Quickie[®] 2 Lite

Owner's Manual

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.







Improving People's Lives

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 Sunrise 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, Colorado 80503 (303) 218-4500 or (800) 333-4000

Be sure to return your warranty card, and let us know if you change 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. If you lose your warranty card, call or write and we will gladly send you a new one.

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:	
Telephone:	
Serial #:	Date/Purchased:

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III. YOUR CHAIR AND ITS PARTS



- I. Backrest Tube
- 2. Backrest
- 3. Pneumatic Tire
- 4. Aluminum Handrim
- 5. Aluminum Wheel Rim
- 6. Spokes
- 7. Rear Wheel Hub
- 8. Quick-Release Axle
- 9. Swing-Away Latch Release
- 10. Caster Housing Cap
- 11. Caster Housing
- 12. Seat Sling
- 13. X-Hinge (not shown- under seat)
- 14. Swing-In / Swing-Out Legrest
- 15. Caster Fork
- 16. Caster Tire
- 17. Flip-Up Footrest with Heel Loops
- 18. Anti-tip tube
- 19. Padded Swing-Away Armrest
- 20. Fixed Front

FIXED FRONT

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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:

- I. 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 four main sections, as follows:

I. 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.

V. GENERAL WARNINGS

A. WEIGHT LIMIT

NEVER exceed the weight limit of 265 pounds (120 kg) for the Quickie 2 Lite 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 265 pounds(120 kg) for Quickie 2 Lite. 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

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

- BEFORE riding, you should be trained in the safe use of this chair by your health care advisor.
- 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.
- Be aware that you must develop your own methods for safe use best suited to your level of function and ability.
- NEVER try a new maneuver on your own until you are sure you can do it safely.
- 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

Before Each Use Of Your Chair:

- Make sure the chair rolls easily and that all parts work smoothly. Check for noise, vibration, or a change in ease of use. (This may indicate low tire pressure, loose fasteners, or damage to your chair).
- 2. Immediately repair any problem. Your authorized supplier can help you find and correct the problem.
- 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.

V.

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

- If you modify or adjust this chair, it may increase the risk of a tipover.
- 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.
- 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

- 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.
 - 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.
 - Avoid excess moisture (for example, do not leave your chair in a damp bathroom while taking a shower).
 - 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

A WARNING

- Your chair is designed for use on firm, even surfaces such as concrete,asphalt and indoor floors and carpeting.
- 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.

- At night, or when lighting is poor, use reflective tape on your chair and clothing.
- 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

Identify whether your chair has been manufactured with the Transit Option installed.

WARNING

If your chair is NOT equipped with the Transit Option:

- 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.
- 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.
- 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.

If your chair is equipped with the Transit Option: See section VIII. Warnings: Components and Options, Parts H. Transit Use and I. Transit Option.

K. WHEN YOU NEED HELP

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.
- 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.
- 8. 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.

A. CENTER OF BALANCE

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.

- The Most Important Adjustment Is: 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

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:
- 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.

- 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 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

A 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:

- Keep a lookout for danger scan the area well ahead of your chair as you ride.
- 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

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.

- 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).
- 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.

F. MOVING BACKWARD

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.

- I. 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 & SIDEHILLS

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

- 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.
- 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.
 - 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 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 sidehill.
 - 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

A 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:

- I. 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.
- 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.
- 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 & STEPS

A WARNING

- Each person who helps you should read and follow the warnings "For Safe Use" (Section VII).
- 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.
- Unlock and rotate anti-tip tubes up, out of the way, so they do not interfere.
- 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

- NEVER use this chair on stairs UNLESS you have someone to help you. Doing so is likely to cause a fall or tip-over.
- Persons who help you should read and follow the warnings "For Attendants" (Section V., Part K) and "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

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

Before you assist a rider, be sure to read the warnings "For Attendants" 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"

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

- I. Read and follow the warnings for "WHEELIES."
- 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.)
- 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

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

- I. Stay at the rear of the chair.
- 2. Several feet before your 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.
- 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.
- 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

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

- I. 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.
- 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

AWARNING

- I. 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

A WARNING

- I. 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

- Inspect and maintain this chair strictly per Maintenance Chart in Section XII.
- 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 or death to the rider or others. For additional maintenance information see Section XII: Maintenance.

