



User Manual

OCTANE SUB4



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Octane Sub4 User Manual
UM-OctaneSub4-018-US

WHEELCHAIR
DIRECTIONS FOR USE

Thank you for choosing RGK,

Welcome to the RGK family and we hope the product and service you have received has exceeded your expectations. Please take the time to read the instructions and familiarise yourself with your new wheelchair to ensure you benefit from the maximum safety, performance and longevity.

We want you to be fully satisfied with our products and services and we are constantly working to develop our products further. For this reason, changes can occur within our range of products with regard to form, technology and equipment. Consequently, no claims can be construed from the data or pictures contained in this user manual.

WARNING:

Do not operate this equipment without first reading and understanding this user manual. If you are unable to understand the warnings and instructions, contact RGK or a healthcare professional (doctor / therapist) before attempting to use this equipment - otherwise injury or equipment damage may result.

Set Up Guide:

1. Carefully remove product and any loose parts from the box and ensure nothing is left in the packaging.
2. Read contents of this user manual thoroughly and understand the safety risks.
3. Attach the wheels and separate parts.
4. Check everything is as expected and that all parts are secured, functioning and set up correctly, including tyre pressure.
5. Adjust the upholstery ensuring it provides the right levels of support to suit your posture and comfort requirements.
6. Adjust the footplate height if required to ensure the correct support for your feet and balance.
7. Once ready and in a safe environment, carefully transfer into your new wheelchair and ensure it functions correctly.
8. Before going outdoors or on rougher terrain, ensure you have fully tested the wheelchair and are confident with the balance point and how the chair functions.
9. If you have questions on the set up of your wheelchair, please contact your local authorized dealer. Happy rolling!



As the manufacturer, RGK Wheelchairs declares that the lightweight wheelchairs conform to the 93/42/EEC/2007/47/EEC guideline.

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Transportation

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NOTE:

General advice or best practice

⚠ CAUTION:

Advice to user that potential damage to equipment may occur if the advice is not followed.

⚠ WARNING:

Advice to the user of a Potential Risk of injury if the advice is not followed.

⚠ DANGER:

Advice to the user of a potential risk of serious injury or death if the advice is not followed.

NOTE:

The wheelchairs shown and described in this user manual may not correspond in every detail exactly to your own model. However, all instructions are completely relevant, regardless of possible 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

NOTE:

Please keep a note of your local authorised dealer’s contact details in the space provided. In the event of a breakdown, contact them and try and give relevant details so they can help you quickly.

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Fig 2.



A - BACKREST

B - WHEEL LOCKS

C - REAR WHEELS

D - CASTOR WHEELS

E - CASTOR FORKS

F - FOOTPLATE

G - FOOTPLATE COVER

H - CAMBER AXLE

I - FRAME

J - UNDER SEAT BRACE BAR

K - CUSHION & COVER

L - SIDEGUARD

Safety Summary

Use

Wheelchairs are exclusively for children and adults who are unable to walk or have limited mobility, for their own personal use, when self-propelling and being moved by a third party (pushed by an attendant), within the home and outdoors. The maximum weight limit (includes the user and any weight of accessories fitted to the chair) is marked on the serial number label, which is affixed to the camber axle or the under-seat brace bar.

Warranty can only be considered if the product is used under the specified conditions and for the intended purposes. The intended lifetime of the wheelchair is 5 years.

Please do not use or fit any third-party components to the wheelchair unless they are officially approved by RGK Wheelchairs.

Area of Application

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

- Paralysis
- Loss of extremity (leg amputation)
- Extremity defect deformity
- Joint contractures / joint injuries
- Illnesses such as heart and circulation deficiencies, disturbance of equilibrium or cachexia as well as for elderly people who still have the strength in the upper body.

When considering provision, please also note the body size, weight, physical and psychology constitution, the age of the person, living conditions and environment.

Final Selection of the type of wheelchair to be used by an individual rests solely with the user and their health care professional capable of making such a selection.

WARNING:

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

General safety

The engineering and construction of this wheelchair has been designed to provide maximum safety. International safety standards currently in force have been fulfilled where appropriate. Nevertheless, users may put themselves at risk by improperly using their wheelchairs. For your own safety, the following rules must be strictly observed.

Unprofessional or erroneous changes or adjustments increase the risk of accident. As a wheelchair user, you are also part of the daily traffic on streets and pavements, just like anyone else. We would like to remind you that you are therefore also subject to any and all traffic laws.

Be careful during your first use in your new wheelchair and get comfortable and confident before attempting outdoors or difficult obstacles. It is possible that potholes or uneven ground could cause this wheelchair to tip over, especially when riding uphill or downhill. When riding forwards over a step or up an incline, the body should be leaning forward.

WARNING:

Travelling downhill at higher speeds in your wheelchair can cause castor flutter. This can lead to instability and potentially result in personal injury.

Before each use, the following should be checked:

- Quick release axles on the rear wheels
- Velcro on seats and backrests
- Tyres and tyre pressure
- Wheel locks

Before changing any of the adjustments of the wheelchair, it is important to read the corresponding section of the user manual.

DANGER:

NEVER exceed the maximum load of 110kg for Octane Sub4 (85kg if used with a handbike) for driver plus any items carried on the wheelchair. Please note the weight information for lighter weight options, which are quoted separately. If you exceed the maximum load, this can lead to damage to the chair, or you may fall or tip over, lose control and may lead to serious injury of the user and other people.

