

QUICKIE SALSA

Directions for use

QUICKIE

INNOVATE." BUILD FOR THE FUTURE

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Your Wheelchair

We at Sunrise Medical want you to get the best out of your Salsa 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 assembled for your use; there are a wide range of components and adjustments available on the Salsa. For further information about these you should contact your Sunrise Medical authorised dealer.

Your wheelchair will reach you in excellent condition having been individually 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 Salsa 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 up to the weight of 140Kg (dependent on options chosen for your chair) who has the cognitive, physical and visual ability to control the vehicle safely on a maximum slope of 16% (9°). 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. Contact 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 Sunrise Medical authorised dealer. If you do not know of an authorised dealer in your area or have any other questions please write or telephone:

Sunrise Medical LTD. Sunrise Business Park High Street, Wollaston West Midlands DY8 4PS England

Phone: +44 (0) 1384 44 66 88 Fax: +44 (0) 1384 44 66 99

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

This product is manufactured to comply with Medical Device Directive 93/42/EEC.

Dealer signature and stamp

How to use this manual

Introduction

Please keep a note of your local authorised dealer 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.

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 IN NO WAY AFFECTS YOUR STATUTORY RIGHTS.

2.3 Warranty conditions

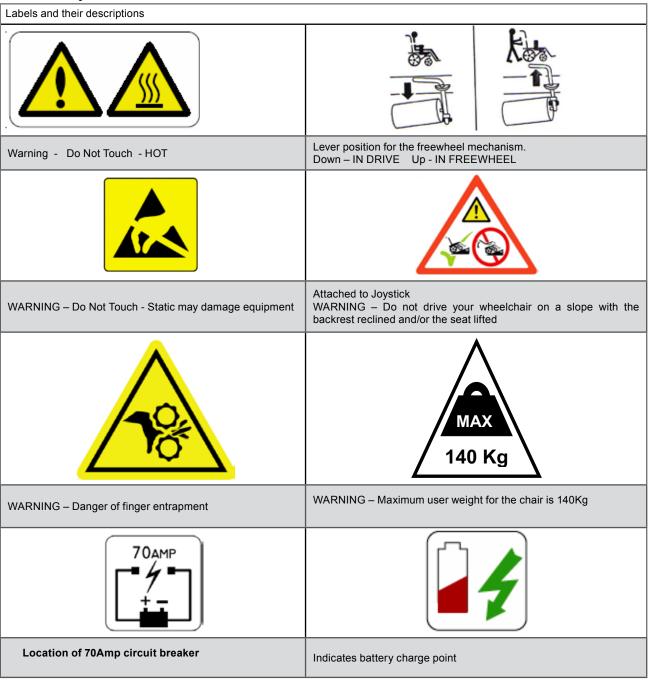
- 1) The repair or replacement will be carried out by an authorised Sunrise Medical dealer/service agent.
- 2) To apply the warranty conditions, should your wheelchair require attention under these arrangements, notify the designated Sunrise Medical service agent immediately giving full information about the nature of the difficulty. Should you be operating the wheelchair away from the locality of the designated Sunrise Medical service agent, work under the "Warranty Conditions" will be carried out by any other service agent designated by the manufacturer.
- 3) Should any part of the wheelchair require repair or replacement, as a result of a specific manufacturing or material defect, within twenty four months from the date on which the possession of the wheelchair was transferred to the original purchaser, and subject to it remaining within that ownership, the part or parts will be repaired or replaced completely free of charge if returned to the authorised service agent.
- 4) Any repaired or replaced part will benefit from these arrangements for the balance of the warranty period applicable to the wheelchair.
- 5) Parts replaced after the original warranty has expired are covered for a further twelve months.
- 6) Items of a consumable nature will not generally be covered during the normal warranty period, unless such items have clearly suffered undue wear as a direct result of an original manufacturing defect. These items include amongst others upholstery, tyres, inner tubes and similar parts. On powered products this will also include batteries, motor brushes etc
- 7) The above warranty conditions apply to all wheelchair parts for models purchased at full retail price.
- 8) Under normal circumstances, no responsibility will be accepted where the wheelchair has required repair or replacement as a direct result of:
 - a) The wheelchair or part not having been maintained or serviced in accordance with the manufacturer's recommendations, as stated in the Owner's Manual and/or Service Manual. Or failing to use only the specified original equipment parts.
 - b) The wheelchair or part having been damaged by neglect, accident or improper use.
 - c) The wheelchair or part having been altered from the manufacturer's specifications, or repairs having been attempted prior to the service agent being notified.

3 Label explanations / Word definitions

3.1 Definitions of words used in this manual

Word	Definition
Warning	Advice to the user of a potential risk of injury if the advice is not followed
Note	General advice or best practice

3.2 Label explanations



Labels and their descriptions ALWAYS CHARGE BATTERIES IN WELL VENTILATED AREA, AWAY FROM SPARKS AND FLAME. PHOW SPARKS AND FLAME. • NEVER ALTER WRIND OR BATTERY BOX. • NEVER ALLOW TOOLS TO MAKE CONTACT ACROSS TERMINALS. • NEVER USE BATTERES OR CLAMPS WITH WIND NUT TERMINALS. OR CLAMPS THAT EXCELD TERMINAL FOST HEIGHT. Battery Label – Warning Instructions and Circuit Diagram **Back Rest Recline** Seat Lift Seat Tilt in Space Left Leg Rest Right Leg Rest **Both Leg Rests** Do not disengage free wheel whilst on a slope Ensure drive is engaged before starting off.

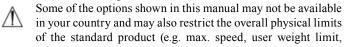
4 General safety warning and user tips



4.1 General warnings

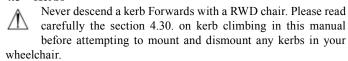
- Always ensure that your wheelchair is switched off before attempting to mount or dismount.
- Always ensure that you are able to operate all controls from a comfortable position. Paying attention to your posture is essential to ensure your continued comfort and well being.
- Always make sure that you 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.

4.2 Features and options



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



Do not attempt to climb or descend a series of steps. It is unsafe to do so and could cause personal injury or damage the chair. The Salsa has only been designed to climb a single step or kerb.

4.4 Routine service



The recommended service interval is one year. (See service history table in section 14).

4.5 Emergency freewheel

Please remember that you have no braking facility when the freewheel levers are moved from the normal drive position to the freewheel position (Fig. 1 and Fig. 2). 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.





4.6 EMC - Radio transmitting devices.

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.

4.7 Emergency braking

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

4.8 Sharp turns

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

4.9 Batteries

tipping over.



Your wheelchair is supplied as standard from Sunrise Medical with maintenance-free batteries. These only require regular charging. Before charging, please read section 10 in this manual.

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

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

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) / 60 Ah/20h. Maintenance free

Dimensions: 197 x 165 x 197 mm.

Connector: 3 pins "Neutrik" type

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.

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

<u>^4</u>

4.11 Weight limit

- The user plus items carried should never exceed a total weight of 140Kg
- Never use this chair for weight training if the total weight (user plus additional weights) exceeds a total weight of 140Kg
- 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. Do not touch the motors' outer casing for at least 30 minutes after using the wheelchair, to allow it to cool. (Fig. 3)



4.13 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.

4.14 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. 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 11.12. 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. 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.

4.15 Road caution

Please show the utmost consideration for the other traffic on the road. 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.

4.16 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. We recommend you take extra precautions in these conditions, particularly on hills and slopes; your wheelchair could become unstable or skid causing possible injury. 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 chair.

Ramps

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.

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

4.18 Transfer to and from the chair



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.

Note: Ensure controller is switched off during transfers to avoid unintentional movement.

4.19 Lift and tilt modules



Please be aware that the lift and tilt modules present a trap hazard. Make sure that when operating the tilt and lift it is free from all clothing, hands, feet and other extremities to prevent injury.

Do not drive on ramps or slopes with the seat tilted, reclined or raised. Before attempting to climb or descend a slope, return to an upright

4.20 Anti-tips

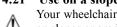


Make sure that anti-tips are not damaged or worn before using

Attendants must be aware of the location of the anti-tips to prevent feet being trapped underneath causing injury

Attendants - Do not stand on the anti-tips, this could cause the wheelchair to become unstable.

4.21 Use on a slope



Your wheelchair has been designed and tested to allow its use on slopes or gradients of up to 9° (16%). However, you have the option of adjusting your seating position with either a lift, tilt or recline or a combination of these options, then 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 tilt or recline) 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 tilt and/or recline the seat backwards.

We strongly recommend that you return the seat and back to an upright lowered 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.

