I. INTRODUCTION

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 HOME HEALTHCARE GROUP
MOBILITY PRODUCTS DIVISION
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, and 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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A. CHOOSE THE RIGHT CHAIR & SAFETY OPTIONS
Sunrise provides a choice of many power wheelchair styles, sizes and adjustments to meet the needs of the rider. However, final selection of a wheelchair rests solely with you and your health care professional. Choosing the best chair for you depends on such things as:
1. Your size, disability, strength, balance and coordination.
2. Your intended use, and your level of activity.
3. The types of hazards you must overcome in daily use (in areas where you are likely to use your chair).
4. The need for options for your safety and comfort (such as positioning belts or special seat systems).

B. ADJUST CHAIR TO YOUR ABILITY
You need to work with your doctor, nurse or therapist, and your supplier, to fit this chair and adjust the controller settings for your level of function and ability level.

C. 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.

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

1. V — EMI
Here you will learn about electromagnetic interference and how it can affect your chair.

2. VI — 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.

3. VII — WARNINGS — COMPONENTS & OPTIONS
Here you will learn about your chair. Consult your supplier and your health care professional to help you choose the best set-up and options for your safety.

4. XI — BATTERIES
Here you will learn about battery and charger safety, and how to avoid injury.

Note: Where they apply, you will also find “Warnings” in other sections of this Manual.
V. EMI (ELECTROMAGNETIC INTERFERENCE)

WARNING

Heed all warnings to reduce the risk of unintended brake release or chair movement:
1. Beware of the danger from hand-held transceivers. Never turn on or use a hand-held transceiver while power to your chair is on. Use extra care if you believe that such a device may be in use near your chair.
2. Be aware of nearby radio or TV stations, and avoid coming close to them.
3. If unintended movement occurs, turn your chair off as soon as it is safe to do so.

A. WHAT IS EMI?

WARNING

1. EMI means: electromagnetic (EM) interference (I). EMI comes from radio wave sources such as radio transmitters and transceivers. (A “transceiver” is a device that both sends and receives radio wave signals).
2. There are a number of sources of intense EMI in your daily environment. Some of these are obvious and easy to avoid. Others are not, and you may not be able to avoid them.
3. Powered wheelchairs may be susceptible to electromagnetic interference (EMI) emitted from sources such as radio stations, TV stations, amateur radio (HAM) transmitters, two way radios, and cellular phones.
4. EMI can also be produced by conducted sources or electro-static discharge (ESD).

B. WHAT EFFECT CAN EMI HAVE?

WARNING

1. EMI can cause your chair, without warning, to:
   • Release its brakes
   • Move by itself
   • Move in unintended directions
   If any of these occurs, it could result in severe injury to you or others.
2. EMI can damage the control system of your chair. This could create a safety hazard, and lead to costly repairs.

C. SOURCES OF EMI

WARNING

The sources of EMI fall into three broad types:

1. Hand-Held Transceivers:
   The antenna is usually mounted directly on the unit. These include:
   • Citizens band (CB) radios
   • “Walkie-talkies”
   • Security, fire and police radios
   • Cellular phones
   • Lap-top computers with phone or fax
   • Other personal communication devices
   Note: These devices can transmit signals while they are on, even if not in use.

2. Medium-Range Mobile Transceivers:
   These include two-way radios used in police cars, fire trucks, ambulances and taxi cabs. The antenna is usually mounted on the outside of the vehicle.

3. Long-Range Transceivers:
   These include commercial radio and TV broadcast antenna towers and amateur (HAM) radios. Note: The following are not likely to cause EMI problems: Lap-top computers (without phone or fax), Cordless phones, TV sets or AM/FM radios, CD or tape players.

D. DISTANCE FROM THE SOURCE

WARNING

EM energy rapidly becomes more intense as you get closer to the source. For this reason, EMI from hand-held devices is of special concern. (See C.1 above) A person using one of these devices can bring high levels of EM energy very close to your chair without you knowing it.

E. IMMUNITY LEVEL

WARNING

1. The level of EMI is measured in volts per meter (V/m). Every power wheelchair can resist EMI up to a certain level. This is called its “immunity level”.
2. The higher the immunity level, the less the risk of EMI. It is believed that a 20 V/m immunity level will protect the power wheelchair user from the more common sources of radio waves.
3. The configuration tested and found to be immune to at least 20 V/m is Quickie V-521 with a right hand mounted Penny & Giles Pilot integral controller, 18” seat width, 18” seat depth, single post armrests, swing-away hangers and 22NF gel cell batteries.

WARNING

There is no way to know the effect on EMI if you add accessories or modify this chair. Any change to your chair may increase the risk of EMI. Parts from other suppliers have unknown EMI/RFI properties.

F. REPORT ALL SUSPECTED EMI INCIDENTS

WARNING

You should promptly report any unintended movement or brake release. Be sure to indicate whether there was a radio wave source near your chair at the time.
Contact: Sunrise Medical Customer Service Department at (800) 333-4000.
VI. GENERAL WARNINGS

WARNING
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 you or others.