Safety Summary Continued

- If and whenever possible, during a journey in a specially fitted vehicle for disabled people, vehicle occupants should use the seats in the vehicle and the appropriate restraint system. This is the only way to ensure that occupants will have the maximum protection if there is an accident.
- To avoid falls and dangerous situations, you should first practice using your new wheelchair on level ground with good visibility.
- This wheelchair should be used exclusively to convey one person at a time. Any other use does not comply with the intended purpose.
- When getting on or off the wheelchair, do not use the footplates. These should be flipped up beforehand and swung to the outside as far as possible. (If applicable)
- Depending on the diameter and setting of the castors, as well as the centre of gravity setting of the wheelchair, the castors may begin to flutter at high speeds. This can lead to the castors being blocked and the wheelchair may tip over.
- In particular, do not travel on an incline without wheel locks, travel at a reduced speed. Riding sideways on to a slope or incline, increases the possibility of the wheelchair tipping over sideways.
- Explore the effects of changing the centre of gravity on the behaviour of the wheelchair, for example on inclines, slopes, all gradients or when overcoming obstacles. Do this with the secure aid of a helper.
- We recommend that novice users use anti-tip tubes.

Weight Training

RGK DOES NOT recommend the use of its wheelchairs as a weight training apparatus. This product has NOT been designed or tested as a seat for any kind of weight training. If occupant uses said wheelchair as a weight training apparatus, RGK shall NOT be liable for personal injury or equipment damage and the warranty will be voided immediately.

WARNING:

Any products left in extreme hot or cold climates could result in hot/cold surfaces which could result in personal injury.

Do not expose the product or any of its accessories to any form of excessive heat or naked flame, including cigarettes.

This product has moving parts and therefore could trap the user's fingers. Use extreme caution when moving.

Stability and Balance

To assure stability and correct operation of your wheelchair, you must at all times maintain balance. Your wheelchair has been designed to remain upright and stable during normal daily activities as long as you do not move beyond the centre of gravity. All activities which involve movement in the chair have an effect on the centre of gravity.

Make sure the castors are pointing in the rearward position whenever you lean forward. This can be achieved by advancing the chair and then reversing it in a straight line. See Fig 1.

Fig 1.



WARNING:

The position of the footrest, camber tube, height, as well as the tautness of the back upholstery are directly related to the chair's stability. Any change to one or any combination of the three may cause the chair to decrease in stability. Use EXTREME caution when using a new seating position for the first time.

WARNING:

Tyre pressure

DO NOT use your wheelchair unless it has the proper tyre pressure (P.S.I.).

DO NOT over inflate the tyres. Failure to follow these suggestions may cause the tyre to explode and cause bodily harm.

Safety Summary Continued

- Anti-tip tubes should prevent the chair tipping over backwards unintentionally. Under no circumstances should they take the place of transit wheels, and be used to transport a person in a wheelchair with the rear wheels removed.
- With extreme settings (e.g. rear wheels in the most forward position) and less than perfect posture, the wheelchair may tip over even on a level surface.
- Do not hang heavy items such as shopping bags or backpacks, on the push handles, head rest or backrest of the wheelchair. These can change the tipping point and there is a risk of tipping backwards.
- When reaching for objects which are in front of, to the side or behind the wheelchair, make sure that you do not lean too far out of the wheelchair. If you do it can change the centre of gravity there is a risk of tipping or rolling over.
- Only use your wheelchair properly. For example, avoid travelling against an obstacle without braking (step, kerb edge) or dropping down gaps, or using escalators.
- Only attempt stairs with the help of an attendant. There is equipment available to help you, e.g. climbing ramps or lifts, please use them. If there is no such equipment available, then the wheelchair must be tipped and pushed over the steps (2 helpers).
- In general, any anti-tip tubes fitted must be set beforehand, so that they cannot touch the steps, as otherwise this could lead to a serious fall. Afterwards the anti-tip tubes must be set back to their correct position.
- Make sure that the attendant only holds the wheelchair using securely mounted parts (e.g. not on the footrests or the side guards).
- When using the lifting ramp make sure that the anti-tip tubes fitted are positioned outside the danger area.
- Secure your wheelchair on uneven ground or when transferring (e.g. into a car) by using the wheel locks.
- The wheel locks will only work if there is sufficient tyre pressure and if the correct setting has been made (see the Chapter on "Wheel locks").
- When it is dark, please wear light clothing or clothing with reflectors, so that you can be seen more easily. Make sure that the reflectors on the side and back of the wheelchair are clearly visible. We would also recommend that you fit an active light.
- Adjustments to your wheelchair, especially to security-relevant components as for example wheel-locks, anti-tip or backrest must be performed by authorized dealers.
- It is recommended to clean and disinfect the entire product, especially the upholstery, frequently.
- Do not tilt the wheelchair without assistance
- Do not reuse single use fasteners
- The wheel locks are not intended to brake your wheelchair. They are only there to ensure that your wheelchair does not begin rolling unintentionally. When you stop on uneven ground, you should always use the wheel locks to prevent such rolling. Always apply both wheel locks; otherwise, your wheelchair could tip over.
- The wheel locks have not been designed to be used as brakes for a moving wheelchair.
- Always make use of elevators and ramps. If these are not available, you should request the help of an attendant. They should only grip the wheelchair at securely mounted parts. If anti-tip tubes are fitted these must be folded away. A wheelchair should never be lifted with an occupant; it should only be pushed.
- If the seat and back sling are damaged, you must replace them immediately.
- Do not lift or carry the wheelchair by the back tubes or the push handles.
- Be careful with fire, in particular with burning cigarettes. Seat and back slings can be set alight.
- Always make sure that the quick-release axles on the rear wheels are set properly and are locked in place. If the button on the quick-release axle is not pressed in, the rear wheel cannot be removed.
- In particular when using lightweight metal hand rims, fingers will easily become hot when braking from a high speed or on long inclines.
- If the wheelchair is subject to direct sunlight for a long period of time, then parts of the wheelchair (e.g. frame, leg rests, brakes and side guards) may become hot (>41°C).
- To avoid hand injuries do not grab in between the spokes or between the rear wheel and wheel lock when driving the wheelchair.
- Do not use the wheelchair on slopes > 5°.
- The dynamic safe slope is dependent on the chair configuration, the user's abilities and the style of riding. As the user's abilities and style of riding cannot be pre-determined then the max safe slope cannot be determined. Therefore, this must be determined by the user with the assistance of an attendant to prevent tipping. It is strongly recommended that inexperienced users have anti-tips fitted.
- Do not use your wheelchair on muddy or icy ground.
- Do not use your wheelchair where pedestrians are not allowed.
- The wheelchair should be used with caution in heavy rain, snow, slippery, or unsound surfaces.
- Do not use the wheelchair in hazardous environments.

