

# QUICKIE®

## *Quickie® Ti Titanium*

**SUPPLIER:**  
THIS MANUAL MUST BE GIVEN TO THE RIDER  
OF THIS WHEELCHAIR.

**RIDER:**  
BEFORE USING THIS WHEELCHAIR READ THIS  
ENTIRE MANUAL AND SAVE FOR FUTURE REFERENCE.

*User*

*Instruction*

*Manual &*

*Warranty*

**SUNRISE LISTENS**

Thank you for choosing a Quickie wheelchair. We want to hear your questions or comments about this manual, the safety and reliability of your chair, and the service you receive from your supplier. Please feel free to write or call us at the address and telephone number below:

**SUNRISE MEDICAL**  
Customer Service Department  
7477 East Dry Creek Parkway  
Longmont, CO 80503  
(303) 218-4500

Let us know your address. This will allow us to keep you up to date with information about safety, new products and options to increase your use and enjoyment of this wheelchair.

**FOR ANSWERS TO YOUR QUESTIONS**

Your authorized supplier knows your wheelchair best, and can answer most of your questions about chair safety, use and maintenance. For future reference, fill in the following:

Supplier: \_\_\_\_\_

Address: \_\_\_\_\_

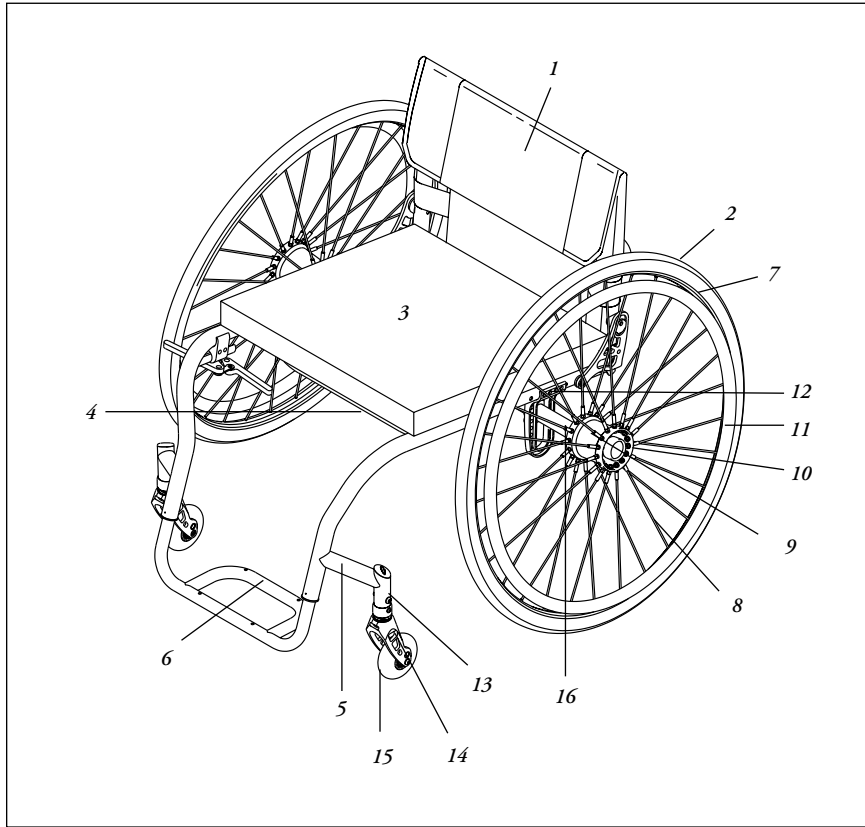
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Telephone: \_\_\_\_\_

Serial #: \_\_\_\_\_ Date/Purchased: \_\_\_\_\_

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### Quickie Ti Titanium

- |                           |                        |
|---------------------------|------------------------|
| 1. Backrest               | 9. Rear wheel hub      |
| 2. Tire                   | 10. Quick-release axle |
| 3. Seat cushion           | 11. Handrim            |
| 4. Seat sling (not shown) | 12. Axle plate         |
| 5. Caster leg             | 13. Caster housing     |
| 6. Footrest               | 14. Fork               |
| 7. Wheel rim              | 15. Caster wheel       |
| 8. Spokes                 | 16. Camber tube        |

#### Weight

16.9 lbs. (16 x 16 spoke wheels)  
(Chair weight will vary per component options)

#### Adjustments

Caster, CG, rear seat height, back angle, footrest length

#### Color

Bead finished Titanium

#### Frame Dimensions

Frame width: Std 13"-18"  
Seat depth: 14"-19"  
Opt- Cushion: 2"

#### Backrest

Fixed Height/Folding/Angle Adjustable  
Fixed Height/Angle Adjustable  
Folding-adjustable height & angle:  
11"-14", 12"-16", 16"-20"  
Backrest options: side guard,  
adjustable upholstery,  
folding push handles

#### Footrest

Tubular, Tubular w/Cover, Tubular  
w/Flared Cover and Angle Adjustable  
Platform

#### Casters

Std- 5" Low-profile Polyurethane  
Opt- 4" Poly,  
4" Light Up  
Opt- 3" Micros,  
3" Light Up

#### Armrests

Opt- padded Swing-Away

#### Axle Bracket

Standard- Adjustable Bracket  
Camber- 0°, 2°, 4°, 8°

#### Axles

Std- stainless steel  
Opt- titanium, quad-release axle nuts

#### Anti-tip Tubes

Opt- Rear anti-tip tubes,

#### Standard Rear Wheels

Std- spoke

#### Quickie Performance Wheels

Opt- heat-treated  
Opt- Spinegy

#### Tire Size

Std- 24"  
Opt- 26"

#### Tire Types

Std - pneumatic  
Opt - airless insert  
Kevlar (24" only), high-pressure  
clincher (24", 26" only).  
latex-tubular (24", 26" only),  
turbo tread (24", 26" only)

#### Hand Rims

Std- aluminum  
Opt- Titanium  
Opt- plastic-coated,

#### Wheel Locks

Std- high-scissor  
Opt- high-push, high-pull

All features may not be available with some chair setups or in conjunction with another chair feature. Please consult your authorized supplier for more information.

**A. CHOOSE THE RIGHT CHAIR & SAFETY OPTIONS**

Sunrise provides a choice of many wheelchair styles to meet the needs of the wheelchair rider. However, final selection of the type of wheelchair, options and adjustments rests solely with you and your health care advisor. Choosing the best chair and set-up for your safety depends on such things as:

1. Your disability, strength, balance and coordination.
2. The types of hazards you must overcome in daily use (where you live and work, and other places you are likely to use your chair).
3. The need for options for your safety and comfort (such as anti-tip tubes, positioning belts, or special seating systems).

**B. REVIEW THIS MANUAL OFTEN**

Before using this chair you, and each person who may assist you, should read this entire manual and make sure to follow all instructions. Review the warnings often, until they are second nature to you.

**C. WARNINGS**

The word **“WARNING”** refers to a hazard or unsafe practice that may cause **severe injury or death** to you or to other persons. The “Warnings” are in three main sections, as follows:

**1. V — GENERAL WARNINGS**

Here you will find a safety checklist and a summary of risks you need to be aware of before you ride this chair.

**2. VI — WARNINGS — FALLS & TIP-OVERS**

Here you will learn how to avoid a fall or tip-over while you perform daily activities in your chair.

