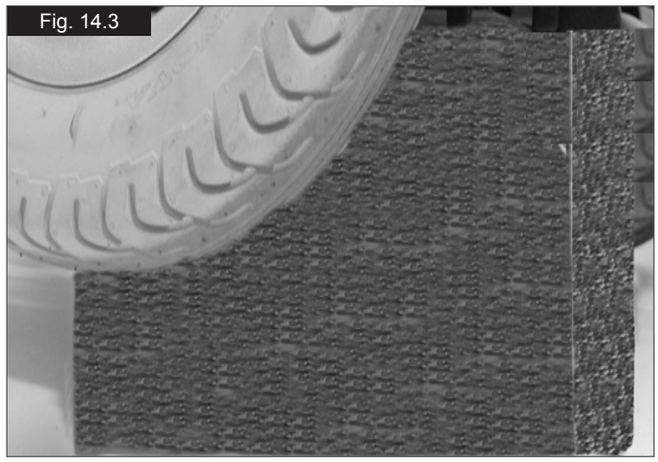


Fig. 14.4

Fig. 14.5

Fig. 14.2

Fig. 14.6

Fig. 14.7

Fig. 14.8

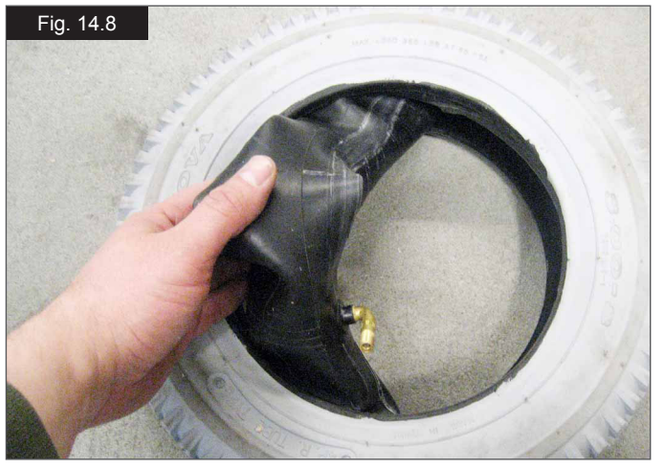


Fig. 14.9

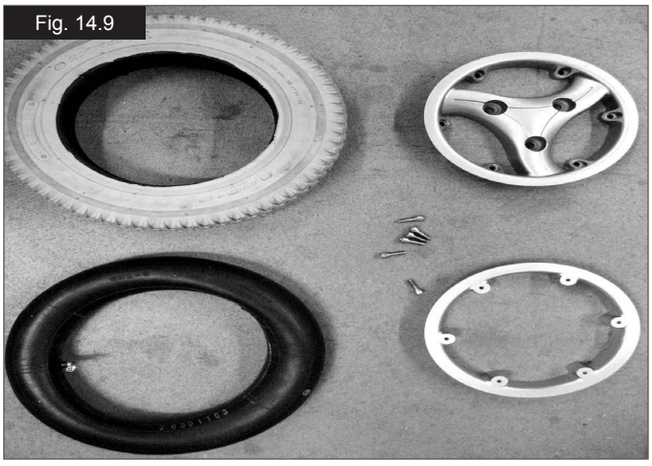
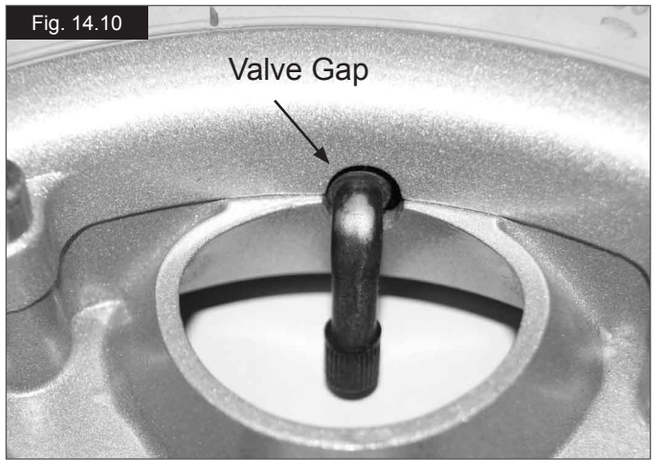


Fig. 14.10



14.2 Removing the castor wheels.

- Use a 13.0 mm spanner/socket to undo the axle bolt, (Fig.14.11).
- Remove the nyloc nut, (Fig.14.12).

