


QUICKIE®

GP RANGE



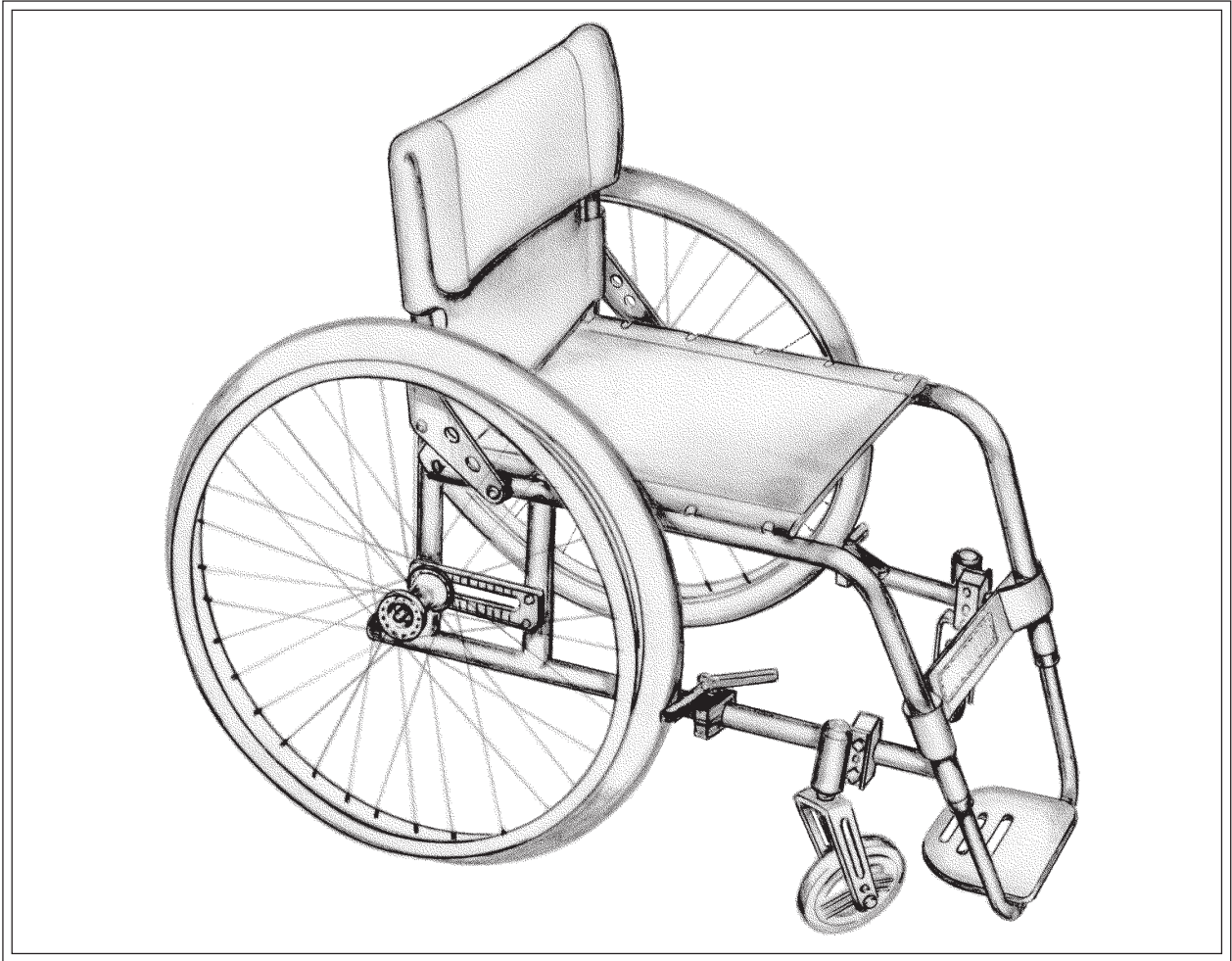
Owner's Manual

 **SUNRISE**
MEDICAL.

ENGLISH



▷ QUICKIE GP RANGE



How to use this manual

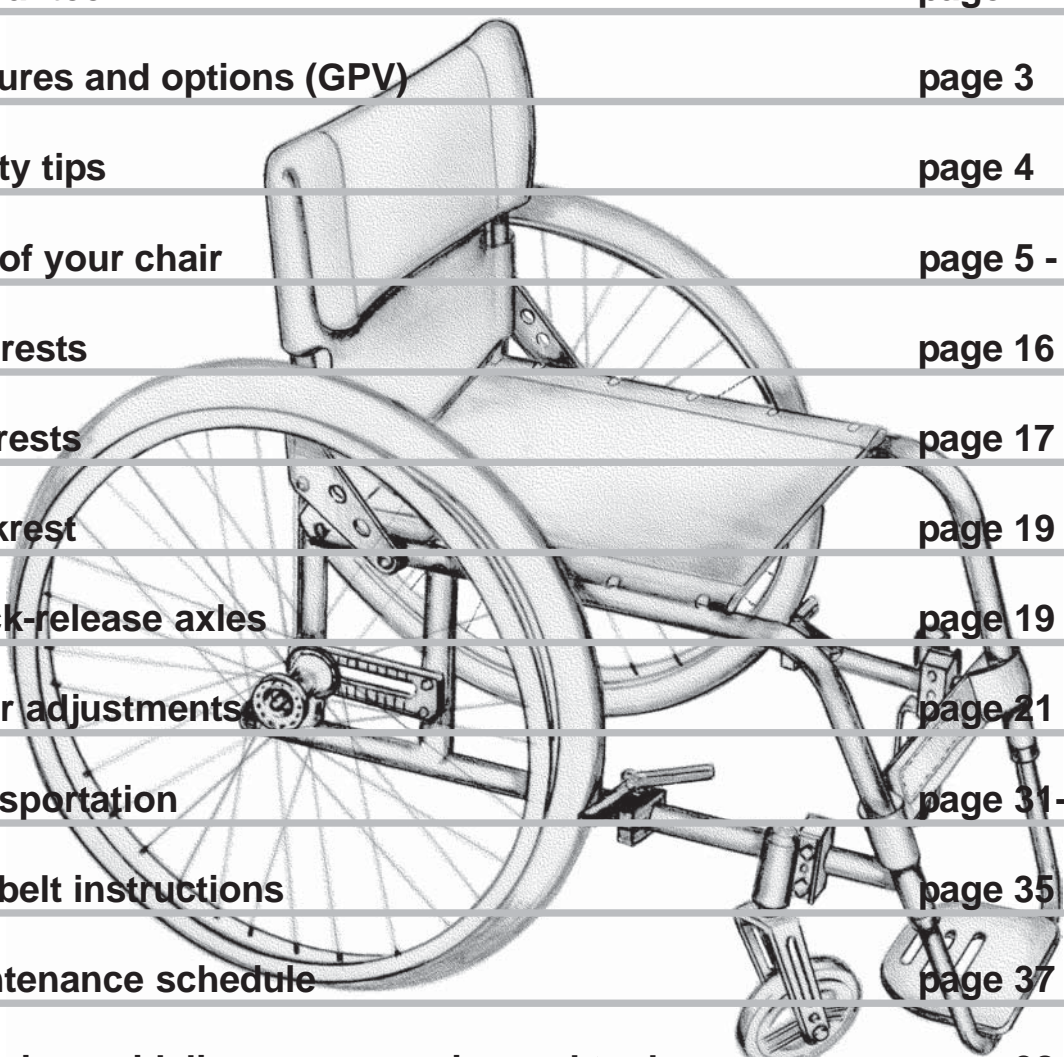
We at Sunrise Medical want you to get the best out of your Quickie GP wheelchair. This Owner's Manual will familiarise you with the chair and its features. It contains hints on everyday usage and general care in addition to information on the high quality standards which we adhere to and details about the guarantee. This manual gives information on all features without stating whether they are optional or standard. For this information refer to the order/prescription form or your prescriber/supplier.

Your wheelchair will reach you in excellent condition having been personally inspected before leaving our factory. By following the guidelines for maintenance and cleaning on pages 31-32 your wheelchair will maintain its first class condition and give you complete satisfaction.

For ease of use ⚠ Warning denotes a risk of personal injury or damage to your chair and ⇨ indicates points which will improve the performance and safety of your chair.

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Introduction

Sunrise is dedicated to providing products of exacting quality which conform fully and reliably to the requirements of their intended use.

This wheelchair is to be used to aid individuals with limited or no personal mobility. The Quickie GP is suitable for both indoor and outdoor use.

The maximum user weight for this chair is 113kg (250lb).

Sunrise is accredited to BS EN ISO 9001, which is the internationally recognised standard for quality management systems. This approval ensures we provide quality in all areas of our business from development through to final delivery.

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

If you have any queries about the use, maintenance or safety of your wheelchair please contact your wheelchair prescriber/supplier. Sunrise Medical will be pleased to answer any other questions that you may have and can provide a list of approved Sunrise Medical agents on request to:

SUNRISE MEDICAL LIMITED
HIGH STREET WOLLASTON
WEST MIDLANDS DY8 4PS
ENGLAND

Telephone 01384 44 66 88 Fax. 01384 44 66 99

International Telephone +44 1384 44 66 88 Fax.+44 1384 44 66 99

www.sunrisemedical.co.uk

Serial Number:

Inspected by:

Your local dealer:

Your local dealer:

Guarantee

Your guarantee

The guarantee form is included in the Sunrise Pack, which accompanies the chair on delivery. Please fill in the relevant details and return to us to register your entitlement. The guarantee is for your information.

THIS IN NO WAY AFFECTS YOUR STATUTORY RIGHTS.

Sunrise Medical guarantees the frame and wheel axles on Quickie wheelchairs against defects in materials and workmanship for the lifetime of the original purchaser.

All Quickie wheelchairs, parts and components (including frame components, axle plates, castors, armrest, backrests etc.) are guaranteed against defects in materials and workmanship for one year from purchase date.

Warranty conditions

- 1 This warranty does not affect the statutory rights of the Customer but if the Customer wishes to have the benefit of the Company's warranty the Customer must comply with the provisions set out below.
- 2 In the event of a defect in the goods supplied becoming apparent within the warranty period which commences from the delivery date the Company either itself or by an authorised dealer repair agent will effect any necessary repair or replacement of parts free of charge on condition that the Customer complies with the following provisions of this warranty.
- 3 Any part repaired or replaced during the warranty period is warranted for the remainder of the duration of that period.
- 4 The arrangements for repairs and service and the designated repairer will be notified to the Customer by the Company and will be confirmed at any time on request.
- 5 ON A DEFECT OCCURRING DURING THE WARRANTY PERIOD THE CUSTOMER MUST NOTIFY THE DESIGNATED REPAIRER IMMEDIATELY GIVING FULL INFORMATION AS TO THE PROBLEM AND NO USE MUST BE MADE OF THE GOODS AND NO ALTERATION OR UNAUTHORISED REPAIRS MADE TO THE GOODS PRIOR TO INSPECTION BY THE DESIGNATED REPAIRER.
- 6 If the Customer is operating the Goods away from the locality of the designated repairer the Customer must contact the Company to obtain the name and address of another repairer authorised by the Company. If the Customer is operating the Goods outside the UK the Customer must bear the transport, insurance and packaging costs incurred in having the Goods repaired or replaced by an authorised repairer of the Company.

7 Items of a consumable nature will not normally be covered during the 12 month warranty period unless such items have suffered undue wear as a direct result of an original manufacturing defect. These items include amongst others, lubricants, motor brushes, upholstery, tyres, inner tubes, pushhandle foam, brakes and similar parts. Batteries will be covered by the warranty only where they have been charged and maintained fully in accordance with the manufacturer's recommendations.

8 Under normal circumstances no responsibility will be accepted where the goods have required repair or replacement as a direct result of:

- a) The goods or part not having been maintained in accordance with the manufacturer's recommendations, where such exist and using only the specified original equipment parts.
- b) The goods or part having been damaged by neglect, accident or improper use.
- c) The goods or part having been altered from the manufacturer's specifications, or repairs having been attempted prior to the designated repairer being notified.
- d) Fair wear and tear.

Please keep a note of your local service agent's address and telephone number in the space provided on the previous page. 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.

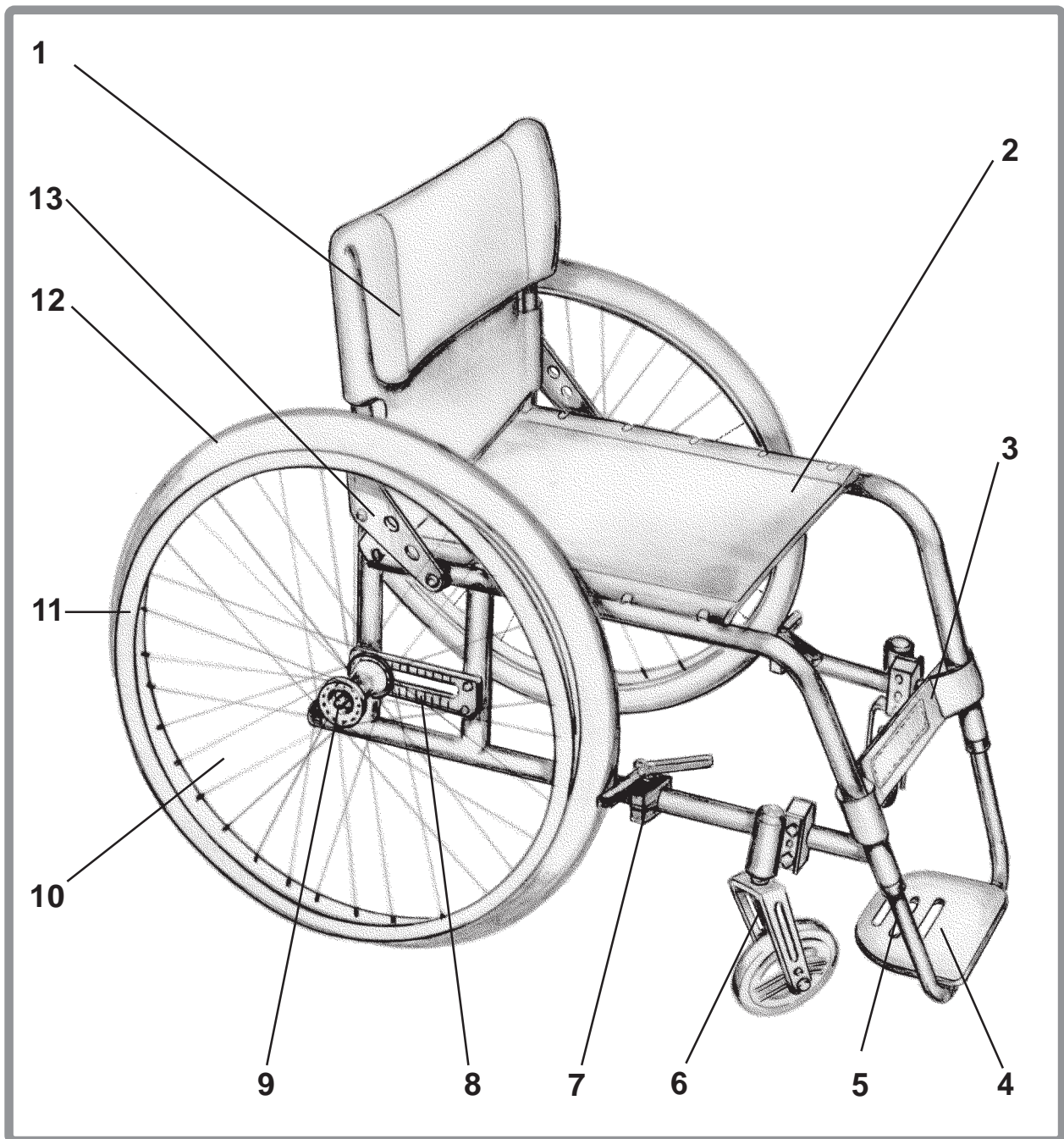
Please remember to fill in and post the guarantee registration card enclosed with this manual. **Sunrise Medical Limited** recommend that you do not undertake maintenance tasks other than those explained in this manual. Your local approved Sunrise Medical service agent is fully trained by Sunrise Medical to carry out detailed maintenance as and when required. **Use only genuine Sunrise Medical replacement parts.**



Sunrise Medical Limited

High Street, Wollaston, West Midlands DY8 4PS England
Tel 01384 44 66 88 Fax 01384 44 66 99
www.sunrisemedical.co.uk

Features and options (GPV)



- | | | | |
|---|----------------------------|----|--------------------------|
| 1 | Angle adjustable backrest | 8 | Adjustable axle plate |
| 2 | Seat sling | 9 | Quick-release axle |
| 3 | Leg strap | 10 | X spoked wheel |
| 4 | Footplate | 11 | Aluminium handrim |
| 5 | Height adjustable footrest | 12 | Tyre |
| 6 | Castor assembly | 13 | Backrest adjusting plate |
| 7 | Scissor lock | | |

Safety tips

Anti-tip tubes

Under normal use, anti-tip tubes will prevent the wheelchair from tipping over backwards. Anti-tip tubes are available from your local wheelchair prescriber/supplier. Sunrise Medical recommends anti-tip tubes for first time and less experienced wheelchair users.