4.21.1 Gradients: ascents



When going uphill, keep the chair moving. Steer by moving the joystick from side to side. If you have stopped on a hill, you should start slowly. If necessary lean forward to prevent the tendency for the front wheels to lift.

4.21.2 Gradients: descents

On descents, it is important not to let the wheelchair accelerate beyond its normal level of ground speed. In fact, it is safer to 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 control to slow it or to stop all forward movement, then restart slowly and do not allow the speed to increase. 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.

4.22 Using a vehicle mounted passenger lift



Wheelchair lifts are used in vans, buses and buildings to help you move from one level to another. 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).

4.23 Creep mode



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

angle exceeds 9° the chair will the chair will automatically convert into "creep mode" which will allow you a maximum of 10% of the speed programmed in the profile.

WARNING - If you have a manual recline backrest on your wheelchair, please be aware that there will be no feedback system to the controller that tells it that the seat is in a reclined position. If you recline your backrest and attempt to drive, it will not go into 'creep mode', it will instead drive at full speed. This is especially dangerous when attempting to drive up a slope.

4.24 Stability of your wheelchair



Please follow the user instructions in this manual regarding the use of seat lift and tilt modules and the use of your chair on a slope, 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 pavements
- 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

4.25 Wheels



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 12 of this manual.

Pneumatic Tyres with OKO fluid.

The OKO fluid is only meant as a temporary repair to the tyre. It must be replaced or repaired as soon as possible.

The OKO fluid is classified as non hazardous but may cause irritation to the skin with prolonged contact.

First Aid measures for OKO fluid

Skin - Wash skin with plenty of water

Eyes - Immediately flood the eye with plenty of water for at least 5 minutes holding the eye open.

Ingestion - Drink lots of water - Seek medical attention immediately.

4.26 Rear view mirror



To avoid injury to people around you please be aware that the mirror protudes 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.

4.27 Crutch holder



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.

4.28 Lights and indicators



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

Lights assembly can become very hot - Care must be taken if removing them for repair.

4.29 Swing away tray



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.

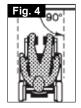
Ensure that all extremities and clothing are free when positioning the tray for use.

4.30 Using a kerb climber

4.30.1 Mounting a kerb or step (Fig 6)

Always approach a kerb at 90° (Fig 4 & Fig 5)

- Approach the kerb (step) head on driving forwards slowly and steadily and always at a 90° angle.
- As the kerb climber or castor makes contact with the kerb (step), the wheelchair should be moving slowly. Small kerbs can be climbed from a standstill.



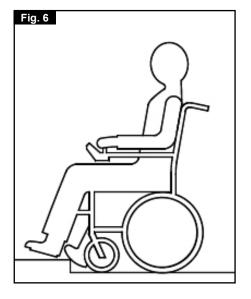


- Apply sufficient power to the motors to lift the front of the chair
 up onto the kerb (step) and then apply slightly more power and
 speed so that the drive wheels climb the kerb (step) smoothly and
 without hesitation. As far as possible, keep the joystick in the
 straight forward position.
- In accordance to the ground clearance, the maximum obstacle height possible to climb is 5 cm (10 cm with kerb climber)

WARNING : The approach speed and process can vary depending on your wheelchair performance and castor wheel choice.



- Reverse the chair slowly and carefully until both rear wheels are on the edge of the kerb, again in a 90° position to the kerb.
- Reverse as slowly as possible off the kerb with the rear wheels.
 You will feel more secure if you can lean forward, 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 front of the chair will naturally follow down the kerb as you continue to drive slowly backwards.



4.30.3 Kerb climber fitting and removal procedure (RWD base only)

- Locate the kerb climber bar into the left hand location bracket and push it into the right hand receiver bracket (Fig. 7 & Fig 8).
- Hold the kerb climber with your left hand in the receiver bracket.
- Align the holes of the receiver bracket and the kerb climber tube and plug in the locking pin from the top.
- Reverse the procedure to remove the kerb climber.

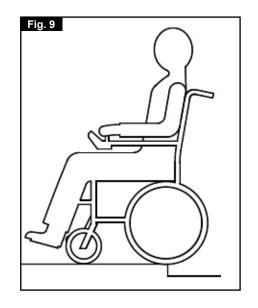




Warnings

- 1. Please show the utmost consideration for the other traffic on the road. 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.
- 2. Always cross the road as quickly as possible; there may be other traffic
- 3. Do not attempt to go up or down more than a 10 cm (4") high kerb (Salsa only with kerb climber fitted).
- 4. Do not attempt to use the kerb climber on a series of steps.
- 5. Do not attempt kerbs if on steep slopes or cambers.
- 6. Do not attempt any kerbs in the vicinity of drain covers, uneven or gritty road surfaces.
- 7. Do not attempt to dismount a kerb any higher than 5 cm (2") in the forwards direction.
- 8. Do not mount or dismount kerbs at an angle other than straight on (90 degrees) to the edge of the kerb.
- 9. Prior to climbing ensure your legrests will clear the kerb.
- 10. Take care of the anti-tips which might interfere with the kerb or the ground when mounting or dismounting a kerb.

WARNING - This wheelchair is designed to be repaired and assembled by a Sunrise Medical authorised dealer and not the end user. The end user has to disassemble and assemble the chair only for transportation (see section 5.2).



4.31 Lap belt

The lap belt kit. (Fig. 10).



Fastening the lap strap. Insert the 3 prong male buckle into the female buckle until a click is heard (Fig. 11)



To fit the lap strap.

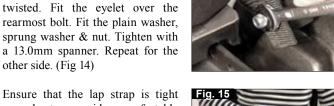
Place the strap loosely across the seat with the buckle closed.. (Fig. 12)



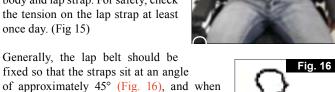
Pass the other ends of the strap through the gap between the backrest posts and the backrest upholstery as shown. (Fig. 13)



Ensure that the adjusters & buckles can be accessed & the strap is not twisted. Fit the eyelet over the rearmost bolt. Fit the plain washer, sprung washer & nut. Tighten with a 13.0mm spanner. Repeat for the other side. (Fig 14)

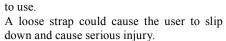


enough to provide comfortable support. A simple measure is to keep a hands thickness between the body and lap strap. For safety, check the tension on the lap strap at least once day. (Fig 15)



to slip down in the seat. Warning - Always make sure that the lap strap is correctly secured and adjusted prior

correctly adjusted should not allow the user



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

4.32 VR2 Controller (Fig. 17)

Avoid knocking your control system and especially the joystick. Be careful not to strike obstacles with the control system or joystick when you drive. Never drop the control system.

When transporting your wheelchair, make sure that the control system is well protected. Avoid damage to cables.

To improve the reliability of the control system keep exposure to extreme conditions to a minimum.

Do not expose your control system or its components to damp for prolonged periods. If your control system becomes contaminated with food or drink clean it off as soon as possible.

Controller precautions for use

In the event of the wheelchair moving in an unexpected way RELEASE THE JOYSTICK. This action will stop the wheelchair under any circumstances

Do not operate the control system if the wheelchair behaves erratically or shows abnormal signs of heating, sparks or smoke. Turn the control system off at once and consult your Sunrise Medical Authorised





Quickie SALSA 13 060474

Joystick

5 Preparing your wheelchair for use

5.1 Handling the wheelchair

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

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 legrests,
- 1 backrest (Std. Rehab/comfort seat only)
- 1 drive unit with seat frame

5.2 Preparation for transportation or storage

First remove the legrests if swing away legrests are attached. Leave the armrests in the fold down position. (Fig.18) disconnect the Hand Control, (Fig. 19), if necessary. Release and lift off the backrest at the frame. Now you can store the chassis part. By releasing the freewheel mechanism on the left and right side of the chassis you can move the drive unit as close as possible to the place you want to store it.

You can also drive the base with the joystick up or down a ramp into and out of a car for transportation. 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.





If there is a need to lift the drive unit the big side frame tubes should be used. Caution should be taken if the chair is in freewheel.

To remove the control pod.

To remove the control pod you have to access the motor controller through the plastic cover between the castor wheels and remove the square remote control connector.

Place the control pod & arm in a safe place until required. To reconnect the hand control just use the process in reverse.

5.3 Re-Assembling

Replace the backrest into the receivers and tighten the lever screws carefully. If required reconnect the remote controller. Attach the hangers. 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.



5.4 Emergency freewheel

By pulling the release levers on both sides of the base into the up position (Fig. 20+21) the brakes are released from the motors.

Please ensure the controller is switched off before you engage the freewheel levers – Failure to do so will increase the force needed to push the chair

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" or down position.

WARNING - Motor surfaces can be hot after use. Be careful not to touch the motor casing when disengaging the freewheel.

