



TIGA

User Manual

Including:

TIGA Sub4

TIGA Junior

TIGA TX



EN



MANUAL WHEELCHAIR

Thank you

for buying RGK...


We hope the product and service you have received has met your expectations. Please take time to read the instructions contained within, to familiarise yourself with your new RGK chair and to ensure you get maximum performance and longevity from it.



Russel Simms,
Commercial Director

WARNING!

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

 As the manufacturer, RGK Wheelchairs declares that the lightweight wheelchairs conform to the 93/42/EEC / 2001/47/EEC guideline.

Please contact RGK or your local authorised RGK dealer if you have any questions regarding the use, maintenance or safety of your wheelchair.

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Special Notes

The manual must be read thoroughly to avoid damage when handling and using your RGK Wheelchair.

Definitions of words used in this manual

DANGER!

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

WARNING:

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

CAUTION:

Advice to user that Potential Damage to equipment may occur if the advice is not followed.

NOTE:

General advice or best practice.

Wheelchair Selection

As a manufacturer of wheelchairs, RGK endeavours to supply a wide variety of wheelchairs to meet many needs of the end user. However, final selection of the type of wheelchair to be used by an individual rests solely with the user and his/her health care professional capable of making such a selection.

DO NOT use the footplate as a platform when getting in or out of the wheelchair.

Always wear your seat restraint, if recommended.

The wheelchair shown and described in this user guide may not correspond in every detail exactly to your own model and accessories.

However, all instructions are completely relevant, regardless of additions that you may have added at the time of order

The expected life of your RGK wheelchair is 5 years of normal use by a single user. The expected life of your wheelchair is above all dependent on the user's disability and the maintenance of the wheelchair. Different users may experience both a shorter and a longer service life for their wheelchair than those stated above.

Please DO NOT use or fit any third party components to the wheelchair unless they are officially approved by RGK Wheelchairs Ltd.

NOTE:

The information contained in this document is subject to change without notice.

Safety Summary

Transportation

⚠ WARNING:

Wheelchair tie-down restraints and seat restraints.

- RGK recommends that wheelchair users not be transported in vehicles of any kind while in wheelchairs.
- It is RGK's position that users of wheelchairs should be transferred into appropriate seating in vehicles for transportation and use be made of the restraints made available by the auto industry.
- RGK cannot and does not recommend any wheelchair transportation systems.
- As regards restraints-seat belts, it is the obligation of the dealer, therapists and other health care professionals to determine if a seating restraint is required to ensure the safe operation of this equipment by the user.
- Serious injury can occur in the event of a fall from a wheelchair.
- DO NOT use the footplate as a platform when getting in or out of the wheelchair.

Safety Summary

Never exceed the maximum user weight load, this includes any additional items carried or attached on the wheelchair. If you exceed the maximum load, this can lead to permanent damage to your RGK wheelchair or you may fall, tip over, lose control which may lead to serious injury to either yourself or third parties.

Environment

⚠ WARNING:

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

⚠ WARNING:

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

Finger Traps

⚠ WARNING:

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

"Safety and Handling" of the wheelchair requires the close attention of the wheelchair user as well as the assistant. This manual points out the most common procedures and techniques involved in the safe operation and maintenance of the wheelchair. It is important to practice and master these safe techniques until you are comfortable in manoeuvring around the frequently encountered architectural barriers.

Use this information only as a "basic" guide. The techniques that are discussed on the following pages have been used successfully by many.

Individual wheelchair users often develop skills to deal with daily living activities that may differ from those described in his manual.

RGK recognises and encourages each individual to try what works best for him/her in overcoming architectural obstacles that they may encounter.

Techniques in this manual are a starting point for the new wheelchair user and assistant with "safety" as the most important consideration for all.

Safety Summary

Weight Training

RGK DOES NOT recommend the use of its wheelchairs as a weight training apparatus. RGK products have 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 bodily injury and the warranty will be voided immediately.

Stability and Balance

To assure stability and proper operation of your wheelchair, you must at all times maintain proper 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.

Virtually all activities which involve movement in the chair have an effect on the centre of gravity.

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



Coping with the irritation of everyday obstacles can be alleviated somewhat by learning how to manage your wheelchair. Keep in mind your centre of gravity to maintain stability and balance.

⚠ 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.

Safety Summary

General safety notes and driving restrictions

The engineering and construction of this wheelchair has been designed to provide maximum safety. International safety standards currently in force have either been fulfilled or exceeded in parts. 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 street 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 ride in this wheelchair. Get to know your wheelchair.

Before each use, the following should be checked:

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

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

It is possible that potholes or uneven ground could cause this wheelchair to tip over, especially when riding uphill or downhill. When riding over a step or up an incline frontally, the body should be leaning forward.

DANGER!

NEVER exceed the maximum load of 125kg for TIGA/TX, 110kg for TIGA Sub4, 80kg for TIGA jnr. 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.

WARNING:

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

- 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 footboards. These should be flipped up beforehand and swung to the outside as far as possible.
- 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 wobble at high speeds. This can lead to the castors being blocked and the wheelchair may tip over. Therefore, please make sure that the castors are adjusted correctly (see the Chapter "Castors").
- In particular, do not travel on an incline without brakes, travel at a reduced speed. This product has been tested to a maximum speed of 10 kph. At higher speeds, depending on the configuration and/or physique/physical capabilities of the user, there may be unexpected castor wobble. This can lead to injury of the user.
- 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.

Safety Summary

- 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.
- Lean your upper body further forward when going up slopes and steps.
- Lean your upper body further back when going down slopes and steps.
- 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, as if you 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.
- 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 tumble. 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.
- For high amputees you must use anti-tip tubes.
- Before setting off, check that your tyre pressure is correct. For rear wheels it should be at least 3.5 bar (350 kPa). The max. pressure is indicated on the tyre.
- The knee-lever brakes will only work if there is sufficient tyre pressure and if the correct setting has been made (see the Chapter on "Wheel locks").
- 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.
- Do not fit any unauthorized electronic equipment, powered or mechanically operated mobility drives, hand-bike or any other device that changes the intended use or the structure of the wheelchair.
- Any combination with other medical devices requires the approval of Sunrise Medical.
- 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 lock in. 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.