Tyre pressure

Ensure that pneumatic tyres are properly inflated. The correct tyre pressure is 450 kilopascals/4.5 bar (65 psi) for the pneumatic rear wheels and 250 kilopascals/2.5 bar (36 psi) for pneumatic castors (front wheels). Low tyre pressure may allow the rear wheels locks to slip.

Armrests

Always secure swing-away armrests before using the wheelchair. Never lift the wheelchair by the armrests. These parts are detachable and lifting the wheelchair by them may cause damage to the chair and/or injury to the user.

Transfers

Guidelines on how to do a side transfer are provided in this manual, however, this is only one method of transfer and you should work with your wheelchair prescriber/supplier to develop a technique which best suits your abilities.

Wheelies

Doing a wheelie (tilting the wheelchair backward to its balance point) is dangerous, as the chair may tip over. Wheelies should only be performed by experienced users. Do not attempt to learn or practice this manoeuvre without the aid of an attendant.

Footrests

The lowest point of the footrest plates should be at least 63mm (2½") from the ground to allow proper clearance. Never stand on the footrests because the chair may tip over.

⚠ Warning:

Never lift the wheelchair by the footrests. These parts are detachable and lifting the wheelchair by them may cause damage.

Kerbs, inclines, obstacles and ramps

Always practice with a qualified attendant before attempting to negotiate kerbs, inclines or ramps alone. It is important for you to develop safe techniques suited to your abilities. Do not attempt to go up or down inclines greater than 10% (1 in 10).

Using your chair

Water, snow and ice

Contact with water, snow or ice may affect the performance of your wheelchair.

1. Never use your wheelchair in a pool or other body of water.
2. If your chair becomes wet, or if you use water to clean it, dry the chair thoroughly as soon as you can.

When you need assistance

⚠ Warning:

If you fail to heed the following warnings, a fall or tip over may occur and cause severe injury to you or to your attendant.

For the Rider:

You should make sure that persons who assist you, read and follow all warnings and instructions that apply to that use. Before using this chair each attendant must know what to do to ensure safety.

For Attendants:

1. Put the rider at ease. Tell the rider what you plan to do and explain what you expect the rider to do.
2. Work with the rider's doctor, nurse or therapist to learn safe methods best suited to your abilities and those of the rider.

3. Always use good posture and proper body mechanics. When you lift or support the rider or chair, bend your knees slightly and keep your back as upright and straight as you can.
4. Unlock and rotate anti-tip tubes up out of the way, to avoid a trip or fall, when operating the chair from the back.
5. Always lock the rear wheels and lock anti-tip tubes in the down position if you must leave the rider alone, even for a moment. Doing so will reduce the risk of a tip over or loss of control of the chair.

Centre of balance

⚠ Warning:

The point where this chair will tip forwards, backwards or to the side depends on its centre of balance and stability. If you fail to heed these warnings a fall or tip over may occur and cause severe injury to you:

1. The most important adjustment to your chair is the position of the rear axles. The further you move the rear axles forward, the better the chair manoeuvres, but the more likely it is that your chair will tip over backwards.
⇒ Consult your doctor, nurse or therapist to find out what axle position is best for you.

Using your chair

Centre of balance

2. Changing the setup of this chair increases the risk of a fall or tip over. Be very careful if you make a change to any of the following:
 - ⇒ The position of the rear axles, the distance between the rear wheels or the amount of rear wheel camber.
 - ⇒ The distance between the centre of the front castors and rear wheels and the angle of the castors.
3. To avoid a fall or tip over you should:
 - ⇒ Have someone help you until you know the balance points of your chair and how to avoid a tip over.
 - ⇒ Use anti-tip tubes until you are sure you are not at risk of tipping over.
4. The centre of balance and stability of your chair are also affected by:
 - ⇒ A shift in your body position, posture or weight distribution.
 - ⇒ Riding your chair on a sloped surface.
 - ⇒ Fitted seating systems.

Refer to the sections that follow to learn how you can reduce the risk of a fall or tip over by proper use of this chair.

Dressing and changing clothes

⚠ Warning:

Your weight may shift if you dress or change clothes while seated in this chair. This may cause a fall or tip over and severe injury to you. To help prevent this you should:

1. Rotate the front castors to the forward position.
2. Lock anti-tip tubes in the down position if your chair has anti-tip tubes.
3. Back your chair up against a wall and lock both rear wheels.

Using your chair

Wheelies (rear wheel balance)

A wheelie is performed by balancing on the rear wheels of your chair, while the front castors are raised off the ground. If done safely, it can help you overcome kerbs and other obstacles.

▲ Warning:

It is dangerous to do a wheelie, as you may fall or tip over backwards and suffer a severe injury. Make sure that you heed these warnings:

1. Consult your doctor, nurse or therapist to find out if you are a good candidate to learn to do a wheelie.
2. Do not try to do a wheelie unless you are a highly skilled rider or unless you have help.
3. Make sure that anti-tip tubes are up, out of the way, so they do not interfere.
4. When learning to do a wheelie, make sure that this chair has push handles. The attendant needs secure points to hold the rear of the chair to prevent the user from tipping over backwards.

Follow these steps when learning to do a wheelie with help:

1. The attendant should be at the rear of the chair, and must be able to move with the chair to prevent a tip over.
2. The attendant's hands should be beneath the push handles or back brace ready to catch you if you tip too far backwards.
3. When the attendant is in position, place your hands on the forward area of the handrims.
4. Make a quick backward movement of the rear wheels, immediately followed by a hard forward thrust. This will tilt the chair backwards and lift the castors from the ground. Try to find the balance point, which is the point where you will not fall backwards or forwards.
5. Maintain your balance by small movements of the handrims.

Using your chair

Doorways and obstacles

⚠ Warning:

1. As much as possible ensure that the floor areas where you use the chair are level and free of obstacles by:
 - ⇒ removing or covering threshold strips between rooms,
 - ⇒ installing a ramp at entry or exit doors.
2. If your chair has anti-tip tubes, make sure you lock them in the down position before you go over an obstacle.
3. Keep both your hands on the handrims. If you fail to do so, you may lose control of your chair and tip over.
4. Do not propel your chair by pushing or pulling on an object. Never pull yourself through a doorway by grabbing the doorjamb with one or both hands.
5. To help correct the centre of balance of your chair you should:
 - ⇒ lean your upper body forward slightly as you go up over an obstacle.
 - ⇒ press your upper body backward as you go down from a higher to a lower level.

Reaching or leaning

⚠ Warning:

Reaching or leaning affects the centre of balance of your chair if you fail to heed these warnings, a fall or tip over may occur and cause severe injury to you.

1. Avoid reaching or leaning if you must shift your weight to do so. Moving forwards in your seat may cause the chair to tip forward. Always keep your lower back in contact with the backrest. Ask for help or use a device to extend your reach.
2. Never reach with both hands. If you do so, you may not be able to catch yourself to prevent a fall if the chair tips.
3. Never lean backwards to reach for an object unless your chair has anti-tip tubes and they are locked in the down position.
4. If you must reach or lean from your wheelchair:
 - ⇒ rotate the front castors to the forward position. To do this, move your chair past the object, then back up alongside it.
 - ⇒ place your chair as close as you can to the object you wish to reach.
 - ⇒ steady yourself by firmly grasping an armrest with one hand. This will help you prevent a fall if the chair tips.
 - ⇒ avoid putting pressure on the footrests while reaching. This may cause the chair to tip forward.
 - ⇒ do not lock the rear wheels. This creates a tipping point and makes a fall or tip over more likely.

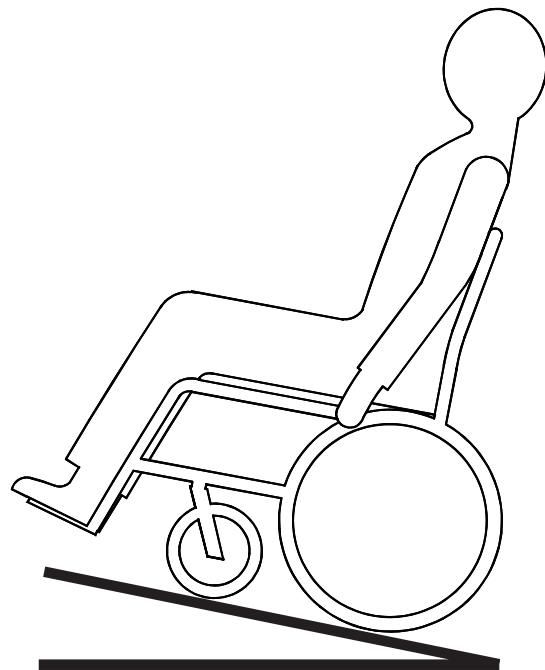
Using your chair

Slopes and hills

⚠ Warning:

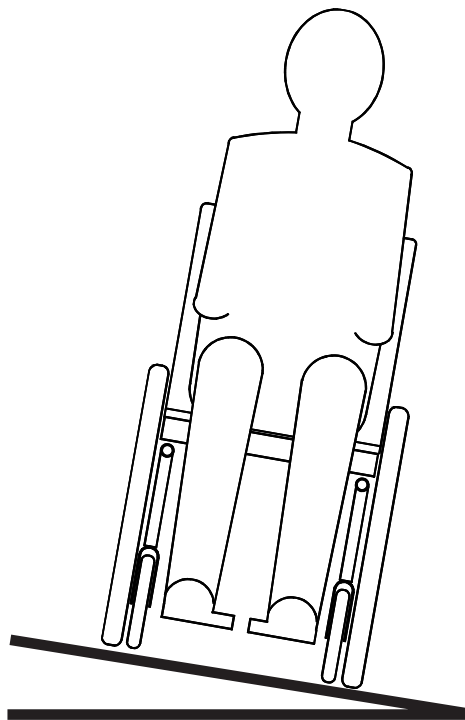
Going up or down a slope (Fig. 1) or riding on the side of a hill (Fig. 2) will change the centre of balance of your chair. If you fail to heed these warnings you may suffer a severe injury from a tip over, fall or loss of control:

1. Lean or press your body uphill to help correct the change in the centre of balance.
2. Avoid turning on a slope or the side of a hill, as a tip over is likely. Always go as straight up and straight down as you can.
3. Be very careful if you must climb a slope greater than 10% (1 in 10). Ask for help if the slope may be beyond your ability.
 - ⇒ On a steep slope, anti-tip tubes may not prevent a tip over.
 - ⇒ On a steep slope, you may not be able to reach the top without stopping. If you have to stop turn the chair sideways on to the hill otherwise you may lose control and tip over.
4. Always control your speed when going downhill. If you go too fast, you may not be able to control your chair. Ask for help if the slope may be beyond your ability.
 - ⇒ You can control your speed by keeping constant pressure on the handrims.
 - ⇒ Never use the rear wheel locks to try to slow or stop your wheelchair. Doing so is likely to cause you to veer out of control or tip over.



10% MAXIMUM SLOPE

Fig. 1



10% MAXIMUM SLOPE

Fig. 2

Using your chair

Transfers

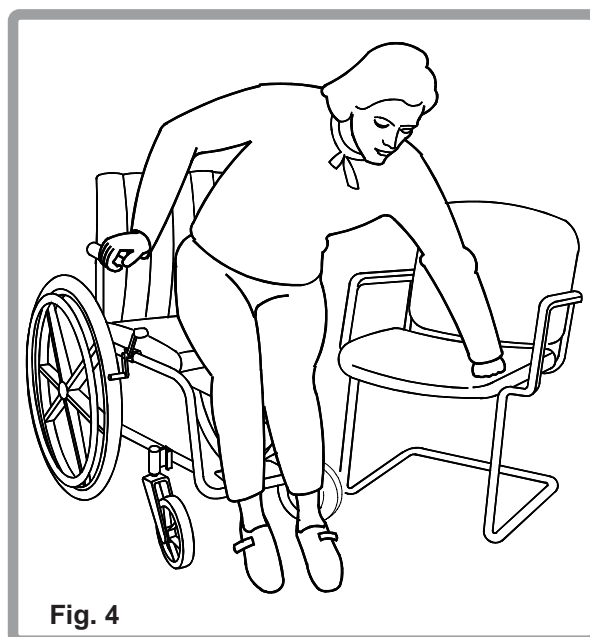
⚠ Warning:

If you fail to heed these warnings, a fall or tip over may occur and cause severe injury to you:

1. Transfers require good balance and agility and are very dangerous. Be aware that there is a point during each transfer when the wheelchair seat is not below you.
2. To avoid a fall, you should:
 - ⇒ learn how to position your body and how to support yourself during the transfer.
 - ⇒ work with your doctor, nurse or therapist to learn safe transfer methods.
 - ⇒ have someone help you until you are sure you can perform safe transfers on your own.
3. Wherever possible position your wheelchair as illustrated in Fig. 3 and 4.
4. Always lock the rear wheels before you transfer to keep the chair from rolling. Locking the rear wheels will not always keep your chair from sliding away from you or tipping.
5. Rotate the front castors forward to make the chair more stable.
6. If your chair has armrests, make sure that they are out of the way and do not interfere.