A. NOTICE TO RIDER

WARNING
1. Before using this chair, you should be trained in safe use by your health care professional.
2. Every wheelchair is different. Take the time to learn the feel of this chair before you begin riding.
3. Be aware that you must develop your own methods for safe use best suited to your level of function and ability.
4. Have someone help you practice bending, reaching and transfers until you learn how to do them safely.
5. **Never** try a new maneuver on your own unless you are sure it is safe.
6. Get to know the areas where you plan to use your chair. Look for hazards and learn how to avoid them.

B. NOTICE TO ATTENDANTS

WARNING
Make sure you heed all warnings and follow all instructions in each section of this manual. (Be aware that warnings that apply to the rider also apply to you).

NOTES:
1. You need to work with the rider, and the rider’s doctor, nurse or therapist, to develop safe methods best suited to your abilities and those of the rider.
2. To manually push the chair you must release the motor locks.
   • Make sure you have full control over the chair when you release the motor locks. When you do so the chair will not have brakes.
3. Propel this chair by the push handles only. 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.

HELPING THE RIDER OVERCOME AN OBSTACLE:
1. 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.
2. Before each use, 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. Go straight up and straight down a curb or stair. If you turn, or climb or descend at an angle, a fall or tip-over is likely.
4. Remind the rider to **lean back** when you tilt the chair backward.
5. Lower the chair slowly. Do not let the chair drop to the pavement or ground. Doing so may damage the chair or injure the rider.

C. WEIGHT LIMIT

WARNING
1. Never exceed a total weight of 250 pounds (113.6 kilograms) for rider plus items carried.
2. Never use this chair for weight training if the total weight (rider plus additional weights) exceeds 250 pounds.
3. Exceeding the weight limit is likely to damage the seat, frame, or fasteners, and may cause severe injury to you or others from chair failure.
4. Exceeding the weight limit will void the warranty.

D. CONTROLLER SETTINGS

WARNING
Be aware that you may need to adjust the controller settings of your chair to reduce the risk of a collision, fall or tip-over.
1. Check and adjust the settings every six to twelve months (or more often, if needed).
2. Consult your supplier to adjust the control settings immediately if you notice any change in your ability to:
   • Control the joystick.
   • Hold your torso erect.
   • Avoid running into objects.

E. EMI

WARNING
Read Section V to learn about EMI. To reduce the risk of unintended brake release or chair movement:
1. Never turn on or use a hand-held transceiver while power to your chair is on. Use extra care if you believe that such a device may be in use near your chair.
2. Be aware of nearby radio or TV stations, and avoid coming close to them.
3. If unintended movement or brake release occurs, turn your chair off as soon as it is safe.

F. SAFETY CHECK-LIST

WARNING
Before each use of this chair:
1. Make sure the chair operates 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).
   • If you detect a problem, make sure to repair or adjust the chair. Your supplier can help you find and correct the problem.
2. Make sure batteries are charged. Green lights on charge indicator will light up when charge is full. Yellow lights indicate battery charge level is getting low. Red lights indicate batteries are in immediate need of charging.

G. CHANGES & ADJUSTMENTS

WARNING
Never use non-Quickie parts or make a changes to your chair unless authorized by Sunrise. (Doing so will void the Warranty, and may create a safety hazard).
1. If you modify or adjust this chair it may increase the risk of a fall or tip-over.
2. Modifications unauthorized by Sunrise constitutes remanufacturing of the wheelchair. This voids the warranty. The rider then assumes all future liability for the wheelchair.
VI. GENERAL WARNINGS

H. WHEN SEATED IN A PARKED WHEELCHAIR

⚠️ WARNING
1. Always turn off all power to your chair when you are parked, even for a moment. This will prevent:
   • Accidental movement from contact with the joystick by you or others.
   • Unintended brake release or movement from EMI sources. (See Section V)
2. Make sure that persons who help you (for example, store clerks) are aware of the joystick and do not touch it. If they do, your chair may move suddenly when you do not expect it.

I. ENVIRONMENTAL CONDITIONS

⚠️ WARNING
Your chair is not designed for use in a heavy rain storm, or in snowy or icy conditions.
1. Contact with water or excessive moisture can cause an electrical malfunction.
   • The frame, motors and other chair parts are not water-tight and may rust or corrode from the inside.
   • To avoid a chair failure:
     • Minimize exposure of your chair to a rain storm or very wet conditions.
     • Never take your chair into a shower, tub, pool or sauna.
     • Do not use your chair in fresh or salt water (such as at the edge of a stream, lake, or ocean).
     • Make sure battery covers are secure.
     • Replace joystick boot if it becomes torn or cracked.
     • Make sure all electrical connections are secure.
     • Dry the chair as soon as you can if it gets wet, or if you use water to clean it.
2. Proceed slowly and use extra care if you must operate your chair on a wet or slick surface.
   • Do so only if you are sure it is safe.
   • Stop if one or both main wheels lose traction. If this occurs, you may lose control of your chair or fall.
   • Never operate your chair on a slope or ramp if there is snow, ice, water or oil film present.
   • When in doubt, have someone help you.
3. When not in use, keep your chair in a clean, dry place.