**3. VII — WARNINGS — FOR SAFE USE**

Here you will learn about practices for the safe use of your chair

**4. VIII — WARNINGS — COMPONENTS & OPTIONS**

Here you will learn about the components of your chair and options you can select for safety. Consult your authorized supplier and your health care advisor to help you choose the best set-up and options for safe use.

**NOTE**— Where they apply, you will also find “Warnings” in other sections of this manual. Heed all warnings in this section. If you fail to do so a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**A. WEIGHT LIMIT**** WARNING**

NEVER exceed the weight limit of 250 pounds (113.6 kilograms), for combined weight of rider and items carried. If you do exceed the limit, damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**B. WEIGHT TRAINING**** WARNING**

NEVER use this chair for weight training if total weight (rider plus equipment) exceeds 250 pounds. If you do exceed the limit, damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**C. GETTING TO KNOW YOUR CHAIR**** WARNING**

Every wheelchair is different. Take the time to learn the feel of this chair before you begin riding. Start slowly, with easy, smooth strokes. If you are used to a different chair, you may use too much force and tip over. If you use too much force, damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**D. TO REDUCE THE RISK OF AN ACCIDENT**** WARNING**

1. BEFORE riding, you should be trained in the safe use of this chair by your health care advisor.
2. Practice bending, reaching and transfers until you know the limit of your ability. Have someone help you until you know what can cause a fall or tip-over and how to avoid doing so.
3. Be aware that you must develop your own methods for safe use best suited to your level of function and ability.
4. NEVER try a new maneuver on your own until you are sure you can do it safely.
5. Get to know the areas where you plan to use your chair. Look for hazards and learn how to avoid them.
6. Use anti-tip tubes unless you are a skilled rider of this chair and are sure you are not at risk to tip over.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**E. SAFETY CHECKLIST**** WARNING**

Before Each Use Of Your Chair:

1. Make sure the chair rolls easily and that all parts work smoothly. Check for noise, vibration, or a change in ease of use. (They may indicate low tire pressure, loose fasteners, or damage to your chair).
2. Repair any problem. Your authorized supplier can help you find and correct the problem.
3. Check to see that both quick-release rear axles are locked. When locked, the axle button will “pop out” fully. If not locked, the wheel may come off and cause you to fall.
4. If your chair has anti-tip tubes, lock them in place.

**NOTE**– See “Anti-Tip Tubes” (Section VIII) for times you should not use them.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**F. CHANGES & ADJUSTMENTS**** WARNING**

1. If you modify or adjust this chair, it may increase the risk of a tip-over UNLESS you make other changes as well.
2. Consult your authorized supplier BEFORE you modify or adjust your chair.
3. We recommend that you use anti-tip tubes until you adapt to the change, and are sure you are not at risk to tip over.
4. Unauthorized modifications or use of parts not supplied or approved by Sunrise may change the chair structure. This will void the warranty and may cause a safety hazard.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**G. ENVIRONMENTAL CONDITIONS**** WARNING**

1. Use extra care if you must ride your chair on a wet or slick surface. If you are in doubt, ask for help.
2. Contact with water or excess moisture may cause your chair to rust or corrode. This could cause your chair to fail.
  - a. Do not use your chair in a shower, pool or other body of water. The chair tubing and parts are not water-tight and may rust or corrode from the inside.
  - b. Avoid excess moisture (for example, do not leave your chair in a damp bathroom while taking a shower).
  - c. Dry your chair as soon as you can if it gets wet, or if you use water to clean it.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**H. TERRAIN**** WARNING**

1. Your chair is designed for use on firm, even surfaces such as concrete, asphalt and indoor floors and carpeting.
2. Do not operate your chair in sand, loose soil or over rough terrain. This may damage wheels or axles, or loosen fasteners of your chair.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**I. STREET USE**** WARNING**

In most states, wheelchairs are not legal for use on public roads. Be alert to the danger of motor vehicles on roads or in parking lots.

1. At night, or when lighting is poor, use reflective tape on your chair and clothing.
2. Due to your low position, it may be hard for drivers to see you. Make eye contact with drivers before you go forward. When in doubt, yield until you are sure it is safe.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**J. MOTOR VEHICLE SAFETY**** WARNING**

Quickie wheelchairs do not meet federal standards for motor vehicle seating.

1. NEVER let anyone sit in this chair while in a moving vehicle.
  - a. ALWAYS move the rider to an approved vehicle seat.
  - b. ALWAYS secure the rider with proper motor vehicle restraints.
2. In an accident or sudden stop the rider may be thrown from the chair. Wheelchair seat belts will not prevent this, and further injury may result from the belts or straps.
3. NEVER transport this chair in the front seat of a vehicle. It may shift and interfere with the driver.
4. ALWAYS secure this chair so that it cannot roll or shift.
5. Do not use any chair that has been involved in a motor vehicle accident.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**K. WHEN YOU NEED HELP**** WARNING****For The Rider:**

Make sure that each person who helps you reads and follows all warnings and instructions that apply.

**For Attendants:**

1. Work with the rider's doctor, nurse or therapist to learn safe methods best suited to your abilities and those of the rider.
2. Tell the rider what you plan to do, and explain what you expect the rider to do. This will put the rider at ease and reduce the risk of an accident.
3. Make sure the chair has push handles. They provide secure points for you to hold the rear of the chair to prevent a fall or tip-over. Check to make sure push handle grips will not rotate or slip off.
4. To prevent injury to your back, use good posture and proper body mechanics. When you lift or support the rider or tilt the chair, bend your knees slightly and keep your back as upright and straight as you can.
5. Remind the rider to lean back when you tilt the chair backward.
6. When you descend a curb or single step, slowly lower the chair in one easy movement. Do not let the chair drop the last few inches to the ground. This may damage the chair or injure the rider.
7. To avoid tripping, unlock and rotate anti-tip tubes up, out of the way. ALWAYS lock the rear wheels and lock anti-tip tubes in place if you must leave the rider alone, even for a moment. This will reduce the risk of a tip over or loss of control of the chair.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**A. CENTER OF BALANCE**** WARNING**

The point where this chair will tip forward, back, or to the side depends on its center of balance and stability. How your chair is set up, the options you select and the changes you make may affect the risk of a fall or tip-over.

1. The Most Important Adjustments Are:
  - a. The position of the rear wheels. The more you move the rear wheels forward, the more likely your chair will tip over backward.
2. The Center Of Balance Is Also Affected By:
  - a. A change in the set-up of your chair, including:
    - The distance between the rear wheels.
    - The amount of rear wheel camber.
    - The seat height and seat angle.
    - Backrest angle.
  - b. A change in your body position, posture or weight distribution.
  - c. Riding your chair on a ramp or slope.
  - d. The use of a back pack or other options, and the amount of added weight.
3. To Reduce The Risk Of An Accident:
  - a. Consult your doctor, nurse or therapist to find out what axle and caster position is best for you.
  - b. Consult your authorized supplier BEFORE you modify or adjust this chair. Be aware that you may need to make other changes to correct the center of balance.
  - c. Have someone help you until you know the balance points of your chair and how to avoid a tip-over.
  - d. Use anti-tip tubes.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**B. DRESSING OR CHANGING CLOTHES**** WARNING**

Your weight may shift if you dress or change clothes while seated in this chair. To reduce the risk of a fall or tip-over:

1. Rotate the front casters until they are as far forward as possible. This makes the chair more stable.
2. Lock anti-tip tubes in place. (If your chair does not have anti-tip tubes, back it up against a wall and lock both rear wheels).