VIII. WARNINGS: COMPONENTS AND OPTIONS

A. ANTI-TIP TUBES (OPTIONAL)

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

- I. 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.
- 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.
 - If set too LOW, they may "hang up" on obstacles you may encounter 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

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. CASTER PIN LOCKS

WARNING

Always use both pin locks when transferring in and out of the chair.

Caster pin locks only keep the front caster wheels from changing direction, they do not lock-out the front wheels from rotation. To prevent the wheelchair from rolling, you must engage the rear wheel locks.

If you propel your wheelchair with the caster pin locks engaged, the chair will be prevented from turning.

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. CUSHIONS & SLING SEATS

A WARNING

1. Quickie sling seats and standard foam cushions are not designed for the relief

of pressure.

 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. Seat slings are not intended to be used as a direct seating surface. A cushion or other seating surface should be placed on the sling before 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.

E. FASTENERS

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.

- ONLY use fasteners provided by an authorized supplier (or ones of the same type and strength, as indicated by the markings on the heads).
- 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.

F. FOOTRESTS

- At the lowest point, footrests should be AT LEAST 2 inches 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.
- 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.

G. PNEUMATIC TIRES

AWARNING

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

- Do not use this chair if any of the tires are 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.

H. TRANSIT USE

- If possible and feasible, the rider should transfer to the Original Equipment Manufacturer vehicle seat and use the vehicle restraint.
- If the wheelchair is used for transport, it must be used in a forwardfacing seating position.
- 3. The rider must not weight more than 265 lbs.
- The figures to the right show the locations of the wheelchair securement points.
- Use only with Wheelchair Tiedown and Occupant Restraint Systems (WTORS) that have been installed in accordance with the manufacturer's instructions and SAE J2249.
- Attach WTORS to securement points in accordance with the manufacturer's instructions and SAE J2249.
- Attach occupant restraints in accordance with the manufacturer's instructions and SAE J2249.
- NOTE– To obtain a copy of SAE J2249 Wheelchair Tiedown and Occupant Restraint Systems for Use in Motor Vehicles, please contact: SAE International, 400 Commonwealth Drive, Warrendale, PA 15096, Phone: (412) 776-4970.

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. TRANSIT OPTION

- Use only Wheelchair Tiedown and Occupant Restraint Systems (WTORS) which meet the requirements of SAE J2249 Recommended Practice - Wheelchair Tiedown and Occupant Restraint Systems For Use in Motor Vehicles. Do not use WTORS designed to rely on the wheelchair structure to transfer occupant restraint loads to the vehicle.
- The wheelchair has been dynamically tested in a forward-facing mode for a 48 km/h frontal impact test. The wheelchair must be forward-facing during transport.
- In order to reduce the potential of injury to vehicle occupants, wheelchair-mounted accessories, such as trays and respiratory equipment, should be removed and secured separately.
- Postural supports and positioning devices should not be relied on for occupant restraint.

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. POSITIONING BELTS (OPTIONAL)

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.

- 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.
- 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.





point

- 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.

K. PUSH HANDLES (OPTIONAL)

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

 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.

L. QUICK-RELEASE AXLES

WARNING

- 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.
 - Quick-Release Axles should be inspected for function and any signs of wear or bending. Replace as necessary.
 - Routinely Inspect. Replace if worn or bent.

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. REAR WHEELS

AWARNING

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.
- 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.
- 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.

N. REAR WHEEL LOCKS

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

- 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.

O. MODIFIED SEAT SYSTEMS

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.

- 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.

P. UPHOLSTERY FABRIC

WARNING

- Replace worn or torn fabric of seat and seat back as soon as you can. If you fail to do so, the seat or seat back may fail.
- Sling fabric will weaken with age and use. Look for fraying, thin spots, or stretching of fabrics especially at edges and seams.
- 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.

NOTE ON TORQUE SETTINGS: A torque setting is the optimum tightening which should be made on a particular fastener. It is important to use proper torque settings where specified.

A. TO MOUNT & REMOVE REAR WHEELS 1 2

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

I. To Install Wheel

- a. Depress quick-release button (A) fully. This will release tension on ball bearings at other end.
- b. Insert axle (B) through hub of rear wheel.
- c. Keep button (A) depressed as you slide axle (B) into axle sleeve (C).
- d. Release button to lock axle in axle sleeve. Adjust axle if it does not lock. See Section B.
- e. Repeat steps on other side.
- NOTE- The axle is not locked until the quick-release button pops out fully (A). Check that the axle is locked by pulling on the wheel in the direction of the axle.