Safety Summary

- 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 guard) 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.
- When using the chair outside, always wear leather gloves which will increase your grip and protect the fingers from dirt and overheating.
- Do not use the wheelchair on slopes > 10°.
- The Dynamic safe slope is dependant on the chair configuration, the users abilities and the style of riding. As the users 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 Ant-tips fitted.
- Do not use your wheelchair on muddy or icy ground.
- Do not use your wheelchair where pedestrians are not allowed.
- With all moving parts there is a natural risk of finger traps. Please handle with care.
- The wheelchair should not be used in heavy rain, snow, slippery, or unsound surfaces.
- Do not use the wheelchair in hazardous environments.

Lifetime

The expected lifetime of this product is 5 years.

NOTE :

- The effect of the wheel locks as well as the general driving characteristics are dependant on tyre pressure. The wheelchair is significantly lighter and easier to manoeuvre when the rear wheels are pumped up correctly and both wheels have the same pressure.
- Make sure that your tyres have sufficient tread!
- Please note that you are subject to any and all traffic laws when driving in public traffic.
- 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.
- Always be careful with your fingers when working or adjusting the wheelchair!
- The products 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.
- Adjustments to your wheelchair, especially to security-relevant components as for example wheel-locks, anti-tip or backrest must be performed by authorized dealers.
- When using add-on mobility devices, such as hand bikes, power add-ons etc, ensure that your wheelchair is equipped with appropriate castor forks intended for such use.

RGK TIGA Manual Propelled Wheelchair

Product Description

The TIGA range, is a manually propelled wheelchair which is suitable for a wide range of users whose mobility has been reduced or removed by a disability or chronic illness. The TIGA range is hand built from aerospace grade aluminium. Two frame design options are available, either open frame or a closed frame design, delivering a lightweight and versatile wheelchair. The design incorporates an aluminium frame, with either an integrated aluminium camber bar and footrest suited to the more experienced users looking for the lightest option, or can be prescribed with an adjustable aluminium camber bar and adjustable height footrest, scissor or push to lock brakes, adjustable tension seat sling, backrest and calf strap all as standard, with further options available.

The design accommodates a wide range of disabilities for all ages of user up to a maximum user weight of 125kg for TIGA/TX, 110kg for TIGA Sub4, 80kg for TIGA jnr.

Suitability is dependent upon the degree and nature of disability and must be determined through a thorough client risk assessment carried out by a qualified medical professional or RGK personnel. This wheelchair is suitable for a means of transfer from one location to another where physical mobility is impaired or reduced and is not designed for any other purpose.

Consideration must be given at point of prescription to required usage with regard to the capabilities of the user and the environment and terrain on which the product will be used.

The TIGA range, manufactured by RGK Wheelchairs Ltd, is CE marked as a Class 1 Medical Device and complies with the Essential Requirements of the Medical Device Directive 93/42/EEC.

By definition all wheelchairs are marketed as a medical device where a "medical device"* means an instrument, apparatus, appliance, material or other article, whether used alone or in combination, together with any software necessary for its proper application, which -

(a) is intended by the manufacturer to be used for human beings for the purpose of-

(i) diagnosis, prevention, monitoring, treatment or alleviation of disease,

(ii) diagnosis, monitoring, treatment, alleviation of or compensation for an injury or handicap,

(iii) investigation, replacement or modification of the anatomy or of a physiological process, or

(iv) control of conception; and

(b) does not achieve its principal intended action in or on the human body by pharmacological, immunological or metabolic means, even if it is assisted in its function by such means.

* definition taken from the Medical Devices Directive 93/42/EEC

RGK TIGA Manual Propelled Wheelchair

- A Backrest
- B Brakes
- C Rear Wheel
- D Front Castor
- E Front Castor Forks
- F Footplate
- G Footplate cover
- H Camber Bar
- I Frame
- J Under Seat Brace Bar
- K Cushion & Cover
- L Sideguard

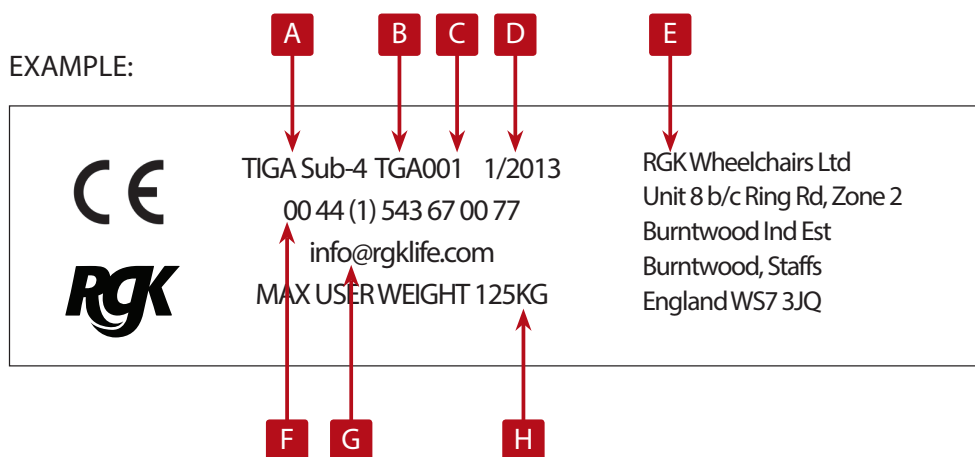


Identification / Serial Number – Bespoke to you

The serial number of your bespoke product 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



► RGK Chair Label Information

- | | |
|-----------------------|-------------------------------|
| A Model | E Manufacturer Address |
| B Chair Serial Number | F Manufacturer Contact Number |
| C Month Manufactured | G Manufacturer Email Address |
| D Year Manufactured | H Maximum User Weight |

Safety Handling of your Wheelchair

⚠ WARNING:

A note to wheelchair assistants
DO NOT attempt to lift the wheelchair by any removable (detachable) parts.
Lifting by means of any removable (detachable) parts of a wheelchair may result in injury to you the assistants and damage your wheelchair.