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**C. WHEELIES****⚠ WARNING**

Doing a “wheelie” means: balancing on the rear wheels of your chair, while the front casters are in the air. It is dangerous to do a “wheelie” as a fall or tip-over may occur. However, if you do it safely, a “wheelie” can help you overcome curbs and obstacles.

1. Consult your doctor, nurse or therapist to find out if you are a good candidate to learn to do a “wheelie.”
2. Do not attempt a “wheelie” UNLESS you are a skilled rider of this chair, or you have help.

**NOTE**– See p. 19 for steps to learn to do a “wheelie.”

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**D. OBSTACLES****⚠ WARNING**

Obstacles and road hazards (such as potholes and broken pavement) can damage your chair and may cause a fall, tip-over or loss of control.

To avoid these risks:

1. Keep a lookout for danger – scan the area well ahead of your chair as you ride.
2. Make sure the floor areas where you live and work are level and free of obstacles.
3. Remove or cover threshold strips between rooms.
4. Install a ramp at entry or exit doors. Make sure there is not a drop off at the bottom of the ramp.
5. To Help Correct Your Center Of Balance:
  - a. Lean your upper body FORWARD slightly as you go UP over an obstacle.
  - b. Press your upper body BACKWARD as you go DOWN from a higher to a lower level.
6. If your chair has anti-tip tubes, lock them in place before you go UP over an obstacle.
7. Keep both of your hands on the handrims as you go over an obstacle.
8. Never push or pull on an object (such as furniture or a doorjamb) to propel your chair.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**E. REACHING OR LEANING****⚠ WARNING**

If you reach or lean it will affect the center of balance of your chair. This may cause you to fall or tip over. When in doubt, ask for help or use a device to extend your reach.

1. NEVER reach or lean if you must shift your weight sideways or rise up off the seat.
2. NEVER reach or lean if you must move forward in your seat to do so. Always keep your buttocks in contact with the backrest.
3. NEVER reach with both hands (you may not be able to catch yourself to prevent a fall if the chair tips).
4. NEVER reach or lean to the rear unless your chair has anti-tip tubes locked in place.
5. DO NOT reach or lean over the top of the seat back. This may damage one or both backrest tubes and cause you to fall.
6. If You Must Reach Or Lean:
  - a. Do not lock the rear wheels. This creates a tip point and makes a fall or tip-over more likely.
  - b. Do not put pressure on the footrests.

**NOTE**– Leaning forward puts pressure on the footrests and may cause the chair to tip if you lean too far.

- c. Move your chair as close as you can to the object you wish to reach.
- d. Do not try to pick up an object from the floor by reaching down between your knees. You are less likely to tip if you reach to the side of your chair.
- e. Rotate the front casters until they are as far forward as possible. This makes the chair more stable.

**NOTE**– To do this: Move your chair past the object you want to reach, then back up alongside it. Backing up will rotate the casters forward.

- f. Firmly grasp a rear wheel or an armrest with one hand. This will help to prevent a fall if the chair tips.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**F. MOVING BACKWARD****⚠ WARNING**

Use extra care when you move your chair backward. Your chair is most stable when you propel yourself forward. You may lose control or tip over if one of the rear wheels hits an object and stops rolling.

1. Propel your chair slowly and smoothly.
2. If your chair has anti-tip tubes, make sure to lock them in place.
3. Stop often and check to be sure your path is clear.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.



## G. RAMPS, SLOPES &amp; SIDEHILLS

**⚠ WARNING**

Riding on a slope, which includes a ramp or side hill, will change the center of balance of your chair. Your chair is less stable when it is at an angle. Anti-tip tubes may not prevent a fall or tip-over.

1. Do not use your chair on a slope steeper than 10%. (A 10% slope means: one foot in elevation for every ten feet of slope length.)
2. Always go as straight up and as straight down as you can. (Do not “cut the corner” on a slope or ramp.)
3. Do not turn or change direction on a slope.
4. Always stay in the CENTER of the ramp. Make sure ramp is wide enough that you are not at risk that a wheel may fall over the edge.
5. Do not stop on a steep slope. If you stop, you may lose control of your chair.
6. NEVER use rear wheel locks to try to slow or stop your chair. This is likely to cause your chair to veer out of control.
7. Beware Of:
  - a. Wet or slippery surfaces.
  - b. A change in grade on a slope (or a lip, bump or depression). These may cause a fall or tip-over.
  - c. A drop-off at the bottom of a slope. A drop-off of as small as 3/4 inch can stop a front caster and cause the chair to tip forward.
8. To Reduce The Risk Of A Fall Or Tip-Over:
  - a. Lean or press your body UPHILL. This will help adjust for the change in the center of balance caused by the slope or side hill.
  - b. Keep pressure on the handrims to control your speed on a down slope. If you go too fast you may lose control.
  - c. Ask for help any time you are in doubt.
9. Ramps At Home & Work - For your safety, ramps at home and work must meet all legal requirements for your area. We recommend:
  - a. Width. At least four feet wide.
  - b. Guardrails. To reduce the risk of a fall, sides of ramp must have guardrails (or raised borders at least three inches high).
  - c. Slope. Not more than a 10% grade.
  - d. Surface. Flat and even, with a thin carpet or other non-skid material. (Make sure there is no lip, bump or depression.)
  - e. Bracing. Ramp must be STURDY. You may need bracing so ramp does not “bow” when you ride on it.
  - f. Avoid A Drop Off. You may need a section at the top or bottom to smooth out the transition.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

## H. TRANSFER

**⚠ WARNING**

It is dangerous to transfer on your own. It requires good balance and agility. Be aware that there is a point during every transfer when the wheelchair seat is not below you. To Avoid A Fall:

1. Work with your health care advisor to learn safe methods.
  - a. Learn how to position your body and how to support yourself during a transfer.
  - b. Have someone help you until you know how to do a safe transfer on your own.
2. Lock the rear wheels before you transfer. This keeps the rear wheels from rolling. **NOTE**– This will NOT keep your chair from sliding away from you or tipping.
3. Make sure to keep pneumatic tires properly inflated. Low tire pressure may allow the rear wheel locks to slip.
4. Move your chair as close as you can to the seat you are transferring to. If possible, use a transfer board.
5. Rotate the front casters until they are as far forward as possible.
6. If you can, remove or swing footrests out of the way.
  - a. Make sure your feet do not catch in the space between the footrests.
  - b. Avoid putting weight on the footrests as this may cause the chair to tip.
7. Make sure armrests are out of the way and do not interfere.
8. Transfer as far back onto the seat surface as you can. This will reduce the risk that the chair will tip or move away from you.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

## I. CURBS &amp; STEPS

**⚠ WARNING**

1. Each person who helps you should read and follow the warnings “For Safe Use” (Section VII).
2. Do not try to climb or descend a curb or step alone UNLESS you are a skilled rider of this chair and:
  - a. You can safely do a “wheelie”; and
  - b. You are sure you have the strength and balance to do so.
3. Unlock and rotate anti-tip tubes up, out of the way, so they do not interfere.
4. Do not try to climb a high curb or step (more than 4 inches high) UNLESS you have help. Doing so may cause your chair to exceed its balance point and tip over.
5. Go straight up and straight down a curb or step. If you climb or descend at an angle, a fall or tip-over is likely.
6. Be aware that the impact of dropping down from a curb or step can damage your chair or loosen fasteners.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**J. STAIRS**** WARNING**

1. NEVER use this chair on stairs UNLESS you have someone to help you. Doing so is likely to cause a fall or tip-over.
2. Persons who help you should read and follow the warnings “For Attendants” (p. 12), and the “For Safe Use” (Section VII).