7. Be careful of the footrest. To avoid a trip or fall when you transfer you should:
 - ⇒ make sure that your feet do not hang up or get caught on the footrest.
 - ⇒ avoid putting weight on the footrest as the chair may tip forwards.

Please refer to figures 3 and 4.



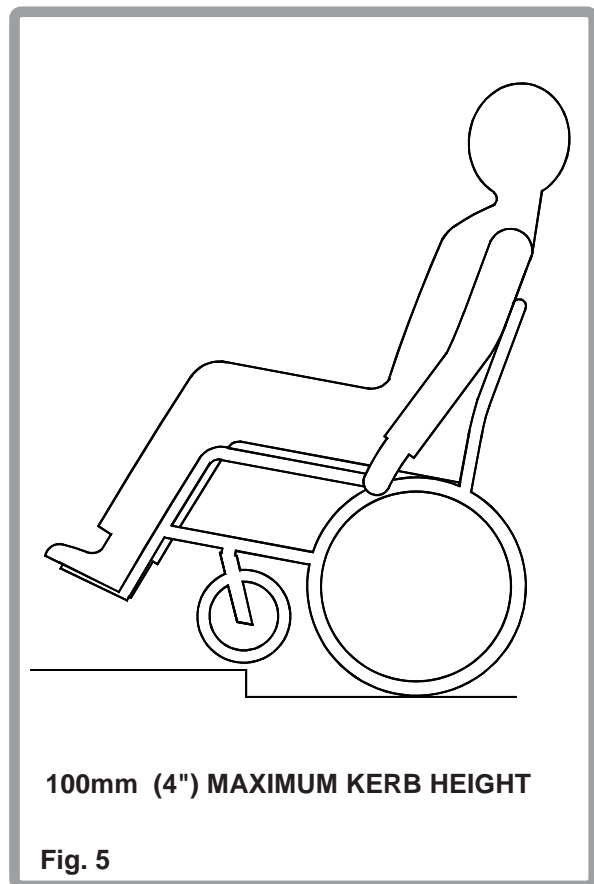
Using your chair

Kerbs and single steps

⚠ Warning:

If you fail to heed these warnings, a fall or tip over may occur and cause severe injury to you or others:

1. Never try to climb or descend a kerb or step alone unless you are a skilled rider and:
 - ⇒ you can safely do a wheelie;
 - and
 - ⇒ you are sure you have the upper body strength needed to do so.
2. Unlock and rotate anti-tip tubes up, out of the way, so they do not interfere.
3. Do not try to climb a kerb or step more than 100mm (4") high unless you have help; your chair may exceed its balance point and tip over (Fig. 5).
4. When you have an attendant, make sure that the chair has push handles. The attendant must have secure points to hold the rear of the chair.

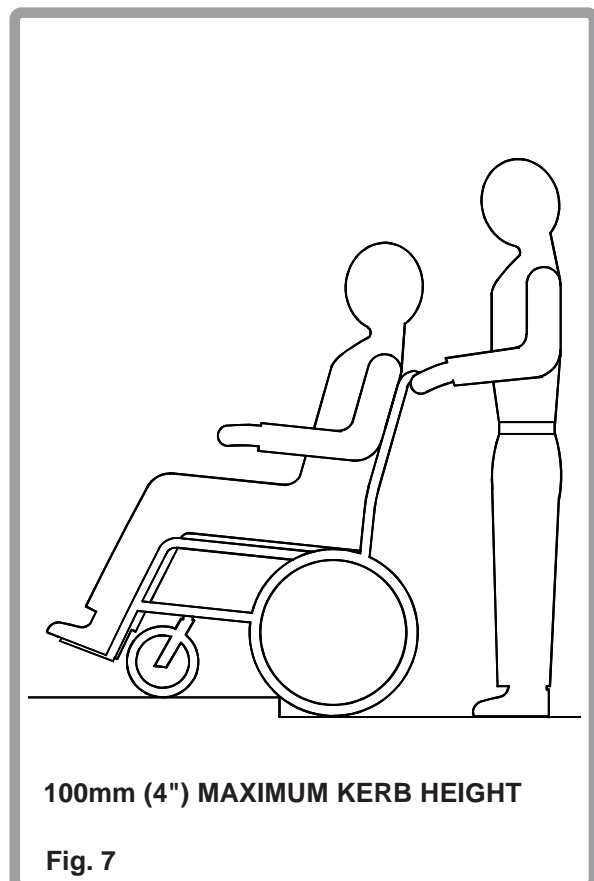
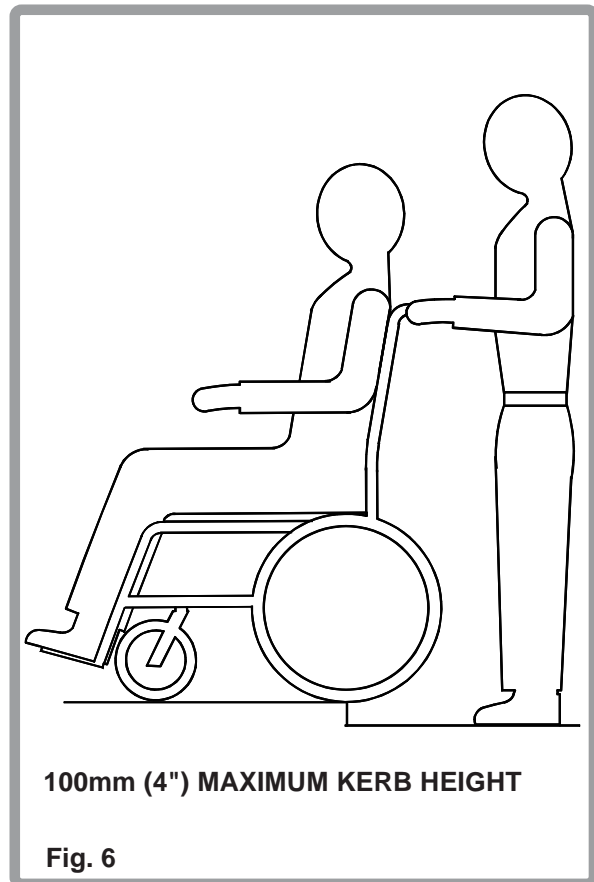


Using your chair

Tips for descending a kerb or single step with help

Read and follow the warnings for attendants. To help the rider descend a kerb or single step in a backward direction:

1. Check to make sure that push handle grips will not rotate or slip off.
2. Always stay behind the wheelchair (Fig. 6).
3. Before you reach the edge of the kerb or step, turn the chair around and pull it backwards.
4. While looking over your shoulder, carefully step back until you are off the kerb or step and standing on the lower level.
5. Pull the chair towards you until the rear wheels reach the edge of the kerb or step (Fig. 6). Then allow the rear wheels to slowly roll down onto the lower level (Fig.7).
6. When the rear wheels are safely on the lower level, tilt the chair back to its balance point. This will lift the front castors off the kerb or step.
7. Keep the balance position and take small steps backwards. Turn the chair around and carefully lower the front castors to the ground.



Using your chair

Tips for climbing a kerb or single step with help

Read and follow the warnings for attendants. To help the rider mount a kerb or single step in a forward direction:

1. Always stay behind the wheelchair.
2. Face the kerb and tilt the chair up on the rear wheels so that the front castors clear the kerb or step (Fig. 8).
3. Move forward, placing the front castors on the upper level as soon as you are sure that they are past the edge.
4. Continue forward until the rear wheels contact the face of the kerb or step (Fig. 9). Lift and roll the rear wheels to the upper level.



Using your chair

Moving a chair and rider up or down stairs

⚠ Warning:

Where possible, avoid carrying out this manoeuvre to prevent attendant injury.

Read and follow the warnings for attendants. If you fail to heed these warnings a fall or tip over may occur and cause severe injury to the rider and/or attendants:

1. Always use two or more attendants when moving a chair and rider up or down stairs (Fig. 10).
2. Make sure that this chair has push handles and that the grips will not rotate or slip off. The attendant at the rear needs secure hand-holds to bear the weight of the chair and rider.
3. Use only non-detachable parts of the main frame as hand-holds.
4. Make sure that the rider is secure in the chair, with his or her feet, arms and hands safely out of the way of any obstacles.

Tips for climbing stairs with help

Read and follow the warnings for attendants. Follow these steps when helping the rider climb stairs:

1. Move the chair and rider backwards up the stairs.

2. The attendant at the rear is in control. He or she tilts the chair back to its balance point (Fig. 10).
3. A second attendant at the front firmly grasps a non-detachable part of the front frame and lifts the chair up and over one step at a time.
4. The attendants reposition themselves on the next step up and repeat the same procedure for each step. When the landing is reached, return the chair to its upright position.



Fig. 10

Using your chair

Tips for descending stairs with help

Read and follow the warnings for attendants. Follow these steps when helping the rider descend stairs:

1. Move the chair and rider forward down the stairs (Fig. 11).
2. The attendant at the rear is in control. He or she tilts the chair to the balance point of the rear wheels and rolls it to the edge of the top step.
3. A second attendant stands firmly on a lower step and grasps the chair frame. Both attendants lower the chair one step at a time by letting the rear wheels roll over the step edge.
4. The attendants move to the next step down and repeat the same procedure for each step. When the landing is reached return the chair to its upright position.

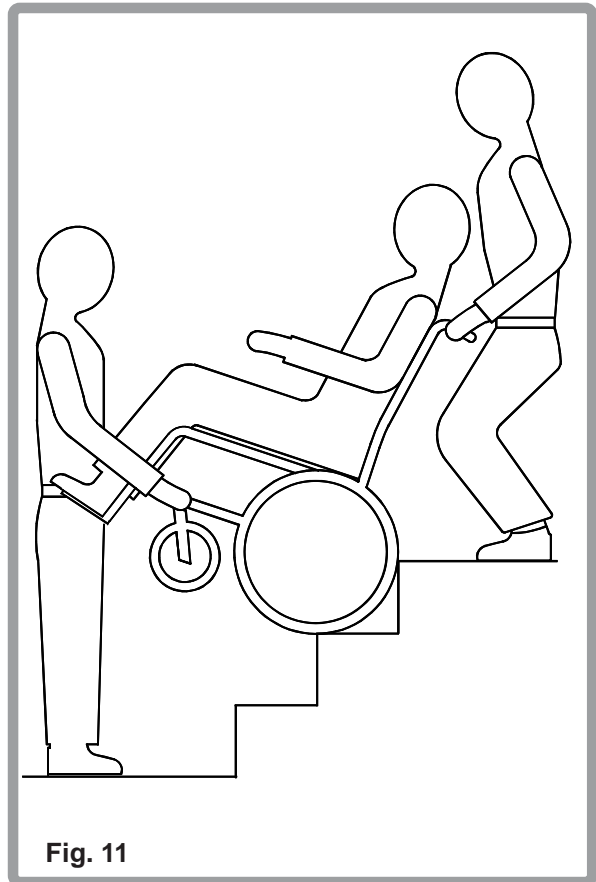


Fig. 11

Chair features

Swing-away footrests

Swing-away footrests (Fig. 12) enable easier forward transfers from your chair to be performed.

Releasing footrests

To release the footrest, push the release latch (1) toward the frame (2), and rotate the footrest outward. To remove the footrest from the chair lift vertically from this position.

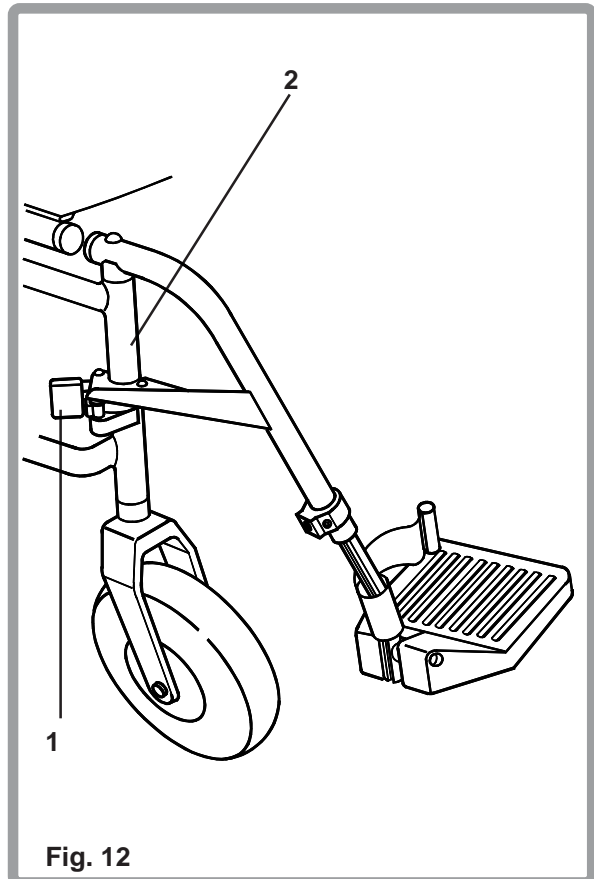


Fig. 12

Replacing footrests

To replace the footrest (Fig. 13), place the swingaway pivot saddle (3) into the receiver (4) on the frame (2) with the footrest facing outward from the frame. Rotate the footrest inward until it locks into place on the locking stud (5).

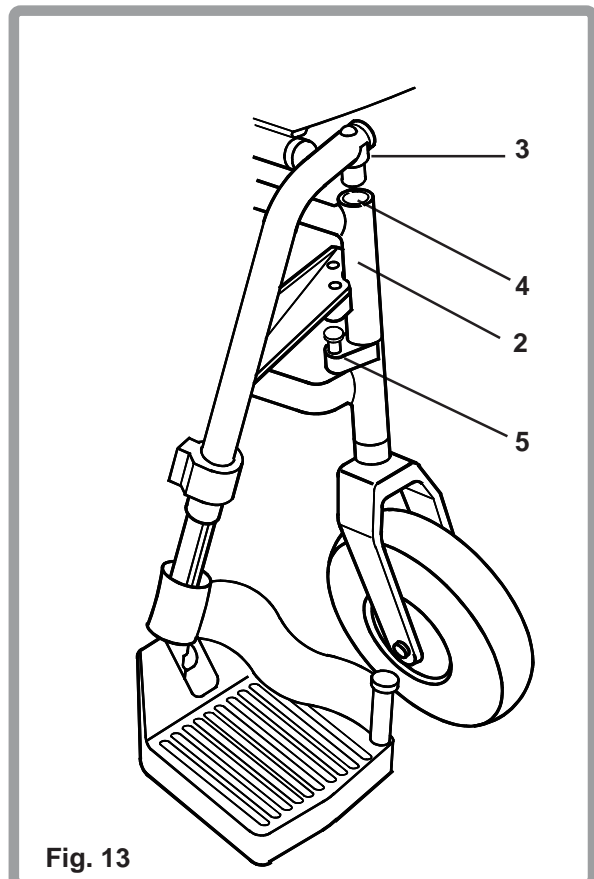


Fig. 13

Chair features

Fixed footrest

A height adjustable fixed footrest is shown in Fig. 14.