2. To Remove Wheel

- a. Depress quick-release button (A) fully.
- b. Remove wheel by sliding axle (B) completely out of axle sleeve (C).
- c. Repeat steps on other side.

B. REAR WHEEL AXLE NUT ADJUSTMENT 3 4

The rear wheel axle (B) attaches the rear wheel (D) to the axle sleeve (C). When the detent balls (E) engage into the camber plug the rear wheel effectively becomes locked onto the chair. Pushing the quick-release button (A) disengages the detent balls and allows removal of the axle and wheel assembly.

To adjust the axle you will need a $3/4^{"}$ wrench to turn the adjustment nut (F). You will also need a $1/2^{"}$ wrench to securely hold the ball detent end of the axle to prevent it from turning.

If the wheel and axle will not lock into the axle sleeve then the axle requires adjustment. Turn the nut counter-clockwise approximately 1/4 revolution and try to lock the axle into the camber plug. If it doesn't lock, continue making small nut adjustments until it securely locks.

If the wheel is locked on the chair but there is excessive wheel play (the wheel hub can be pushed back and forth on the axle) then adjust the nut clockwise until there is no perceptible gap between the wheel and camber tube and the axle is securely locked onto the chair.

CAUTION– Quick-release button (A) must be flush with the edge of the wheel hub for detent balls (E) to be engaged.

C. PADDED SWING-AWAY ARMRESTS (OPTIONAL) 5

Swing-away armrests can be detached or can swing away to allow lateral transfers. They are height adjustable (1" increments) by moving bolt (G) up or down in predrilled holes on armrest bracket.

Additional height can be achieved by removing bolts (I), flipping and rotating the hardware to opposite (J). Ensure bolts (I) are retighten.

Swing-away, removable armrests are installed by sliding armrest into receiver (H) on back frame.

I. Installation

Slide armrest into receiver tube on rear of frame.

2. Swinging Away

Lift armrest out of locked position and rotate to the side.

3. Removing Armrest

Pull armrest straight out of receiver.









IX. SET-UP, ADJUSTMENT & USE

D. HEIGHT-ADJUSTABLE ARMRESTS (OPTIONAL) 6 6a

I. Installation

- a. Slide the outer armpost into the receiver mounted to the wheelchair frame.
- b. The armrest will automatically lock into place.

2. Height Adjustment

- a. Rotate release lever to second stop.
- b. Slide armrest pad up or down to desired height.
- c. Return lever to locked position against armpost.
- d. Push arm pad until upper armpost locks firmly into place.

3. Removing Armrest

a. Rotate release lever to first stop and remove the armrest.

4. Replacing Armrest

- a. Slide armrest back into receiver.
- b. Return release lever to locked position against armpost.

5. Adjusting Armrest Receiver Fit

To tighten or loosen the fit of the outer armpost in the receiver:

- a. Loosen the bolts on the sides of the receiver.
- b. With the armrest in the receiver, squeeze the receiver to achieve the desired fit.
- c. Tighten the four bolts.

E. SWING-IN/SWING-OUT HANGERS AND FOOTRESTS (70°, 80°)

I. Installation 7

- a. Place swing-in/swing-out pivot saddle into the receiver on front frame tube with the footrest facing outward from the frame. (7 A)
- b. Rotate the footrest inward until it locks into place on locking bolt. (7 B)

2. Removal

- a. To remove footrest, push release latch toward the frame.
- b. Rotate footrest inward and lift. Or, pull footrest away from frame and rotate outward.

3. Height Adjustment 8

NOTE- It is recommended that you maintain a minimum of 2.0 inches between the lowest point on the footrest and the floor.

- a. Loosen set screw (C) using a 3/16 inch hex key.
- b. Slide footrest extension up or down inside frame tube to desired height.
- c. Tighten set screw. Use a torque setting of 144 in-lbs (16.27 Nm).

F. FIXED FRONT FOOTREST HEIGHT ADJUSTMENT

Using a 3/16 inch hex key, loosen the screw (D) on both sides of the footrest. Slide the footrest up or down to the new desired height and tighten the two screws back into place. Use a torque setting of 144 in-lbs (16.27 Nm). It is recommended that you maintain a minimum of 2.0 inches between the lowest point on the footrest and the floor. Additionally, both sides of the footplate should be of equal height. This will provide adequate clearance for uneven surfaces and prevent damage to your footrest.