Safety Inspection Checklist

NOTE:

Regular cleaning will help to highlight any loose or worn parts and enhance the smooth operation of your wheelchair. To operate properly and safely, your wheelchair must be cared for just like any other vehicle. Routine maintenance will extend the life and efficiency of your wheelchair. Initial adjustments should be made to suit your personal body structure and preference. Thereafter follow these maintenance procedures. Outlined below:

Item	Initially	Inspect/ Adjust Weekly	Inspect/ Adjust Monthly	Inspect/ Adjust Yearly
General - Wheelchair rolls straight (no excessive drag or pull to one side) - Inspect frame for cracks and damage - Inspect all fasteners are secured	✓		✓	✓
Wheel Locks - Do not interfere with tyres when rolling - Pivot points free of wear and looseness - Wheel locks easy to engage	✓ ✓ ✓		✓ ✓ ✓	
Seat and Back Upholstery - Inspect for rips or sagging - Inspect fastening flaps to ensure they securely latch	✓ ✓		✓	✓
Rear Wheels - Adjustable axle position camber bar is securely tightened - Quick/quad release axles lock properly - No excessive side movement or binding when lifted and spun	✓ ✓ ✓	✓ ✓	✓	
Handrims Inspect for signs of rough edges or peeling	✓	✓		
Spokes - Inspect for bent or broken spokes - All spokes uniformly tight	✓ ✓		✓ ✓	
Front Castor - Inspect wheel/fork assembly for proper tension by spinning castor; castor should come to a gradual stop - Loosen/tighten locknut if wheel wobbles noticeably or binds to a stop - Wheel bearings are clean and free of moisture CAUTION: As with any vehicle, the wheels and tyres should be checked periodically for cracks and wear, and should be replaced when necessary	✓ ✓ ✓		✓ ✓ ✓	✓
Tyres - Inspect for flat spots and wear - If pneumatic tyres check for proper inflation CAUTION: As with any vehicle, the wheels and tyres should be checked periodically for cracks and wear, and should be replaced when necessary	✓ ✓	✓ ✓		
Cleaning	✓		✓	

Troubleshooting Guide Mechanical

Chair veers right	Chair veers left	Slow turn or performance	Castor flutters	Squeaks and rattles	Loose-ness in chair	Solutions
✓	✓	✓	✓			Check tyres for correct and equal pressure
		✓	✓	✓	✓	Check for loose castor stem nuts Check all fixtures are secure and tight
				✓	✓	Check spokes for tension
✓	✓		✓			Check that both castors contact the ground at the same time



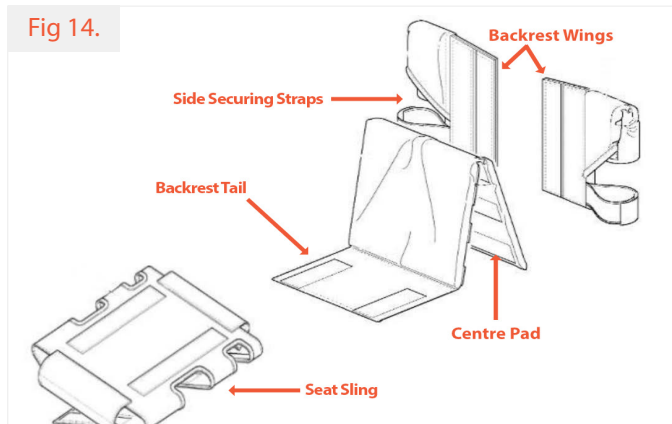
WARNING:

After adjusting, always make sure that parts are properly tightened BEFORE using the wheelchair. DO NOT over-tighten hardware attaching to the frame. This could cause damage to the wheelchair.

Procedure 1 - Upholstery

The upholstery is fully adjustable and can be easily adjusted to provide the correct balance and comfort in your new wheelchair.

Fig 14.



1.1: Adjusting Seat

Remove the cushion from the wheelchair. The seat is adjusted by increasing or decreasing the tension in the straps on the underside of the seat (Fig 15). To remove, release all the straps and remove.

Fig 15.



1.2: Adjusting Backrest

Remove the cushion and centre pad from wheelchair (Fig 14). The backrest is adjusted by increasing or decreasing the tension on the straps at the back of the backrest. To remove, release all the straps and remove.