Refitting:

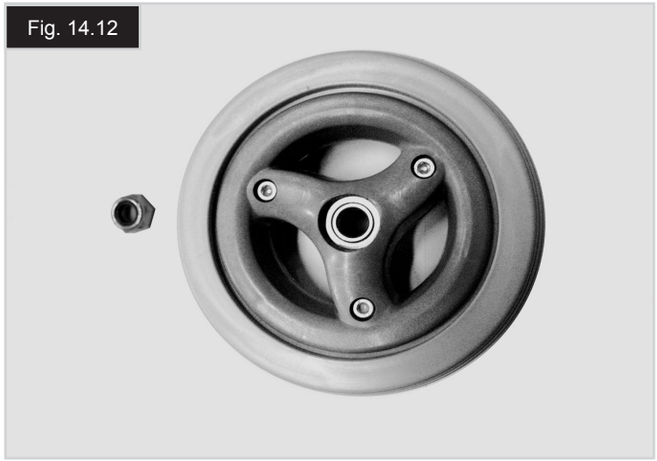
When refitting do not try to force the bolt through. Gently move the wheel back and forth until the bolt slips through.

⚠WARNING!

Always use a new nyloc nut when refitting.

Fig. 14.11

Fig. 14.12



14.4 Cleaning and your wheelchair
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 motors should be blown or dusted away.

⚠CAUTION!

- Make sure 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 atmosphere.

⚠WARNING!

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

14.4.1 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:
You can wash all parts of the covers with a gentle-wash detergent at 40°C. You can spin-dry the covers, but do not dry them in a dryer. You can 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 however disinfectants may be used in dilution as specified by their manufacturer. Ensure surfaces are rinsed well with clean water and dried thoroughly.

Cleaning instructions for Jay/Jay Comfort seating:
Clean regularly to prevent build up or soiling. Clean with a damp soapy cloth and rinse well with clean water. Dry the surface thoroughly. A soft brush with soapy water may be used to remove stubborn dirt. Ensure surfaces are then rinsed and dried.
Some chemical colourings, e.g. ball point pen, food colourings or clothes dyes should be removed immediately to prevent long term staining.

Hygiene measures when being re-used:
Prior to the wheelchair being re-used, it must be carefully prepared. All surfaces which come into contact with the user must be treated with a disinfection spray.
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!

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

Cleaning instructions for all and Recaro

⚠CAUTION!

- You should remove stains on your seat as soon as possible.
- After a long period of use, you should clean the cover of your seat with a standard commercially available dry foam cleaning agent.
- 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.
- Avoid powerful rubbing with aqueous solutions. This will roughen up cover fabric.
- Dirt stains (eg. beer, blood, cola, red wine etc) are best removed with the dry foam cleaning agents or with a mild-action detergent.
- Please follow the respective instructions for use when treating the covers.
- The covers should be allowed to dry for at least 48 hours after cleaning with foam cleaning agents.
- Grease stains (eg. ballpoint 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.
- Use only a very small quantity of stain remover.
- Test a small inconspicuous area first.
- The upholstery material must not be saturated, since the stain remover might then attack it and destroy it.
- Do not use a hose or a pressure washer to clean your chair.

⚠WARNING!

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

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

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

⚠WARNING!

This is important should the wheelchair be used by more than one person to ensure there is no cross infection.

Speciality controls

⚠WARNING!

- 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 infection possibilities. Following removal from chair regularly wash the sip and puff mouth piece and tube to maintain cleanliness and functionality.
- Ensure control is switched off before cleaning.

14.5 Lighting maintenance

⚠WARNING!

Maintaining lights and indicators is a safety critical task. If your lights and indicator system shows a defect, please contact your Sunrise Medical Approved Dealer.

All lights and indicators are state of the art LED low energy, no maintenance units. There are no light bulbs used. The high intrinsic reliability of these units means that they are extremely unlikely to fail under normal usage. If a failure should occur, (may be as a result of an impact), the damaged light assembly must be replaced in its entirety. The individual LED's cannot be replaced.

⚠CAUTION!

We recommend the use of Sunrise Medical authorised spare parts only.

NOTE: Be advised that all lighting circuits are electronically protected. In the event of a short circuit current will be limited to a safe level. Once the fault is removed the system resets automatically.

14.6 Electrical connections
When inspecting electrical connections, pay attention to the battery connections, the connection of batteries to power loom and plug in sockets for the joystick, control box and lights and indicators.