WARNING - Never attempt to disengage the freewheel mechanism whilst sitting on a slope.

WARNING - Always ensure the freewheel levers are returned to the down / drive position.

5.5 Drive wheel suspension Salsa

The SALSA 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 bottom of the spring downwards will soften your ride, adjusting the aluminium ring in a higher position will harden it. This option



is to be used to match the different user weights to the suspension system. (Fig. 22). We recommend the suspension adjustments are done equally on the left and right side of the chair.

5.6 Control joystick unit position

Make sure that the control system is mounted securely and that the joystick position is correct. The hand or limb you use to operate the joystick should be supported for example by the arm pad.

Do not use the joystick as the sole support for your hand or limb - wheelchair movements and bumps could upset your control.

The remote is mounted on a sliding mechanism which enables the control to be moved forwards and backwards. 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.

5.7 Getting ready to drive

- Operate the on/off switch. The battery gauge will blink then remain on after a second
- Check that the maximum speed is set to a level which suits you.
- Push the joystick to control the speed and direction of the wheelchair

5.8 Armrests

5.8.1 Armrests-removing and replacing (Fig. 23)

The armrests on both sides of the wheelchair can be flipped up to allow side transfer.

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.

5.8.2 Armrest Height Adjustment (Fig. 24 - 39)

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 (Numbers 1-8 in the following pages).
PART II: Adjust armpad angle.



(Numbers 9-13 in the following pages). PART 1: ARMREST HEIGHT ADJUSTMENT



- 1. Basic fine adjustment (up to one inch) of the armrest height can be achieved using the 5mm fine height adjustment screw (B). To fine tune the armrest's height:
- First loosen the 6mm rotation bolts on both armrests (A).
- Turn the adjustment screws (B) counter-clockwise to raise the armrest or clockwise to lower.
- Retighten both rotation bolts (A).

(Use 20 N/m or 177 in/lb of torque.)

Refer to armpad realignment if desired armrest height is achieved.



NOTE- The fine-tune adjustment screws provide up to one inch of armrest height adjustment. For more than one inch of height adjustment, continue to Number 2. Each armrest can also be adjusted independently for individuals who require an asymmetrical configuration.

NOTE- The factory preset is 10" from the seat pan to the top of the armpads.

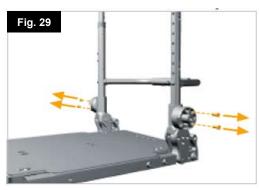
2. To achieve more than one inch of adjustment, remove the 6mm armrest rotation bolts on both sides of the ASAP seat.



Remove both armrest assemblies.



4. Remove both sets of 4mm armrest adjustment ring bolts.

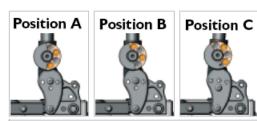


5. Rotate the armrest height adjustment rings to match the desired height designated in the Configuration Chart.



6. Replace both sets of armrest adjustment ring bolts according to the configuration chart.

Object Quickie SALSA 15



	Configuration Cha	rt
Backrest Angle (Degree)	Armrest Height Range (Inches)	Setting Ring Position
-4	12 - 10	Α
-4	9.9 - 9	В
0	12 - 10	Α
0	9.9 - 9	В
4	12 - 10.5	Α
4	11 - 9	В
8	12 - 9	В
12	12 - 9	В
12	9.75 - 9	С
16	12 - 10	В
16	10.25 - 9	С

Fig. 31

7. Replace both armrest assemblies.

(Use 10 N/m or 88.5in/lb of torque.)



8. Replace the armrest pivot bolts on both sides of the seat.

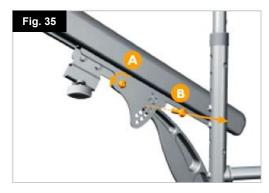


Do not tighten completely.

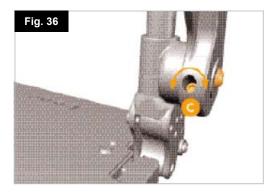
PART II: ARMPAD ANGLE ADJUSTMENT



9. Loosen the 4mm armpad angle pivot bolts (A) on both armrests. Remove the 4mm angle index bolts (B) on both armrests.



10. Use the 5mm fine height adjustment screw (C) to finish fine tuning the height. Turn counter-clockwise to increase height or clockwise to lower.



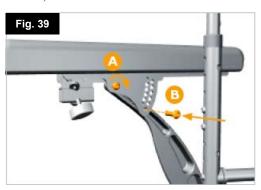
11. Tilt both armpads down (or up in the case of a lowered armrest) until the armpads are in the preferred angle. Check to see if the height is correct. (Refer to Number 10 for further height adjustment.)



12. Retighten both armrest pivot bolts. (Use 20 N/m or 177 in/lb of torque.)



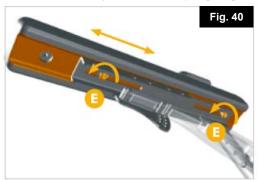
13. Retighten both armpad angle pivot bolts (A). Replace both armpad angle index bolts (B). (Use 10 N/m or 88.5 in/lb of torque for both sets of bolts.)

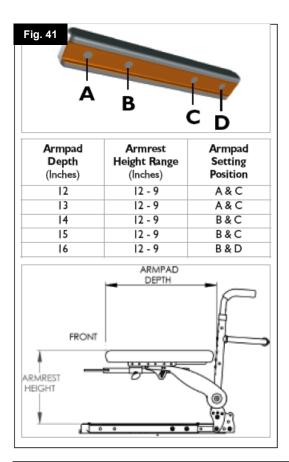


5.8.3 Armpad Position Adjustment (Fig. 40 - 44)

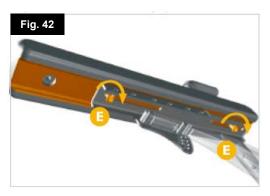
1. Fine armpad position adjustments (one to two inches) are possible by loosening the 4mm armpad adjustment bolts (E) and sliding the armpad forward or backward as required.

Access to the rear adjustment bolt may require pivoting the armpad.





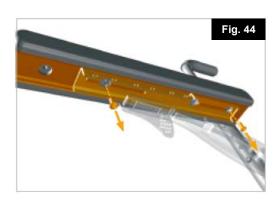
NOTE—If more than one to two inches of adjustment is required, refer to chart below and continue to Number 3.



2. Retighten both adjustment bolts (E). (Use 10 N/m or 88.5 in/lb of torque.)



3. For larger adjustments, remove both sets of armpad adjustment bolts.



4. Slide both armpads to the next set of attachment holes (refer to the chart). Retighten both sets of armpad adjustment bolts. (Use $10 \, \text{N/m}$ or $88.5 \, \text{in/lb}$ of torque.)

5.9 Legrests

WARNING - Be aware of your environment to make sure you do not injure your legs when legrests are extended.

WARNING - Always ensure that the legrests or footplates do not come into contact with the castors before driving the wheelchair.

WARNING - Legrests are not to be used for lifting or carrying the wheelchair with an occupant.

5.9.1 Fitting legrest

Offer the legrest assembly at right angles to the frame (Fig. 45), locate the stem into the legrest and swing the assembly forward to lock in position. To swing away the footrest, depress the retaining catch and turn the footrest out. This can now be lifted out if required, (Fig. 46).





5.9.2 Footplates

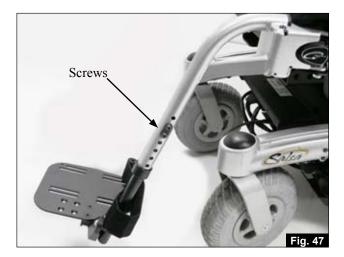
The footplates may be flipped up to aid entry and exit from the chair.

WARNING - Do not use the footplates to stand on as the full weight of your body may cause the chair to tip forwards. This could result in injury and could damage the footrests.

5.9.3 Adjusting the footrest length

To adjust the footrest length remove the screw assembly on the footrest stem as shown in (Fig. 47), adjust the length to suit. Ensure the bolts are firmly located and tightened prior to use.

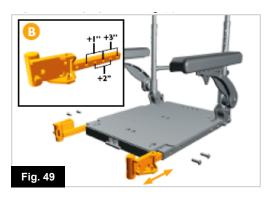
Note: The internal footrest stem may require cutting down in length to allow the footplate position to be raised.



5.9.4 Hanger depth adjustment (Fig. 48 - 50)



1. Remove both sets of 5mm hanger depth adjustment bolts.



2. Slide both hanger receivers to the desired location. See bolt pattern seat depth position settings (B)



3. Replace both sets of depth adjustment bolts. (Use 20 N/m or 177 in/lb of torque.)

5.9.5 Manual Articulating / Elevating Legrest (ALR/ ELR)

To elevate:

Pull the legrest upwards and stop at the desired height. The legrest will automatically lock in the chosen position.