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**K. ESCALATORS**** WARNING**

NEVER use this chair on an escalator, even with an attendant. If you do, a fall or tip-over is likely.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

** WARNING**

Before you assist a rider, be sure to read the warnings “For Attendants” (p. 12) and follow all instructions that apply. Be aware that you will need to learn safe methods best suited to your abilities.

**A. LEARNING TO DO A “WHEELIE”**** WARNING**

Follow these steps to help the rider learn to do a “wheelie”:

1. Read and follow the warnings for “WHEELIES.” (See p. 14)
2. Stand at the rear of the chair. You must be able to move with the chair to prevent a tip-over.
3. Keep your hands BENEATH the push handles, ready to catch the rider if the chair tips back.
4. When you are ready, have the rider place his or her hands on the forward part of the handrims.
5. Have the rider make a quick BACKWARD movement of the rear wheels, quickly followed by a hard FORWARD thrust. (This will tilt the chair up on the balance point of the rear wheels.)
6. Have the rider make small movements of the handrims to stay in balance.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**B. DESCENDING A CURB OR SINGLE STEP**** WARNING**

Follow these steps to help a rider descend a curb or single step going BACKWARD:

1. Stay at the rear of the chair.
2. Several feet before you reach the edge of the curb or step, turn the chair around and pull it backward.
3. While looking over your shoulder, carefully step back until you are off the curb or stair and standing on the lower level.
4. Pull the chair toward you until the rear wheels reach the edge of the curb or step. Then allow the rear wheels to slowly roll down onto the lower level.
5. When the rear wheels are safely on the lower level, tilt the chair back to its balance point. This will lift the front casters off the curb or step.
6. Keep the chair in balance and take small steps backward. Turn the chair around and gently lower front casters to the ground.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**C. CLIMBING A CURB OR SINGLE STEP**** WARNING**

Follow these steps to help the rider climb a curb or single step going FORWARD:

1. Stay behind the chair.
2. Face the curb and tilt the chair up on the rear wheels so that the front casters clear the curb or step.
3. Move forward, placing the front casters on the upper level as soon as you are sure they are past the edge.
4. Continue forward until the rear wheels contact the face of the curb or step. Lift and roll the rear wheels to the upper level.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**D. CLIMBING STAIRS**** WARNING**

1. Use at least two attendants to move a chair and rider up stairs.
2. Move the chair and rider BACKWARD up the stairs.
3. The person at the rear is in control. He or she tilts the chair back to its balance point.
4. A second attendant at the front firmly grasps a non-detachable part of the front frame and lifts the chair up and over one stair at a time.
5. The attendants move to the next stair up. Repeat for each stair, until you reach the landing.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**E. DESCENDING STAIRS**** WARNING**

1. Use at least two attendants to move a chair and rider down stairs.
2. Move the chair and rider FORWARD down the stairs.
3. The person at the rear is in control. He or she tilts the chair to the balance point of the rear wheels and rolls it to the edge of the top step.
4. A second attendant stands on the third step from the top and grasps the chair frame. He or she lowers the chair one step at a time by letting the rear wheels roll over the stair edge.
5. The attendants move to the next stair down. Repeat for each stair, until you reach the landing.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**F. MAINTENANCE**** WARNING**

1. Inspect and maintain this chair strictly per chart.
2. If you detect a problem, make sure to service or repair the chair before use.
3. At least once a year, have a complete inspection, safety check and service of your chair made by an authorized supplier.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

For additional maintenance information see Section XII: Maintenance.

**A. ANTI-TIP TUBES (OPTIONAL)****⚠ WARNING**

Anti-tip tubes can help keep your chair from tipping over backward in most normal conditions.

1. Sunrise Recommends Use Of Anti-Tip Tubes:
  - a. UNLESS you are a skilled rider of this chair and are sure you are not at risk to tip over.
  - b. Each time you modify or adjust your chair. The change may make it easier to tip backward. Use anti-tip tubes until you adapt to the change, and are sure you are not at risk to tip over.
2. When locked in place (in the “down” position) anti-tip tubes should be BETWEEN 1 1/2 to 2 inches off the ground.
  - a. If set too HIGH, they may not prevent a tip-over.
  - b. If set too LOW, they may “hang up” on obstacles you can expect in normal use. If this occurs, you may fall or your chair may tip over.
3. Keep Anti-Tip Tubes Locked In Place UNLESS:
  - a. You have an attendant; or
  - b. You have to climb or descend a curb, or overcome an obstacle, and can safely do so without them. At these times, make sure anti-tip tubes are up, out of the way.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**B. ARMRESTS****⚠ WARNING**

Armrests detach and will not bear the weight of this chair.

1. NEVER lift this chair by its armrests. They may come loose or break.
2. Lift this chair only by non-detachable parts of the main frame.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**C. CUSHIONS & SLING SEATS****⚠ WARNING**

1. Quickie sling seats and standard foam cushions are not designed for the relief of pressure.
2. If you suffer from pressure sores, or if you are at risk that they will occur, you may need a special seat system or a device to control your posture. Consult your doctor, nurse or therapist to find out if you need such a device for your well-being.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**D. FASTENERS****⚠ WARNING**

Many of the screws, bolts and nuts on this chair are special high-strength fasteners. Use of improper fasteners may cause your chair to fail.

1. ONLY use fasteners provided by an authorized supplier (or ones of the same type and strength, as indicated by the markings on the heads).
2. Over- or under-tightened fasteners may fail or cause damage to chair parts.
3. If bolts or screws become loose, tighten them as soon as you can. If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**E. FOOTRESTS****⚠ WARNING**

1. At the lowest point, footrests should be AT LEAST .5" off the ground. If set too LOW, they may “hang up” on obstacles you can expect to find in normal use. This may cause the chair to stop suddenly and tip forward.
2. To Avoid A Trip Or Fall When You Transfer:
  - a. Make sure your feet do not “hang up” or get caught in the space between the footrests.
  - b. Avoid putting weight on the footrests, as the chair may tip forward.
3. NEVER lift this chair by the footrests. Footrests detach and will not bear the weight of this chair. Lift this chair only by non-detachable parts of the main frame.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**F. PNEUMATIC TIRES****⚠ WARNING**

Proper inflation extends the life of your tires and makes your chair easier to use.

1. Do not use this chair if any of the tires is under- or over-inflated. Check weekly for proper inflation level, as listed on the tire sidewall.
2. Low pressure in a rear tire may cause the wheel lock on that side to slip and allow the wheel to turn when you do not expect it.
3. Low pressure in any of the tires may cause the chair to veer to one side and result in a loss of control.
4. Over-inflated tires may burst.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**G. POSITIONING BELTS (OPTIONAL)****⚠ WARNING**

Use positioning belts ONLY to help support the rider's posture. Improper use of these belts may cause severe injury to or death of the rider.

1. Make sure the rider does not slide down in the wheelchair seat. If this occurs, the rider may suffer chest compression or suffocate due to pressure from the belts.
2. The belts must be snug, but must not be so tight that they interfere with breathing. You should be able to slide your open hand, flat, between the belt and the rider.
3. A pelvic wedge or a similar device can help keep the rider from sliding down in the seat. Consult with the rider's doctor, nurse or therapist to find out if the rider needs such a device.
4. Use positioning belts only with a rider who can cooperate. Make sure the rider can easily remove the belts in an emergency.
5. NEVER Use Positioning Belts:
  - a. As a patient restraint. A restraint requires a doctor's order.
  - b. On a rider who is comatose or agitated.
  - c. As a motor vehicle restraint. In an accident or sudden stop the rider may be thrown from the chair. Wheelchair seat belts will not prevent this, and further injury may result from the belts or straps.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**H. POWER DRIVE****⚠ WARNING**

Do not install a power drive on any Quickie wheelchair. If you do:

1. It will affect the center of balance of your chair and may cause a fall or tip-over.
2. It will alter the frame and void the warranty.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**I. PUSH HANDLES (OPTIONAL)****⚠ WARNING**

When you have a attendant, make sure that this chair has push handles.