1.3: Changing Cushion Cover

Remove cushion from the wheelchair. Open the Velcro pocket at the rear of the cushion and remove or replace foam as required. (Fig16).

Fig 16.



WARNING:

The position of the footrest, camber tube and rear seat height, as well as the tautness of the back upholstery are directly related to the chair's stability. Any change to one or any combination of the four may cause the chair to decrease in stability. Use EXTREME caution when using a new seating position for the first time.

CAUTION:

Velcro used on upholstery may cause property damage if contacted closely.

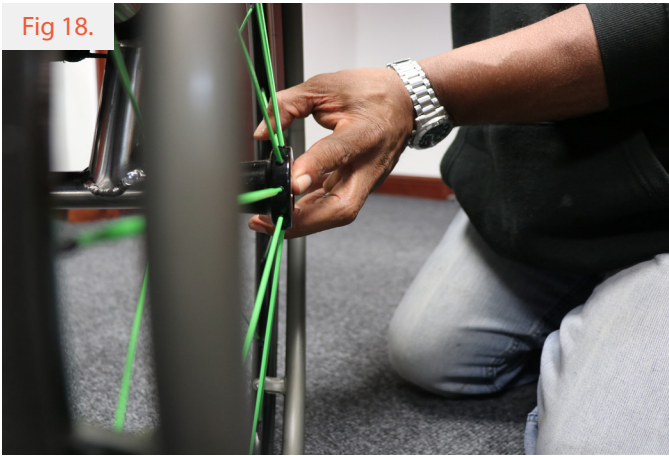
Procedure 2 - Rear Wheels

The rear wheels are quick release and are designed to be removed and attached frequently. All rear wheels use quick release axle pins to secure the wheels to the frame, although these vary in length, they operate the same.

2.1: Removing/attaching rear wheels

Push the quick release button and pull the wheel outwards. To install, push and hold the button and insert the quick release axle pin into the axle until the pin clicks into position. Ensure both wheels are fully engaged prior to use.

Fig 18.



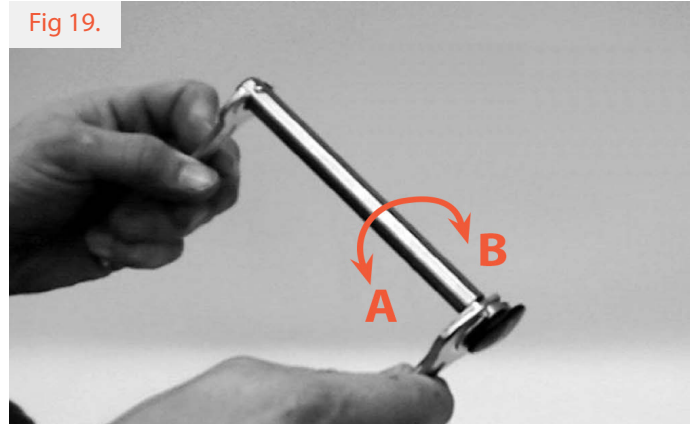
WARNING:

Changing the size of your rear wheels can seriously affect the performance and stability of the wheelchair.

2.2: Adjusting Quick release axle pin

Only adjust the quick release axle pin if the wheel does not engage or the wheels feels loose. To adjust the length, remove the axle pin from the wheel and by using 2 x adjustable spanners/wrenches as per Figure 19, extend or shorten the pin as required.

Fig 19.



A = Lengthen B = Shorten

WARNING:

Any adjustments to your quick release pins – then YOU must ensure your wheels lock on both sides of your wheelchair.

When attaching the rear wheels, always check that they are securely mounted. Pull on the rear wheels to make sure the detent pin / RGK cap of the quick release axle are fully released before operating the wheelchair.

You should NOT be able to pull the rear wheel off.

Procedure 3 - Tyres and Inner Tubes

Tyres will wear just like a car tyre and the time will depend on the type of use. It is recommended that both tyres are changed once the tread fades. For pneumatic tyres, there is a risk that a puncture will occur and the inner tube will need to be replaced in order to keep the wheelchair operational.

3.1: Changing the tyre

Remove the wheel from the wheelchair and release air in the tube by pressing the small pin inside the valve, if a Presta valve, then unscrew both the head and the securing ring at base and press the top until air releases. Using 2 x tyre levers (supplied in the toolkit), unhook the tyre completely from the wheel rim. Remove inner tube and tyre from wheel rim.

To install the tyre, place one side of the new tyre on the wheel rim. Then insert the inner tube inside the tyre and align the valve with the wheel rim hole. Ensure there are no kinks or uneven tension in the inner tube before putting

the second side of the tyre back on the wheel rim using the tyre levers. Be careful not to pinch the inner tube. Once tyre and inner tube are on the wheel rim, replace securing ring (if applicable) then inflate tyre a little. Adjust inner tube and tyre so that they fit nicely on the wheel rim and inflate to the recommended tyre pressure.

3.2: Changing the inner tube

Repeat the method above but do not remove tyre completely, just remove inner tube. If problems continue, remove tyre and inner tube and ensure there are no sharp edges in the wheel rim which may be causing a puncture.

Procedure 4 - Camber Bar

The Camber Axle or Camber Tube control your wheel position and your centre of gravity. It is very important to have this set up for your requirements for performance and safety. Axle tube can be fixed or adjustable. Fixed means this cannot be adjusted and for a user who is experienced and knows their balance point. Adjustable position gives the user choice and is ideal for less experienced users

4.1: Adjusting Axle Tube position

To adjust the axle position, remove wheels. Using a 5mm allen key for the toolkit, release the top screw on each side of the axle clamp as shown in Fig 21 (A). Once released but still intact, move the axle backward for more stability and move forward for more tip. Tighten the top screws once position has been set, and carefully use the chair as it where the first time.