J. TERRAIN

⚠️ WARNING
1. This chair is designed for use on firm, even surfaces such as concrete, asphalt and indoor flooring.
2. Do not operate your chair in sand, loose soil or over rough terrain. Doing so may damage wheels, bearings, axles or motors, or loosen fasteners.

K. STREET USE

⚠️ WARNING
In most states, power chairs 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 it is hard to see, use reflective tape on your chair and clothing.
2. It may be hard for drivers to see you. Make eye contact with drivers before you proceed. When in doubt, yield until you are sure it is safe.
   • Wheelchair belts are designed to position the rider only and will not protect you in an accident; further injury may result from the belts.

L. MOTOR VEHICLE SAFETY

⚠️ WARNING
To date, the U.S. Department of Transportation has not approved any tie down system for transporting a wheelchair in a motor vehicle.
1. Never sit in this chair while in a moving vehicle. In an accident or sudden stop you may be thrown from the chair.
   • Wheelchair belts are designed to position the rider only and will not protect you in an accident; further injury may result from the belts.
2. Always move to an approved vehicle seat. You must be secured with proper motor vehicle restraints.
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.

M. 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.

THE CENTER OF BALANCE IS AFFECTED BY:
1. The seat height and seat angle.
2. A change in your body position, posture or weight distribution.
3. Using this chair on a ramp or slope.
4. The use of a back pack or other options, and the amount of added weight.

TO REDUCE THE RISK OF A FALL OR TIP-OVER:
1. Consult your supplier for information on modifications authorized by Sunrise before you modify or adjust this chair.
   Note: You may need to make additional changes to correct the center of balance.
2. Use extreme care until you know the balance points of this chair and how to avoid a fall or tip-over.
VI. GENERAL WARNINGS

N. TRANSFERS

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. Always turn off power before you transfer to or from your chair. If you fail to do so you may touch the joystick and cause your chair to move when you do not expect it.
2. Make sure motor locks are engaged. This keeps the chair from moving when you transfer.
3. Work with your health care professional to learn safe methods.
   - Learn how to position your body and how to support yourself during a transfer.
   - Have someone help you until you are sure you can do a safe transfer on your own.
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. Be careful of the footrests. If you can, remove or swing them out of the way.
   - Never stand on footrests when you transfer. Doing so may damage them or cause your chair to tip.
   - Make sure your feet do not “hang up” or get caught in the space between the footrests.
7. Make sure armrests do not interfere.
8. Transfer as far back onto the seat surface as you can. This will reduce the risk that you will miss the seat or fall.

O. REACHING OR LEANING

WARNING

Reaching or leaning affects the center of balance of your chair. If done improperly, a fall or tip-over is likely. When in doubt, ask for help or use a device to extend your reach.

TO REDUCE THE RISK AND/OR DAMAGE TO THE CHAIR:
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 you lose your balance).
4. Never try to pick up an object from the floor by reaching down between your knees.
5. Never put pressure on the footrests while reaching. This may cause the chair to tip if you lean too far.
6. Never reach or lean over the top of the seat back. This may damage the backrest and cause you to fall.

IF YOU MUST REACH OR LEAN; DO SO AT YOUR OWN RISK.
Remember to:
1. Move your chair as close as you can to the object you wish to reach.
2. 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.
3. Turn off all power to your chair. If you fail to do so, you may touch the joystick and cause your chair to move when you do not expect it.
4. Firmly grasp a rear wheel or an armrest with one hand. This will help to prevent a fall if the chair tips.

P. DRESSING OR CHANGING CLOTHES

WARNING

Be aware that your weight will shift if you dress or change clothes while seated in this chair. To make the chair more stable, rotate the front casters until they are forward.
VI. GENERAL WARNINGS

Q. OBSTACLES

⚠️ WARNING
Obstacles you may have to overcome in daily use include door thresholds, lifts, ramps and hazards such as potholes and broken pavement. These can damage your chair and may cause a fall, tip-over or loss of control.
1. Be aware that thresholds are very dangerous. (Even a small change in height may stop a caster wheel and cause your chair to tip). You may need to:
   • Remove or cover threshold strips between rooms.
   • Install a ramp at entry or exit doors.
2. Keep your eyes moving when you ride; scan the area well ahead of your chair.
3. Make sure the floor areas where you use this chair are level and free of obstacles.
4. To help correct your center of balance:
   • Lean your upper body forward slightly as you go up over an obstacle.
   • Press your upper body backward as you go down from a higher to a lower level.