► NOTE: – WHEELCHAIR ASSISTANTS

When assistance to the wheelchair user is required, remember to use good body mechanics. Keep your back straight and bend your knees whenever tilting the wheelchair or traversing kerbs, or any other impediments

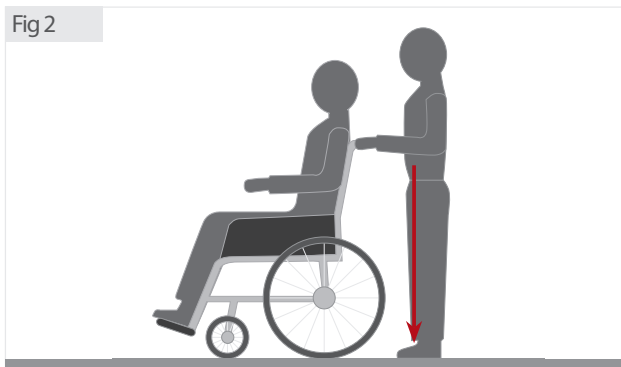
Tilting

When tilting the wheelchair, an assistant should grasp the back of the chair on a non-removable (non-detachable) part. Inform the chair occupant before tilting the chair and remind him/her to lean back.

Be sure the occupant's feet and hands are clear of all wheels. Apply a continuous motion until the balance point is achieved.

At this point, the assistant will feel a difference in the weight distribution. Turn the chair in the desired direction if necessary. Slowly lower the chair in one continuous movement. See Fig 2.

DO NOT let the chair drop the last few inches to the ground. This could result in injury to the occupant.

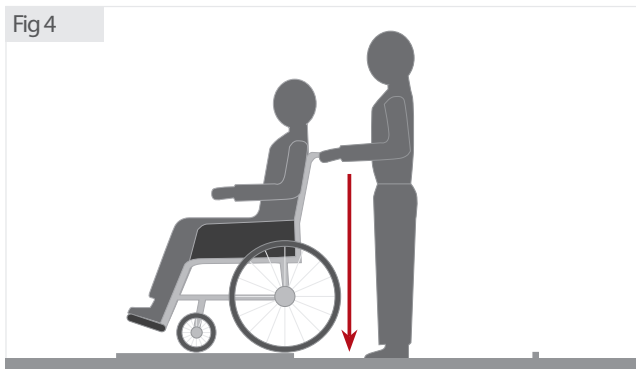


⚠ CAUTION:

DO NOT tilt the chair without assistance. After mastering the techniques of tilting the chair, use this procedure to tackle kerbs, short stairs, etc.

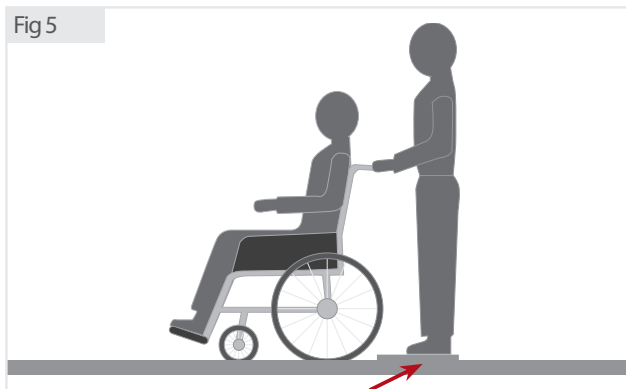
Method 1

The assistant should tilt the chair until the front castors clear the kerb. Roll the chair forward and lower the front castors to the pavement. Push the chair forward until the rear wheels roll up and over the kerb. See Fig 3 and Fig 4.



Method 2

The assistant should stand on the pavement and turn the chair so that the rear wheels are against the kerb. The chair should be tilted back to the balance point and, in one continuous movement, the rear wheels should be pulled up and over the kerb. See fig 5.



DO NOT return the front castors to the ground until the chair back has been pulled backward far enough to clear the edge of the kerb. Unless the assistant has exceptional upper body strength, it is recommended that two assistants be utilised when choosing Method 2.

⚠ WARNING:

DO NOT attempt to lift a wheelchair by lifting on any removable (detachable) parts. Lifting by means of any removable (detachable) parts of a wheelchair may result in injury to the user or damage to the wheelchair.

⚠ WARNING:

Extreme caution is advised when it is necessary to move an occupied wheelchair up or down the stairs. RGK recommends using two assistants and making thorough preparations. Make sure to use ONLY secure, non-detachable parts for hand-hold supports.

Reaching, Leaning and Bending - Forward

When reaching for any objects either in front, to the side or behind your wheelchair make sure that you do not lean too far out of your wheelchair, as this will change your centre of gravity, and there is a risk of tipping or losing your balance.

⚠ WARNING

The hanging of additional loads such as a laptop bag or back pack on your backrest can affect the rearward stability of your chair. This can cause your wheelchair to lift at the front and the chair to tip backwards, potentially causing injury or property damage.

⚠ DANGER!

DO NOT use an escalator to move a wheelchair between floors as this could cause serious personal injury or property damage.

Transferring to and from other seats

⚠ WARNING:

BEFORE attempting to transfer in or out of the wheelchair, every precaution should be taken to reduce the gap distance. Turn both castors toward the object you are transferring onto. See Fig 6. Also be certain the wheel locks are engaged to help prevent the wheels from moving.



⚠ CAUTION:!

When transferring, position yourself as far back as possible in the seat. This will prevent damaged upholstery and the possibility of the chair tipping forward.

⚠ WARNING:

Do not stand on footplate during transfer.

Transferring to and from other seats

⚠ WARNING:

RGK does NOT recommend that your wheelchair be transported up or down stairways with you in it.

⚠ WARNING:

DO NOT attempt to lift the wheelchair by any removable (detachable) parts. Lifting by means of any removable (detachable) parts of a wheelchair may result in injury to you the assistants and damage your wheelchair.

► NOTE:

Wheelchair Assistants

When assistance to the wheelchair user is required, remember to use good body mechanics. Keep your back straight and bend your knees whenever titling the wheelchair or traversing kerbs, or any other impediments.

► NOTE:

This activity may be performed independently provided you have adequate mobility and upper body strength. Position the chair as close as possible along side the seat to which you are transferring, with the front castors pointing toward it, engage wheel locks. Shift body weight into seat with transfer. During independent transfer, little or no seat platform will be beneath you. Use a transfer board if at all possible.

⚠ WARNING:

DO NOT attempt to reach objects if you have to move forward in the seat or pick them up from the floor by reaching down between your knees.

⚠ 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 chairs 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.