14.7 How to connect the cables to the batteries

⚠WARNING!

If you are in any doubt about performing any maintenance on your wheelchair, please contact your Sunrise Medical authorised dealer.

Parts in the battery box:
- Two 12v Deep Cycle Mobility Batteries.
- Two Fused Battery Loom Assemblies.
- One Power Loom
-

⚠WARNING!

- Before connecting the batteries it is very important to identify the correct connection for each battery terminal. Failure to do this may result in the wheelchair not functioning or possibly a blown fuse.
- Connect all battery terminals before connecting the plugs.
- After connecting battery terminals and connectors ensure all wiring is tidy and can not get entangled in any moving parts and the rubber covers fit fully over the battery terminals.
-

NOTE: After connection of the batteries wait 2 minutes for the system to reset, before switching on the control system. This reset time is required every time the batteries are disconnected.

Connecting / Disconnecting the Batteries:
(Fig.14.19 - 14.24 Next page).

- Undo the two seat interface screws, (Section 12.1).
- Flip the seat frame backwards until the automatic lock pin clicks to secure it in place. Ensure the seat is secure before letting go, (Fig.14.19).
- Lift off the battery box lid, (Fig.14.19).
- The Front battery has RED to Positive (+) & BLACK to negative (-). (Fig.14.20 - 14.21).
- The Rear battery has RED to Positive (+) & BLACK to negative (-). (Fig.14.20 - 14.21).
- Connect the GREY plugs to the power loom, (Fig.14.22 - 14.23).

⚠WARNING!

Ensure the two seat interface screws are fully tightened before using the wheelchair, (Section 12.1, Fig.12.1).

Fig. 14.19

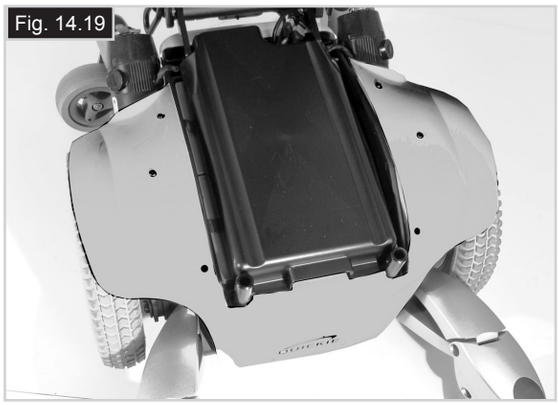


Fig. 14.20

Fig. 14.21

Fig. 14.22

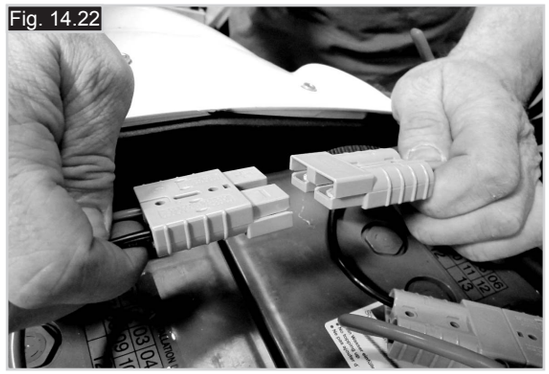


Fig. 14.23

Fig.14.24

Fig.14.25

14.8 Controller access

For the Jive Up please follow the “battery access instruction in section 12. This also gives access to the Motor Control Module (Fig. 14.24) on Jive F.

To access the controller on the Jive Uptake the rear shroud on the base between the rear castor wheels off. (Fig. 14.25).

For further information please contact your Sunrise Medical authorised dealer.

14.9 Storage
When storing your powerchair for long periods of time (in excess of one week) first fully charge, and then disconnect the batteries, to minimise battery discharge.

⚠WARNING!

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

14.10 Authorised Sunrise Medical service agents
The annual full service must be performed by an approved Sunrise Medical authorised dealer. For a list of approved authorised dealers in your area please contact Sunrise Medical Service Centre:

Sunrise Medical
Thorns Road
Brierley Hill
West Midlands
DY5 2LD
England
Phone: 0845 605 66 88
Fax: 0845 605 66 89
www.SunriseMedical.co.uk

14.11 Recommended maintenance routines

Tools required:

- Battery charger
- Tyre pump
- Cleaning cloth and dilute disinfectant
- Wire brush
- Petroleum jelly

⚠WARNING!