To lower:

Push the release lever slowly forward. The legrest will lower the angle. As soon as you release the lever, the legrest will be locked in the current position.

WARNING - Keep hands clear of the adjustment mechanism between the frame and the movable parts of the legrest while elevating or lowering the legrest.

5.9.6 Powered Elevating or Articulating Legrest (Fig. 51)

Note: Both legrests can be operated simultaneously.

VR2 Control:

The actuator buttons can operate any factory approved actuator. Operation is dependent on what options are fitted to your wheelchair. To operate the legrests, seat tilt, seat lift or back rest recline.

- Push one of the actuator buttons that has the seat icon on it to select actuator mode
- Operate the joystick left or right to select the actuator required (actuator 1 or actuator 2). Selection is indicated via the lighting of the red LED adjacent to the desired actuator button.
- Operate the joystick in the forward or rearward direction to move the leg rest/seat lift/tilt or recline up or down.
- Release the joystick when the desired angle is reached.
- To return to drive mode press the actuator button again. (Fig 52)

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

Quickie Direct Actuator Control Box:

The direct actuator switches can operate any factory approved actuator. Operation is dependent on what options are fitted to your wheelchair. To operate the legrest, seat tilt, seat lift or backrest recline;

- Push the toggle switch for the relevant actuator forward until you reach the required angle/height.
- Release the toggle switch and the actuator will stop.

When the actuator reaches its maximum/minimum position do not hold the toggle switch in its operating position as this could damage the actuator. (Fig. 53)







6 Seating

6.1 Firm seat board

The firm seat board is designed to allow pressure relief cushions such as Jay to be used.

6.2 Seat cushions

Seat cushions supplied by Sunrise Medical will have Velcro® strips that correspond to patches on the seat. You must ensure these 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. The seat cushions, supplied by Sunrise Medical all have removable covers.

6.3 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.

6.4 Standard backrest upholstery

Salsa is supplied with optima backrest upholstery, which can be adjusted in tension to the individual's requirements.

Tension adjustable back:

To change the shape and/or tension of the 'Optima' backrest, remove the padded cover from the rear of the backrest and expose the tension straps. Loosen or tighten the straps to suit. (The most comfortable and supportive position is achieved with the wheelchair user seated in the chair). Ensure the straps are securely fastened and replace the padded cover prior to use.

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 Seat height adjustment

To change the seat height loosen the two bolts and remove the front posts of the seat module Interface (Fig. 54 & 55) on the bottom frame with a 5mm allen key. The bolts can be accessed through taking off the front control module cover.

Take the safety clips off the flat rear pins and pull the bolts out. Loosen the two clamping bolts at the rear flat posts.

Make sure the top frame does not trap your fingers. Hold the top frame securely in the up position. Adjust the seat height by choosing your required hole position of the Module Interface and replace the



bolts and the pins. Tighten them securely and make sure that the safety clips are refitted

6.7 Seat width adjustment (Fig. 56 - 59)

1. Remove the 5mm width adjustment bolts (A) and the 4mm towel bar adjustment bolt (B).



2. Move the left side seat rail, armrest and backrest assembly to the desired position. See seat width position settings (C)



3. Move the right side seat rail, armrest and backrest assembly to the desired position. Replicate position settings used for the left side



4. Replace the width adjustment bolts (A) and the towel bar adjustment bolt (B). (Use 10 N/m or 88.5 in/lb of torque for A and B.)

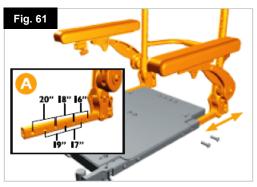


6.8 Seat Depth Adjustment (Fig. 60 - 62)

1. Remove the 5mm depth adjustment bolts from both sides of the seat.



2. Slide the rear backrest and armrests into the desired seat depth position. Reference seat depth position patterns (A)



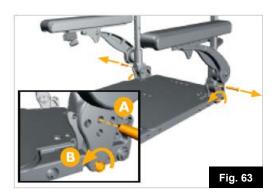
3. Replace both sets of depth adjustment bolts. (Use 20 N/m or 177 in/lb of torque.)



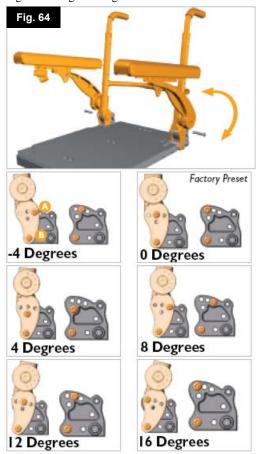
6.9 Backrest Angle Adjustment (Fig. 63 - 65)

1. Remove the 5mm backrest bracket index bolts (A) on both sides of the backrest. Loosen the 5mm backrest bracket pivot bolts (B) on both sides of the backrest.

NOTE- The index bolt (A) may be in a different starting position than shown below.

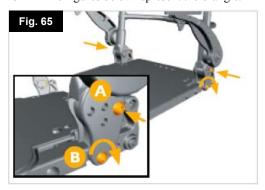


2. Tilt the backrest assembly forward or backward to the desired angle. See angle configurations below.



3. Reinsert and tighten both backrest bracket index bolts and bracket bolts (A & B). (Use 20 N/m or 177 in/lb of torque.)

NOTE- The figures below represent the 8° angle.



6.10 Back Height Adjustment (Fig. 66 - 76)

1. Begin by removing the upholstery cover.



2. Loosen the upholstery straps. It is not necessary to remove the upholstery.



3. Remove the top upholstery screws. The upholstery can now be moved and vertically compressed to provide access to the hidden Phillips-head bolts.



4. Remove the 4mm towel bar bolts and the towel bar.

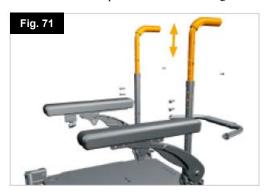
NOTE— This step is not necessary in every case. If the push handles are high enough, the towel bar bolts might not thread into the push handle tubes. To test, skip this step and move to Numbers 5 and 6. If the towel bar does not impede movement of the push handles, the towel bar may be left intact.



5. Remove the 4mm backpost adjustment bolts.



6. Move both backposts to the desired height.



7. Replace the backpost adjustment screws. (Use 10 N/m or 88.5 in/lb of torque.)



8. If removed in Number 4, replace the towel bar and the towel bar bolts. (Use 10 N/m or 88.5 in/lb of torque.)

NOTE- The towel bar may be repositioned at this point as well.



9. Replace both top upholstery bolts. Ensure the bolts thread through the top upholstery eyelets (A).





10. Retighten the upholstery straps.



11. Reattach the upholstery cover.



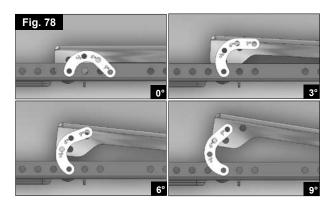
6.11 Manual adjustable backrest (manual recline)

For depth adjustment see section 6.3. above. To recline the backrest angle, pull the lever at the top of the backrest which operates the gas strut. Hold the lever and adjust the back angle required. If you release the lever, the angle will stay in the adjusted position. If you want to adjust the backrest into the upright position, you might need to support the upward motion (Fig. 77).



6.12 Manual setting of the seat angle on the SALSA

To set the seat angle, release the bolt fixing the "Banana" bracket between the seat interface module and the seat packer module. Set the seat angle at 0°, 3° or 6° and 9°, then replace and retighten the bolt between the seat interface module and the seat packer module. (Fig. 78).



6.13 Headrest

To fit the headrest, fit the location bracket to the push handles, using the screws and nuts supplied, ensuring that they are fully tightened. The headrest height is changed by loosening the adjustment knob and sliding the inner vertical tube to the desired position and tightening the knob. 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. 79 - 82)









6.14 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.

Please refer to Section 7 for details of your hand control

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.

VR2 Control

To recline the backrest angle:

- Push the mode button to select actuator mode
- Operate the joystick left or right to select the actuator required (actuator 1 or actuator 2). Selection is indicated via the lighting of the orange LED adjacent to the desired actuator number.
- Operate the joystick in the forward or rearward direction to move the backrest up or down.
- Release the joystick when the desired angle is reached.
- To return to drive mode, press the actuator button again.

Once the back is fully reclined or raised do not hold the joystick in its operating position as this could damage the actuator.