Many activities require the wheelchair owner to reach, bend and transfer in and out of the wheelchair. These movements will cause a change to the normal balance, the centre of gravity, and the weight distribution of the wheelchair. To determine and establish your particular safety limits, practice bending, reaching and transferring activities in several combinations in the presence of a qualified health professional BEFORE attempting active use of the wheelchair.

Proper positioning is essential for your safety. When reaching, leaning, bending or bending forward, it is important to use the front castors as a tool to maintain stability and balance. See Fig 7.



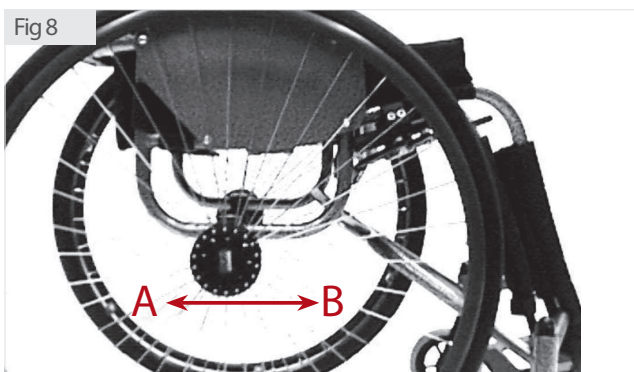
⚠ WARNING:

Any change in axle position can affect your centre of gravity and stability.

Lengthening and shortening the wheelbase

Lengthening the wheelbase will increase the stability and maintain standard manoeuvrability of the chair. Shortening the wheelbase will increase the manoeuvrability and distribute additional weight onto the rear wheels. To lengthen the wheelbase move Camber Bar toward the rear of the frame. See Fig 8.

To shorten the Wheelbase move the Camber Bar toward the front of the frame. See Fig 8.



A = Rearward / Lengthen B = Forward / Shorten

Manoeuvring your RGK wheelchair

⚠ WARNING:

BEFORE attempting to manoeuvre your new wheelchair it is important to practice and master these techniques until you are comfortable and competent.

⚠ WARNING:

During operation, handrims can get hot when being used to slow down. Extra caution is to be used when going downhill.

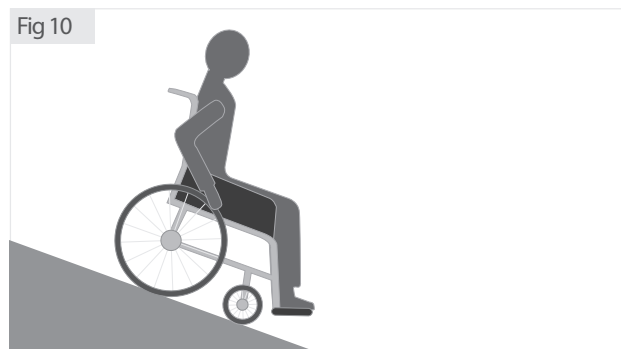
⚠ WARNING:

Manoeuvring across a slope may affect the stability of the wheelchair. Use extreme caution on slopes.

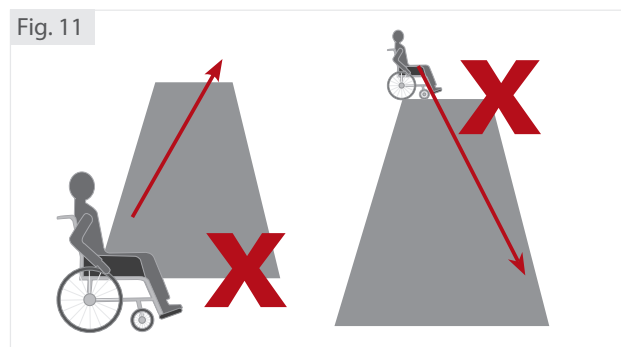
Remember to lean your upper body further forward when going up slopes and steps. See Fig 9.



Remember to lean your upper body further back when going down slopes and steps. See Fig 10.



Never try to climb or descend a slope diagonally. See figure 11.



Safety Inspection Checklist

NOTE:

Regular cleaning will reveal 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.

Item	Initially	Inspect / Adjust Weekly	Inspect / Adjust Monthly	Inspect / Adjust Yearly
<p>General</p> <ul style="list-style-type: none"> Wheelchair rolls straight (no excessive drag or pull to one side). Frame - Inspect frame for cracks and damage Fasteners - Inspect all fasteners are secured 	✓			✓
<p>Wheel Locks</p> <ul style="list-style-type: none"> Do not interfere with tyres when rolling Pivot points free of wear and looseness Wheel locks easy to engage 	✓		✓	
<p>Seat and Back Upholstery</p> <ul style="list-style-type: none"> Inspect for rips or sagging. Inspect fastening flaps to ensure they securely latch 	✓		✓	✓
<p>Rear Wheels</p> <ul style="list-style-type: none"> Adjustable Axle Position Camber Bar is securely tightened. Quick/Quad release axles lock properly No excessive side movement or binding when lifted and spun. 	✓	✓	✓	✓
<p>Handrims</p> <ul style="list-style-type: none"> Inspect for signs of rough edges or peeling. 	✓			✓
<p>Spokes</p> <ul style="list-style-type: none"> Inspect for bent or broken spokes. All spokes uniformly tight. 	✓		✓	
<p>Front Castor</p> <ul style="list-style-type: none"> Inspect wheel/fork assembly for proper tension by spinning castor; castor should come to gradual stop. Loosen / tighten locknut if wheel wobbles noticeably or binds to a stop. Wheel bearings are clean and free of moisture. <p>CAUTION: As with any vehicle, the wheels and tyres should be checked periodically for cracks and wear, and should be replaced when necessary.</p>	✓	✓	✓	✓
<p>Tyres</p> <ul style="list-style-type: none"> Inspect for flat spots and wear If pneumatic tyres check for proper inflation. <p>CAUTION: As with any vehicle, the wheels and tyres should be checked periodically for cracks and wear, and should be replaced when necessary.</p>	✓	✓		
<p>Cleaning</p>	✓		✓	

Troubleshooting Guide Mechanical

Chair veers right	Chair veers left	Sluggish 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 and nipples for tension
✓	✓		✓			Check that both castors contact the ground at the same time

⚠ WARNING:

After making adjustments, 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 frame tubing.