If in any doubt about performing any maintenance on your wheelchair, contact your Sunrise Medical authorised dealer.

Daily checks:
- With the control system switched off, check that the joystick is not bent or damaged and that it returns to the centre when you push and release it.
- Visually inspect the wheelchair to make sure the legrests, armrests etc are correctly positioned and attached to the wheelchair and all fasteners are sufficiently tightened.
- Make sure that the backrest is correctly fitted and adjusted.
- Ensure that the seat interface knobs are tight and secure.
- Make sure that all of the cushions are in place.

Weekly checks:

Parking brake:
This test should be carried out on a level floor with at least one metre clearance all around the chair.

- Switch on the control system.
- Check that the battery gauge remains on, or flashes slowly, after one second.
- Push the joystick slowly forwards until you hear the parking brakes operate.
- The chair may start to move.
- Immediately release the joystick. You must be able to hear each parking brake operate, (click), within a few seconds.
- Repeat the test a further 3 times, pushing the joystick slowly backwards, left and right.

Connectors:
Make sure that all connectors are securely mated.

Cables:
Check the condition of all cables and connectors for damage.

Joystick gaiter:
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.

Mounting:
Make sure that all components of the control system are securely mounted. Do not over-tighten any securing screws.

Please refer to Service manual for any information about Torques**.**

- Switch on the hand control – Do the lights flash? This signifies that there is a fault in the electronic system. Refer to section 8 for basic troubleshooting
- Operate all of the electric options, including lights and indicators, (if fitted), to make sure that they work correctly.
- With the seating in an elevated position, drive the wheelchair to make sure that the ‘creep’ mode works which will slow the wheelchair.
- Drive the wheelchair in each of the drive profiles to make sure the wheelchair performs as it did before.

NOTE: See maitenance and Inspection Schedule on the next page.

⚠WARNING!

- If you are in any doubt about the performance requirements of your wheelchair contact your Sunrise Medical authorised dealer.
- After performing any maintenance or repairs on the wheelchair you must make sure that it is functioning correctly before it is used.
- A complete inspection, safety check and service should be made by a Sunrise Medical authorised dealer at least once per year.
- All fasteners must be replaced like for like using the correct length, tensile strength and materials.
- 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 fastener.
- Check all Velcro fastening straps for correct adhesion when pressed together.
- Ensure that any contamination, such as fluff, hair,etc is removed from the Velcro straps. Such contamination may affect adhesion.

Maintenance & Inspection Schedule	Daily *	Weekly	Monthly	Quarterly	Annually
Check battery level indicator and charge if necessary	✵				
Check the joystick of the hand control is not bent or damaged	✵				
Ensure all parts and assemblies are securely fastened	✵				
Checkanterior pelvic support for wear and make sure the buckle is operational	✵				
Motor Brake Test	✵				
Check tyre condition and wheel fasteners.	✵				
Ensure lights and indicators, (where fitted), are operational and clean	✵				
Ensure all cables and connectors are sound and are tidy and out of the way	✵				
Check upholstery, seating, headrests, arm pads and calf pads for wear.	✵				
Inspect all nuts, bolts, studs and fasteners for damage and tightness. Contact your authorised dealer for service assistance.	✵				
Clean wheelchair upholstery		✵			
Check Front Castor Arms Safety Lock for correct operation.			✵		
Check battery terminals for tightness etc.				✵	
Complete inspection, safety check and service should be made by a Sunrise Medical authorised dealer					✵

* Daily = Before each use of the wheelchair.

15.0 Specification sheets (EN 12184 & ISO 7176-15)

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Fax: +49 (0) 7253/980-222
kundenservice@sunrisemedical.de
www.SunriseMedical.de

Operating temperature: -25°C to 50°C
Storage temperature: -40°C to 65°C
Moisture resistance: IPX4
No restrictions on humidity and air pressure.