NOTE- Footrest must be in locked position before riding in wheelchair.





- 8. Clamp
- 9. Receiver adjustment hardware







G. ANGLE ADJUSTABLE FOOTPLATES

I. Composite Angle Adjustable Footplates 10

- a. Remove bolt (A)
- b. Pull footplate section (B) away from extension.
- c. Reposition footplate back onto extension in new angular position. Use premarked extension coupling (C) as guide.

2. Aluminum Angle Adjustable Footplate II

- a. Loosen bolts (D).
- b. Adjust footplate (E) to desired angular position.
- c. Re-tighten bolt (D).

H. BACKREST 12

I. Height Adjustment

- a. Remove the backrest upholstery from the frame.
- b. You will see the backrest tube which telescopes into the frame and is secured by a screw (F) on the side of the frame.
- c. There are holes I inch apart that you may choose from to set the back height.
- d. Remove the two backrest bolts from the rear frame tubes.
- e. After selecting the proper height, insert bolt through frame and backrest tube.
- f. Slide the backrest upholstery back over both backrest tubes.

I. ANGLE ADJUSTABLE BACKREST (OPTIONAL)

I. Angle Adjustment 13

- a. Loosen button head screws (G) until the eccentric offset washer (H) moves freely.
- b. Adjust backrest to desired angle, aligning eccentric offset washer in slot.
- c. Tighten button head screws.
- d. Repeat for opposite side.

2. Pivot Point Height Adjustment

- a. Remove button head screws (I) from the frame.
- b. Adjust backrest to obtain desired pivot point height.
- c. Replace and tighten button head screws.
- d. Repeat for opposite side.

3. Backrest Height Adjustment 15

- a. Remove button head screw (J).
- b. Adjust back tube to desired height.
- c. Replace and tighten button head screw.
- d. Repeat for opposite side.













J. SEAT SLING

The seat sling can be adjusted through the use of hook and loop material beneath the seat. Seat sling also includes a folding strap on the seat to assist in folding the chair. **I6 NOTE-** The seat sling folding strap is not intended as a carrying strap.

Adjustment 16

- a. Remove seat rail end caps at the front of the chair (A).
- b. Slide the seat sling, plastic retaining rods, and spacers (if present) from the channels in the seat rails.
- c. Readjust hook and loop material to obtain the desired tension in the seat sling.
- d. Reinsert the seat sling and plastic retaining rods into the channels in the seat rails.
- e. Replace the end caps.

K. CUSHION INSTALLATION (OPTIONAL)

- a. Place cushion on seat sling with hook material side down. The beveled edge of the cushion should be in front.
- b. Press firmly into place.

L. REAR AXLES

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

Use a torque setting of 100 in.-lbs. when adjusting rear axle.

WARNING

The more you move your rear wheels forward, the more likely your chair will tip over backwards. Always make adjustments in small increments, and check the stability of your chair with a spotter to prevent a 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-Overs".

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

I. Center of Gravity 17

Moving the center of gravity to the front will lighten the force required to turn the chair. The further back the axle, the more stable the chair becomes.

- a. Remove four retaining bolts (B), nuts and camber spacers on axle plate (C).
- b. Move axle plate forward or rearward to desired position.
- c. Insert all four bolts and camber spacers back into place on frame. Tighten nuts.
- d. Repeat on opposite side of wheelchair.
- e. Axle plate and camber must be exactly the same on both sides of the wheelchair.

2. Wheel Camber 18

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.

More or less camber can be obtained by increasing or decreasing the number of camber spacers (D) located between the lower axle plate attachment (E) and frame (F).

3. Wheel Base Width Adjustment

Adjusting the wheelbase width allows the rider the option to move the wheels closer or further away from the hips. It also compensates for camber adjustment and gives the proper wheel spacing to maximize pushing efficiency.

Adjust the wheelbase width by: 19

- a. Loosen the nuts (G) and reposition the axle sleeve (H) to the desired width.
- b. Retighten nuts.







Adjustment with Anti Tip Hardware:

NOTE-Before adjusting wheel base estimate distance the rear wheels need to move in or outward.

- a. Remove outside nut.
- b. Remove anti tip receiver hardware with axle sleeve.
- c. Thread axle sleeve in or out as desired, ensuring that the final position leaves the flats of the axle sleeve parallel to the rear of the anti tip receiver.
- d. Insert anti tip receiver hardware with axle sleeve through desired hole of the axle plate from the inside of the wheelchair.
- e. Re-install and tighten outside nut.
- f. Repeat on opposite side of wheelchair.