1. Push handles provide secure points for an attendant to hold the rear of this chair, to prevent a fall or tip-over. Make sure to use push handles when you have an attendant.
2. Check to make sure push handle grips will not rotate or slip off.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**J. QUICK-RELEASE AXLES****⚠ WARNING**

1. Do not use this chair UNLESS you are sure that both quick-release rear axles are locked. An unlocked axle may come off during use and cause a fall.
2. An axle is not locked until the quick-release button pops out fully. An unlocked axle may come off during use, resulting in a fall, tip-over or loss of control and cause severe injury to the rider or others.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**K. REAR WHEELS****⚠ WARNING**

A change in set-up of the rear wheels will affect the center of balance of your chair.

1. The farther you move the rear axles FORWARD, the more likely it is that your chair will tip over backward.
2. Consult your doctor, nurse or therapist to find the best rear axle set-up for your chair. Do not change the set-up UNLESS you are sure you are not at risk to tip over.
3. Adjust the rear wheel locks after you make any change to the rear axles.
  - a. If you fail to do so, the locks may not work.
  - b. Make sure lock arms embed in tires at least 1/8 inch when locked.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**L. REAR WHEEL LOCKS****⚠ WARNING**

Rear wheel locks are NOT designed to slow or stop a moving wheelchair. Use the only to keep the rear wheels from rolling when your chair is at a complete stop.

1. NEVER use rear wheel locks to try to slow or stop your chair when it is moving. Doing so may cause you to veer out of control.
2. To keep the rear wheels from rolling, always set both rear wheel locks when you transfer to or from your chair.
3. Low pressure in a rear tire may cause the wheel lock on that side to slip and may allow the wheel to turn when you do not expect it.
4. Make sure lock arms embed in tires at least 1/8 inch when locked. If you fail to do so, the locks may not work.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**M. MODIFIED SEAT SYSTEMS****⚠ WARNING**

Use of a seat system not approved by Sunrise may alter the center of balance of this chair. This may cause the chair to tip over.

1. Do not change the seat system of your chair UNLESS you consult your authorized supplier first.
2. Use of a seat system not approved by Sunrise may affect the folding mechanism of this chair.
3. Use of a seating system not provided by Sunrise is prohibited for transit use.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**N. UPHOLSTERY FABRIC****⚠ WARNING**

1. Replace worn or torn fabric of seat and seat back as soon as you can. If you fail to do so, the seat may fail.
2. Sling fabric will weaken with age and use. Look for fraying or thin spots, or stretching of fabrics at rivet holes.
3. "Dropping down" into your chair will weaken fabric and result in the need to inspect and replace the seat more often.
4. Be aware that laundering or excess moisture will reduce flame retardation of the fabric.

If you fail to heed these warnings damage to your chair, a fall, tip-over or loss of control may occur and cause severe injury to the rider or others.

**A. TO MOUNT & REMOVE REAR WHEELS (OPTIONAL)****⚠ WARNING**

**Do not use this chair UNLESS you are sure both quick-release axles are locked. An unlocked axle may come off during use and cause a fall.**

**NOTE**– The axle is not locked until the quick-release button pops out fully (Fig. A). Check that the axle is locked by pulling on the wheel in the direction of the axle.

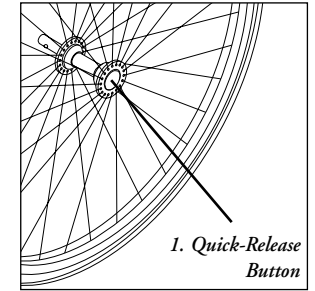


Figure A

**1. To Install Wheel:**

- a. Depress quick-release button (1) fully. This will release tension on ball bearings at other end.
- b. Insert axle through hub of rear wheel.
- c. Keep pressure on button (1) as you slide axle (2) into axle sleeve (3).
- d. Release button to lock axle in sleeve. Adjust axle if it does not lock. See Section H-5.
- e. Repeat steps on other side.

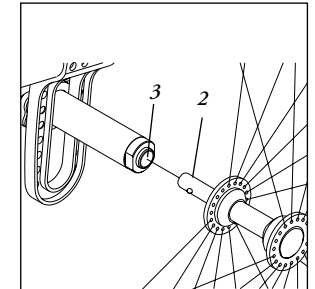


Figure B

**2. To Remove Wheel:**

- a. Depress quick-release button (1) fully.
- b. Remove wheel by sliding axle (2) out of axle sleeve (3).
- c. Repeat steps on other side.

**NOTE**— Setting the wheelchair on a flat surface, such as a workbench or table, helps make these procedures easier.

**NOTE ON TORQUE SETTINGS**— A torque setting is the optimum tightening which should be made on a particular fastener. Use proper torque settings where specified.

### B. PADDED SWING-AWAY ARMRESTS (OPTIONAL)

Swing-away armrests can be detached or can be swung away to allow lateral transfers. They are height adjustable (2") by moving bolts (A) up or down in predrilled holes on armrest bracket.

Swing-away, removable armrests are installed by sliding armrest into receiver (B) on rear frame tubes.

### C. BACKREST INSTALLATION

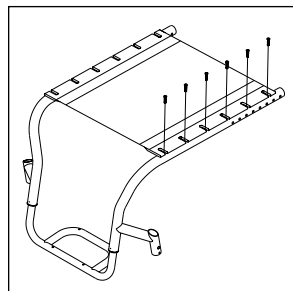
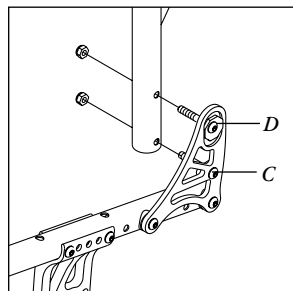
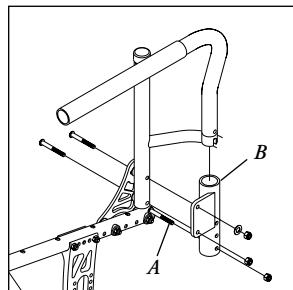
To install backrest, remove the nut, plastic saddle and bolt from the backrest tube. Place the backrest in the upright position and reinstall in the lower plate hole (C). Backrest bolts should be tightened to 35 in-lbs. Avoid over-tightening as you may crush the backrest tubing.

### D. BACK ANGLE ADJUSTMENT

Turn the eccentric bolt (D) on the backrest hinge plate to increase or decrease the back angle. The adjustment on each side must be exactly equal.

### E. SEAT SLING ADJUSTMENT

Remove the screws retaining the left side seat sling. Readjust VELCRO® -style material to increase the tension in the seat sling. Replace screws. If there is any difficulty in reattaching the screws, try using a probe to help line up the holes.