Quickie Direct Actuator Control Box (Fig. 53 & 83)

To recline the backrest angle:

- Push the relevant toggle switch into the forward position.
- Release the toggle switch when the desired angle is reached.

Once the back is fully reclined or raised do not hold the switch in its operating position as this could damage the actuator.

Powered seat lift:

The seat can lift up to 30 cm by operating it through your control system.

WARNING - Operating the powered lift from its lowest position will bring the chair into "creep mode", moving it below will allow full speed.

Quickie VR2 Control:

To operate the powered lift:

- Push the mode button to select actuator mode
- Operate the joystick left or right to select the actuator required (actuator 1 or actuator 2). Selection is indicated via the lighting of the orange LED adjacent to the desired actuator number.
- Operate the joystick in the forward or rearward direction to move the lift up or down.
- Release the joystick when the desired angle is reached.
- To return to drive mode, press the actuator button again.

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

Quickie Direct Actuator Control Box (Fig. 53 & 83)

To lift the seat:

- Operate the relevant toggle switch in the forward or rearward direction to move the lift up or down.
- Release the switch when the desired height is reached.

Once the lift is fully raised or in its lowest position do not hold the switch in its operating position as this could damage the actuator.

Powered seat tilt:

The seat can tilt up to 30° by operating it through your control system.



WARNING - Operating the powered tilt greater than 9° from its lowest position will bring the chair into "creep mode". If this operation occurs simultaneously with the seat lifted the chair will be inhibited and will not drive.

Quickie VR2 Control

To operate the powered tilt:

- Push the mode button to select actuator mode
- Operate the joystick left or right to select the actuator required (actuator 1 or actuator 2). Selection is indicated via the lighting of the orange LED adjacent to the desired actuator number.
- Operate the joystick in the forward or rearward direction to move the tilt forward or backward.
- Release the joystick when the desired angle is reached.
- To return to drive mode, press the actuator button again.

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

Quickie Direct Actuator Control Box (Fig. 83)

To tilt the seat:

- Operate the relevant toggle switch in the forward or rearward direction to move the Tilt up or down.
- Release the switch when the desired angle is reached.

Once the seat is fully tilted or in the lowest position do not hold the switch in its operating position as this could damage the actuator.



7.0 The VR2 Hand Control Series

7.1 VR2

On/off button:

The on/off button applies power to the control system electronics, which in turn supply power to the wheelchairs motors. Do not use the on/off button to stop the wheelchair unless there is an emergency. (If you do you may shorten the life of the wheelchair drive components)

Battery gauge:

The battery gauge shows you that the wheelchair is switched on. It also indicates the status of the wheelchair. Refer to chapter 8.

Locking/unlocking the wheelchair:

The VR2 control system can be locked to prevent unauthorised use. The locking method is via a sequence of key presses and joystick movements as detailed below.

To lock the wheelchair

- While the control system is switched on, depress and hold the on/ off button
- After 1 second the control system will beep. Now release the on/ off button
- Deflect the joystick forwards until the control system beeps
- Deflect the joystick in reverse until the control system beeps
- Release the joystick, there will be a long beep
- The wheelchair is now locked

To unlock the wheelchair

- Use the on/off button to switch the control system on. The maximum speed/profile indicator will be rippling up and down
- Deflect the joystick forwards until the control system beeps
- Deflect the joystick in reverse until the control system beeps
- Release the joystick, there will be a long beep
- The wheelchair is now unlocked

Operating the control joystick:

When engaging the main On/Off button, allow a few seconds prior to moving the joystick. This allows the system to self check. If you move the joystick too soon, the battery level indicator display will not illuminate until the joystick is released.

If it is off null for more than 5 seconds a system error will occur. Whilst this is not harmful to your wheelchair, you will need to switch off and then back on to clear the system.

Note: This is a safety feature to prevent unintended movement.

Proportional control summary

- 1. To steer, move the joystick in the direction you wish to go.
- 2. The further you move the joystick, the faster you will go.
- 3. New users should use slower speeds until they feel confident when driving the wheelchair.
- The brakes will automatically stop the wheelchair from any speed when the joystick is released.
- 5. It is important that the chair is stationary when changing direction from reverse to forward.
- 6. Always switch off before getting into or out of the chair.

Maximum speed/profile indicator:

This is a gauge which shows the maximum speed setting for the wheelchair or if the control system is programmed for drive profile operation, the selected drive profile. This gauge also indicates if the speed of the wheelchair is being limited or if the control system is locked

The horn button:

The horn will sound while this button is depressed.

Speed / Profile decrease button:

This button decreases the maximum speed setting or, if the control system is programmed for drive profile operation, selects a lower drive profile.

Speed / Profile increase button:

This button increases the maximum speed setting or, if the control system is programmed for drive profile operation, selects a higher drive profile.

Actuator button and LEDs:

Depending on whether your wheelchair is fitted with one or two actuators the operation of these buttons will differ.

Wheelchairs with one actuator

Depressing either actuator button will enter actuator adjustment mode. This will be indicated by the illumination of both actuator LED's. Actuator adjustment can then be made by deflecting the joystick forwards or backwards. To re enter drive mode, depress either actuator button

Wheelchairs with two actuators

Depressing either actuator button will enter actuator adjustment mode. If the left button is depressed the associated LED will be illuminated, and deflection of the joystick will adjust the actuator motor connected to that channel. If the right button is depressed the associated LED will be illuminated, and deflection of the joystick will adjust the actuator motor connected to the other channel. To re enter drive mode, depress the selected actuator button, as indicated by the associated LED

It is also possible to select the other actuator by left or right movements of the joystick

Charging and programming socket:

This socket should only be used for programming and charging the wheelchair. This socket should not be used as a power supply for any other device. Connection of other electrical devices may damage the control system or affect the EMC performance of the wheelchair See section 11 about charging.

The programming socket will enable an approved Sunrise Medical authorised dealer to re-programme your chair and also gain useful information when tracing any faults. When the chair leaves the factory, the parameters of the controller are set to default.

To programme the controller you need a special programming device (handheld or PC software), which is available through your Sunrise Medical authorised dealer.

WARNING - Programming the controller of the wheelchair is only allowed through authorised personnel trained by Sunrise Medical. Incorrect controller settings could cause driving outside the safe limits and could result in damage or injury.

Note: SUNRISE MEDICAL does not accept responsibility for damages which result from unexpected stopping of the wheelchair or inappropriate programming or unauthorised use of the wheelchair.

__________________________________Quickie SALSA 25

7.2 VR2-L

There are common controls between the VR2 and the VR2-L control systems where a control differs it will be described below. All common controls can be found on the previous page.

Lights and indicators:

The SALSA can be equipped with lights and indicators. Where lights are not factory fitted, they may be fitted as an optional extra by an approved Sunrise Medical authorised dealer.

WARNING

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

Indicators:

To turn on the wheelchairs indicators operate the required button either left or right, the associated LED will also illuminate continuously.

If the LED flashes rapidly either a total short circuit, a single lamp open circuit or a total open circuit in the left or right indicator circuit has been detected

Depress the indicator button to turn off the indicator and the associated LED

Main lights:

To turn on the wheelchairs lights operate this button, the associated LED will illuminate continuously.

If the LED flashes a short circuit in the lighting circuit has been detected

Depress the light button to turn off the lights and the associated LED

Hazard warning lights:

To turn on the wheelchairs hazard warning lights operate this button, the associated LED will flash at the same rate. The left and right turn indicator LEDs will also flash.

If the LED flashes rapidly either a total short circuit, a single lamp open circuit or a total open circuit in the entire indicator circuit has been detected

Depress the hazard warning button to turn off the lights and the associated LED

Actuator button and LEDs:

Depending on whether your wheelchair is fitted with one or two actuators the operation of this button will differ.

Wheelchairs with one actuator

Depressing the actuator button will enter actuator adjustment mode. This will be indicated by the illumination of both actuator LED's. Actuator adjustment can then be made by deflecting the joystick forwards or backwards. To re enter drive mode, depress either actuator button

Wheelchairs with two actuators

Depressing the actuator button will enter actuator adjustment mode. Depressing the button once illuminates the left LED, and deflection of the joystick will adjust the actuator motor connected to that channel. If the right button is depressed the associated LED will be illuminated, and deflection of the joystick will adjust the actuator motor connected to the other channel.

To re enter drive mode, depress the selected actuator button, as indicated by the associated LED

It is also possible to select the other actuator by left or right movements of the joystick

7.3 VR2 Dual control unit

Control button and indicator:

This shows which joystick has control. If the red wheelchair light is on the wheelchair occupants joystick has control. If the green attendant light is on the dual attendant systems joystick has control. The button is used to transfer control between the two choices

Actuator button and LED:

All VR2 dual attendant systems have an actuator button fitted as standard. If the VR2 is programmed with no actuators then this button has no function.