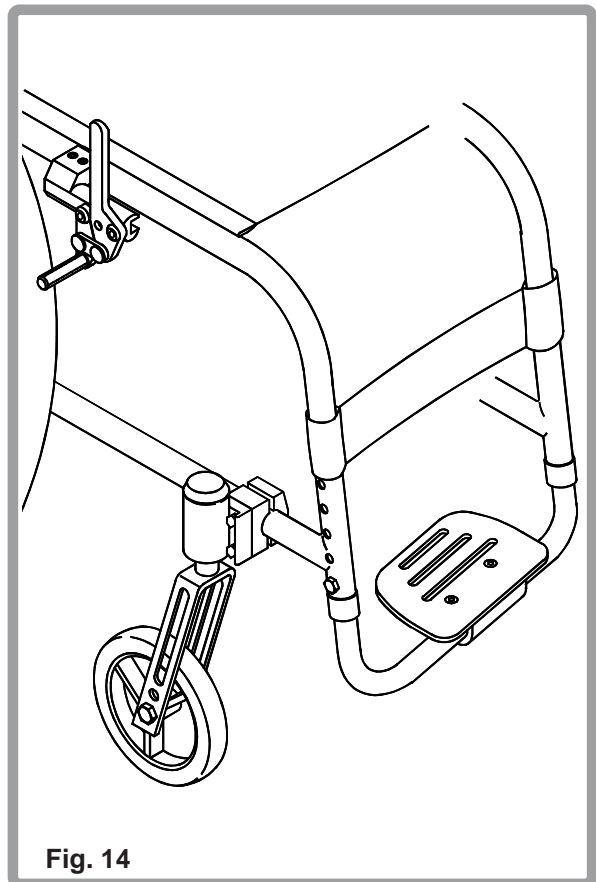


Fig. 14

Swing-away armrests

Swing-away armrests can be detached or will swing away to allow side transfers. To remove the armrest (1), simply pull it upwards until it clears the receiver (2), as shown in Fig. 15. To replace the armrest slide it into the receiver, until you feel it locate at the bottom of the receiver. To rotate the armrest pull upwards approximately 25mm (1") and rotate it away from you. To return the armrest into its normal position, rotate it towards you until you feel it drop slightly and lock into position.

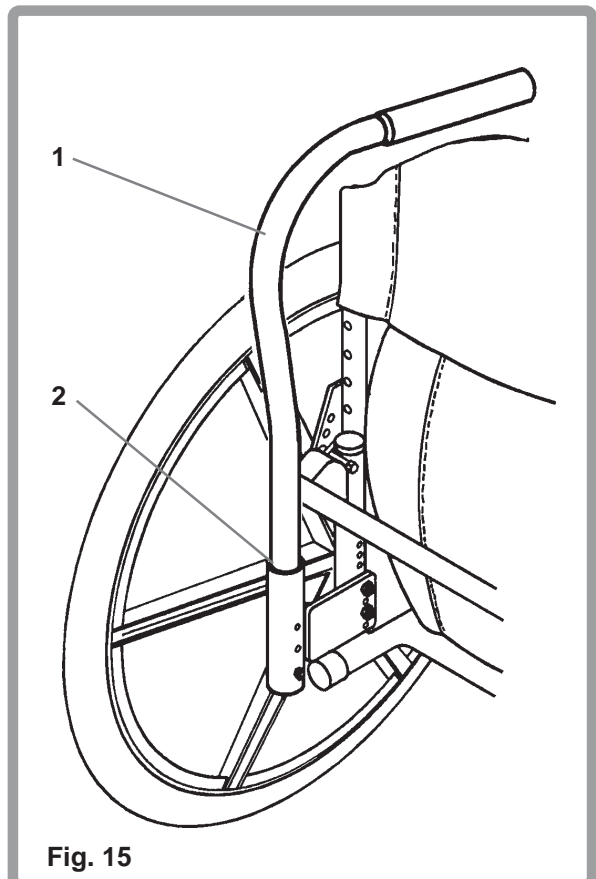


Fig. 15

Chair features

Height-adjustable armrests

To install armrests, slide the outer arm post (1) into the receiver (2). The armrest will automatically lock in place (Fig. 16).

To adjust the armrest height, rotate the release lever (3) to the second stop (Fig. 16B). Slide the armrest pad (4) up or down to the desired height and return the lever to the locked position. Push the arm pad until the upper arm post locks firmly in place.

To detach the armrest, rotate the release lever to the first stop and remove the armrest (Fig. 16C). To replace the armrest, slide the armrest back into the receiver (2) and return the release lever to the locked position (Fig.16).

The armrest can be adjusted to remove free play in the receiver and inner arm post (Fig. 16). To tighten or loosen the fit of the outer post in the receiver, first loosen the four 10mm A/F bolts (5) two on each side of the receiver. With the armrest in the receiver, squeeze the receiver to achieve the desired fit, then tighten the four bolts. To adjust the fit of the inner arm post, two set screws (6) are installed in the outer arm post (Fig 16D). Turn the set screws in or out until the desired fit is achieved using a 3/32" Allen key.

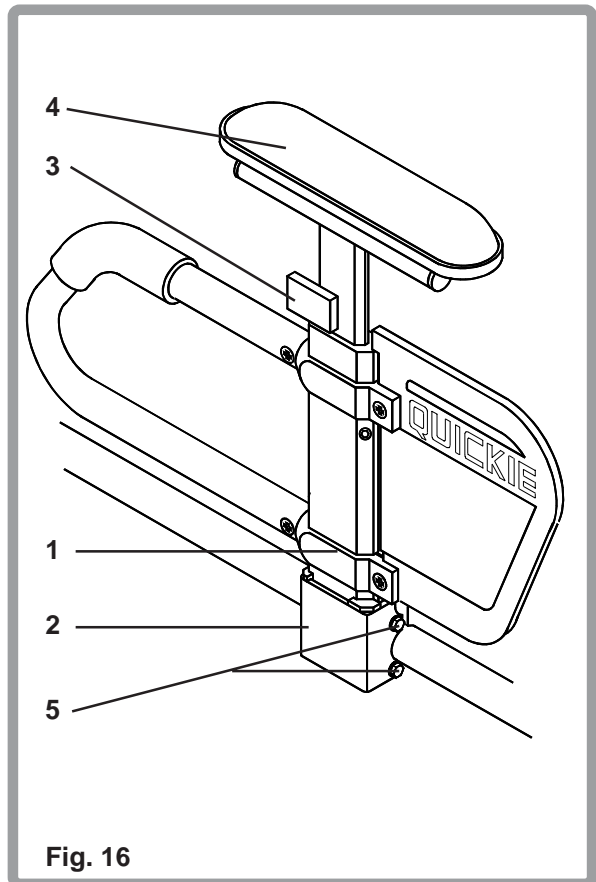


Fig. 16

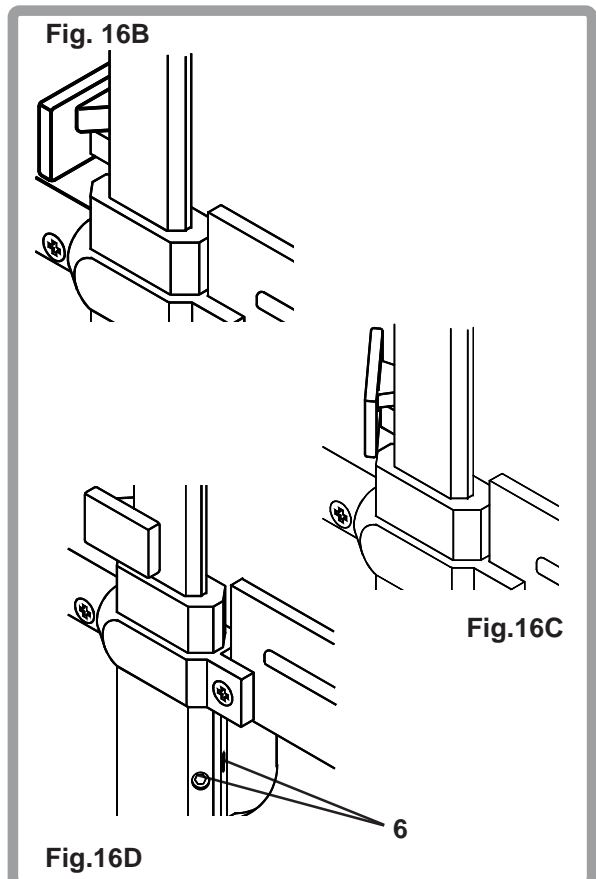


Fig.16D

Fig.16C

Chair features

Folding backrest

To fold the backrest (Fig. 17), pull the strap (1) upwards until the locking levers (2) disengage. Swing the backrest into its folded position. To locate the backrest into the normal seating position simply pull it upright until the locking levers engage on the locking studs (3).

Quick-release axles

To remove quick-release axles (Fig. 18), press the quick release button (1) on the axle with your thumb whilst holding the wheel through the spokes (2) surrounding the hub (3). With the button pressed and the wheel gripped firmly, withdraw the axle and hub together. To place the wheel back on the chair, press the quick-release button (1) on the axle and slide it, with the wheel attached, into the axle sleeve until it locks. Ensure the two locking pins (4) are showing on the inside of the receiver (5).

▲ Warning:

The axle is not secure until the outside quick-release button (1) pops out to its fully extended position.

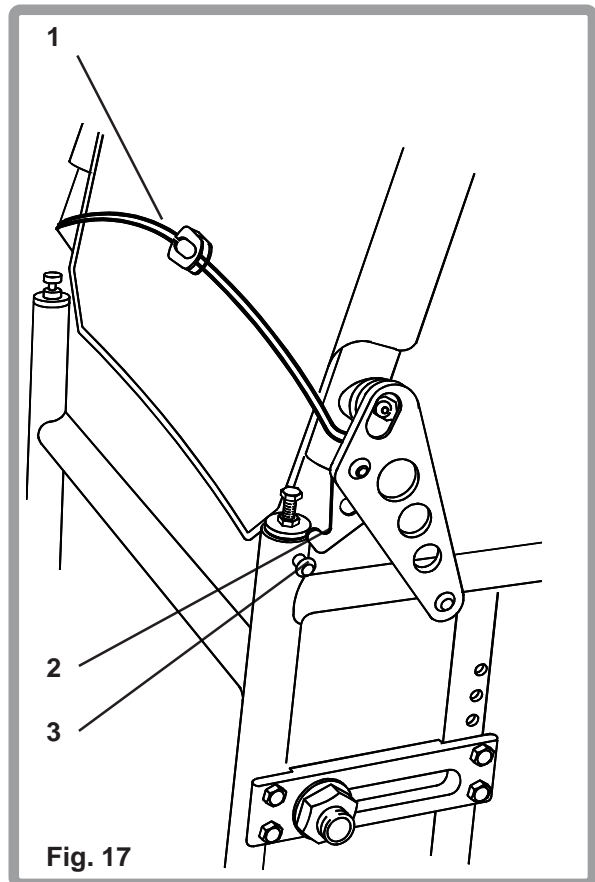


Fig. 17

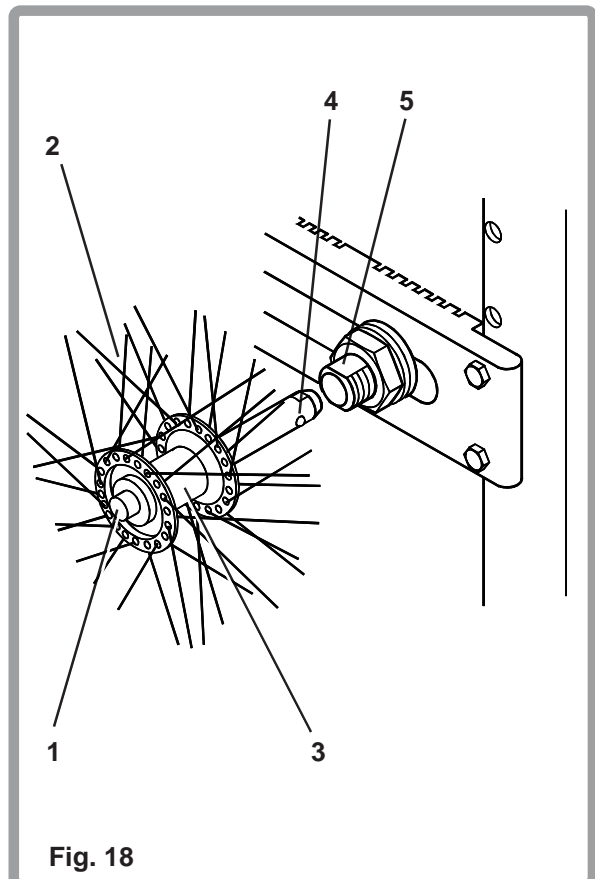


Fig. 18

Chair adjustments

Swing-away footplates

To adjust the height (Fig. 19) of swing-away footplates (1), loosen the screw (2) using a 4mm Allen key located as shown, and set the footplate height to the required position. Tighten the screw to 5-8Nm torque setting.

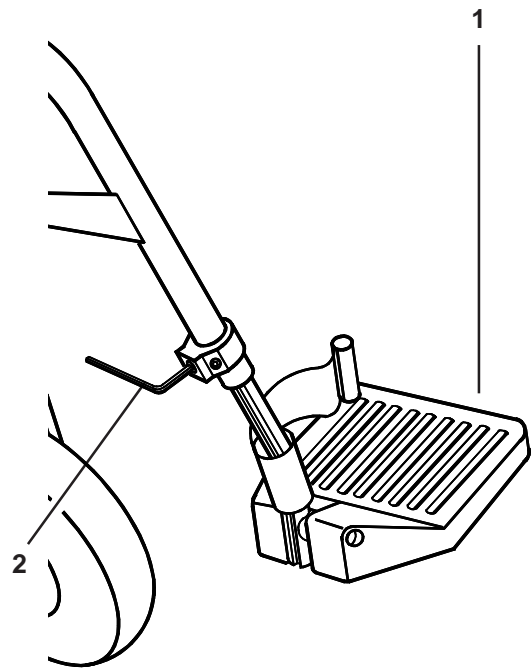


Fig. 19

Fixed footrest

To adjust the height (Fig. 20) of fixed footrests (1) remove the two No 2 Philips screws (2) on both sides of the front frame (3), position the footrest as required, locate the Philips screws in the correct holes and tighten to a torque setting of 5Nm.