Maintenance

Suggested Maintenance Procedures

1. Before using your RGK Wheelchair, make sure all nuts and bolts are tight. Check all parts for damage or wear and replace. Check all parts for proper adjustment. Adjustments should always be carried out by an authorised RGK dealer.
2. Keep quick / quad-release axles free of dirt to ensure positive locking and proper operation. Refer to adjusting the quick-release axle or adjusting the quad-release axle in Procedure 3 of this manual.
3. Clean and polish Quick-Release Axles once a month – DO NOT OIL.
4. Recommended tyre pressure is listed on the side wall of the tyre.
5. The wheels and tyres should be checked periodically for cracks and wear, and should be replaced when necessary at your authorised dealer.
6. Regularly check for loose spokes in the rear wheels. If loose, have them adjusted at your authorised dealer.
7. Periodically check handrims to ensure they are secured to the rear wheels. Refer to handrim replacement in procedure 5 of this manual.
8. Periodically adjust wheel locks in correlation to tyre wear. Refer to adjusting wheel locks in procedure 8 of this manual.
9. Periodically check castor wheel bearings to make sure they are clean and free from moisture. Refer to replacing your front castor wheels in procedure 7 of this manual.
10. Check upholstery for sagging, rips or tears. Adjust or replace as necessary
11. The seat upholstery is secured by means of Velcro straps around the frame. The upholstery can easily be removed from the frame by loosening the straps under the seat. Refer to placing your seat upholstery see procedure 2 of this manual.
12. The backrest upholstery is removed by loosening the cover, detaching the centre pad and wings, Refer to adjusting / replacing your upholstery see procedure 1.
13. Wipe down the seat and backrest upholstery with a clean damp cloth. It is important to keep the wheelchair clean, both for your own comfort and longevity of the chair. Clean the frame with a non-abrasive cleaning agent.

⚠ WARNING:

Do not use the 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.

► NOTE:

It is recommended to clean and disinfect the frame and upholstery frequently. Store wheelchair in a cool, dry place out of direct sunlight and in original packaging.

⚠ WARNING:

Do not reuse single use fasteners. Contact your authorised dealer for more information.

⚠ WARNING:

Exclusively use genuine RGK spare parts. Never use third-party parts that are not approved by RGK.

Procedure 1

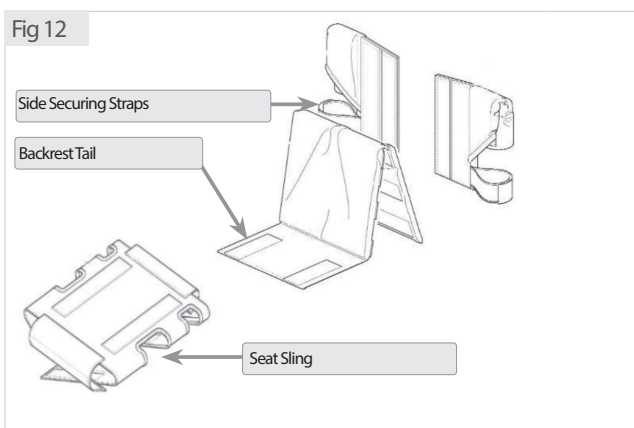
This Procedure includes the following: Adjusting / Replacing the Back Upholstery

The backrest upholstery is individually adjustable by adjusting either the Velcro straps or Velcro securing wings located under the centre pad.

Adjusting / replacing the back upholstery

To remove back upholstery, remove cushion, release backrest tail from seat sling, release side securing straps and lift upholstery squarely off.

To re-fit reverse above procedure. See Fig 12.



⚠ 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 chairs 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.

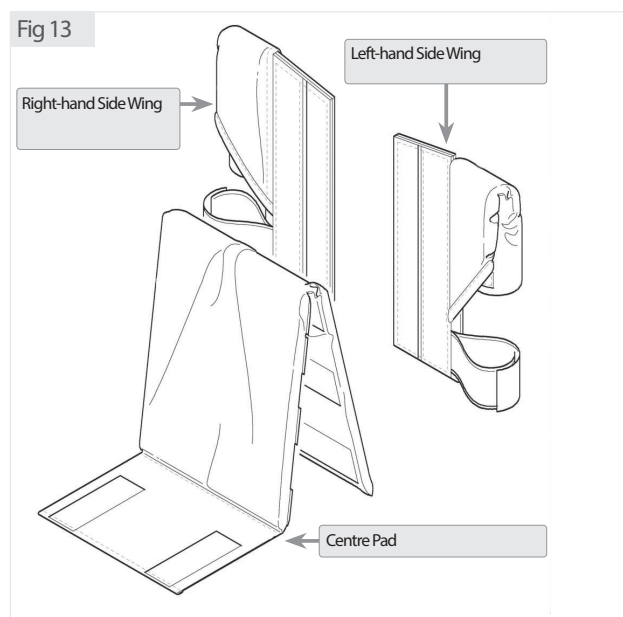
⚠ CAUTION:

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

To adjust tension, pull centre pad up from the rear (side with RGK logo) Re-position side wings to increase/decrease tension and securely re-fit centre pad.

See Fig 13.

With strap adjustable backrest upholstery use straps to decrease/increase tension (not illustrated).

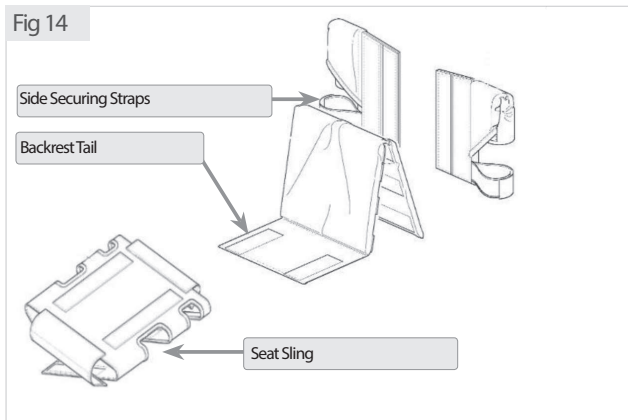


Procedure 2

This Procedure includes the following: Replacing the Seat Upholstery

Seat Upholstery Replacement

1. Remove the seat cushion and back upholstery tail from the seat sling. See Fig 14.
2. Remove rear wheels from chair.
3. Unlatch the fastening flaps that secure the seat upholstery to the chair frame. See Fig 15.
4. Remove the existing seat upholstery, by peeling apart the velcro straps.
5. Install the NEW seat upholstery making sure the fastening flaps hang over the right and left sides of the chair frame.
6. Place the front fastening flaps in front of the cross frame bar and securely latch together.
7. Securely latch the remaining fastening flaps together.
8. Refit rear wheels. See procedure 3
9. Reinstall the back upholstery and seat cushion onto the chair. Refer to adjusting the back upholstery in procedure 1 of this manual.