R. DRIVING IN REVERSE

⚠️ WARNING
Use extra care when you drive your chair in reverse. You may lose control or fall if one of the rear wheels hits an object.
1. Operate your chair slowly and at an even speed.
2. Stop often and check to make sure your path is clear of obstacles.

S. RAMPS, SLOPES & SIDE HILLS

⚠️ WARNING
The center of balance of your chair changes when you are on a slope.
Note: “Slope” includes a ramp or side hill. Your chair is less stable when it is at an angle. Never use this chair on a slope unless you are sure it is safe. When in doubt, have someone help you.

Beware Of:
1. Steep slopes. Do Not use this chair on a slope steeper than 10%. (A 10% slope means: One foot in elevation for every ten feet of slope length).
2. Wet or slippery surfaces (such as when ice, snow, water or oil film is present). A loss of traction may cause a fall or tip-over.
3. A change in grade on a slope (or a lip, bump or depression). These may cause a fall or tip-over.
4. 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).

T. TO REDUCE THE RISK OF A FALL, TIP-OVER OR LOSS OF CONTROL:

⚠️ WARNING
1. Never use your chair on a slope unless you are sure you can do so without losing traction.
2. Always go as straight up and as straight down as you can.
   • Do not “cut the corner” on a slope or ramp.
   • Do not turn or change direction on a slope.
3. Always stay in the center of the ramp. Make sure ramp is wide enough that you are not at risk that a wheel may roll off the side.
4. Lean or press your body uphill. This will help adjust for a change in the center of balance caused by the slope. (Fig. 1)
5. Keep your chair moving at a slow, steady speed. Keep control over the chair at all times.
   • On a descent, do not let your chair accelerate beyond its normal speed.
   • If the chair picks up speed, center the joystick to slow down or stop.

Note: The solid state controller of your chair has a logic system that will help control your speed when driving on a slope or up hill.
   • If you stop, re-start slowly.
6. Never use rear wheel locks to try to slow or stop your chair. This is likely to cause the chair to veer out of control.
VI. GENERAL WARNINGS

U. RAMPS AT HOME & WORK

⚠️ WARNING

Make sure ramps meet all Building Codes for your area.
1. For your safety, have a licensed contractor build or remodel ramp to meet all standards.
2. **Note:** The proper design will vary, depending on such things as: the length and height of the ramp; the need for an intermediate platform; landing size; doors, and the direction of swing, and; whether the ramp includes a turn or angle.
   **Note:** Failure to follow these warnings may result in a fall and possible injury.

At A Minimum:
1. Open sides of ramp must have side rails to prevent your chair from going over the edge.
2. Slope must not be steeper than one inch in height for every one foot of slope length.
3. Ramp surface must be even, and have a non-skid surface.
4. You may need to add a section at the top or bottom to avoid a lip or drop-off.
5. Ramp must be sturdy. Add bracing if needed, so ramp does not “bow” when you ride on it.

V. WHEELCHAIR LIFTS

⚠️ WARNING

Wheelchair lifts are used in vans, buses, and buildings to help you move from one level to another.
1. Always turn off all power to your chair when you are on a lift. If you fail to do so, you may touch the joystick by accident and cause your chair to drive off the platform. (Be aware that a “roll-stop” at the end of the platform may not prevent this).
2. Make sure there is not a lip or drop-off at the top or bottom of the platform.
   These may cause a fall or tip-over. When in doubt, have someone help you.
3. Always secure the rider with a positioning belt to help prevent falls during transfers.
4. Avoid moving forward if a wheel is “hung up” on the lip of the ramp. Backup, reposition the caster for a more direct approach. And slowly try again.

W. CURBS & SINGLE STEPS

⚠️ WARNING

1. Your chair is not designed to drive up or down a curb or step more than 2" high. Doing so may:
   - Result in a fall or tip-over.
   - Damage the frame, wheels, axles or other chair parts, or loosen fasteners.
2. To prevent a fall or tip-over, use wheelchair access ramps or have someone help you.
3. If you must climb or descend a curb or step alone do so at your own risk and use extreme care.
   - Go as straight up or straight down as you can. **Never** turn or climb or descend at an angle as a fall or tip-over is likely.
   - Proceed slowly, at a steady speed.
4. Make sure that persons who assist you review the “Tips For Attendants” and heed all warnings.

X. STAIRS

⚠️ WARNING

**Never** use this chair to go up or down stairs, even with an attendant. Doing so is likely to cause a fall or tip-over.

Y. ESCALATORS

⚠️ WARNING

**Never** take this chair on an escalator, even with an attendant. Doing so is likely to cause a fall or tip-over.
F. FOOTRESTS

🔥 WARNING

Note: If you use parts or make changes not authorized by Sunrise it may create a safety hazard and will void the Warranty.

A. ANTI-TIP LEVERS

🔥 WARNING

Never remove or alter anti-tip levers. They help keep your chair from tipping over backward in normal use. Make sure rubber rollers are in good condition.

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.