4.2: Replacing Axle tube

To replace the axle tube, remove wheels. Using a 5mm allen key from the toolkit, release the bottom screw completely from the axle clamp as shown in Fig 21 (B). Take note of the distance between the axle clamp and the axle tube for set up of the new axle tube. Slide new tube into the clamps and into the same position as the old axle tube. The notch in the axle insert must be at the top of the axle tube.

If the wheelchair feels slow after replacing the axle tube, rotate the axle tube a little forwards or backwards to correct the wheel alignment.

WARNING:

The position of the footrest, camber bar, as well as the tautness of the back upholstery, are directly related to the chair's stability.

Any change to one or any combination of the three may cause the chair to decrease in stability. Use EXTREME caution when using a new seating position for the first time.

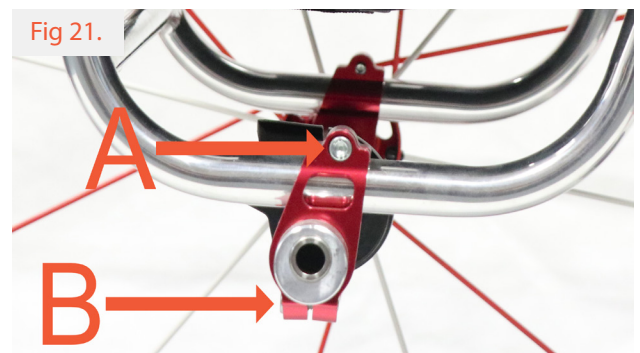


Fig 21.

A = Adjust Position
B = Remove and replace

Procedure 5 - Castor Wheels and Forks

The castor wheels at the front of the wheelchair will wear just like care tyres and should be replaced when they visibly look worn or cracks appear.

5.1: Changing castor wheels

Using 2 x 4mm allen keys from the toolkit, remove 1 of the 2 screws in the centre of the castor wheel, as shown in Fig 22. Remove the screw and slide out the castor axle with the other screw still attached, noting any spacers and their positions. Install the new castor wheel and slide the castor axle back through and secure with the final screw.

Fig 22.



5.1: Changing castor Fork

Remove the bolt at the back of the castor housing using a 4mm Allen key from the toolkit. Then use the special spanner to undo the castor fork assembly as pictured in Fig 22, whilst holding the frame. The entire castor assembly will unscrew giving you access to the bearings and castor fork. Use the socket to release the nut which will release the fork. When installing, screw in the housing as far as it can go and line up the hole so the securing bolt can be tightened.

NOTE:

Castor Bearings must be fitted by an authorised dealer. Failure to do so will result in invalid warranty on the parts.

CAUTION:

DO NOT replace the front castor forks or castor wheels with a different size other than what was originally supplied on the chair. By changing to a different size castor fork or castor wheel will have an adverse effect on the running of the chair and the end users balance causing personal injury.

Procedure 6 - Wheel Locks

The wheel locks are adjustable in position to suit tyre changes and wear. As tyres wear, the wheel lock may not hold the wheelchair as intended, so these need to be adjusted to suit the tyre condition.

NOTE:

Before adjusting or replacing any style of wheel lock ensure that the tyres are inflated to the recommended pressure as indicated on the tyre.

6.1: Adjusting Wheel locks

Using a 5mm Allen key from the toolkit, release the 2 screws in the clamp or on the underside of the plate. Once the wheel lock is loose, reposition so that there is at least 3mm of interference when the wheel lock is activated. Tighten securely and repeat on the other side.



WARNING:

After any adjustments, repair or service and before use, make sure all attaching hardware is tightened securely – otherwise injury or damaged may result. If wheel locks do not hold occupied wheelchair in place please adjust as above, or contact your dealer – otherwise injury or damages may occur. The wheel locks are designed to work when your wheelchair is static. Wheel locks should not be applied during use and tyre pressure should be as indicated on the tyre.

Procedure 7 - Footrest

The footrest may need adjusting when you first use the wheelchair, if circumstances change or if fasteners come loose. It is important to periodically check the height and adjust as required.

7.1: Adjust footrest height

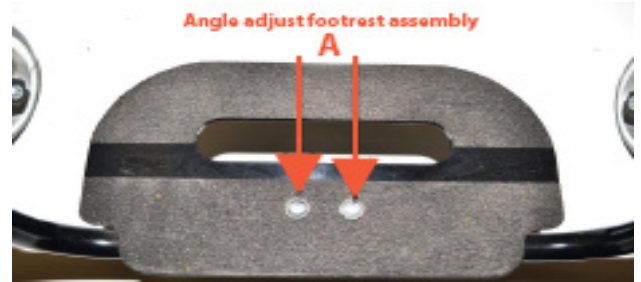
Before adjustment, take note of the height you have or require and mark if necessary. Using a 4 or 5mm allen key from the toolkit, release the 2 screws in the footrest clamps. Reposition the footrest in the correct height and tighten the screws securely.

7.2: Adjust the footrest angle

With an adjustable angle footrest, release the 2 x clamp screws in the centre of the footplate using a 4mm allen key and 10mm spanner from the toolkit. Reposition to the correct angle and tighten the screws securely.

WARNING:

The footrest assembly **MUST** be at least 40mm above the ground/floor to avoid hitting protruding objects when using this wheelchair.