Procedure 3

This Procedure includes the following:

Removing rear wheels and attaching them to and from your wheelchair.

The wheels can, therefore, be installed or removed without using tools.

Removing rear wheels and attaching them to and from your wheelchair.

1. Push in the detent/RGK button of the quick-release axle. Pull both axle and wheel away from your wheelchair. See Fig 16.
2. Repeat STEP 1 for the opposite wheel
3. To reinstall the rear wheels onto your wheelchair. Push in the detent/RGK button of the quick-release axle and insert quick release axle into the camber bar. Pushing both axle and wheel towards your wheelchair.



⚠ WARNING:

Changing the size of your rear wheels can affect the performance of the wheelchair. Please contact RGK Wheelchairs Ltd. before changing rear wheel size. The telephone number is located on the back of this manual.

► NOTE:

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.

⚠ 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 4

This Procedure includes the following: Adjusting the Quick-Release Axle

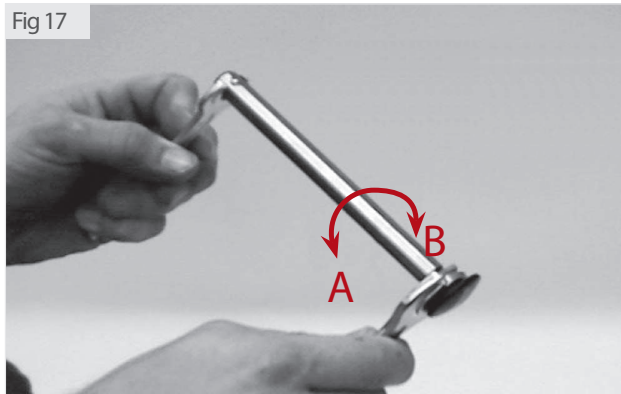
► Adjusting the Quick-Release Axle

1. Remove rear wheel and quick-release axle from the chair.
2. Remove quick release axle from the wheel by depressing detent pin/RGK button in the quick-release axle and slide axle through the wheel hub. See Fig 17.
3. Release detent pin/RGK button ensuring that the locking pins are fully released. Increase or decrease end play by adjusting the locknut on the end of the quick-release axle. See Fig 17.
4. Reinstall rear wheel onto the chair.

► NOTE:

Please note the quick release axle is removable and can be adjusted in length.

Fig 17



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 5

This procedure includes the following: Replacing the Hand Rim; Repairing/Replacing rear wheel, tyre/tube;

⚠ WARNING:

If a handrim should become damaged it could lead to injury, and should be replaced.

Handrim replacement

1. Remove the rear wheel from the chair by depressing the detent/RGK button.
2. Remove all air from the tube by pressing down on the pin in the centre of the valve stem
3. While carefully holding the tyre, tube and rim strip to one side, hold the allen head screws and remove the locknuts that secure the handrim to the rear wheel.
4. Remove the existing handrim.
5. Install the NEW handrim by reversing the above procedures.
6. Inflate the tyre to the correct psi rating on the sidewall of the tyre.
7. Reinstall rear wheel to the chair.
8. Repeat the procedure for the opposite rear wheel if necessary.

► NOTE:

It is not necessary to remove tyre and tube when replacing hand rim on either Spider or X-Core Wheels.

Repairing / replacing rear wheel, tyre & tube

1. Remove the rear wheel from the chair..
2. Remove all air from the tube by pressing down on the pin in the centre of the valve stem.
3. Unscrew the valve securing ring (Presta valves only). Using tyre levers, remove outside tyre bead from wheel rim, unscrew valve securing ring (Presta valves only) remove tube. Remove tyre from rim. Reverse procedure to fit tyre/tube.
4. Inflate the tyre to the correct psi rating on the side wall of the tyre.
5. Reinstall rear wheel to the chair.
6. Repeat the procedure for the opposite rear wheel if necessary.

► NOTE:

If replacing the rear wheels or tyres with a different size than what was originally on the chair please note this will raise or lower the rear of the chair and may have an adverse effect on your balance.

Please contact your dealer or mobility advisor for additional advice.

⚠ WARNING:

Tyre MUST be deflated before any disassembly procedures are performed.

⚠ WARNING:

DO NOT inflate tyre until it is completely assembled.

⚠ WARNING:

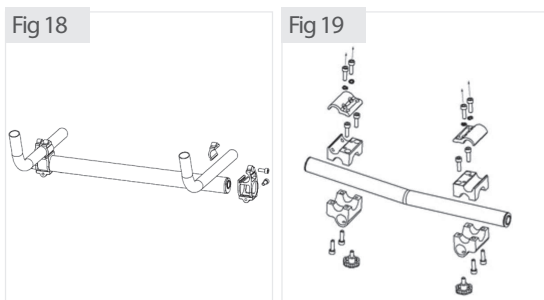
Make sure the detent/RGK button of the quick release axle is fully released BEFORE operating the wheelchair.

Procedure 6

This procedure includes the following: Adjusting or Replacing your camber bar

Adjusting / replacing the camber bar

This procedure applies to two different camber bar types, both requiring a 5mm allen key.



1. Remove the rear wheels from the chair. (As procedure 3)
2. Loosen ONLY the allen head screws that secure the adjustable camber bar to the chair frame.

NOTE:

Ensure the allen head screws are loose enough to allow the adjustable camber bar to move freely along the chair frame to avoid scratching the chair frame.

3. Move the adjustable axle position camber bar forward or back along the chair frame to adjust. Lengthening the wheelbase will increase the stability and maintain standard manoeuvrability of the chair. Shortening the wheelbase will increase the manoeuvrability and distribute additional weight onto the rear wheels.
4. Measure both attaching points of the adjustable axle position camber bar from both back posts to ensure the adjustable camber bar is positioned at a 90° angle to the chair frame.
5. Securely tighten the allen head screws that secure the adjustable camber bar to the chair frame.
6. Reinstall the rear wheels onto the chair.
7. Move the chair before using to make sure there is no excessive drag to either side.