### F. ADJUSTING REAR SEAT HEIGHT

Prior to adjusting rear seat height, follow the instructions in Section H-4. To adjust rear seat height, loosen and remove the 8 cap screws (A) (4 per side) that secure the camber tube. Move the camber tube to the desired height and reinstall the 8 cap screws. Prior to tightening these screws, follow the instructions for toe-in and toe-out adjustment (Section H-3). Tighten screws to 88 in-lbs.

**NOTE**— Adjustment to rear seat height may also require caster angle adjustment. See Letter I.

### G. CUSHION (OPTIONAL) INSTALLATION

Place cushion on seat sling with VELCRO® side down. The beveled edge of the cushion should be in front. Press firmly into place.

### H. REAR AXLE

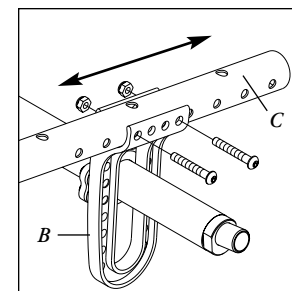
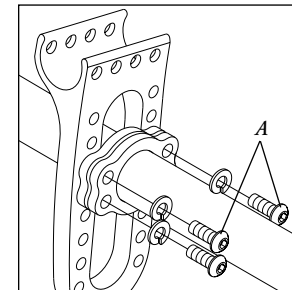
The most important adjustment on your Quickie wheelchair is the position of the rear axle. The center of gravity and wheel camber are determined by the axle adjustment.

#### 1. Center of Gravity Adjustment

You can adjust your center of gravity position by moving the two axle plates (B) forward or rearward on the seat tube (C). Moving the axle plates forward shortens the wheelbase and lightens the front end, making your chair more maneuverable. Moving the axle plates rearward makes the chair more stable and less likely to tip over rearward.

**NOTE**— Changes to the center of gravity may affect the rear seat height (Letter F), toe-in/toe-out of the rear wheels (Section H-3) and the squareness of the casters (Letter I). If you change your center of gravity position, re-adjust these if necessary.

Before adjusting your wheelchair's center of gravity, locate the additional saddles supplied with the chair. This hardware may be required depending on the overlap position of the axle plates and back plates.

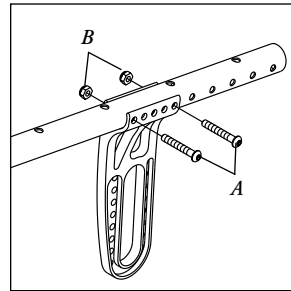


**⚠ WARNING**

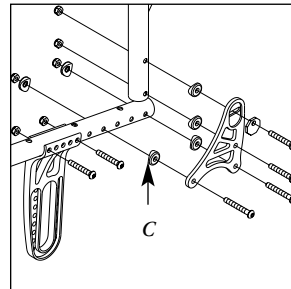
The more you move your rear wheels forward, the more likely your chair will tip over backwards. Always make adjustment in small increments, and check the stability of your chair with a spotter to prevent tip-over. We recommend that you use anti-tip tubes until you adapt to the change and are sure you are not at risk to tip over. Refer to additional Warnings in Section VI "Falls and Tip Over".

**NOTE**— Adjusting your chair's center of gravity will require re-adjusting the location of the wheel locks (if provided). See Letter K for instructions on adjusting the wheel locks.

To adjust the center of gravity location, remove both rear wheels. Remove the 4 bolts (A) and nuts (B) (2 per side) that secure the axle plates to the seat tubes. Note that for certain configurations, some of these bolts may also pass through the back plates. Remove any back plate bolts, nuts and saddles if they also pass through the axle plate, or if they obstruct the position to which you wish to move the axle plate. Slide both axle plates forward or rearward along the seat tube to the desired position, and align the holes in the seat tube and axle plate. The hole pattern allows for 1/2" (1.3 cm) increments of adjustment. Different sets of holes in the axle plates are used depending on the center of gravity position.



Reinstall the bolts securing the axle plates and back plates to the camber tube. Install with shorter or longer bolts and saddles from the additional hardware package, as required. Bolts should occupy the outermost available holes in the axle plate. Make certain that a saddle is always installed beneath the back plate and nut on the inside of the chair (C) when the axle plate and back plate do not overlap. If the edge of the axle plate overlaps the back plate and prevents installation of the standard saddle, then install a partial saddle supplied with the additional hardware package.



Once the axle and back plates are secured, attach the rear wheels, occupy the chair and maneuver it with a spotter to get a feel for the new adjustment.

**2. Wheel Camber**

The wheel camber adjustment provides greater side-to-side stability due to the increased width and angle of the wheelbase. The wheel camber adjustment also allows for quicker turning and greater access to the top of the handrims. (A)

Wheel camber is determined by the axle tube (B). Tubes are available from your authorized supplier in 0°, 2°, 4° and 8° angles.

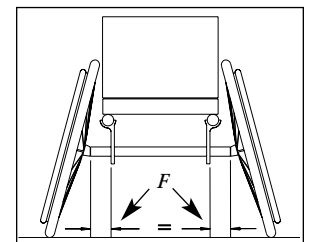
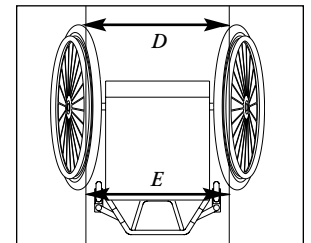
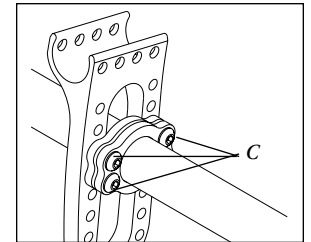
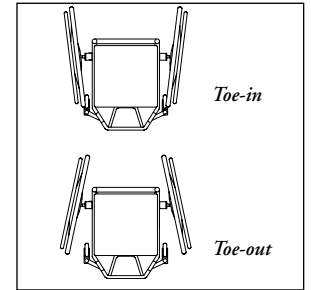
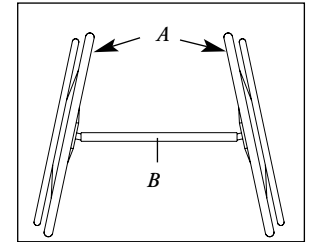
**3. Toe-in or toe-out**

Prior to adjusting for toe-in/out follow the instructions of section H-4.

Toe-in and Toe-out refers to how well the rear wheels of the chair are aligned. This will affect how well the chair will roll. Drag or resistance occurs when the wheels are not properly aligned. Remove the rear wheels and loosen the 8 cap screws (C) (4 per side) that secure the camber tube. Re-attach the rear wheels.

- Toe-in: To eliminate toe-in, rotate the top of the camber tube toward the rear of the chair.
- Toe-out: to eliminate toe-out, rotate the top of the camber tube toward the front of the chair.

A properly adjusted chair should have no toe-in or toe-out. Measure between the outer edge of the wheels on the leading (E) and trailing (D) sides of the tire. Rotate the camber tube as described above until the wheel-to-wheel distance is the same at the front and rear. Make certain that the camber tube is centered left to right by measuring the length of tube extending beyond the axle plate on both sides of the chair (F). When the tube is centered these lengths should be equal. Tighten the 8 cap screws. Tighten the screws concurrently to 88 in-lbs. Pre-check for toe-in/out and proper centering. Readjust if necessary.

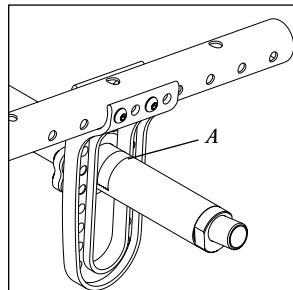




#### 4. Compensating for Seat Sling Tension

Before loosening any of the hardware that secures the camber tube (See Rear Seat Height Adjustment and Toe-in or Toe-out) follow the instructions below.