Procedure 8 - Folding Backrest

The backrest can be fixed or folding and if a folding option is chosen, the backrest can fold to make the chair smaller in transport size.

8.1: Operating the folding backrest

Grab the pull cord and the back brace-bar together until the backrest releases and moves forward. Release the pull cord and continue to push forward until the pins click into position securing the backrest in the folded position. To release, grab the pull cord and back brace bar together and pull upright until the backrest clicks into the original position.

Fig 23.



WARNING:

Your folding back **MUST** be locked securely in place before using your wheelchair.

CAUTION:

This product contains moving parts. Beware of finger trapping.

Procedure 9 - Push Handles

A range of push handles can be supplied on this wheelchair for use by an attendant and operated as per the following procedures.

9.1: Adjusting Height adjustable push handles

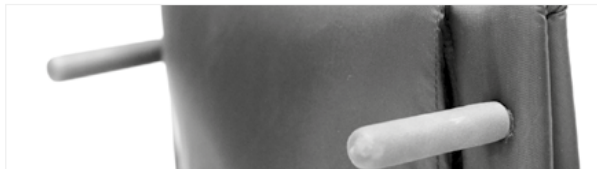
Release the over centre lever and position at the desired height and then tighten the lever to secure. Repeat on the other side to get uniform height between both handles.



Height Adjustable push handles

9.2: Screw in push handles

Screw in push handles can be removed by unscrewing them from the back rest. To install, screw them in until tight by hand.



Screw-In push handles

9.3: Operating flip down push handles

Press the button underneath the handle and push the handle down at the same time, repeat on other side. Pull up the handle until it clicks into position to return to original position.



Flip-Down push handles

WARNING:

DO NOT attempt to lift the wheelchair by any removable (detachable) parts i.e. Height adjustable push handles, Fold-down push handles and Screw-in push handles

Procedure 10 - Anti-tips

An anti tip can be used to make the chair more stable and is recommended by a health care professional.

10.1: Swing away anti-tip

To store the anti-tip, push down on the spring-loaded tube until it releases from the housing. Swing 180 degrees under the chair and into the locked position. To return to the operating position, repeat and return the same way. To adjust the length, press the button on the tube and lengthen or shorter the wheel tube.

10.2: Single sport anti-tip

To remove anti-tip, remove quick release pin and remove tube. The clamp attached to the frame is factory fitted and cannot be removed unless by an approved wheelchair technician.



WARNING:

RGK strongly recommends ordering the anti-tips as an additional safeguard for the wheelchair user.

WARNING:

Anti-tippers **MUST** be fully engaged. Ensure the release button of the anti-tipper fully protrudes out of the hole in the anti-tipper socket.

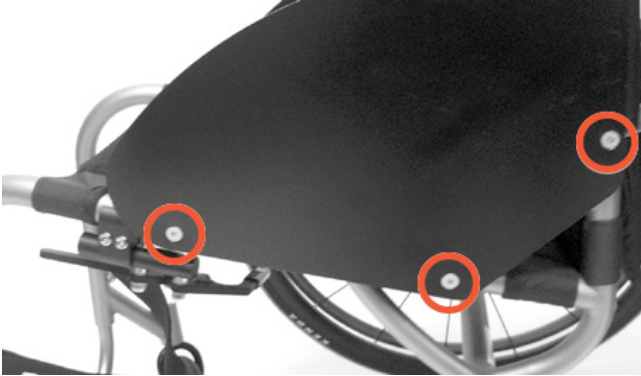
Ensure both anti-tippers are adjusted to the same height.

Procedure 11 - Sideguards

Sideguards support the user and prevent clothes from getting dirty. Although these need little maintenance, replacement is shown below.

11.1: Screw in sideguards

Remove the rear wheels. Using a 4mm allen key from the toolkit, release the 3 screws in the sideguard. To install, secure all screws but do not tighten until all are in position. Take care not to cross thread the screws.



11.3: Fold flat sideguards

Using a 3mm allen key from the toolkit, remove the 4 screws from the inside of the sideguard. To install, secure all screws but do not tighten until all are in position. Take care not to cross thread the screws.



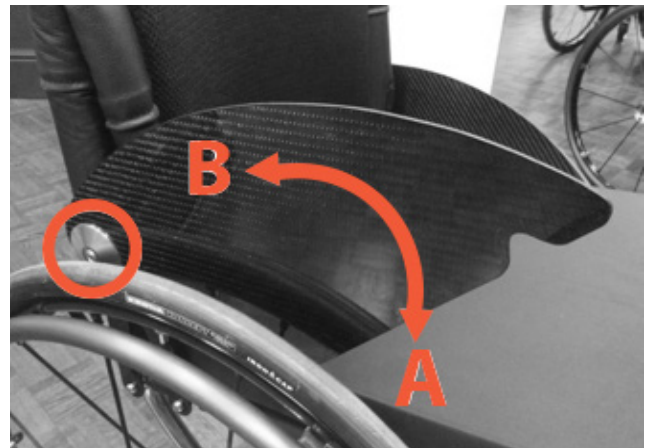
11.2: Lift out sideguards

Remove sideguards from receiver. Using a 4mm allen key from the toolkit, release the 2 screws securing the sideguard to the lift out post. To install, replace and tighten the 2 screws. Take care not to cross thread the screws.



11.4: Flip back sideguards

Using a 4mm allen key from the toolkit, release the screws securing the sideguard to the lift out post. To install, replace and tighten the 2 screws. Take care not to cross thread the screws.