NOTE:

If drag to either side occurs, repeat the above procedures until the chair rolls correctly.

WARNING:

Tyre MUST be deflated before any disassembly procedures are performed.

WARNING:

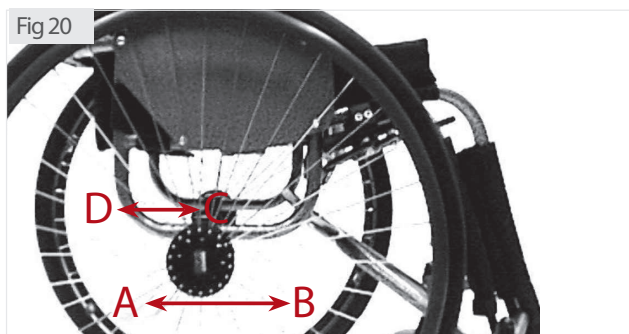
DO NOT inflate tyre until it is completely assembled.

WARNING:

Make sure the detent pin of the quick/quad release axle is fully released BEFORE operating the wheelchair.

WARNING:

The position of the footrest, camber bar, as well as the tautness of the back upholstery, are directly related to the chairs 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.



A = Rearward / Lengthen
B = Forward / Shorten

Procedure 7

This procedure includes the following: Replacing the Front Castor Fork assembly and Castor Wheels

Replacing Fork Assembly

1. Remove cap.
2. Remove the bolt and locknut that secure the front fork assembly.
3. Remove the front castor fork assembly using 19mm socket spanner downwards through the castor housing noting any washer sequence.
4. Install the NEW front castor fork and reverse steps 2 - 1 to refit.
5. Repeat the procedure for the opposite front castor if necessary.

Replacing Front Castor Wheels

1. Using two 4mm Allen keys, remove 1 of the 2 screws that locate the castor axle.
2. Remove the castor axle by sliding it out. Remove the castor wheel and spacers from the castor fork.
3. Install the NEW castor wheel, castor axle and spacers to the castor fork, by reversing STEPS 1 & 2.

► NOTE:

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

△ CAUTION:

RGK DO NOT recommend replacing 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.

Procedure 8

This procedure includes the following: Adjusting / Replacing Wheel Locks

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.

Wheel Locks - Adjustment / Replacement

1. To replace push/pull wheel lock: See Fig 21.
2. Loosen the two allen head screws in the clamp/plate which secure the wheel lock to the frame. Slide wheel lock out of clamp/plate. Fit new wheel lock by reversing procedure.
3. To replace under seat scissor lock: Use same procedure as push/pull lock. See Fig 22.
4. Adjustment - All wheel lock styles:
5. The wheel lock tyre pressure bar should embed by 5-7mm into the (pneumatic) tyre when engaged. Adjust to give satisfactory locking of the chair wheels.

WARNING:

After any adjustments, repair or service and before use, make sure all attaching hardware is tightened securely – otherwise injury or damaged may result.

WARNING:

If wheel locks do not hold occupied wheelchair in place please adjust as above, or contact your dealer – otherwise injury or damages may occur.

WARNING:

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.

Fig 21



Fig 22

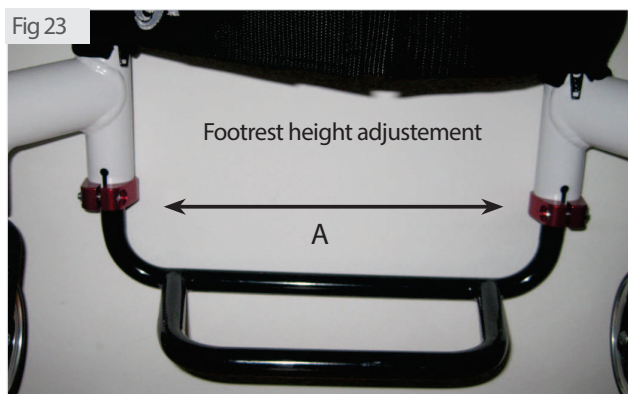


Procedure 9

This Procedure includes the following: Adjusting the footrest height / angle, and replacing the footrest.

Adjusting / replacing the footrest

1. Loosen the two Allen head screws that secure the footrest to the chair frame. (Located at the rear of the frame, see Fig 25). On the TIGA Sub4, there are no clamps. The screws are directly on the rear of the frame.
2. Remove footrest – ensuring the footrest is removed with equal pressure.
3. Remove existing and install NEW footrest.
4. Position the NEW / existing footrest to a determined height.
5. Tighten the two allen head screws “A” that secure the footrest to the chair frame. See Fig 23.

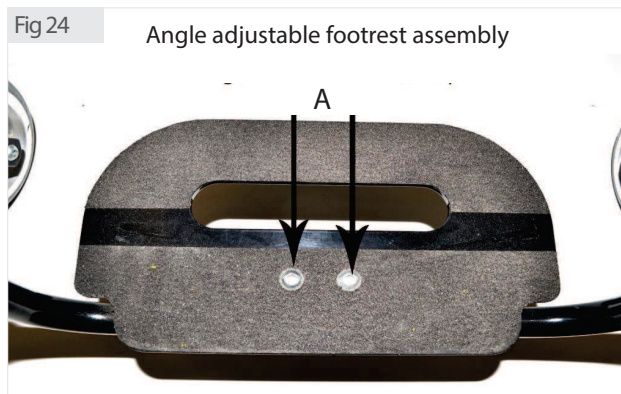


⚠ WARNING:

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 chairs 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.

Angle adjusting the footrest platform

1. To adjust the angle on your angle adjustable footrest. Loosen two button head allen screws “A” (see fig 24) on top of foot platform.
2. Rotate until desired angle is achieved.
3. Securely tighten two button head allen screws.



⚠ WARNING:

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

⚠ WARNING:

Do not stand on the footrest/footplate! Even if the user is sitting in the chair, there is still a risk of tipping over and injury.

⚠ WARNING:

When transferring, do not stand on the footboard, there is a risk of tipping over and injury.

Procedure 10

This Procedure includes the following: Unfolding / Folding the backrest.