The tension in the seat sling will tend to pull the axle plates inward when the hardware securing the axle plates to the camber tube is loosened. To insure that the axle plates are returned to the correct position, mark the location of the axle plates on the camber tube by placing a small strip of tape on the camber tube next to the OUTSIDE edge of the axle plate. (A) Always return the axle plates to these positions on the camber tube when the chair is reassembled. During reassembly, begin with one side of the chair and align the axle plate with the tape. Tighten the hardware securing the axle plate to the camber tube on this side. Check for proper toe in/out adjustment according to Section H-3. Next spread the axle plates apart so that the axle plate on the opposite side is aligned with the tape, and tighten the associated hardware.

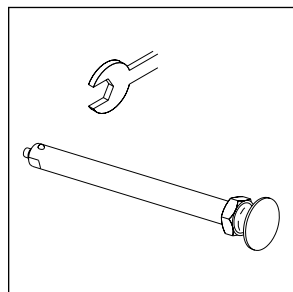


#### 5. Rear Wheel Axle Sleeve Adjustment

Tight axle sleeves should be maintained for proper performance of the wheelchair.

To adjust the axle you will need a 3/4" wrench to turn the outside axle nuts. You will also need a 1/2" wrench to secure the axle on the ball-lock end, and prevent the axle from turning.

Turn the outside axle nut counter clockwise to tighten. There should only be zero to ten thousandths of an inch (.010) of play.



#### I. CASTERS

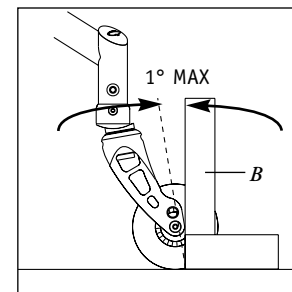
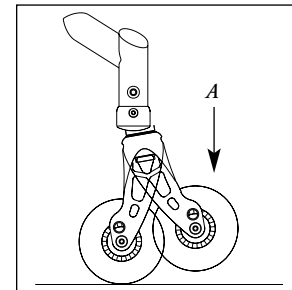
**NOTE**– Setting the wheelchair on a flat surface table or a workbench helps make these procedures easier.

**NOTE ON TORQUE SETTING**– A torque setting is the optimum tightening which should be made on a particular fastener. Use proper torque settings when specified.

##### 1. Adjusting Caster Angle

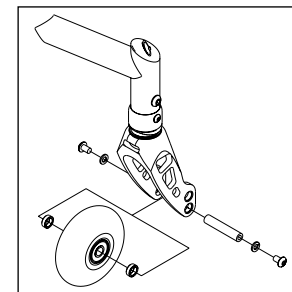
Checking for Caster Squareness:

Your Quickie Ti Titanium wheelchair leaves the factory with the casters adjusted square. Any time you change your wheelchair rear axle height (see Letter F), rear tire size, center of gravity position or camber tube, you should check that the casters are still square. A caster that is not square will result in the caster lifting off the floor as it rotates around the stem bolt (A). Check for squareness by placing your wheelchair on a flat, horizontal surface. Rotate both forks so that the casters are towards the rear of the wheelchair. Place a square or pocket level (B) against the flat surface on the rear of the fork and note whether this surface is vertical (square). If this surface is more than 1 degree away from vertical, your casters require re-squaring.

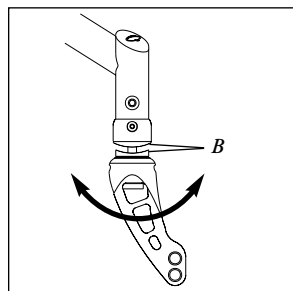
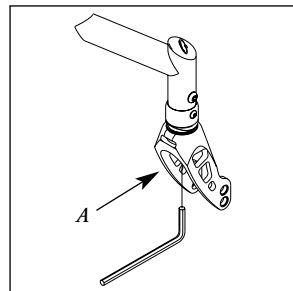


##### 2. Re-squaring Your Casters

To re-square your casters, you must first remove the right caster. (Note: Do not disassemble the left caster at this time.) Loosen and remove the axle using two T-25 Torx wrenches. Be certain to set aside the spacers for reassembly.



Loosen the stem bolt (A) on the right fork using an 8mm Allen wrench. Do not remove the stem bolt. Simply loosen it enough to allow the teeth on the upper and lower splines to clear one another (B). With the stem bolt loosened, the caster fork should pivot freely. Place the wheelchair on the floor so that the two rear wheels and left caster contact the floor. Place some weight in the seat towards the rear to help stabilize the chair. Place a square or pocket level against the flat surface of the fork and pivot the fork until it is vertical (square). With the fork vertical, engage the teeth of the two splines to the closest mating position. Make certain that the teeth are properly engaged and not crossed. Shine a bright light behind the mating spline teeth and check for proper teeth engagement. Tighten the stem bolt to secure the spline mating position. The stem bolt should be tightened to 20 ft-lbs to ensure that it does not loosen during use.

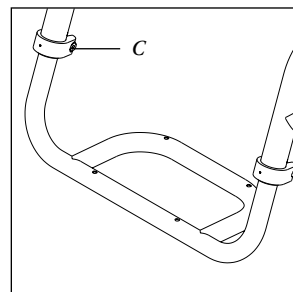


Record the teeth engagement position of the splines on the right fork, and adjust the left fork in a similar fashion to the same position. Reassemble both casters, and re-check that they are square.

#### J. FOOTREST HEIGHT ADJUSTMENT

**NOTE**– Use a torque setting of 100 in.-lbs. when adjusting footrest height.

To adjust the height of your footrest, loosen the two cap screws (C) on the footrest clamps. Slide the footrest up or down to the new desired height and tighten the two cap screws. Use a torque setting of 100 in.-lbs (11.3 N-m). It is recommended that you maintain a minimum of 2.0 inches (5 cm) between the lowest point on the footrest and the floor. This will provide adequate clearance for uneven surfaces and prevent damage to your footrest.



#### K. WHEEL LOCKS

**NOTE**– Use a torque setting of 100 in.-lbs when setting-up wheel locks.

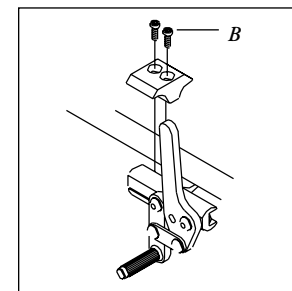
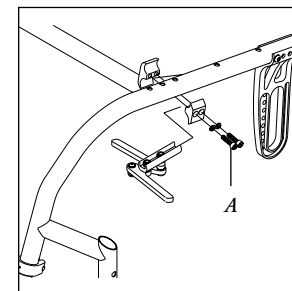
##### 1. High-Mount Scissor Wheel Locks:

Loosen the screws (A) on the top of each clamp using a 3/16 Allen wrench. Slide assembly toward rear wheel until clamp embeds into tire to prevent wheel movement when in locked position. Adjust angle position. Tighten screws.

**NOTE**– Clamp and wheel lock may need to be rotated to clear frame tubing.

##### 2. High-Mount Push-to-Lock or Pull-to-Lock Wheel Locks

Loosen the screws (B) on the top of each clamp using a 3/16" Allen wrench. Slide clamp toward the rear wheel until the wheel lock is embedded into the tire to prevent wheel movement, when in the locked position. Adjust angle position. Tighten screws.