Transportation

DANGER:

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

Transportation of your wheelchair within a vehicle

A wheelchair secured in a vehicle, will not provide the equivalent of safety and security as a vehicle seating system. We recommend that the user transfers to the vehicle seating. It is recognised that's 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:

DANGER:

Confirm that your wheelchair is crash test suitable, see serial number and tie down points on wheelchair, Fig 11, Page 22.

Confirm 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 wheelchair and accessories.

Sufficient space should be available around the wheelchair to enable clear access to attach, tighten and release the wheelchair and occupant tie down restraints and safety belts.

The occupant wheelchair must be located in a forward facing position and secured by the wheelchair tie down and occupant restraint straps (WTORS tie downs meeting the requirements of ISO 10542 Part 2 or SAE J2249) in accordance with the WTORS manufactures instructions.

The wheelchairs use in other positions within a vehicle has not been tested e.g. transportation in the sideways or rearwards facing position and must not be out under any circumstances.

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 clip/s, hooks and tongue and buckle fittings. These restraints generally comprise of 4 individual straps that are attached to each corner of the wheelchair. Fig XX (picture of chair with tie down point stickers)

DANGER:

The tie down restraints should be fitted to the main frame of the wheelchair as indicated in Fig XX (same as point above), and not to any attachments or accessories e.g. not around the spokes of wheels, wheel locks, or footrests.

Tie down restraints should attach be attached as close as possible at an angle of 45 degrees and tightened securely in accordance with the manufacturer's instructions.

Alterations or substitutions must not be made to the wheelchair tie down points or to structural, frame or components without consulting the manufacturer. Failure to do so will invalidate the ability of an RGK wheelchair to be transported in a vehicle.

Both pelvic and upper torso restraint belts must be used to restrain the occupant to rescue the possibility of head and chest impacts with the vehicle components and serious risk of injury to the user and other vehicle components. The upper torso restraint belt should be mounted to the vehicles pillar – failure to do so will increase the risk of serious abdominal injuries to the user.

A head restraint suitable for transportation must be fitted and positioned at all times during transportation to ensure maximum safety.

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

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

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

- Crutches, Loose cushions and Tray Tables.
- Articulating/elevating legrest 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.

Transportation

DANGER:

Reclining backrests should be returned to an upright position.

The manual wheel locks must be firmly applied.

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.

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 75°.

2. The upper torso restraint belt must fit over the shoulder and across the chest.
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.

3. 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.

4. The tie down symbol (Fig. 10) 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.

Fig10.



USER WEIGHT LESS THAN 22KG

When the user being transported is a child, less than 22 kg mass and the vehicle involved has less than eight (8) seated passengers it is recommended that they be transferred to an UNCE Regulation 44 compliant child restraint system (CRS).

This type of restraint system provides a more effective occupant restraint system than the conventional 3 point occupant restraint system and some CRS systems also include additional postural supports to assist in maintaining the position of the child when seated.

Parents or care providers may consider the option, in some circumstances, for their child is to remain in their wheelchair whilst in transport due to the level of posture control and comfort provided by the set up in the wheelchair.

We would recommend in such circumstances that a risk assessment be carried out by your attendant and relevant competent persons.

Positioning of wheelchair tie down restraints on wheelchair:

1. Location of the front and rear tie down labels (Fig 11 & 12).

2. Position the front and rear wheelchair tie down restraint to the tie down label.

Fig11.

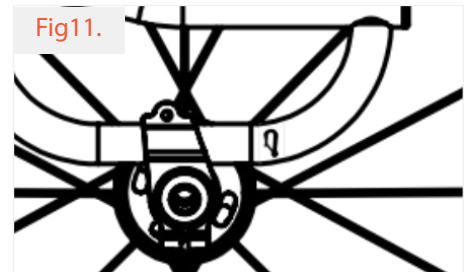
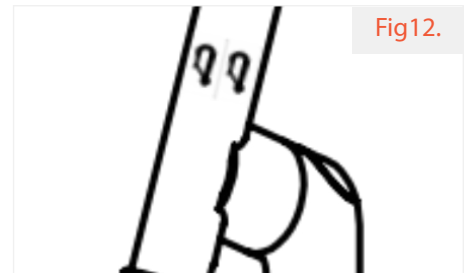


Fig12.



Technical Data

Description	Min	Max
Overall length with leg rest (no wheels)	400mm	700mm
Overall width (seat width)	250mm	440mm
Folded height (only for chairs with folding backs)	500mm	700mm
Total mass (with wheels)	5.5kg	15kg*
Mass of the heaviest part (Transport weight)	3.5kg	12kg*
Static stability downhill	N/A	5° of incline
Static stability uphill	N/A	5° of incline
Static stability sideways	N/A	5° of incline
Seat plan angle	0°	45° of tilt
Effective seat depth	250mm	440mm
Seat surface height at front edge	380mm	520mm
Backrest angle	- 10° of tilt	20° of tilt
Backrest height	150mm	400mm
Footrest to seat distance	200mm	520mm
Leg to seat surface angle	70° of angle	90° of angle
Armrest to seat distance	150mm	300mm
Front location of armrest structure	N/A	N/A
Handrim diameter	24"-in	26"-in
Horizontal location of axle	25mm	125mm
Minimum turning radius	270mm	N/A

*Weight excluding 3rd party items

Dimensions are subject to manufacturing tolerances.