C. BATTERIES

🔥 WARNING

1. To prevent an acid spill, always keep batteries upright.
2. Never smoke or hold an open flame near batteries. They are a known explosion hazard.
3. Always wear rubber gloves and safety glasses when you handle batteries.
4. Read all of section XI Batteries before attempting to charge or change batteries.

D. CUSHIONS & SLING SEATS

🔥 WARNING

1. Quickie sling seats, standard foam cushions, and other body supports, 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.

E. 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 Sunrise.
2. If fasteners become loose, tighten them as soon as you can.
3. Over- or under-tightened fasteners may fail or cause damage to chair parts.
   • See Section IX, “Set-Up & Adjustment”, for proper torque settings.

G. MOTOR LOCKS

🔥 WARNING

1. Do not engage or disengage motor locks unless power to the chair is off.
2. Be aware that the chair will not have brakes when motor locks are in the free-wheel position.
3. Make sure that the person pushing the chair has full control when motor locks are disengaged.

H. ON/OFF SWITCH

🔥 WARNING

1. Never use the ON/OFF switch to stop the chair except in an emergency. This will result in an abrupt stop, and may cause you to fall.
2. To slow your chair to a stop, return the joystick to neutral.

I. 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 tire may cause the chair to veer to one side and result in a loss of control.
3. An over-inflated tire may burst.
4. Never use a gas station air pump to inflate a tire. Such pumps provide air at high volume, and could cause the tire to burst. To prevent tire damage:
   • Use a hand pump (or a low volume air pump) to inflate tires.
   • Use a tire gauge to check pressure.
5. Driving over sharp objects may cause damage to tires and tubes.
**VII. WARNINGS: COMPONENT & OPTIONS**

**J. POSITIONING BELTS (OPTIONAL)**

**WARNING**

Use a positioning belt only to help support your posture. Improper use of such belts may cause severe injury or death.

1. Make sure you are not at risk to slide down in the wheelchair seat. If this occurs, you may suffer chest compression or suffocate due to pressure from the belt.
2. A pelvic wedge or a similar device can help keep you from sliding down in the seat. Consult your health care professional to find out if you need such a device.
3. The belt must be snug, but must not be so tight that it interferes with breathing. You should be able to slide your open hand, flat, between the belt and your stomach.
4. Make sure you can easily remove the belt in an emergency.
5. **Never** use a positioning belt:
   - In place of a motor vehicle seat belt. In an accident or sudden stop you may be thrown from the chair. A positioning belt will not prevent this, and further injury may result from the belt.
   - As a restraint. A restraint requires a doctor's order.
   - On a rider who is comatose or agitated.

**K. PUSH HANDLES**

**WARNING**

1. Push handles provide secure points for an attendant to propel and control the chair. This helps to prevent a fall or tip-over.
2. Check to make sure push handle grips will not rotate or slip off.

**L. REAR WHEEL LOCKS (OPTIONAL)**

**WARNING**

If you request them, we will install rear wheel locks at Sunrise.

1. Rear wheel locks are **not** designed to slow or stop a moving wheelchair. **Never** apply them when your chair is moving. Doing so may cause you to veer out of control.
   - Use wheel locks **only** to keep the rear wheels from rolling when your chair is at a complete stop.
2. 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.
3. Make sure lock arms embed in tires at least 3/8 inch when locked. If you fail to do so, the locks may not work.
VIII. TIPS FOR ATTENDANTS

⚠️ WARNING

1. Persons who help a rider do one of the following tasks should review and heed the warnings “Notice to Attendants” and all warnings in this Manual for that task.
2. The “Tips” that follow are suggestions only. Be aware that you will need to learn safe methods best suited to the rider and to your abilities. Consult your health care professional for instructions.

A. TO CLIMB A CURB OR SINGLE STEP

⚠️ WARNING

The following is one way to safely help a 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.

B. TO DESCEND A CURB OR SINGLE STEP

⚠️ WARNING

The following is one way to safely help a rider descend a curb or single step going backward:

1. 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. Proceed carefully. Look over your shoulder and 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. Be sure to look where you are going. Turn the chair around and gently lower front casters to the ground.

IX. SET-UP, ADJUSTMENT & USE

A. NOTES

1. Work Surface For Set-Up:
   Use a flat surface, such as a table, to assemble, adjust and check your chair. This makes the steps easier and helps ensure a correct set-up.

2. Fasteners:
   - Many of the screws and bolts on this chair are special high-strength fasteners and may have special coatings.
   - Many nuts are of the Nylock type. They have a plastic insert to help prevent loosening.
   - Only use screws, bolts and nuts provided by Sunrise.

   ⚠️ WARNING

1. Use of improper fasteners may cause the chair to fail.
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. Loose bolts or screws can cause damage to other chair parts causing them to fail.

3. Washers & Spacers:
   - Note the position of washers and spacers before disassembly.
   - To avoid damage to the frame, replace all washers and spacers when you reassemble parts.