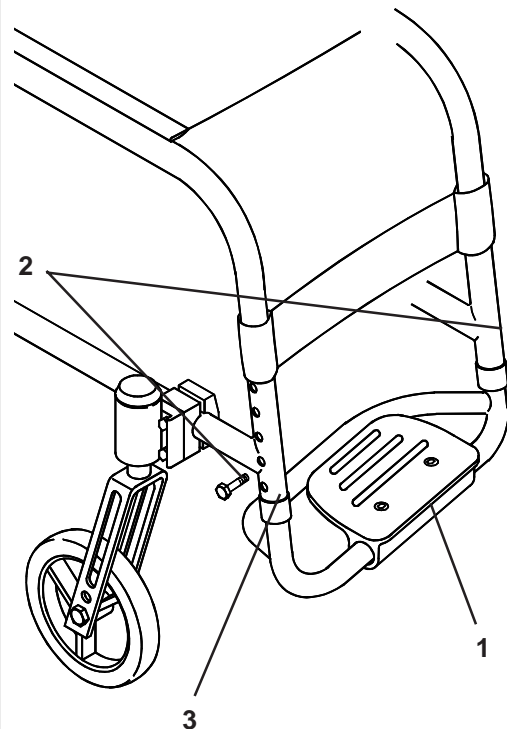


Fig. 20

Chair adjustments

Rear axle positions seat height

Seat height (Fig. 21) can be adjusted by moving the axle plate (1) up or down the frame (2) within a range of 50mm (2") seat height adjustment. The four bolts (3) and nuts (4) per axle plate must be removed and positioned as required, then tightened to 8-10Nm torque, using two 10mm A/F spanners. Both axle plates must be positioned in the same hole setting on each side to ensure that the chair is level.

Note

After changing the seat height always check:

Toe in/toe out (Fig. 25)

Angle of castors (Fig. 36)

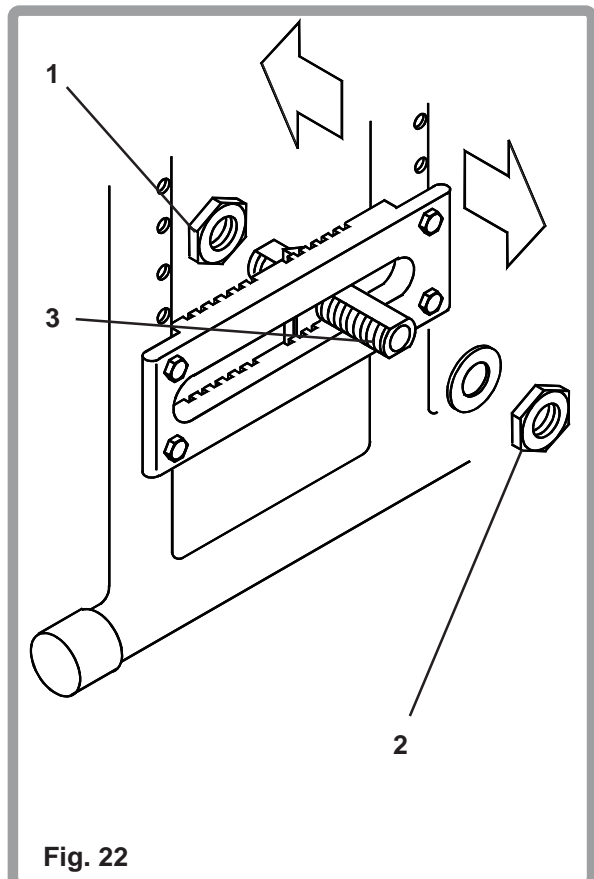
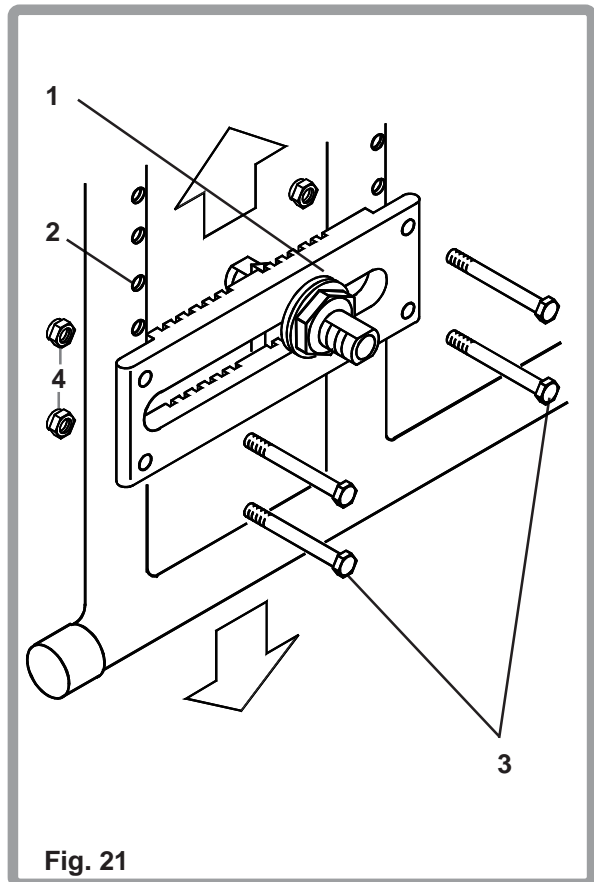
Both axles are in identical positions.

Wheelbase width

The wheelbase width (Fig. 22) is the distance between the wheels and is adjusted by loosening the inner (1) and outer axle sleeve nuts (2), using two 28mm A/F spanners, and positioning the axle sleeve (3) where required. The nuts must be tightened using a torque spanner to 45Nm torque.

Note

To achieve the narrowest possible wheeltrack the axle plates may be positioned on the inside of the frame tubes. Both axles should be positioned identically.



Chair adjustments

Centre of gravity

The centre of gravity (Fig. 23) is adjusted by moving the axle sleeve (1) backwards or forwards on the indexed axle plate (2). To move the axle sleeve under the outer 28mm A/F retaining nut (3) sufficiently to allow the locking washer (4) and the axle sleeve assembly to slide in the axle plate, find the desired index slot (5), and tighten the retaining nuts, to 81Nm torque.

Note

After changing the centre of gravity always check:-

Toe in/toe out (Fig. 25)

Angle of castors (Fig. 36)

Both axles are in identical positions.

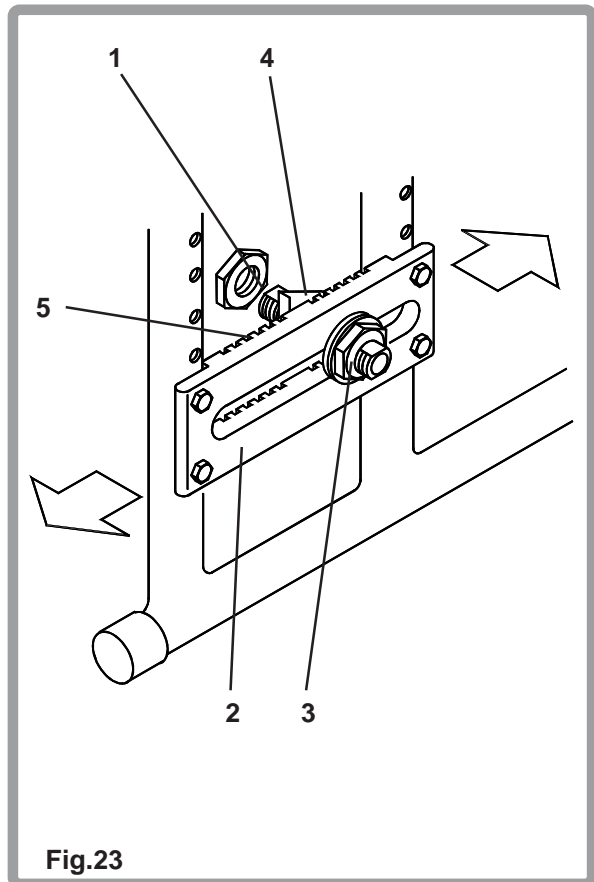


Fig.23

Rear wheel camber

Wheel camber (Fig. 24) is preset at the factory at 2°. More or less camber can be obtained by increasing or decreasing the number of camber washers (1) located between the bottom of the axle plate (2) and frame (3). The 10mm A/F retaining bolts (4) and nuts (5) must be removed, the required number of washers inserted and the retaining bolts and nuts replaced and tightened to 8-10Nm torque.

Note

After changing the rear wheel camber always check:-

Toe in/toe out (Fig. 27, page 24)

Angle of castors (Fig. 35, page 29)

Both axles are in identical positions.

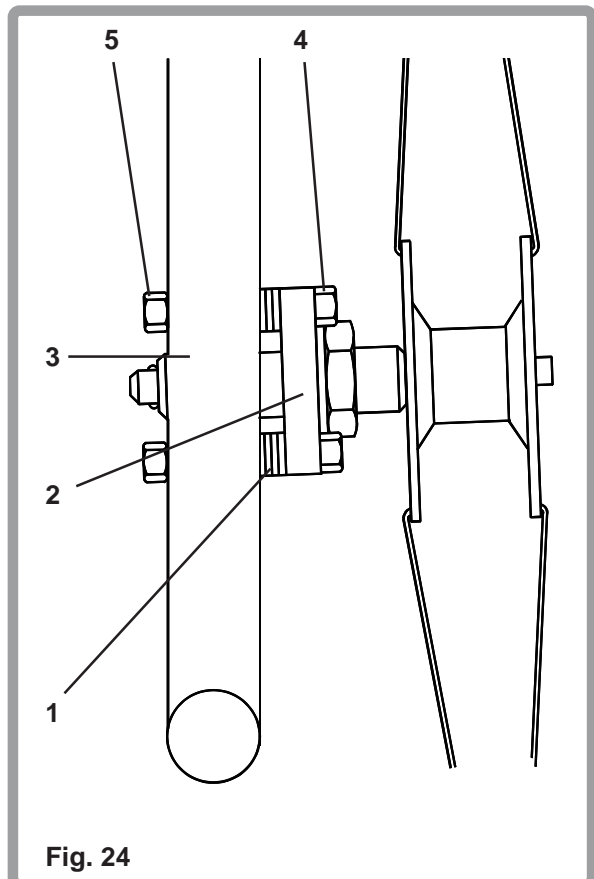


Fig. 24

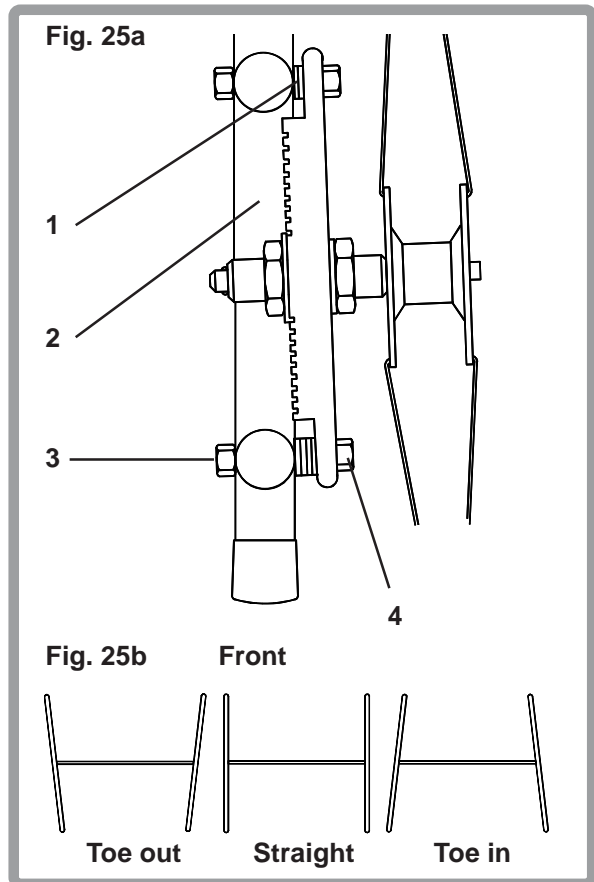
Chair adjustments

Rear axle toe in or toe out

The toe in (Fig.25b) is set at the factory. Should you require more toe in or toe out (Fig. 25a) increase or decrease the number of washers (1) at the front or rear of the axle plate (2). More washers at the front decreases toe in and increases toe out. More washers at the rear increases toe in and decreases toe out. Remove the four 10mm A/F axle plate nuts (3) and bolts (4), add or remove washers as required and replace the bolts and nuts and tighten to 8-10Nm torque.

⚠ Warning

Always ensure that toe in / toe out is less than 15mm. Excessive toe in/ toe out may cause higher wear on the tyres and friction when riding the chair in a straight line.



Chair adjustments

Folding backrest height adjustment

The backrest comes with a 100mm (4") height adjustment (Fig. 26). Remove the backrest upholstery from the frame, by undoing the Velcro® and sliding over and off the backrest tubes.

You will see the backrest tube which telescopes into the backrest frame and is secured by a screw (1) on the side of the backrest frame (2). There are four holes (3), 25mm (1") apart, which you may choose from to set the back height. After selecting the desired height secure the screw into the right hole and tighten to 8-10Nm torque using a 5mm Allen key. Slide the backrest upholstery back on with the overlap portion unattached. Secure the Velcro® on the side tubes and fold the excess overlap down over the front of the backrest.

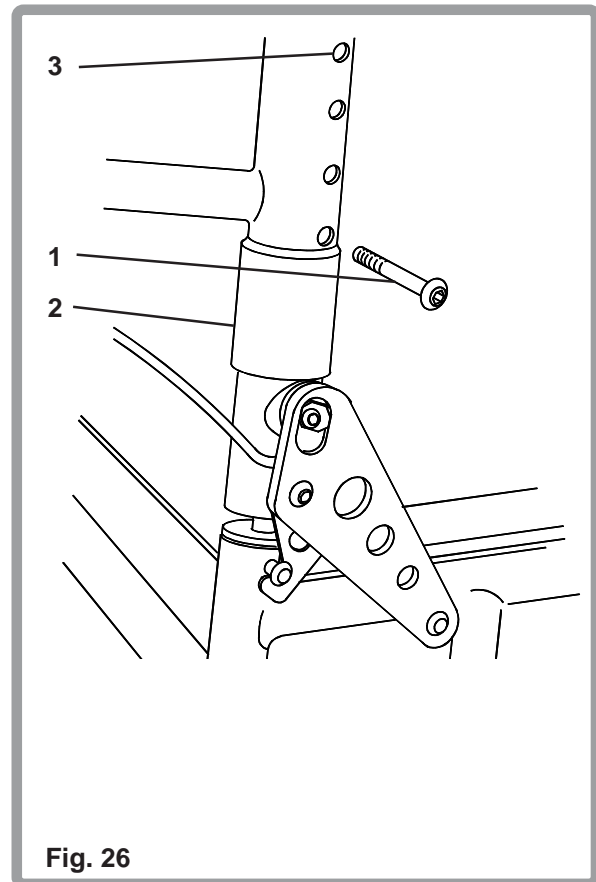


Fig. 26

Folding backrest angle adjustment

The backrest comes with an 8° angle adjustment (Fig. 27). To adjust the angle, loosen the bottom bolt (1), remove the top bolt (2), and rotate the eccentric washer (3) to the desired angle. Refit the washer and top bolt, and tighten both bolts to 8-10Nm torque with a 4mm Allen key.