ITEM	Torque
Backrest Pivot Plate	10Nm
Wheel Lock	10Nm
Camber Bar	10Nm
Footrest Adjustment Height	10Nm
All Other Items	10Nm

NOTE:

RGK Wheelchairs Ltd are bespoke and individually made to measure for you, therefore your wheelchair may fall below or over the mentioned sizes.

Recycling/Disposal

Prior to the wheelchair being re-used, it must be carefully prepared. All surfaces which come into contact with the user must be cleaned down and treated with a disinfection spray.

In the following section, there is a description of the materials used on our wheelchairs.

Aluminium: Frame, Castor forks, Wheels, side guards, Armrest, Footrest, Hand Rims, Anti-Tippers, Frame, Footplate covers

Steel: Frame, Fixing points, Quick release axle pins, Footrest, Anti-tippers, Frame Wheels, Fixings, Wheel Locks, Footplate covers

Titanium: Frame, Castor Forks, Quick release axle, Fixings, Side guards Anti-Tippers, Frame, Footrest

Plastic: Handles, Tube stoppers, Castors, Footplate covers, Arm pads

Packing: Plastic bags made from polyethylene, cardboard

Upholstery: Woven polyester Cotton Leather



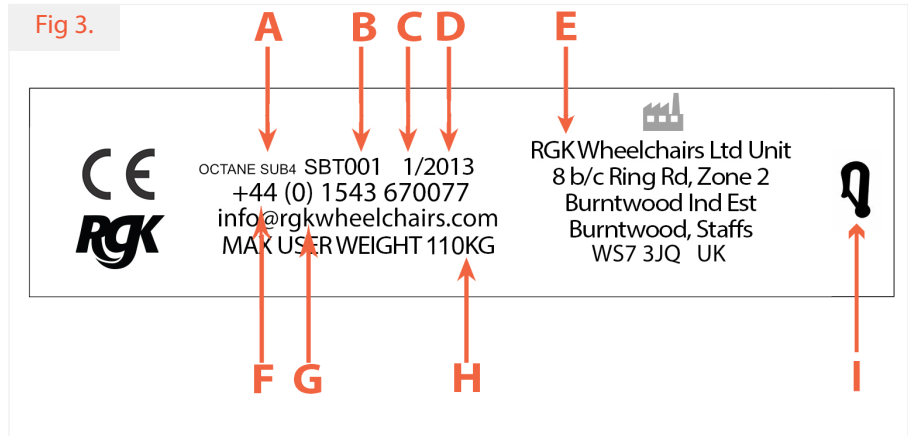
Disposal or recycling should be carried out by a disposal company or at a public disposal point. You could also return your wheelchair to your dealer for disposal (There may be a charge imposed).

Identification / Serial Number

The serial number of your made to measure wheelchair is located on either the under seat cross brace bar (J Product Description) or camber bar (H Product Description) or inside the backrest upholstery (A).

Please provide the following information whenever you have to order replacement parts.

Serial Number:
Name:
Dealer:



Identification sticker
(Located on camber axle or under seat brace bar)

RGK Chair Label Information

- | | |
|---------------------------------|---|
| A - MODEL | F - MANUFACTURER CONTACT NUMBER |
| B - CHAIR SERIAL NUMBER | G - MANUFACTUER EMAIL ADDRESS |
| C - MONTH MANUFACTURED | H - MAXIMUM USER WEIGHT |
| D - YEAR MANUFACTURED | I - CRASH TESTED CERTIFICATION (IF APPLICABLE) |
| E - MANUFACTURER ADDRESS | |

Manufacturers Warranty

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

RGK Wheelchairs* provides a guarantee, as set out in the warranty conditions, for wheelchairs to its customers covering the following

Warranty conditions

1. Should a part or parts of the wheelchair require repair or replacement as a result of a manufacturing and/or material fault within 12 months or for frame and cross-braces within 5 years after delivery to the customer, then the affected part or parts will be repaired or replaced free of charge.
2. To enforce the warranty, please contact the local reseller where the product was purchased with the exact details of the nature of the difficulty. Should you be using the wheelchair outside the area covered by the local reseller, repairs or replacement will be carried out by another agency as designated by the manufacturer the wheelchair must be repaired by a RGK Wheelchairs designated Customer Service agent, (dealer).
3. For parts, which have been repaired or exchanged within the scope of this warranty, we provide a warranty in accordance with these warranty conditions for the remaining warranty period for the wheelchair in accordance with point 1).
4. For original spare parts which have been fitted at the customer's expense, these will have a 12 months guarantee, (following the fitting), in accordance with these warranty conditions.
5. Consumable parts such as pads, tyres, inner tubes and similar parts are excluded from the warranty, except in the case that premature wear of the part is the direct result of a manufacturing fault.
6. Claims from this warranty shall not arise, if a repair or replacement of a wheelchair or a part is required for the following reasons:
 - The product or part has not been maintained or serviced in accordance with the manufacturer's recommendations as shown in the User Instructions and/or the Service Instructions.
 - Accessories have been used which are not specified as original accessories.
 - The wheelchair or part having been damaged by neglect, accident or improper use.
 - Changes/modifications have been made to the wheelchair or parts, which deviate from the manufacturer's specifications.
 - Repairs have been carried out, before our Customer Service has been informed of the circumstances.
7. This guarantee is subject to the law of the country in which the product was purchased from RGK Wheelchairs.

* Means the authorised RGK reseller from which the product was purchased.

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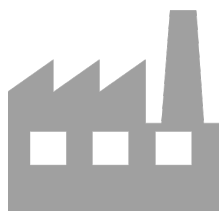
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