#### L. ANTI-TIP TUBES (OPTIONAL)

Sunrise Medical recommends anti-tip tubes for all wheelchairs. **Use torque setting of 88 in.-lbs. when installing anti-tip tubes.**

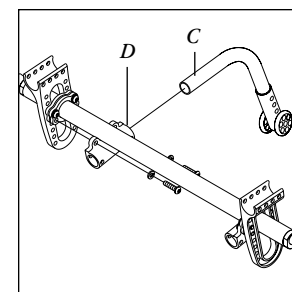
##### 1. Inserting Anti-tip Tubes Into Receiver

- Press the rear anti-tip release lever on the anti-tip tube so that both release pins are drawn inside.
- Insert the anti-tip tube (C) into the anti-tip receiver (D).
- Turn the anti-tip tube down until release pin is through the receiver mounting hole.
- Insert second anti-tip tube the same way.

##### 2. Adjusting Anti-Tip Tube Wheel

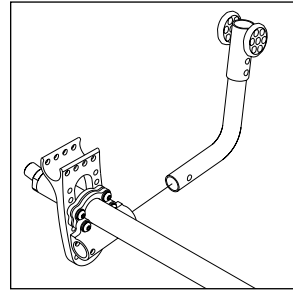
The anti-tip wheels may have to be raised or lowered to achieve proper clearance of 1 1/2" to 2".

Press the anti-tip wheel release button so that both release pins are drawn inside. Raise or lower to one of the three predrilled holes. Release button. Adjust the second anti-tip tube wheel the same way. Both wheels should be exactly the same height.



**3. Turning Anti-Tip Tubes Up**

Turn anti-tip tubes up when being pushed by attendant, overcoming obstacles or climbing curbs. Press the rear anti-tip tube release lever. Hold lever in and turn anti-tip tube up. Release the lever and repeat with second anti-tip tube. Remember to return anti-tip tubes to down position after completing maneuver.



**M. CHECK-OUT**

After the wheelchair is assembled and adjusted, it should roll smoothly and easily. All accessories should also perform smoothly. If you have any problems, follow these procedures:

- a. Review assembly and adjustment sections to make sure chair was properly prepared.
- b. Review trouble shooting guide.
- c. If your problem persists, contact your authorized supplier. If you still have a problem after contacting your authorized supplier, contact Sunrise customer service. See the introduction page for details on how to contact your authorized supplier or Sunrise customer service.

You will need to adjust your chair from time to time for best performance (especially if you alter the original settings). This chart gives you a first solution, then a second and a third if needed. You may need to look farther to find the best solution for a specific problem.

**NOTE-** To keep track of your progress, make only ONE change at a time.

SYMPTOMS						SOLUTIONS
Left turn in chair	Right turn in chair	Looseness in chair	Sluggish turning	Squeaks and rattles	Caster flutter	
✓	✓	✓	✓			Make sure tire pressure is correct and equal in both rear tires and front caster tires, if pneumatic.
		✓	✓	✓	✓	Make sure all nuts and bolts are snug.
		✓		✓		Make sure all spokes and nipples are tight on radial spoke wheels.
				✓		Use Tri-Flow Lubricant (Teflon®-based) between all modular frame connections and parts.
✓	✓		✓		✓	Check for proper caster housing adjustment. See instructions for caster adjustment.
			✓			Check for proper toe-in/out adjustment. See instructions for proper adjustment.

**A. INTRODUCTION**

1. Proper maintenance will improve performance and extend the useful life of your chair.
2. Clean your chair regularly. This will help you find loose or worn parts and make your chair easier to use.
3. Repair or replace loose, worn, bent or damaged parts **before using this chair**.
4. To protect your investment, have all major maintenance and repair work done by your authorized supplier.

**⚠ WARNING**

**If you fail to heed these warnings your chair may fail and cause severe injury to the rider or others.**

1. Inspect and maintain this chair strictly per chart.
2. If you detect a problem, make sure to service or repair the chair before use.
3. At least once a year, have a complete inspection, safety check and service of your chair made by an authorized supplier.

**B. MAINTENANCE CHART**

	Weekly	3 Months	6 Months	Annually	CHECK...
✓					Tire inflation level
✓					Wheel locks
	✓				All fasteners for wear and tightness
		✓			Armrests
		✓			Axle and axle sleeves
	✓				Quick-release axles
	✓				Wheels, tires and spokes
	✓				Casters
	✓				Anti-tip tubes
		✓			Frame
	✓				Upholstery
			✓		<b>Service by Authorized Supplier</b>

**C. MAINTENANCE TIPS****1. Axles & Axle Sleeves**

Check axles and axle sleeves every six months to make sure they are tight. Loose sleeves will damage the camber tube and will affect performance.

**2. Tire Air Pressure**

Check air pressure in pneumatic tires at least ONCE A WEEK. The wheel locks will not grip properly if you fail to maintain the air pressure shown on tire sidewall.

**D. CLEANING****1. Bead Finish**

To remove scuffs and scratches, use ScotchBrite® pad to buff lightly.

**2. Axles and Moving Parts**

- a. Clean around axles and moving parts WEEKLY with a slightly damp (not wet) cloth.
- b. Wipe off or blow away any fluff, dust, or dirt on axles or moving parts.

**NOTE-** You do not need to grease or oil the chair.

**3. Upholstery**

- a. Hand-wash (machine washing may damage fabric).
- b. Drip-dry only. DO NOT machine dry as heat will damage fabric.

**E. STORAGE TIPS**

1. Store your chair in a clean, dry area. If you fail to do so, parts may rust or corrode.
2. Before using your chair, make sure it is in proper working order. Inspect and service all items on the "Maintenance Chart" (Letter B).
3. If stored for more than three months, have your chair inspected by an authorized supplier before use.

**A. FOR LIFETIME**

Sunrise warrants the frame and quick-release axles of this wheelchair against defects in materials and workmanship for the life of the original purchaser.

The expected life of this frame is five years.

**B. FOR TWO (2) YEARS**

We warrant all Sunrise-made parts and components of this wheelchair against defects in materials and workmanship for two years from the date of first consumer purchase.

**C. LIMITATIONS**

1. We do not warrant:
  - a. Tires and tubes, upholstery, armrests and push-handle grips.
  - b. Damage from neglect, misuse, or from improper installation or repair.
  - c. Damage from exceeding weight limit of 250 pounds.
2. This warranty is VOID if the original chair serial number tag is removed or altered.
3. This warranty applies in the USA only. Check with your supplier to find out if international warranties apply.

**D. WHAT WE WILL DO**

Our sole liability is to repair or replace covered parts. This is the exclusive remedy for consequential damages.

**E. WHAT YOU MUST DO**

1. Obtain from us, while this warranty is in effect, prior approval for return or repair of covered parts.
2. Return the wheelchair or part(s), freight pre-paid, to Sunrise Mobility Products Division at: 2842 Business Park Avenue, Fresno, CA 93727-1328.
3. Pay the cost of labor to repair, remove or install parts.

**F. NOTICE TO CONSUMER**

1. If allowed by law, this warranty is in place of any other warranty (written or oral, express or implied, including a warranty of merchantability, or fitness for a particular purpose).
2. This warranty gives you certain legal rights. You may also have other rights that vary from state to state.

Record your serial number here for future reference:

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**Sunrise Medical**  
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Longmont, Colorado 80503 USA  
303-218-4600  
(800) 333-4000  
In Canada (800) 263-3390