Wheelchairs with one actuator

Depressing the actuator button once will enter actuator adjustment mode. This will be indicated by the illumination of both actuator LED's. Actuator adjustment can then be made by deflecting the joystick forwards and backwards.

To re enter drive mode, depress either the actuator button or the speed button

Wheelchairs with two actuators:

Depressing the actuator button will enter actuator adjustment mode. Depressing the button once illuminates the left LED and deflection of the joystick forwards or backwards will adjust the actuator connected to that channel. Selection between the two actuators is achieved by deflecting the joystick to the left and right. As the actuator selected changes so will the LED which illuminates. Left for actuator 1 and right for actuator 2

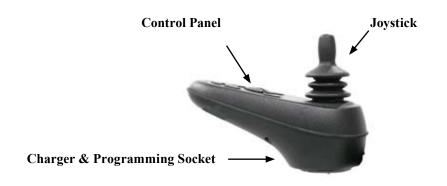
To re enter drive mode, depress either the actuator buttonor the speed button

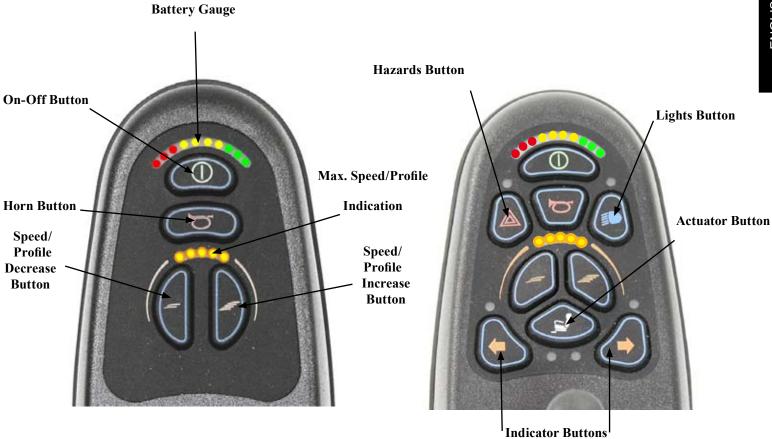
Maximum speed button and indicator:

This shows the maximum speed setting for the wheelchair when the dual attendant system has control. There are five settings - setting 1 is the slowest speed and setting 5 is the highest speed. The speed setting is changed with the speed button.

If the control system is programmed for drive profile operation, then the dual attendant system speed adjuster will only adjust the speed within the selected profile.

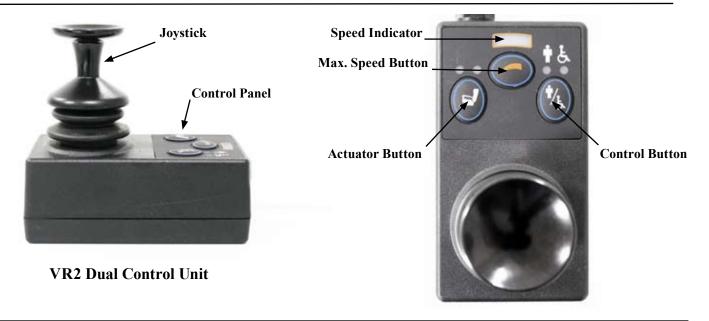
Changing between drive profiles can only be achieved using the VR2





VR2 Control Panel Layout

VR2-L Control Panel Layout



8 Troubleshooting using the VR2 Hand Control

Always consult your Sunrise Medical authorised dealer when a diagnostic fault has appeared on your hand control.

The battery gauge and maximum speed/profile indicator show the status of the control system.

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 from moving the wheelchair.

This indicates a system trip. i.e. the VR2 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 given below
- 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.

Self help guide

If a system trip occurs you can find out what has happened by counting the number of bars 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 7.1. 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 Possible cause					 Possible cause
					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
		П			The left hand motor has a bad connection. Check the connections to the left hand motor.
		П	Ť	П	The left hand motor has a short circuit to a battery connection. Contact your Sunrise Medical Authorised Dealer
		П	Ť	\prod	The right hand motor has a bad connection. Check the connections to the right hand motor.
			1		The right hand motor has a short circuit to a battery connection. Contact your Sunrise Medical Authorised Dealer
					The wheelchair is being prevented from driving by an external signal. One possibility is that the battery charger is plugged in.
		П		П	A joystick fault is indicated. Make sure that the joystick is in the centre position before switching on the control system
		П	T		A control system fault is indicated. Make sure the control system connections are secure.
			T		The parking brakes have a bad connection. Check the parking brake and the motor connections. Make sure that the control system connections are secure
		П	Ť		An excessive voltage has been applied to the control system. This is usually caused by a poor battery connection. Check the battery connections
			Ī		+ S S=Speed indicator LED's A communication fault is indicated. Make sure that the joystick cable is securely connected and not damaged
					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 Controller Mounts

9.1 General warnings

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.

9.2 Attendant control

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. (see "attendant control" picture below).

9.3 Parallel swing-away control

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.

Keep your fingers and clothing, etc. clear while operating the swing-away mechanism.

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.

Keep fingers, clothing, etc. clear of the swing-away mechanism at all times.

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. (see "parallel swing-away" picture on the right).





10 Batteries and charging



Warning- Please read the owner's manual supplied with the charger carefully. The general procedures and effects for the interference with the chair and the batteries remain valid.



Warning- Do not expose any part of the battery to direct heat (i.e. naked flame, gas fire).



Warning- When charging always place your charger on a hard surface in a room with good ventilation.



Warning- You should not charge your batteries in outdoor conditions.

10.1 Batteries (Fig. 84 - 88)

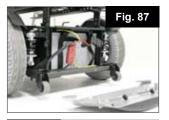
The batteries are contained within the drive unit located under the battery shroud.

To remove the batteries, should they require changing or maintenance

- Release the two handle screws at the rear of the drive base, which holds the rear cover plate.
- Pull the plate off.
- Disconnect the RED 2 pin Andersen connector.
- Disconnect the GREY 2 pin Andersen connectors from each battery.
- Pull the battery tray out backwards until it hits the mechanical stop. While pulling the tray out it falls automatically onto the anti-tip wheel for support and ease of operation.
- There are straps available on each battery where they can be lifted out

To fit the batteries please proceed in the opposite way. To fit the batteries reverse the above procedure.











10.2 Safety cut-outs

In the event of a short circuit there are several safety systems built into your wheelchair to safeguard your electrical circuits.

- 1. Fusible 80A links are connected into the battery harnesses to protect the batteries and wiring.
- 2. A 70A re-settable fuse. This is located on the front left side of the battery compartment.
- 3. A 15A fusible link. (When Quickie Direct Actuator Control Box is fitted) .This is located behind the front shroud.

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

10.3 General battery information

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. 80amp/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.

10.4 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.

10.5 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.

10.6 Maintenance free battery care plan

- 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 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 (a wire brush is ideal) 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.

10.7 General charger information

The external charger has been designed to charge two 12V Gel type

batteries connected in series (= 24 V).

10.8 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. Always replace with the same type and size of fuse as specified. Fitting of different fuses can result in 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.



10.9 Procedure for connecting the charger and charging

- 1. The wheelchair can be charged via the charger socket at the front of the VR2 remote control. (Fig. 89).
- 2. Connect the charger to the mains supply by means of the mains plug and switch on.
- 3. 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.
- 4. Always switch off at the mains before disconnecting the batteries.

10.10 Charger safety and caution notes

- 1. The charger is designed for indoor use. Do not use outdoors or expose to rain, snow, spray or moisture.
- 2. When buying replacement batteries or charger always consult your Sunrise Medical service agent.
- 3. The charger may be used with other brands of Gel type batteries, subject to written confirmation from the Technical Department of Sunrise Medical.

10.11 The range of your vehicle

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:

- 1. User weight heavier than 100 kg.
- 2. Batteries whose age and condition are less than perfect.
- 3. The terrain is difficult e.g. very hilly, sloping, muddy ground, gravel, grass, snow and ice.
- 4. The vehicle climbs kerbs regularly.

- 5. The ambient temperature is very hot or very cold.
- 6. Incorrect tyre pressures in one or more tyres.
- 7. Lots of start/stop driving.
- 8. Also thick pile carpets within the home can affect range.
- 9. 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.

10.12 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.

To reduce the risk of damage to electric plug and cord, pull by the plug rather than the cord when disconnecting the charger. Make sure the cord is located so that it will not be stepped on, tripped over or otherwise subjected to damage or stress. 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.