15.1 Model: Quickie Jive Up

Maximum occupant mass (test dummy mass): 120 kg

The wheelchair Quickie Jive Up conforms to the following standards:

a) requirements and test methods for static, impact and fatigue strengths (ISO 7176-8)

b) power and control systems for electric wheelchairs — requirements and test methods (ISO 7176-14)

c) climatic test in accordance with ISO 7176-9

d) requirements for resistance to ignition in accordance with ISO 7176-16

ISO 7176-15	Min	Max	Comments
Overall length (with legrest)	1070 mm	1130 mm	With 50mm leg extesions fitted
Overall width	622 mm	660 mm	Without lights and with lights
Folded length	N/A	N/A	Not a folding chair
Folded height	N/A	N/A	Not a folding chair
Total mass (with batteries)	160 kg	180 kg	Min = Lightest chair with no seat module fitted. Max = Heaviest chair configuration
Mass of the heaviest part		23,5 kg	Heaviest removable part
Static stability downhill	8°	25°	0° / 0° recline & max. seat height. Not with Balle unit
Static stability uphill	19°	25°	9° / 12° recline & max. seat height. Not with Balle unit
Static stability sideways	14°	21°	0° / 0° recline & max. seat height
Energy consumption (Max Range)		35 km	Depending on terrain, speed and user weight
Dynamic stability uphill		10°	
Obstacle climbing		100 mm	100 kg (75 mm at 160 kg)
Maximum speed forward	6 km/h	13 km/h	
Minimum braking distance from max speed		3.1m	Dependant on programming
Seat plane angle	0°	22°	
Effective seat depth	400 mm	520mm	
Effective seat width	400 mm	500 mm	
Seat surface height at front edge	460 mm	480 mm	With a 0° seat angle
Backrest angle	0°	85°	Powered
Backrest height	560mm	700mm	Depends on option chosen and length of back posts
Footrest to seat distance	400 mm	500 mm	
Leg to seat surface angle	5°	90°	
Armrest to seat distance	210mm	300mm	Using Standard Cushion
Front location of armrest structure	260mm	560mm	
Handrim diameter	N/A	N/A	Not a manual chair
Horizontal location of axle	N/A	N/A	Not a manual chair
Minimum turning radius	560 mm	630 mm	
Mass of the test dummy		120kg	
EN 12184	**MIN**	**MAX**	**Comments**
Maximum kerb height		100mm	
Ground clearance		90 mm	
Turning space		1100 mm	
Reversing width		1000 mm	
Speed control operation force		1,5 N	
Direction control operation force		1,5 N	
Pressure switch range	-6,9 kPa	+6,9 kPa	Relative to atmospheric (-1.0 to +1.0 PSI)
Pressure switches operation force (puff)	N/A	N/A	Programmable
Pressure switches operation force (sip)	N/A	N/A	Programmable
Pressure resolution	0.1		
Pressure Barb size (OD)	0,15 Inches		

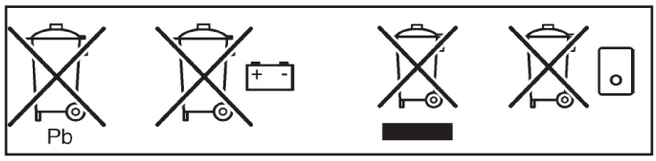
16.0 Service History

This section is designed to assist you in keeping a record of any service and repairs to your wheelchair. Should you decide to sell or exchange your vehicle in the future, this will prove most helpful to you. Your Service Agent will also benefit from a documented record and this manual should accompany the wheelchair when service or repair work is carried out. The Service Agent will complete this section and return the manual to you. All our wheelchairs, wheelchairs and power chairs undergo rigorous tests to ensure that they meet our requirements of comfort, safety and durability.
Our success is based on the strong traditions of quality, value for money and genuinely caring for our customers. We pride ourselves not only on designing and building the most innovative products but also on our commitment to offer an excellent standard of customer service both during and after sale.

17.0 Disposal

The symbols below mean that in accordance with local laws and regulations your product should be disposed of separately from household waste. When this product reaches the end of its life, take it to the local collection point designated by local authorities. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled 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 and national requirements.



Model						**Serial No**				
Year	1	2	3	4		Year	1	2	3	4
Date						Date				
Controller						**Chassis**				
On/Off switch						Condition				
Output plug						Steering				
Joystick						Upholstery				
Brakes						Seat				
Programmable configuration						Backrest				
Batteries						Armrests				
Level						Electrics				
Connections						Condition of loom				
Discharge level						Connections				
Wheels						**Test run**				
Wear						Forwards				
Pressure						Reverse				
Bearings						Emergency stop				
Wheel nuts						Left turn				
Motors						Right turn				
Wiring						Up/Down slope				
Connections						Over obstacles				
Noise						Parking brake				
Brakes						NOTE: Only use Sunrise Medical parts for service and repairs				
Brushes										

Dealer signature and stamp:

Dealer signature and stamp:

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Fax: +39 0523 570060
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