4. Torque Settings:
   - A torque setting is the optimal tightening for a particular fastener. Use a torque wrench that measures inch-pounds to secure screws, nuts and bolts on this chair.
   - Note: Unless otherwise noted, use a torque setting of 60 inch-pounds for all fasteners.
IX. SET-UP, ADJUSTMENT & USE

B. TOOLS YOU WILL NEED
1. Basic Tool Kit:
   To set-up, adjust and maintain your chair you will need the following tools:
   • 7/16” box and open-end wrench
   • 1/2” box and open-end wrench
   • 3/4” box and open-end wrench
   • 5/32” Allen wrench
   • 3/16” Allen wrench
   • Phillips screwdriver #2
   • Custom axle wrench (or a 1/2” open-end wrench)
   You can obtain a multi-purpose tool kit from Sunrise, or buy the tools you need from a hardware store.

2. Torque Wrench:
   If you plan to adjust and maintain this chair yourself, Sunrise recommends that you use a torque wrench.
   Note: The wrench must measure inch-pounds. You can buy a torque wrench and proper sockets from a hardware store.

C. CHECK-OUT
   Be sure this chair performs to your chosen operational settings. If it does not, turn the chair off immediately and reprogram with the Quickie QTRONIX Programming Pad. If you do not own a Quickie QTRONIX Programming Pad have your supplier reprogram your wheelchair as needed. Or, you can order a Quickie QTRONIX Programming Pad for your own use, from your supplier.
   Note: Repeat this procedure until the chair performs to your specifications.
   Note: Quickie’ Smart Pad Programmer or Smart Box Programmer are not compatible with the V-521 controller.

WARNING
When properly set-up, this chair will operate smoothly. Check to see that all components work properly. If you detect a problem, be sure to correct it before use.

D. TO FIND & CORRECT A PROBLEM
1. First: Follow steps in this section to make sure set-up is correct.
2. Second: If step 1 does not work, consult your supplier for help.
3. If You Still Have A Problem: contact Sunrise Medical Customer Service at (800) 333-4000.

E. BATTERIES (See Section XI)

F. SWING-AWAY FOOTRESTS
1. Installation
   a. Place swing-away pivot pin (B) into the locating hole (C) on top of the hanger mount with the footrest facing outward from frame.
   b. Rotate the footrest inward until latch plate locks (D) into place on locking bolt.

2. Removal
   a. To remove footrest, press quick-release lever (E).
   b. Rotate footrest outward and lift.

3. Height Adjustment
   a. Remove both bolts (F) in the hanger frame tube.
   b. Reposition footrest height.
   c. Re-tighten all bolts (F).
IX. SET-UP, ADJUSTMENT & USE

G. ELEVATING LEGREST (OPTIONAL)
1. Installation
   To install or remove Elevating Legrest (ELR) see instructions for Swing-away Footrest installation page 29.
2. Adjustment
   a) To raise legrest, lift to desired position.
   b) To lower legrest, while seated in chair, first lift slightly then press release lever (F) down and lower legrest to desired position.

H. INTEGRAL JOYSTICK INSTALLATION
1. To Connect
   a. Connect left and right motor to respective motor plug. Align ridges (A).
   b. Connect battery plug to battery box. Refer to wire diagram.
2. To Disconnect
   Pinch lower edges of plug to release barb mechanism (B). Pull apart.

I. JOYSTICK SWING-AWAY RETRACTABLE MOUNT (OPTIONAL)
The joystick is mounted with a mechanism which allows the control to be locked in a forward or retracted position using magnets.
Adjustment
a) To retract joystick, push outward on the inside of joystick.
   b) Push joystick away from front of armrest until it locks into retracted position.
   c) To return to forward position, push joystick forward until it locks into place.

J. DUAL-POST HEIGHT-ADJUSTABLE ARMRESTS
The dual-post flip-back armrest can be used as either a flip-back armrest or a removable armrest.

K. HEIGHT-ADJUSTABLE ARMRESTS (OPTIONAL)
1. 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.
IX. SET UP, ADJUSTMENT & USE

5. Adjusting Armrest Receiver Fit
To tighten or loosen the fit of the outer armpost in the receiver:
  a. Loosen the four 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.

6. Adjusting Inner Armpost Fit
  a. Two set screws are installed in the outer armpost.
  b. Turn the set screws in or out until the desired fit is achieved.

L. REAR WHEEL LOCKS (OPTIONAL)
When requested, rear wheel locks are installed by Sunrise.

1. Note: Use a torque setting of 70-80 inch-pounds to tighten wheel lock bolts.

2. To Adjust:
  a. Use an open-end wrench and Alan wrench to loosen two bolts (8) on brake bracket (6).
  b. Adjust (6) clamp toward rear wheel until lock arm (7) embeds in tire at least 1/8” when locked.
  c. Retighten bolts (8).
  d. Repeat steps on other side.