Important!

- 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.
- 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 place the charger directly above the battery being charged; gases from the battery will corrode and damage the charger.
- 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.
- 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.

10.13 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.

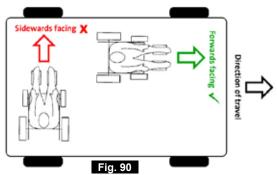
11 Transportation

A wheelchair secured in a vehicle will not provide the equivalent level of safety and security of 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:

11.1 Transportation warnings:

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 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 90).



Wherever possible remove and stow safely away from the wheelchair, all auxiliary equipment, for example:

Kerb climbers Crutches Loose cushions Tray tables

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 91) to reduce the possibility of head and chest impacts with the vehicle components.

This wheelchair has been successfully crash tested. 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.

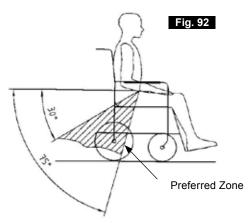
Postural supports (lap straps, lap belts) should not be used or relied on for occupant restraint in a moving vehicle unless they are labelled as meeting the requirements specified in ISO 7176-19:2001 or SAE J2249

Spill proof sealed batteries such as "gelled electrolyte" must be installed on powered wheelchairs when used in a motor vehicle.

11.2 Occupant restraint instructions

The pelvic restraint belt must be worn low across the front of the pelvis (Fig 94) so that the angle of the pelvic belt is within the preferred zone of 30° to 75° to the horizontal (Fig 92).

A steeper (greater) angle within the preferred zone is desirable i.e. closer to, but never exceeding 75°.

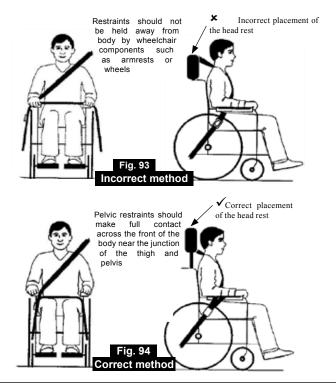


Restraint belts must not be held away from the body by wheelchair components or parts such as the armrests or wheels. (Fig 93)

The upper torso restraint belt must fit over the shoulder and across the chest as illustrated. (Fig 94)

Restraint belts must be adjusted as tightly as possible consistent with user comfort

Restraint belt webbing must not be twisted when in use.



11.3 Crash testing on the SALSA

A representative SALSA wheelchair has been tested in accordance with the dynamic performance requirements specified in ISO 7176-19:2001 "Wheeled Mobility Devices for use in Motor Vehicles" using an Q straint 6 point strap restraint system with double straps at the rear which conform to ISO 10542 or SAE J2249 and was used in accordance with the WTORS manufacturer's instructions.

The Q straint restraint system was used for these tests. However other restraint systems can be used as long as they conform to ISO 10542 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

11.4 The tie down label and placement

The label shown in Fig 95 is used to identify the tie down points on all chair models.

The photographs below show the tie down label placements on the Salsa



11.5 Securing the wheelchair into the vehicle

WARNING - The SALSA wheelchair requires a six-point tie down system for transportation as shown in the photographs below.





On the left rear side - Use one of the rear tie down restraints, attach it as close as possible on the left rear mounting bracket to an angle of 45°, and tighten securely in accordance with the restraint manufacturers' instructions. The second rear tie down restraint should be mounted behind the first restraint and away from the wheelchair.

On the right rear side - Repeat with the remaining 2 rear straps and attach to the right rear mounting bracket.

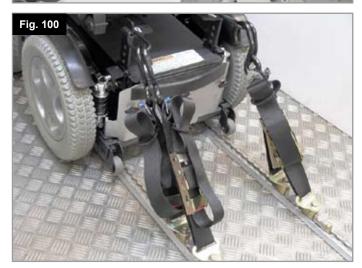
All seating must be returned to its home position with the seat lift fully down and the backrest fully upright.

Always make sure that the wheelchair is not left in freewheel.

11.6 SALSA tie downs (Fig. 98 - 100)







12 Maintenance and Cleaning



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

12.1 Tyre maintenance and pressures

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. IT IS IMPORTANT that front wheels are inflated to the same pressure 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.

Do not inflate beyond the maximum allowed tyre pressure.

12.2 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.

12.3 Drive wheel tyre repair

- Remove the plastic hub cap by levering it off (Fig. 101).
- To remove the wheel, use a 5.0mm hex key on the 4-button head studs. The button head studs protrude through to the back of the wheel. Undo the corresponding nyloc nuts using a 13mm spanner (Fig. 102).
- Remove the wheel. Note that when replacing the wheel use new nyloc nuts.
- There are 5 rim studs that must be loosened/tightened in the number order shown. Use a 6mm Allen key to release the studs. (Fig. 103)
- Lift the inner rim off the tyre wall (Fig. 104).
- Lift the tyre and tube off the outer rim.
 Gently get hold of the inner tube just behind the valve.
- Carefully feed the tube out of the tyre.

To refit

- Place the tube inside the tyre & rest it on the outer rim with the valve stem aligned with the cut out in the rim.
 Face the valve stem outward.
- Place the inner rim over the tyre, tube & outer rim. Align the cut out to fit over the valve stem & match it up to
 - the cut out in the outer rim. Make sure the stud mounts are in line on both rims.
- Tighten the studs in the sequence shown earlier taking care not to ninch the tube
- Slowly inflate to the pressure marked on the tyre. Refit the wheel back onto the motor shaft and fix it safely with the 4-button head study to a torque of 47Nm.

In case a solid tyre is used the wheel needs to be replaced as a complete assembly.

12.4 Removing the castor wheel

- Note which one of the two holes is used to mount the castor wheel. Ensure that both castors use the same mount position.
- Depending on the castor wheel type use two 5 mm hex keys or

- two 13 mm spanners to undo the axle bolt.
- Remove the nyloc nut in case of the hex bolt type. Always use a new nyloc nut when refitting.
- There is an enclosed spacer between the wheel bearings. When
 refitting do not try to force the bolt through. Gently move the
 wheel back and forth until the bolt slips through.
- Withdraw the axle bolt. Remove the castor wheel.

The SALSA tyre can be removed and repaired/exchanged by following the rim split procedure for the drive wheel.

12.5 Cleaning 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.

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. 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.

12.6 Inspection of the upholstery/seating

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

12.7 Cleaning seating

Cleaning instructions for Rehab and Perfect Fit 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.

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.

WARNING - Do not use a hose or a pressure washer to clean your chair

Cleaning instructions for 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.

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 then rinsed with clean water and dried thoroughly.

12.8 Cleaning controls

Clean the control system and the joystick with a cloth dampened with diluted detergent. Be careful when cleaning the joystick.

Never use abrasive or spirit based cleaners

Speciality controls

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 & puff mouth piece and tube to maintain cleanliness and functionality.

WARNING - Ensure control is switched off before cleaning.

12.9 Lighting bulb exchange procedure

If bulbs of your lights and indicator system show a defect, please proceed in the following way:

Front lights and indicators (TUV light type):

Use a cross screw driver to release the screw of the light or indicator glass. Take the glass off. This gives you access to the bulbs.

- For the TUV lights 12V/3W bulbs with an E12 thread are required
- For the TUV indicators 12V/5W bulbs with a 90° bayonet socket are required

Rear lights and indicators:

TUV-lights: Lift the red or orange glass of the light carefully off the socket. If a bulb needs to be replaced 12V/5W cylindrical, capless is required.

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

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.

12.10 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.

12.11 How to connect the cables to the batteries

If you are in any doubt, please contact your Sunrise Medical authorised dealer. For further information please refer to the technical manual.

Parts in the battery box:

- Sliding support tray for 2 x 12V batteries
- 2 x battery looms with fuse and ring terminals
- Battery link harness with red and grey connectors.

WARNING – Before connecting the battery terminals it is very important to identify the correct connection for each battery terminal. Failure to adhere to this will result in the wheelchair not functioning or a ruptured fuse.

WARNING - Connect all battery terminals before inserting the connectors.

WARNING – After connecting battery terminals and connectors ensure all wiring is tidy and cannot get entangled in any moving parts.

The two battery looms are identical. One is required to be connected to each battery.

The red wire from the fuse connects to the battery + terminal

The other black wire connects to the battery - terminal

The battery terminals must be

covered after connection with the caps provided on the cable Both batteries are fitted to the battery tray with the terminals rearmost, so that the grey connectors can be mated with the battery link harness. Ensure the link harness is secured in the slots provided in the tray. (Fig. 105)

If you are in any doubt, please contact Sunrise Medical Tel (+44) 1384 44 66 66

12.12 Controller access

To access the controller on the SALSA take the front shroud on the base between the front castor wheels off (Fig. 106).