4. Seat Height Adjustment ²⁰

Seat height can be adjusted by repositioning the axle sleeve (A) vertically in one of the predrilled holes in the axle plate. Switch axle plates left to right (and upside down) for $1/2^{"}$ adjustments.

NOTE- A front caster adjustment should be made to correspond with any change in seat height.

M. WHEEL LOCKS

The Quickie 2 Lite wheelchair is shipped with one of four types of wheel locks. Wheel locks are installed at the factory unless you have requested otherwise.

Use a torque setting of 144 in.-lbs. when setting up wheel locks.

1. High-Mount Push-to-Lock or Pull-to-Lock 21, Wheel Locks Adjustment

- a. Using a 3/16 inch hex key, turn one of the screws in the clamp counterclockwise one-quarter turn.
- b. Repeat the same process with the second of the two screws.
- c. Alternately loosen the screws (two turns each) until both screws are removed.
- d. Slide clamp toward the rear wheel until the wheel lock is embedded into the tire to prevent wheel movement, when in the locked position.
- e. Tighten screws to 144 in-lbs.

2. Ergo Scissor Wheel Locks 22 or Short Throw Scissor Wheel Locks

Loosen the screws (B) on the top of each clamp using a 3/16 inch hex key. Slide assembly toward rear wheel until clamp embeds into tire to prevent wheel movement when in locked position. Adjust angle position. Tighten screws to 144 in-lbs.

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

N. CASTERS

NOTE- Setting the wheelchair on a very flat table or a workbench makes this setting more accurate.

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.



Checking for Caster Squareness:

Your Quickie wheelchair leaves the factory with the casters adjusted square. Any time you change your wheelchair rear axle height, 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 $\boxed{23}$ and may also lift the front of the wheelchair up and down. 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 against the flat surface on the rear of the fork and note whether this surface is vertical (square) $\boxed{24}$. If this surface is more than 2 degrees away from vertical, your casters require re-squaring.











2. Re-squaring Your Casters 25 26

Gently pry cap (A) off of both caster tubes. Locate the set screw (B) inside the right caster tube and loosen using an 1/4 inch hex key. Do not remove the set screw. Simply loosen it enough to allow the teeth on the upper and lower splines (C) to clear one another. 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) $\boxed{24}$. 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 set screw (B) to secure the spline mating position. The set screw should be tightened to 192 in-lbs. (21.7 Nm) 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. Replace caps.

3. Fixed Front Frame Caster Housing Adjustment 27

To reposition the caster housing hardware for Quickie 2 Lite Fixed Front

- a. Remove cotter clip (D) from pin (E).
- b. Using a 7/16 wrench remove two caster housing bolts (F)
- c. Remove clivis pin (E).
- d. Reposition caster housing hardware onto frame lining up with preset holes.
- e. Insert clivis pin (E) , insert and retighten two caster housing bolts (F)
- f. Reinsert cotter clip (D)

A WARNING

After repositioning the caster housing always check for interference with footrest or rear wheel. Do not operate a wheelchair that has interference with these components. Ensure the caster fork is square (see section "N" for caster squaring instructions). Additionally, repositioning the caster housing will affect the wheelchair's stability. Check the stability of your wheelchair with a spotter to prevent a tip-over.

O. ANTI-TIP TUBES (OPTIONAL)

Quickie recommends anti-tip tubes for all wheelchairs.

Use a torque setting of 100 in.-lbs. when setting up the anti-tip tubes.

I. Inserting Anti-Tip Tubes Into Receiver 28

- a. Press the rear anti-tip release pin (G) on the anti-tip tube so that both release pins are drawn inside.
- b. Insert into the anti-tip tube receiver.
- c. Turn the anti-tip tube down until release pin is positioned through the receiver mounting hole (H).
- d. Insert second anti-tip tube the same way.

2. Adjusting Anti-Tip Tube Wheel 29

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

- a. Press the anti-tip wheel release pin (I) so that the release pin is drawn inside.
- b. Raise or lower to one of the three predrilled holes.
- c. Release pin.
- d. Adjust the second anti-tip tube wheel the same way. Both wheels should be at exactly the same height.

3. Turning Anti-Tip Tubes Up 30

Turn anti-tip tubes up when being pushed by attendant, overcoming obstacles or climbing curbs.