M. FOLDING AND UNFOLDING

X. OPERATING GUIDE

A. CONTROL SETTINGS
1. It is vital to match control settings to your level of function and ability.
2. Consult your health care professional and your supplier to select the best control settings for you.
3. Check and adjust the settings every six to twelve months (or more often, if needed).
4. Adjust the control settings immediately if you notice any change in your ability to:
   • Control the joystick.
   • Hold your torso erect.
   • Avoid running into objects.

5. Control Settings are adjusted through the use of the Quickie QTRONIX Programming Pad. See your supplier if you do not own a Quickie QTRONIX Programming Pad.
   Note: Quickie’s Smart Pad Programmer or Smart Box Programmer are not compatible with the Quickie V-521 controller.

B. QUICKIE QTRONIX PROGRAMMING PAD (OPTIONAL)

Program settings beyond the ability of the rider can result in serious injury. Consult your health care advisor before you alter settings.

1. Notes:
   The Quickie QTRONIX Programming Pad lets you adjust the control settings of the V-521. You can customize a program for yourself or select the standard program.
   • acceleration rate
   • deceleration rate
   • turn acceleration
   • turn deceleration
   • forward speed
   • reverse speed
   • turn speed

2. To Program Your Chair:
   a. Turn off power to the chair.
   b. Insert QTRONIX Programming Pad plug (1) into the charger socket.
   c. Turn on power to the chair; program as needed.
   d. Remove plug and drive chair.
   Note: Review the Quickie QTRONIX Programming Pad Owner’s Manual for more details on how to program your chair.
   Note: Quickie’s Smart Pad Programmer or Smart Box Programmer are not compatible with the Quickie V-521 controller.
   Note: Program settings that are not matched for the capabilities of the rider can result in serious injury. Do Not alter settings without the advice of your health care professional.
C. THERMAL ROLL-BACK
Your chair has a thermal roll back circuit. This protects the controller from damage due to overheating. In extreme conditions (such as repetitive hill climbing) the circuit will decrease the power to your motors. This allows the chair to operate at a reduced speed. When the controller cool, the chair will return to normal speed.

D. CIRCUIT BREAKERS
1. Notes:
Your Quickie V-521 has two styles of battery box; Single (one circuit breaker) and Dual (two circuit breakers, one on each box)
   • In the unlikely event of a short circuit or heavy overload, all power to your chair will be shut off.
   • To reset your chair, depress the circuit breaker button(s) on the battery box lids. A few minutes wait is required before the circuit breaker(s) will reset.

2. Repeated Shutdown:
If the chair continues to shut down after resetting, have it serviced by a supplier.

E. INTEGRAL JOYSTICK
The standard integral joystick controls the chair’s performance. It consists of the following parts:

1. Speed Control or Drive Mode Selection Buttons (A and B)
To decrease the speed level depress button A. Or, when 1-5 Drive modes are programmed, depress button A to activate lower drive mode(s).
To increase speed level, depress button B. Or, when 1-5 Drive modes are programmed, depress button B to activate higher drive mode(s).
Speed level active, or Drive Mode selected, is indicated on display (C) by a series of five lights. One light indicates slowest level/mode currently active, while five lights indicates highest level/mode currently active.

2. Battery Charge Indicator (D)
   • Green lights indicate that batteries are fully charged.
   • Yellow lights indicate that batteries need recharging.
   • When the lights stay in the red band, the batteries must be recharged.

3. On/Off Button (E)
Turning the chair on or off is accomplished by depressing button E.

4. Horn (F)

5. Joystick (G)
The joystick controls the direction and speed of your chair. Turn the chair on and move the joystick in the direction you want to go.
   • Moving the joystick from the neutral (center) position disengages the motor locks, allowing the chair to move.
   • The chair will move faster the more you move the joystick away from neutral.
A. INTRODUCTION

1. Notes:
   - Batteries supply the power for your chair. They contain a finite amount of energy and have limits on how long they can store and supply energy.
   - You can charge batteries only a certain number of times before they will fail and no longer hold a charge.
   - For answers to questions about batteries, consult your Sunrise supplier.

2. Use Proper Batteries:

   Your chair operates on two 12 volt batteries.
   - They should be 22 NF or U1 size with a minimum of 30 ampere hour rating.
   - Only deep cycle sealed case construction batteries should be used in this device.
   - When you buy a replacement, insist on a deep cycle sealed case type. Do not use a car starter battery.

3. Breaking In:

   - A battery requires “breaking-in” for the first 6 to 12 charges. It will not accept a full charge for this period.
   - It is best to limit the length of your trips until you break the batteries in and you know the range of your chair.

4. Discharged Batteries:

   - Never allow a battery to completely discharge. If you operate your wheelchair until it has almost stopped, you will greatly reduce the life of your batteries.
   - Never let a battery sit in a discharged condition. Give unused or stored batteries a full charge once per month.
   - Always fully charge the batteries. Avoid “topping off” with frequent charges.