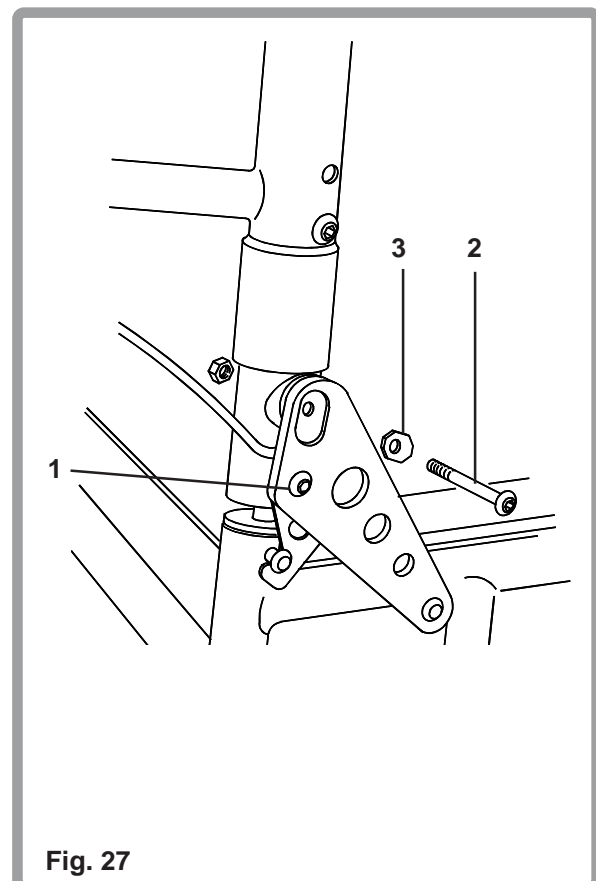


Fig. 27

Chair adjustments

High mount wheel locks

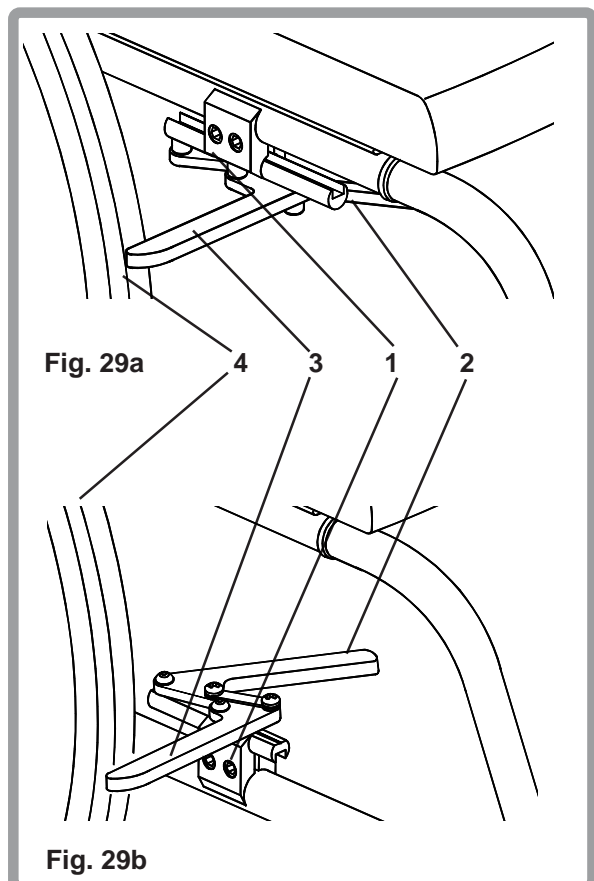
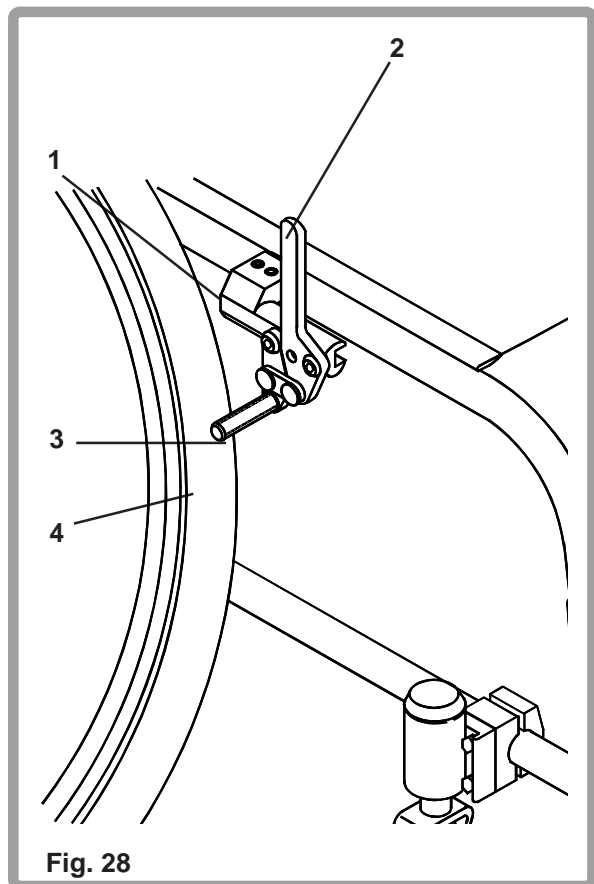
The wheel locks (Fig. 28) mount on a clamping system (1) and are correctly set prior to leaving the factory. To apply the wheel lock simply push the operating lever (2) forwards until you feel it go over centre, and the grip bar (3) grips the tyre (4).

Scissor wheel locks

The wheel locks (Fig. 29a) mount on a clamping system (1) and are correctly set prior to leaving the factory. To apply the wheel lock simply pull the operating lever (2) forwards until you feel it go over centre, and the grip bar (3) grips the tyre (4). Scissor locks can be mounted on the lower frame, either on the top side of the frame or on the underside. When moving the locks to the top side of the lower frame (Fig. 29b), the left hand lock must be mounted on top of the lower frame tube, on the right hand side of the chair and vice versa.

⚠ Warning:

Wheel locks are not brakes designed to slow down the chair when it is moving. Wheel locks, when properly adjusted, prevent the rear wheels from turning when the chair is stationary.



Chair adjustments

Wheel locks

To adjust, loosen the screws (1) on the top or side of each clamp (2). Using a 5mm Allen key turn one of the screws anticlockwise $\frac{1}{4}$ turn. Repeat the same process with the second of the two screws (Fig. 30). Loosen the screws until the clamp can slide freely. Slide the clamp towards the rear wheel until the grip bar (3) embeds into the tyre (4) approximately 4mm ($\frac{3}{16}$ ") when in the locked position. Tighten the screws to a torque setting of 15Nm. Some adjustments to the wheel lock position can be accomplished without moving the clamp. To adjust, loosen the two screws as above. Slide the mounting bar (5) forward or backwards and rotate it to the correct angle position. The grip bar should embed into the tyre approximately 4mm ($\frac{3}{16}$ ") when in the locked position. Tighten the screws to a torque setting of 15Nm.

Note: The above instructions also apply to adjusting scissor locks (Fig. 31).

⚠ Warning:

Wheel locks when properly adjusted, prevent the rear wheels from turning when the chair is stationary. Always adjust the wheel locks after making any changes to the rear axle sleeves position, so that the grip bar embeds into the tyre approximately 4mm ($\frac{3}{16}$ ") when in the locked position.

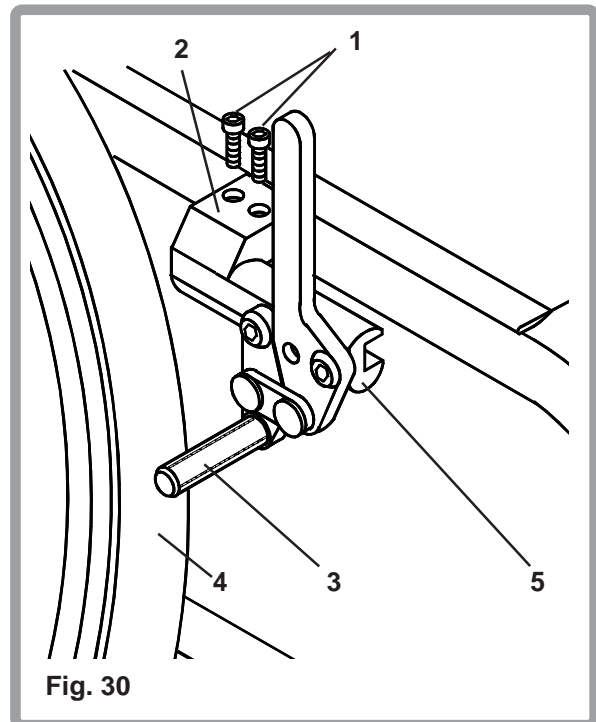


Fig. 30

Scissor locks

Follow the instructions for high mount push to lock wheel locks, but note the clamping screws (1) are positioned on the sides of the clamps (2).

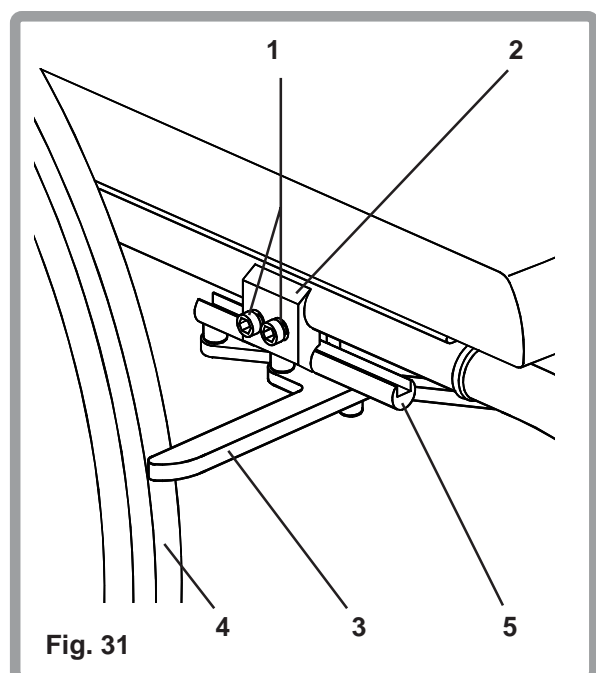


Fig. 31

Chair adjustments

Knee brake

Operating position and adjustment instructions for the kneebrake wheel lock are shown in Fig. 21.

Slacken the two screws (1) on the wheel lock clamp and slide the brake to achieve the correct wheel lock gap, then retighten.

The wheel lock gap (2) (which is the gap between the nearest point of the wheel lock and the tyre) should be 3mm with pneumatic tyres (tyres filled with air) and 5mm with solid tyres, when the wheel lock is in the released position.

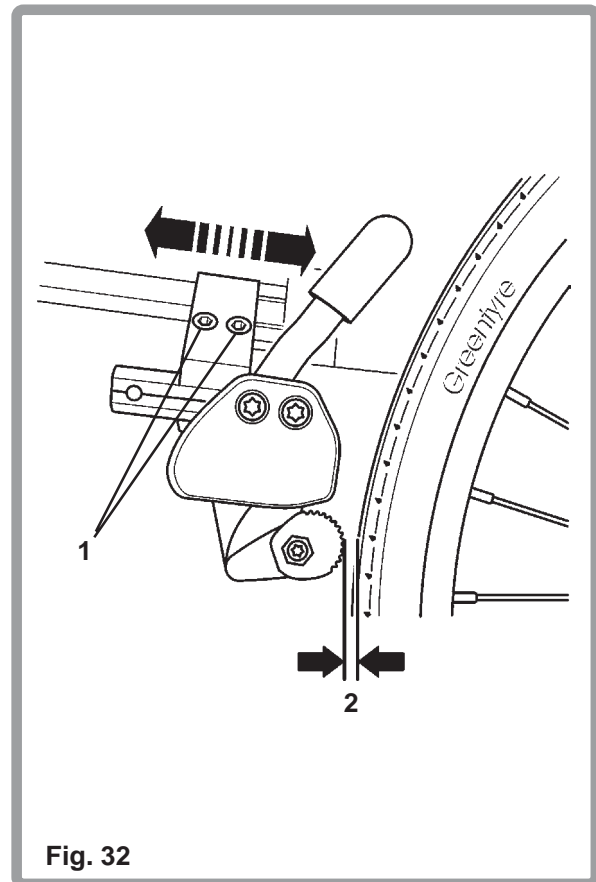


Fig. 32

Seat sling tensioning

The seat sling can be re-tensioned through the use of Velcro® panels (1) underneath the seat (Fig. 33). Remove the No 2 Philips screws (2) retaining the left side of the seat sling with a No 2 Philips screwdriver, re-adjust the Velcro® to bring the sling to its correct tension. Replace the screws and tighten to 5-8Nm torque.

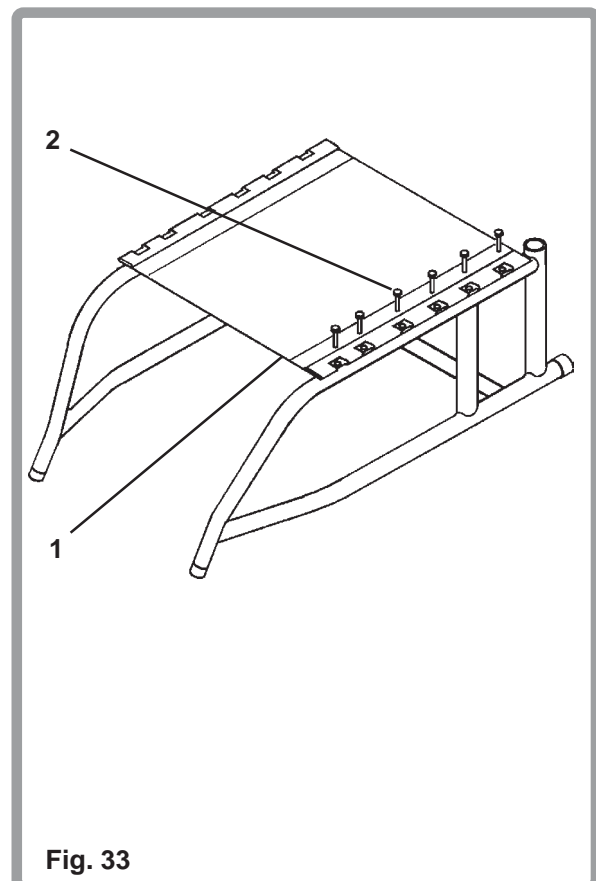


Fig. 33

Chair adjustments

Castor adjustment

To remove play from the castor stem (Fig. 34), remove the dust cover (1) by gently levering it up. Tighten nut (2) with a 19mm A/F socket spanner until all play is removed, yet still allows the castor to rotate freely. Replace the dust cover by snapping it back in place.