For further information please refer to the technical manual.

12.13 Storage

When storing your wheelchair for long periods of time (in excess of one week) first fully charge, and then disconnect the batteries, to minimise battery discharge. Never store your wheelchair in direct sunlight or in a damp/outdoor environment. It might bleach plastic parts and components.

12.14 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 Customer Service on this telephone number: 01384 44 66 66

12.15 Recommended maintenance routines

Tools required

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

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.

Weekly checks:

Parking brake:

This test should be carried out on a level floor with at least one metre clearance 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 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.

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Mounting:

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

WARNING - Please refer to Service manual for any information about Torques.

12.16 Performance checks

After performing any maintenance or repairs on the wheelchair you must make sure that it is functioning correctly before it is used.

- 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.
- Make sure that all of the cushions are in place
- 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.
- Perform the parking brake check.
- 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.

If you are in any doubt about the performance requirements of your wheelchair contact your Sunrise Medical authorised dealer.

Maintenance & Inspection Schedule	Daily	Weekly	Quarterly	Six month	Annually
Check battery level indicator and charge if necessary	器				
Check the joystick of the hand control is not bent or damaged	器				
Ensure all removable parts are securely fastened	器				
Check lapstrap for wear and make sure the buckle is operational	器				
Parking brake test		器			
Check tyres and inflate		器			
Ensure lights and indicators are operational and clean		器			
Ensure all cables and connectors are sound and are tidy and out of the way		器			
Clean wheelchair and upholstery		器			
Battery terminal inspection – Remove any corrosion and apply Vaseline			尜		
Check upholstery, seating, headrests, armpads and calfpads for wear				器	
Complete inspection, safety check and service should be made by a Sunrise Medical authorised dealer					*

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

Manufacturers (Europe):

Sunrise Medical Ltd UK Sunrise Business Park High Street Wollaston West Midlands DY8 4PS UK Sunrise Medical GmbH+Co.KG Kahlbachring 2-4 69254 Malsch/Heidelberg Deutschland

Model: Quickie Salsa



Maximum occupant mass (test dummy mass): 140 kg

The wheelchair Quickie Salsa 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

ISO7176-15	Min.	Max.	Comments
Overall length (with legrest)	1100 mm	1140 mm	70° hanger
Overall width	580 mm	610 mm	12" / 14" wheels
Total mass (w. batteries)	114.5 kg	140.5 kg	without Balle/with Balle lift & tilt
Mass of the heaviest part	-	18.5 kg	Heaviest removable part
Static stability downhill	> 20°	-	0° tilt/0° recline/40 cm deep & 50 cm seat height
Static stability uphill	10.6°	-	9° tilt/16° recline& 45 cm seat height
Static stability sideways	15.2°	-	0° tilt/0° recline/40 cm deep & 50 cm seat height
Energy consumption (max. range)	-	32	6 kph motor and 100 kg user (ISO7176-4)
Dynamic stability uphill	8 °		9° tilt/16° recline &max. seat height (not with balle)
Obstacle climbing (with kerb climber)	85 mm	100 mm	
Max. speed forward	6 kph	10 kph	6 kph motor & 12.5" wheels/ 10 kph motor & 14" wheels
Min. brake distance from max. speed	-	-	Dep. programming
Seat plane angle	0°	9°	mechanical, 3° increments
Effective seat depth	406 mm	508 mm	25 mm increments
Effective seat width	406 mm	508 mm	25 mm increments
Seat surface height at front edge	375 mm	520 mm	12" wheels / 385 mm 14" wheels
Backrest angle	-4°	16°	mechanical, 4° increments
Backrest height	457 mm	508 mm	25 mm increments
Footrest to seat distance	330 mm	505 mm	
Leg to seat surface angle	110°	-	
Armrest to seat distance	230 mm	305 mm	
Front location of armrest structure	350 mm	425 mm	
Min. turning radius	850 mm	910 mm	70° hanger
Nominal battery voltage	24V	-	
Battery cut-off voltage	16V	-	
Battery fusible links	-	-	80A 32V maxblade automotive fuse
Quickie Direct Actuator Control Box fusible link	-	-	15A AST Mini Blade
Mass of the test dummy	-	140 kg	
EN 12184	Min.	Max.	Comments
Max. kerb height	85 mm	100 mm	with kerb climber
Ground clearance	70 mm	80 mm	12" / 14"
Turning space	1200 mm	-	
Speed control operation force	-	2N	
Direction control operation force	-	1N	

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14 Service History

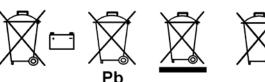
This section is designed to assist you in keeping a record of any service and repairs to your wheelchair. Should you decide to sell or exchange your vehicle in the future, this will prove most helpful to you. Your Service Agent will also benefit from a documented record and this manual should accompany 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 scooters, 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.

15 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.



					FD				
Model					Serial No				
Year	1	2	3	4	Year	1	2	3	4
Date			İ	İ	Date				ĺ
Controller					Chassis				
On/Off switch					Condition				
Output plug					Steering				
Joystick					Upholstery				
Brakes					Seat				
Programmable configuration					Backrest				
Batteries					Armrests				ĺ
Level			ĺ		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						nal marta fa	# aamiiaa	and ranai	***
Brushes					Note: Only use Sunrise Medical parts for service and repairs		S		

Dealer signature and stamp:	Dealer signature and stamp:
Dealer signature and stamp:	Dealer signature and stamp:

* BATTERIES CONTAIN ACID AND CAN EXPLODE. ALWAYS WEAR EYE PROTECTION WHEN WORKING NEAR BATTERIES. * ALWAYS KEEP BATTERY TERMINALS AND CLAMPS CLEAN AND FREE OF CORROSION. * ALWAYS CHARGE BATTERIES IN WELL VENTILATED AREA, AWAY FROM SPARKS AND FLAME. * NEVER ALTER BATTERY WIRING OR BATTERY BOX. * NEVER ALLOW TOOLS TO MAKE CONTACT ACROSS TERMINALS. * NEVER USE BATTERIES OR CLAMPS WITH WING NUT TERMINALS, OR CLAMPS THAT EXCEED TERMINAL POST HEIGHT.



Charger Socket:

Pin 1: Battery Positive Pin 2: Battery Negative

Pin 3: Inhibit

BATTERY CONNECTOR RED YELLOW BATTERY CONNECTOR BLACK BLACK BLACK

Sunrise Medical GmbH+Co.KG Kahlbachring 2-4 69254 Malsch/Heidelberg Deutschland

Tel.: +49 (0) 72 53/980-0 Fax: +49 (0) 72 53/980-111 www.sunrisemedical.com

Sunrise Medical Limited High Street Wollaston West Midlands DY8 4PS England Phone: +44 (0) 13 84 44 66 88 www.sunrisemedical.com

Sunrise Medical S.L. Polígono Bakiola, 41 48498 Arrankudiaga – Vizcaya

España Tel.: +34 (0) 9 02 14 24 34 Fax: +34 (0) 9 46 48 15 75 www.sunrisemedical.com

Sunrise Medical S.A. 13, Rue de la Painguetterie 37390 Chanceaux sur Choisille

France Tel.: +33 (0) 247 55 44 00 Fax: +33 (0) 247 55 44 03 www.sunrisemedical.com

Sunrise Medical Srl Via Riva 20, Montale 29100 Piacenza (PC)

Italy Tel.: +39 05 23-57 31 11 Fax: +39 05 23-5 70 60 www.sunrisemedical.com

Sunrise Medical A.G. Lückhalde 14 3074 Muri bei Bern Schweiz Tel.: +41 (0) 31-958-38 38 Fax: +41 (0) 31-958-38 48

www.sunrisemedical.com

Sunrise Medical AS Rehabsenteret 1450 Nesoddtangen

Norway Tel.: +47 (0) 66 96 38 00 Faks: +47 (0) 66 96 38 38 www.sunrisemedical.com

Sunrise Medical AB Britta Sahlgrens gata 8A 421 31 Västra Frölunda

Tel: +46 (0) 31-748 37 00 Fax: +46 (0) 31-748 37 37 www.sunrisemedical.com

Sunrise Medical B.V. Groningenhaven 18-20 3433 PE Nieuwegein Nederlands

Tel.: +31 (0) 30 60-8 21 00 Fax: +31 (0) 30 60-5 58 80 www.sunrisemedical.com

G2 A/S Graham Bells Vej 21-23 A 8200 Arhus N Denmark

Tel.: +45 87 41 31 00 Fax: +45 87 41 31 31 www.G2.dk