- a. Press the rear anti-tip tube release pin (J).
- b. Hold pin in and turn anti-tip tube up.
- c. Release pin.
- d. Repeat with second anti-tip tube.
- e. Remember to return anti-tip tubes to down position after completing maneuver.













P. PLASTIC SIDE GUARDS (OPTIONAL) 31

Installation of side guard hardware.

- a. Position outer receiver hardware (A) on frame.
- b. On corresponding inside of the frame position inner clamping hardware (B)
- c. Insert two bolts with washer and tighten using 3/16 inch hex key

Inserting and Removing of Side Guard

- a. Insert Side Guard (D) into Side Guard outer receiver hardware (A)
- b. Remove, clutch top of Side Guard and pull upward.
- **NOTE** After installing receiver hardware and inserting side guard check for interference. Don't operate the wheelchair that as interference with these other components.

Q. FOLDING AND UNFOLDING

I. Folding Chair

- a. Remove quick-release wheels (optional).
 - Depress quick-release button on the axle.
 - Remove wheel by sliding out quick-release axle from axle bracket.
 - Repeat with other wheel.
- b. For the Q2 Lite Swing Away model, flip up the footrest to a vertical position before folding the wheelchair.
- c. Grasp the seat sling (in the center) and lift sharply until the wheelchair is folded.

2. Unfolding Chair

- a. Replace quick-release wheel (optional) by depressing the quick-release button on the axle.
- b. Slide it into the axle sleeve until it locks.
- c. Repeat with other wheel.
- d. Tilt the wheelchair toward you far enough to take the weight off the opposite wheel.
- e. Push down on the seat rail (closest to you) until the wheelchair is completely opened.
- f. Make sure seat rail tubes are resting in the seat rail saddles.

NOTE- Ensure that footrest is locked prior to use.

R. 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:

- 1. Review the set-up and check-out sections and operating guide to make sure chair was properly prepared.
- 2. Review troubleshooting guide.
- 3. 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.



Symptom	Left turn in chair	Right Turn in chair	Looseness in chair	Sluggish turning	Squeaks and rattles	Caster flutter	Solution
	1	1	1	1			Make sure tire pressure is correct and equal in both rear tires and front caster tires, if pneumatic.
			1	1	1	1	Make sure all nuts and bolts are snug.
			1		1		Make sure all spokes and nipples are tight on radial spoke wheels.
					1		Use Tri-Flow Lubricant (Teflon®-based) between all modular frame connections and parts.
	1	1		1		1	Check for proper caster fork adjustment. See instructions for caster fork adjustment.

A. INTRODUCTION

- I. 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.

- I. Inspect and maintain this chair strictly per maintenance 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
1				Tire inflation level
1				Wheel locks
	1			All fasteners for wear and tightness
		1		Armrests
		1		Axle and axle sleeves
	1			Quick-release axles
	1			Wheels, tires and spokes
	1			Casters
	1			Anti-tip tubes
		1		Frame and crossbrace
	1			Upholstery
			1	Service by Authorized Supplier

C. MAINTENANCE TIPS

I. Axles & Axle Sleeves:

Check axles and axle sleeves every six months to make sure they are tight. Loose sleeves will damage the axle plate 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

I. Paint Finish

- a. Clean the painted surfaces with mild soap at least once a month.
- b. Protect the paint with a coat of non-abrasive auto wax every three months.

2. Axles and Moving Parts

- a. Clean around axles and moving parts WEEKLY with a slightly damp (not wet) cloth.
- Wipe off or blow away any fluff, dust or dirt on axles or moving b. 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".
- 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 cross brace if applicable 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 ONE (I) YEAR

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

C. LIMITATIONS

- I. We do not warrant:
 - a. Tires and tubes, upholstery, pads and push-handle grips.
 - b. Damage from neglect, accident, misuse, or from improper installation or repair.
 - c. Products modified without Sunrise Medicals express written consent.
 - d. Damage from exceeding the weight limit.
- 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.
- This warranty is not transferable and only applies to the first consumer purchase of this wheelchair through an authorized Sunrise Medical dealer.

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

- Obtain from us, while this warranty is in effect, prior approval for return or repair of covered parts.
- 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

- 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:

Sunrise Medical Inc. 7477 East Dry Creek Parkway Longmont, Colorado 80503 USA (800) 333-4000 In Canada (800) 263-3390 www.sunrisemedical.com



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