⚠ WARNING:

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

Folding your backrest with cord support

1. To fold the backrest, grasp cord support. See Fig 25.
2. Pull the cord strap towards the brace bar. See Fig 26 this will release both locking pins, allowing the backrest to fall forward.
3. Push the backrest firmly down ensuring that the pins locate in the locking holes.
4. To unfold the backrest, reversing STEPS 1, 2 & 3 – Ensure that the locking pins are secure and located in the pivot plate.

⚠ CAUTION:

This product contains moving parts. Beware of finger trapping.

Fig 25



Fig 26



Fig 27



Procedure 11

This Procedure includes the following: Height adjustable pushing handles, Fold-down push handles.

⚠ WARNING:

DO NOT attempt to lift the wheelchair by any removable (detachable) parts.

This includes Height adjustable pushing handles, Fold-down push handles & Screw in Push handles

Lifting by means of any removable (detachable) parts of a wheelchair may result in injury to you the assistants and damage your wheelchair.

Height adjustable push handles

1. To operate this style of pushing handle open the mini quick release lever as indicated (Fig 28). By opening the quick release lever allows the stroller handle to be adjusted in height.
2. Once the desired height is achieved then close the mini lever.
3. If the lever becomes loose, then the nut on the mini release lever requires tightening. (The nut on the mini release lever determines on how tightly the clamp is applied).



Flip-down push handles

To fold down your pushing handles, depress the button (2) when required again, simply lift back into position and lock. See Fig 29.

Screw in Pushing Handles

These are screwed into position by turning the handle clockwise, and anti clockwise to remove. See Fig. 30.



Procedure 12

This Procedure includes the following: Adjusting the Anti-Tipper.

Adjusting the Anti-tipper

1. Press in the release buttons that secures the anti-tipper wheel to the anti-tipper bar.
2. Adjust the height of the anti-tipper wheels to between 25mm and 50mm of the ground.
3. Repeat steps 1 – 2 for the opposite anti-tipper.

⚠ WARNING:

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

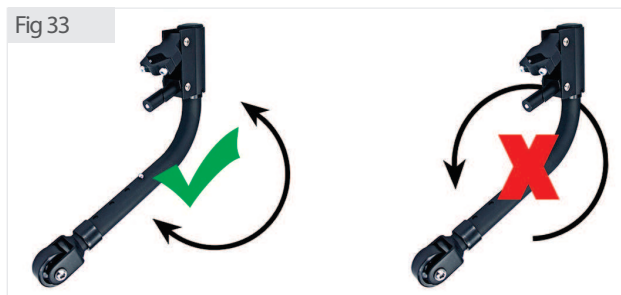
► NOTE:

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.

► NOTE:

Only rotate anti-tipper 180°. Do not rotate 360°



Procedure 13

This Procedure includes the following: Sideguards and Armrest

Fixed Sideguards (All Materials)

The sideguard is fitted by means of either 3/4/5/6 screws dependant on the configuration of your wheelchair



Height Adjustable Armrest Height Adjustment

1. Rotate height release lever (2) to the second position.
2. Slide the armrest pad up or down to the required height.
3. Return the lever to the locked position against the armrest
4. Push the arm pad until the upper arm post locks firmly into place.



⚠ WARNING:

RGK Wheelchairs DOES NOT encourage the transportation of any person in a vehicle using a lapbelt/strap as a method of restraint. The end user should be transferred into the vehicle seating system and restraints.

⚠ CAUTION:

This product has moving parts. Be aware of finger trapping.

Procedure 14

This procedure include the following: Strapping:

Location of the strapping

The strap can positioned either, under the wheelchair and passing up between the side guards (if fitted) and fastened across the lap or pelvis. Other option is passing around the back and inserted in between the insides of the centre pad as per Fig 36.

This style of strap is a positioning strap only.



⚠ WARNING:

It is not designed for use as a safety device to withstanding high stress loads such as auto safety belts.

With regards to chest positioning straps – it is the obligation of the therapists and other healthcare professionals to determine if a chest strap/harness is required.

Technical Data

ITEM	Min	Max
Overall Width	250 mm	500 mm
Overall Seat Height	300 mm	600 mm
Overall Frame Length	400 mm	800 mm
Weight in Kg	7 kg*	-
User Weight	-	125 kg*

* Values may vary depending on product. Refer to Order Form for guidance.

ITEM	TORQUE
Backrest Pivot Plate	10 Nm
Wheel Lock	10 Nm
Camber Bar	10 Nm
Footrest Adjustment Height	10 Nm
All other items	10 Nm

NOTE:

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

- **Aluminum:** Castor forks, Wheels, side guards, Armrest, Footrest, Hand Rims, Anti-Tippers, Frame, Footplate covers
- **Steel:** Fixing points, Quick release axle pins, Footrest, Anti-tippers, Frame Wheels, Fixings, Wheel Locks, Footplate covers
- **Titanium:** 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).

Warranty

► GUARANTEE

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

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

Warranty conditions

1. Should a part or parts of the wheelchair require repair or replacement as a result of a manufacturing and/or material fault within 24 months or for frame and cross-braces within 5 years after delivery to the customer, then the affected part or parts will be repaired or replaced free of charge. (Batteries are guaranteed for a period of 12 months subject to the correct battery care plan being followed)
2. To enforce the warranty, please contact Sunrise Medical Customer Service with the exact details of the nature of the difficulty. Should you be using the wheelchair outside the area covered by the Sunrise Medical customer service agent, repairs or replacement will be carried out by another agency as designated by the manufacturer. The wheelchair must be repaired by a Sunrise Medical designated Customer Service agent, (dealer).
3. For parts, which have been repaired or exchanged within the scope of this warranty, we provide a warranty in accordance with these warranty conditions for the remaining warranty period for the wheelchair in accordance with point 1).
4. For original spare parts which have been fitted at the customer's expense, these will have a 12 months guarantee, (following the fitting), in accordance with these warranty conditions.
5. 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:
 - a) 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.
 - b) Accessories have been used which are not specified as original accessories.
 - c) The wheelchair or part having been damaged by neglect, accident or improper use.
 - d) Changes/modifications have been made to the wheelchair or parts, which deviate from the manufacturer's specifications.
 - e) 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 Sunrise Medical"

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

Please make a reference of your chair model and serial number (found on sticker on your camber bar) and quote this whenever calling the office regarding your chair. For example if you would like to order replacement parts; we will be able to find out the ones you have and also alternatives that fit your chair.

Chair Model:	Serial No:

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