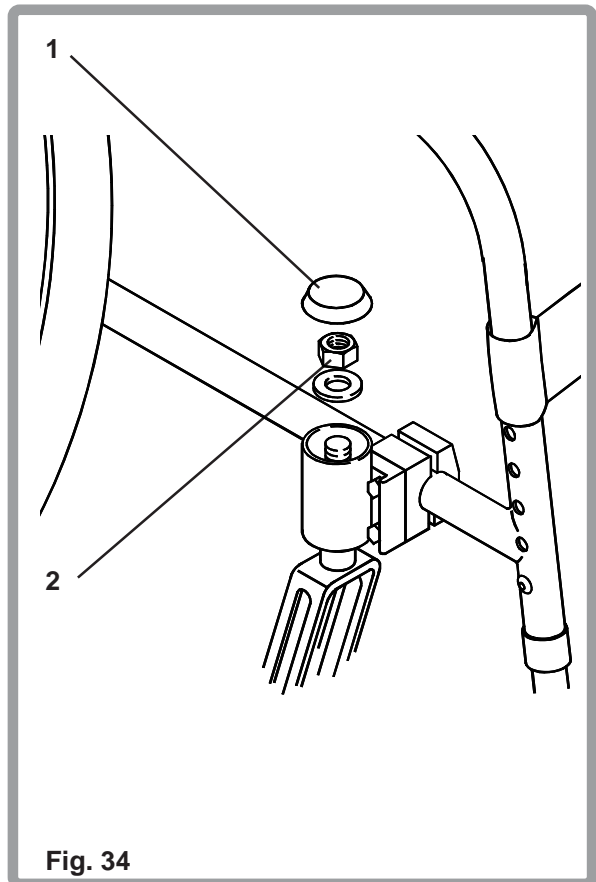


Fig. 34

Castor forks

Two-hole castor forks (Fig. 35) allow you to interchange 125mm (5"), 150mm (6") and 200mm (8") castor wheels and to adjust the seat height. To adjust, remove the axle bolt (1) and nut (2) with 13mm A/F spanners and remove the castor wheel (3). Either change the castor wheel size and/or position the castor wheel upward or downward in the desired pre-drilled holes (4) 25mm (1") apart on the castor fork (5). Replace the bolt and tighten to 27Nm.

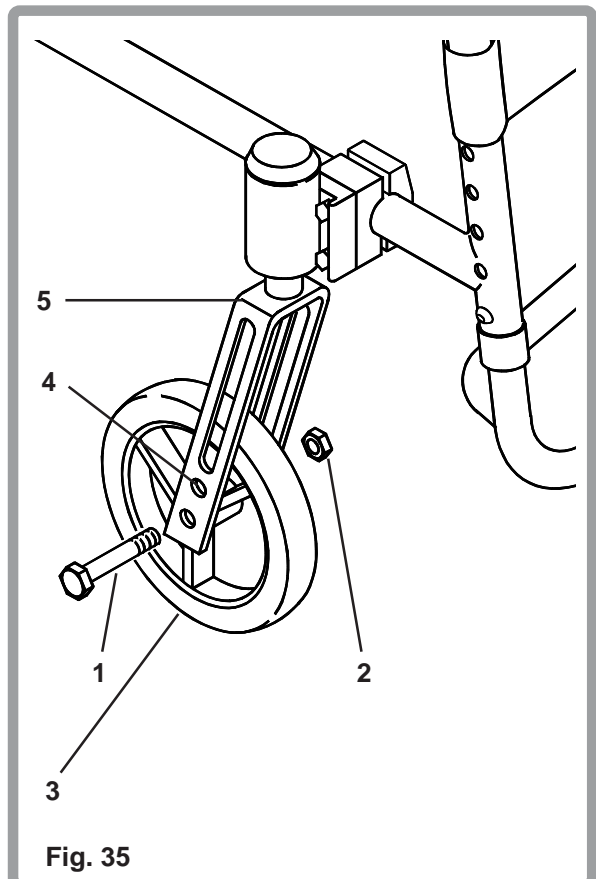


Fig. 35

Chair adjustments

Angle adjustment

Place the chair on a flat surface (such as a table). Loosen the two eccentric bolts (1) and 10mm A/F nuts (2) that secure the castor assembly (3) (do not remove the clevis pin (4)). Using a large right angled object (5) placed on the flat surface and against the front of the castor bearing housing, align the castor housing perpendicular to the flat surface. When alignment is satisfactory, retighten the two eccentric bolts to 8-10Nm torque (Fig. 36). Repeat the process for the other castor.

▲ Warning:

An incorrect castor angle will cause friction when turning the chair.

Forward or rearward placement

Loosen the two eccentric bolts (1) sufficiently to allow the castor to slide smoothly along the frame (Fig. 37). Remove the clevis pin (2) by taking off the locking spring (3). Slide the castor plate forward, or backward and insert the clevis pin into one of three pre-drilled frame holes (4) and replace the clevis pin locking spring. Follow the instructions for castor angle adjustment given above.

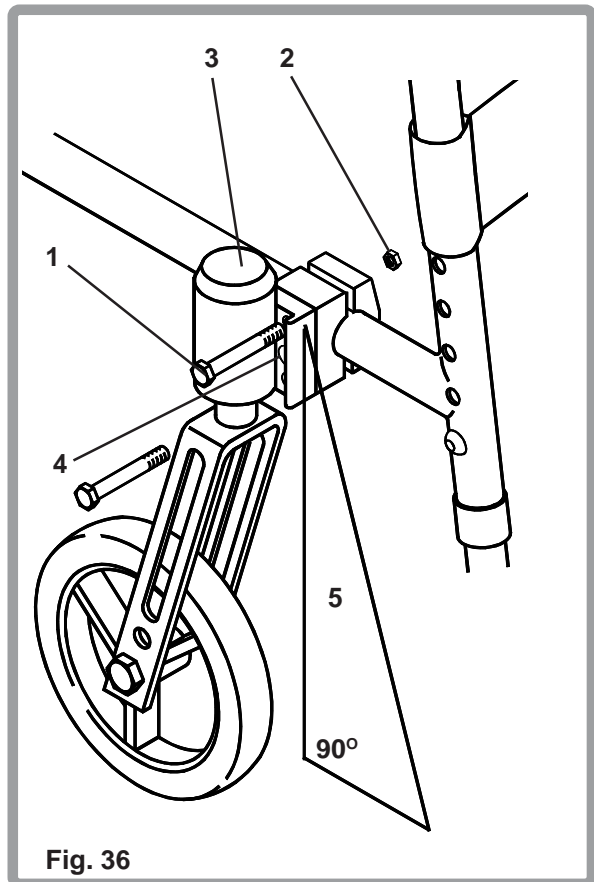


Fig. 36

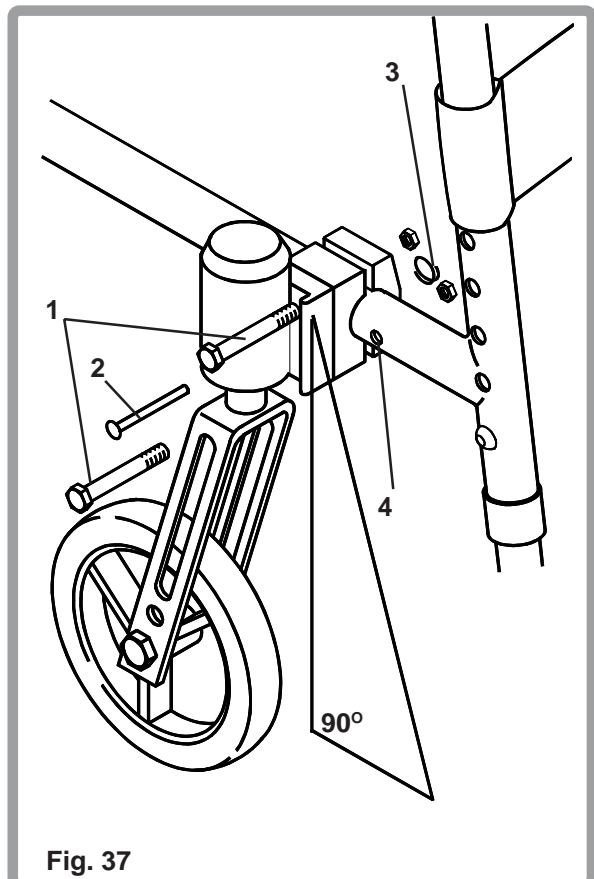


Fig. 37

Chair adjustments

Inside mounted castors

To inside mount the castors (Fig. 38) reverse the positions of the castor assemblies. Remove the castor assemblies (1) from the frame (noting their positions). Inside mount the right castor on the left side and the left castor on the right side. For correct refitting follow the instructions on page 29 Fig. 35 and Fig. 36 (castor angle and/or forward/rearward placement).

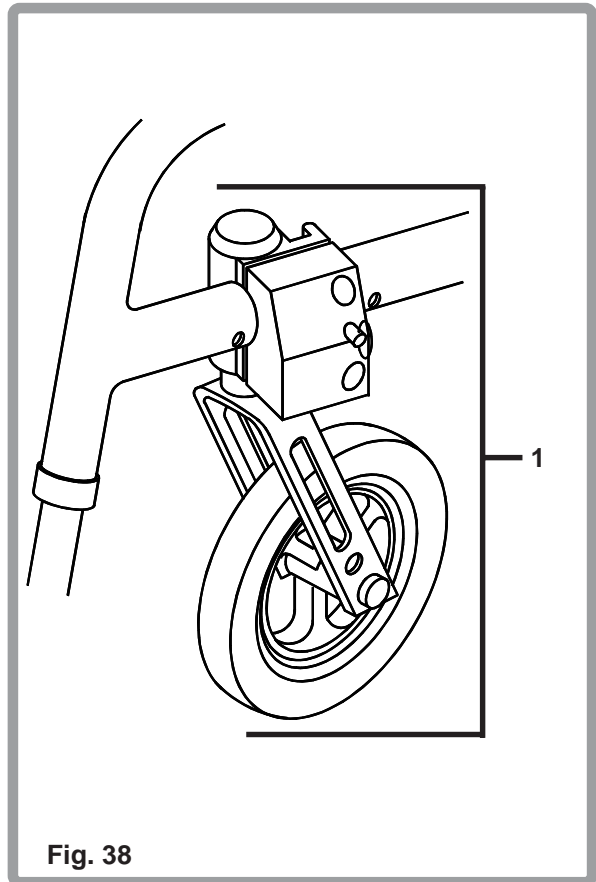


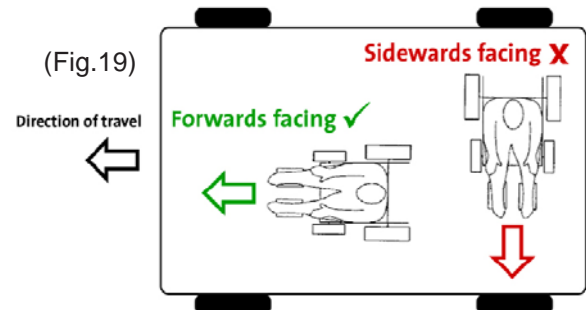
Fig. 38

Transportation

A wheelchair secured in a vehicle will not provide the equivalent level of safety and security of a vehicle seating system. It is always recommended that the user transfers to the vehicle seating. It is recognised that this 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 should be followed.

1. Confirm that the vehicle is suitably equipped to transport a passenger in a wheelchair, and ensure the method of access/egress is suitable for your wheelchair type. The vehicle should have the floor strength to take the combined weight of the user, the wheel chair and accessories.
2. Sufficient space should be available around the wheelchair to enable clear access to attach, tighten and release the wheelchair and occupant tie down restraints and safety belts.
3. 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 manufacturers' instructions.
4. 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. (Fig19)

⚠ Warning There is a risk of serious injury or death if this if this advice is ignored.

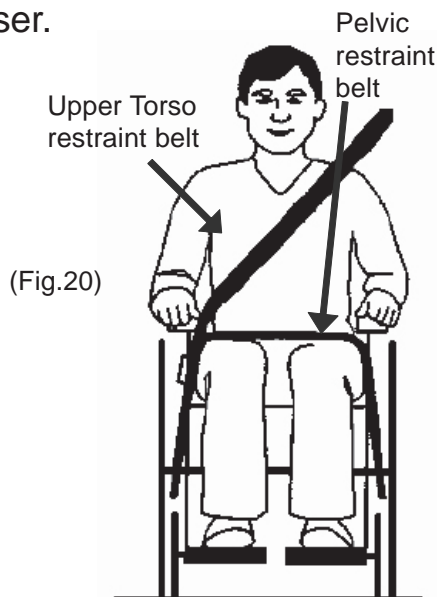


5. The wheelchair should be secured by a Tie Down Restraint system, conforming to ISO 10542 or SAE J2249 with non-adjustable front straps and adjustable rear straps, which typically use Karabiner clips/S hooks and tongue and buckle fittings. These restraints generally comprise of 4 individual straps that are attached to each corner of the wheelchair.
6. The tie-down restraints should be fitted to the main frame of the wheelchair as indicated in the diagram on the following page, and not to any attachments or accessories, e.g. not around the spokes of wheels, brakes or footrests.
7. The tie-down restraints should be attached as close as possible at an angle of 45 degrees and tightened securely in accordance with the manufacturer's instructions.
8. Alterations or substitutions must not be made to the wheelchair securement points or to structural and frame or components without consulting the manufacturer.

Transportation

Failure to do so will invalidate the ability of a Sunrise Medical wheelchair to be transported within a vehicle.

9. Both pelvic and upper torso restraint belts must be used to restrain the occupant to reduce the possibility of head and chest impacts with the vehicle components and serious risk of injury to the user and other vehicle occupants. (Fig 20) The upper torso restraint belt should be mounted to the vehicle "B" pillar - failure to do so will increase the risk of serious abdominal injuries to the user.



10. A head restraint suitable for transportation (see label on headrest) must be fitted and suitably positioned at all times during transportation.

11. 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

12. The safety of the user during transportation depends upon the diligence of the person securing the tie-down restraints and they should have received appropriate instructions and/or training in their use.

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

Crutches

Loose cushions

Tray Tables

14. Articulating/elevating leg rest should not be used in the elevated position when the wheelchair and user are being transported and the wheelchair is restrained using Wheelchair Transport and Occupant Restraints.

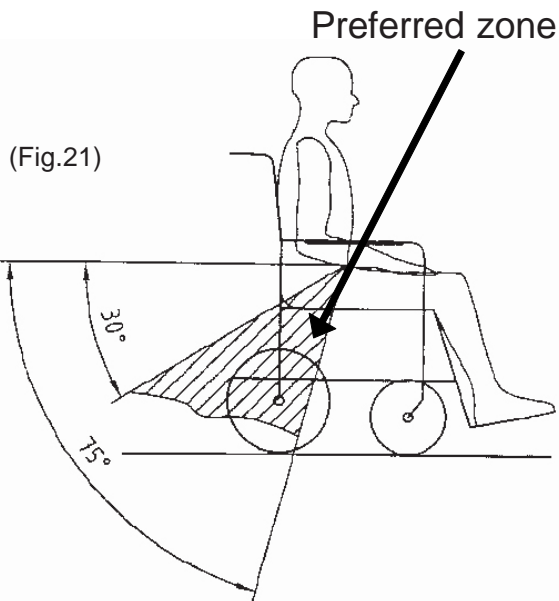
15. Reclining backrests should be returned to an upright position.

16. The manual brakes must be firmly applied

Occupant Restraints Instruction

1. The pelvic restraint belt must be worn low across the front of the pelvis so that the angle of the pelvic belt is within the preferred zone of 30 to 75 degrees to the horizontal.

A steeper (greater) angle within the preferred zone is desirable i.e. closer to, but never exceeding 75degrees. (Fig 21)



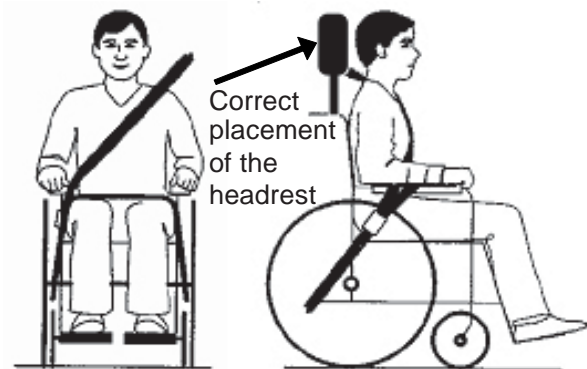
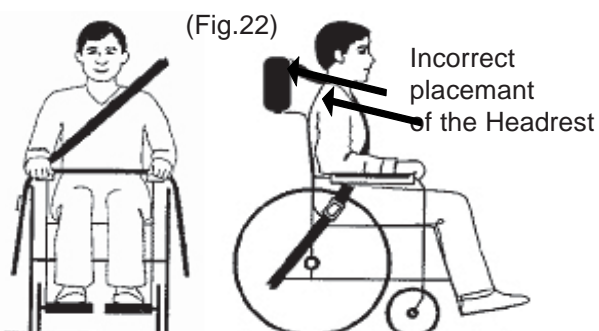
2. The upper torso restraint belt must fit over the shoulder and across the chest as illustrated Fig 22 and Fig 23.

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

Restraint belt webbing must not be twisted when in use.

The upper torso restraint belt must fit over the shoulder and across the shoulder as illustrated in Fig 22 and Fig 23.

3. Restraints should be mounted to the vehicle “B” pillar and should not be held away from the body by wheelchair components such as armrest or wheels.



4. The attachment points to the chair are the inner front side frame just above the castor and the rear side frame. The straps are fitted around the side frames at the intersection of the horizontal and vertical frame tubes. (See Figs 24-28)

5. The tie down symbol (Fig 29) on the wheelchair frame indicates the position of the wheelchair restraint straps. The straps are then tensioned after the front straps have been fitted to secure the wheelchair.



Fig 29
Tie Down
Label

Transportability – positioning of wheelchair tie down restraints on wheelchair

Fig 24



The wheelchair secured with front and rear wheelchair tie down restraints. Positioning of the restraint straps is shown in more detail below.

Transportation

Fig 25

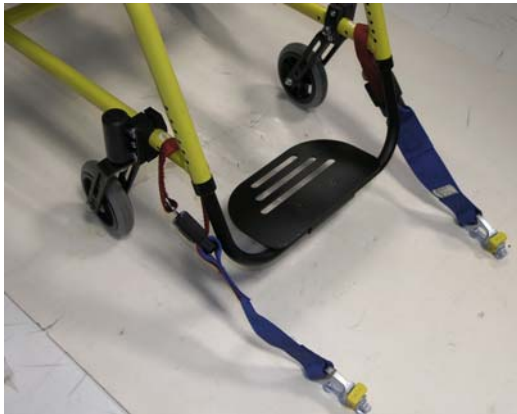


Fig 28



Position of the rear wheelchair tie down restraint and the tie down label on the wheelchair.

Fig 26



Position of the front wheelchair tie down restraint and the tie down label.

Fig 27



Lap belt instructions

⚠ Before using your wheelchair ensure the seat belt is worn and correctly adjusted before use.

The lap belt is fitted to the wheelchair as shown in the illustrations. The lap belt is fitted to the rear frame with the tri glide supplied. The belt should then be run around the backrest post and backrest bracket.

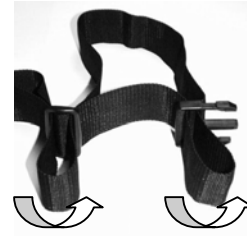


⚠ It is important that the belt is routed around the back of the wheelchair. The buckle end can be fed between the side guard and the back post

Adjust the belt position so that the buckles are in the centre of the seat.

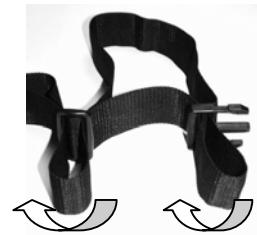
Adjust the lap belt to suit the user's needs as follows:

To increase the belt length



Feed the belt through slide adjusters and male buckle to provide more belt length

To reduce the belt length:



Feed the belt back through male buckle and slide adjusters

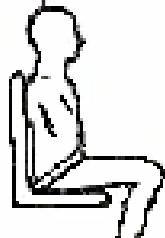


Ensure the belt is not looped at the male buckle

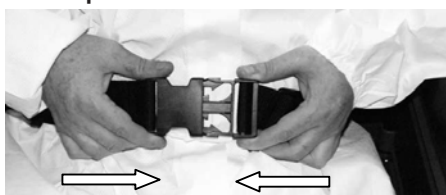


Lap belt instructions

When fastened check space between the lap belt and the user, when correctly adjusted it should be possible to insert the flat of the hand between the lap belt and the user.

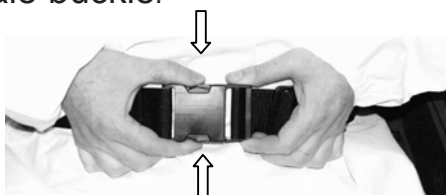


Generally the Lap Belt should be fixed so that the straps sit at an angle of approximately 45°, and when correctly adjusted should not allow user to slip down in the seat.



To fasten buckle:

Firmly push the male buckle into female buckle.



To release belt: -

Press the exposed sides of the male buckle and push towards the centre whilst gently pulling apart.

⚠ Do not rely on the lap belt only when the wheelchair and occupant are transported in a vehicle, use the separate occupant lap and diagonal restraints provided in the vehicle.

Advice to Client:

The lap belt must be checked on a daily basis to ensure it is adjusted correctly and it is free from any obstruction or adverse wear.

⚠ Failure to make sure that the lap belt is secure and adjusted prior to use could cause serious injury to the user. E.g. too loose a strap may allow the user to slip down in the chair and risk suffocation.

Maintenance:

Check lap belt, and securing components; at regular intervals for any sign of fraying or damage. Replace if necessary.

Clean the lap belt with warm soapy water and allow to dry.

Note:

The lap belt should be adjusted to suit the end user as detailed above

Sunrise Medical also recommend that the length and fit of the belt is checked on a regular basis to reduce the risk of the end user inadvertently re-adjusting the belt to an excessive length

⚠ If in doubt about the use and operation of the seat belt then ask your healthcare professional, wheelchair dealer, carer or attendant for assistance.

Maintenance schedule

All Quickie GP wheelchairs leave the factory inspected and adjusted for immediate use. Continuous use will require routine maintenance and adjustments, especially if original settings are altered. Initial adjustment, carried out by your wheelchair prescriber/supplier, should accommodate your body structure and personal preference.

The following table gives an indication as to when routine maintenance checks should be made which will help sustain the life and efficiency of your wheelchair.

| Quickie GP range CHECK LIST | | | | |
|--|--------|-----------|-------------|----------|
| | WEEKLY | QUARTERLY | SIX MONTHLY | ANNUALLY |
| GENERAL | | | | |
| 1. Tyre pressure - 450 kilopascals/4.5 bar (65 psi) (rear wheels). 250 kilopascals/2.5 bar (36 psi) (castor wheels). | ● | | | |
| 2. Wheel locks - Check for loose fasteners. | | ● | | |
| 3. Castor (front) wheels - Check that the swing-away mechanism and castor wheel rotate freely. | | ● | | |
| 4. Roll of wheelchair - Check that the wheelchair rolls in a straight line with no excess drag or pull. | | ● | | |
| 6. Folding of the backrest - Check the backrest folds and opens smoothly. Check for loose fasteners. | | ● | | |
| 7. Armrests (swing-away) - Check that all fasteners are secure and that all mechanisms work freely. | | ● | | |
| 5. Seat sling and back upholstery - Check for wear or 'sagginess' in the upholstery. | | | ● | |
| 8. Complete inspection, safety check and service should be made by an authorised Sunrise Medical supplier or wheelchair agent. | | | | ● |
| 9. Frame and axle plates | | | ● | |

Spoke Tension Maintenance

Check for loose or broken spokes every 3 months.

Tighten loose spokes so that they are the same tension as the others.

Contact an authorised dealer / maintenance centre to replace broken spokes.

Cleaning guidelines

In addition to the maintenance checks on the previous page, general cleaning of both the frame and upholstery should be undertaken. To maintain its appearance the upholstery should be cleaned regularly. Light soiling can be removed by sponging with a mild detergent and warm water, wiping in the direction of the texture. Rinse off with clean water before allowing to dry.

▲ DO NOT PUT UPHOLSTERY IN A DRYER.

Do not use bleach or solvents. If dirt is ingrained, the surface should be scrubbed with a soft brush.

The frame should be cleaned regularly with a non-abrasive cleaner followed by polishing with a non-abrasive automotive wax.

Accessories

Anti-tip tubes
Armrest pouch
Backpack
Caddy
Crutch holder
Leg strap
Positioning belts:
 Long Velcro® style 170cm (67")
 Short Velcro® style 145cm (57")
 Long buckle 163cm (64")
 Short buckle 137cm (54")
Seat pouch
Spoke guard-clear
Spoke guard-black
Step tube-left
Step tube-right
Swing-away tray table
Tool kit
Touch up paints
Tray table
 Extra small 26-30cm (10"-12")
 Small 33-36cm (13"-14")

JAY Seating and positioning systems are available. Contact Customer Services for individual requirements.

Tools

To maintain the wheelchair you will need the following tools:-

An adjustable spanner
2, 3, 4, 5, 6 and 7mm Allen keys
3/32" Allen key
A spoke key
10, 13, 17, 19 and 28mm A/F spanners
Phillips No. 2 screwdriver

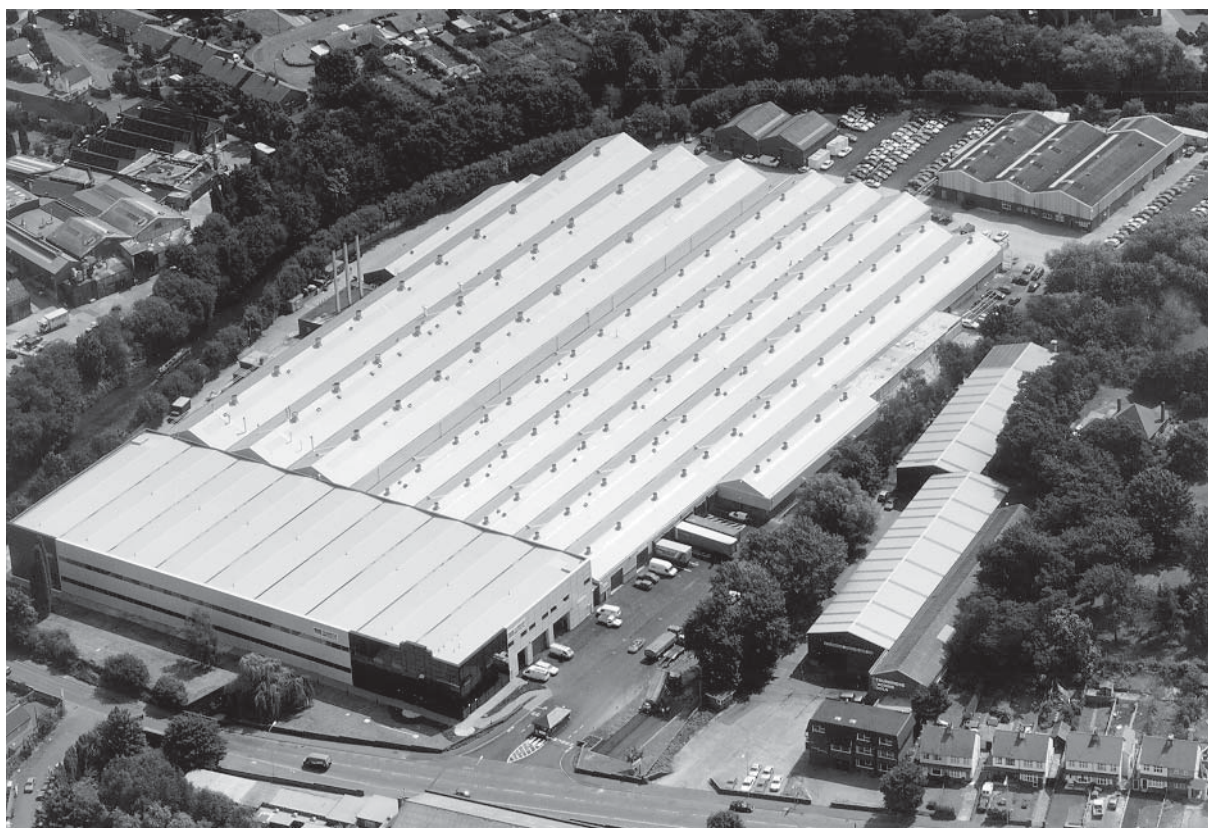
Quickie GP range

| | |
|--|-----------------------------------|
| Overall length with legrest | 880mm min.-955mm max. |
| Overall width | 683mm |
| Folded length (rear wheels removed) | 813mm |
| Folded width (rear wheels removed) | 456mm |
| Folded height (rear wheels removed) | 500mm |
| Total mass | 11kg - 10.5kg (GP SA) |
| Mass of heaviest part | 8kg |
| Static stability downhill (brakes locked) | 1° min.-27° max. |
| Static stability uphill (brakes locked) | 1° min.-13.5° max. |
| Static stability sideways (brakes locked) | 1° min.-21° max. |
| Seat plane angle | 5° |
| Effective seat depth | 420mm |
| Effective seat width | 430mm |
| Seat surface height at front edge | 443mm |
| Backrest angle | 15° |
| Backrest height | 345mm min.-445mm max. |
| Footrest to seat distance | 397mm min.-467mm max. |
| Leg to seat surface angle | 104.6° |
| Armrest to seat distance | Not applicable |
| Front location of armrest structure | Not applicable |
| Handrim diameter | 532mm |
| Horizontal location of axle | 45mm to front-45mm to rear |
| Minimum turning radius | 606mm |

Sunrise Medical

Your new GP is manufactured in the West Midlands by Sunrise Medical. With over 30 years experience, we are one of the longest established mobility equipment manufacturers in the UK. All our Wheelchairs, Powerchairs, Scootas and Stairlifts 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.



In addition to your new GP, Sunrise also manufactures oxygen concentrators, nebulizers and hoists. We have a vast range of aids to daily living which include the Merlin Bath Lifter, bed accessories and walking sticks.

Should you require any information on our full range of products please call us on 01384 44 66 88 or contact us at:

Sunrise Medical Limited
High Street Wollaston
West Midlands DY8 4PS
www.sunrisemedical.co.uk











Sunrise Medical Australia Pty Ltd.
11 Daniel Street
Wetherill Park, NSW 2164
Phone: (02) 9678 6600
Email: enquiries@sunrisemedical.com.au
www.SunriseMedical.com.au