   WARNING

   Never connect a life support or auxiliary device to a wheelchair battery. The electrical system may fail, and result in severe injury to or death of rider.
XI. BATTERIES

B. BATTERY CHARGER
A battery charger produces a direct current (DC). When applied to a discharged battery, this reverses the chemical reaction that led to its discharge.

1. Charge Rate. How fast a battery will charge depends on:
   • Its electrical capacity; state of charge; electrolyte temperature, and; internal condition.
   • The DC output of the charger. (The charge rate will vary if the alternating current (AC) supply is higher or lower than 110 volts).

2. Caution — To Avoid Damage to the Charger:
   • Never place the charger on top of a battery during charging. (Gases from the battery can damage the charger and may lead to an explosion or fire).
   • Never place a battery on top of the charger.
   • Never expose charger to rain or snow.
   • Never unplug charger by pulling on the electrical cord. This will damage the cord.
   • Never open a charger or attempt to repair it yourself. Return charger to Sunrise or have repairs made only by a qualified person.
   • Keep cord out of the way, where it will not be stepped on, tripped over, or damaged.

3. Caution — To Avoid Damage to the Battery:
   • Make sure you use the correct setting (located on the charger) for “wet” or “gel” type batteries.
   • Never charge a frozen battery. A fully charged battery will rarely freeze, but the fluid in a discharged battery can freeze at 16 degrees Fahrenheit (minus 9 degrees Centigrade). If you suspect a battery is frozen, thaw it before charging.
   
   **WARNING**

  Lead acid batteries generate explosive gas while charging. Completely read and follow all warnings about the batteries in this user instruction manual and any labels applied to the product. Failure to do so could result in fire, explosion, injury and/or death.

C. ACID BURNS
Acid in batteries is corrosive. It can cause serious burns to the eyes and skin and can damage floors, furniture, clothing and your wheelchair.

**WARNING**

1. Use extreme care not to spill acid when you handle batteries. Keep batteries upright.
2. Avoid contact of acid with bare skin or clothing.
3. Always wear rubber gloves and safety glasses when you handle batteries.
4. If acid contacts your skin or clothing, wash immediately with soap and water.
5. If acid contacts your eyes, immediately flood eyes with cold running water for at least 15 minutes. Seek medical attention immediately.

D. CONNECTING BATTERIES IN BATTERY BOX(ES)

**WARNING**

1. Batteries weigh up to 40 lbs. Take care to avoid injury when lifting.
2. Keep batteries upright. Take care not to spill acid (wet cell batteries).
3. Always wear rubber gloves and safety glasses when you handle batteries.
4. Before working around batteries, remove all metal personal affects, such as necklaces, rings, watches, pins and other metal jewelry that might contact the battery terminal and cause a short.
   Note: Refer to page 44 for a battery wiring diagram, or refer to the battery box lid for a wiring diagram.

1. Lift battery into battery box base.
2. Connect and disconnect battery cables with caution. Connect the red lead to the positive terminal and the black lead to the negative terminal. In the single (UI) battery box connect the red lead to a different battery than the black lead. Connect the remaining positive terminal to the negative terminal at the other battery using the range jumper connector.
3. Tighten all the terminal fasteners using two wrenches.
4. Place the battery box lid on the bases and secure with the battery box strap.
5. Place battery box into battery cage. Connector on box lid should face the chair.
6. Connect the harness lead to the battery box connector on the lid.
7. Lift the battery cage on to the locating pins found on the gear boxes. Make sure cage is seated properly.
8. Lock the battery cage into place by pushing down on the battery cage handle.
XI. BATTERIES

WARNING

Never make direct contact across both battery terminals, as an explosion may occur. A spark may result in an explosion and/or fire resulting in severe injury or death.

E. CHARGING BATTERIES

WARNING

To avoid the risk of severe injury or death from electrical shock, fire or explosion while charging:
1. Never connect charger to a 240 volt source. The main input voltage is 110 volts.
2. Never touch the charger after it is connected to an electrical outlet. This may cause electrical shock.
   • Connect charger to the power supply ONLY AFTER you connect charger to the battery.
   • Never connect or disconnect charger from battery while there is power to the charger.
3. Never use an extension cord. Use of an improper cord could damage the charger, or cause a fire or electrical shock.
4. Do not use charger if it has been dropped or damaged.
5. A battery emits explosive hydrogen gas during charging. To reduce the risk of fire or explosion:
   • Make sure area is well vented. Never charge battery in a closed-in area.
   • Never smoke or allow a spark, flame or high heat near battery during changing.
   • Never allow metal tools or chair parts to contact battery.
6. Never look directly into cells when charging battery.

1. Use the charger that comes with your wheelchair. Read and follow all instructions and warnings.
2. Use the correct switch setting (located on the charger) for the type of batteries being used (wet or gel).
3. Make sure room is well ventilated.
4. Turn off all power to your chair.
5. Connect and disconnect battery cables with caution. Only connect the charger to the power supply after the charger has been connected to the chair.
6. Make sure to allow enough time to fully charge batteries.
   Note: Batteries should never be left for long periods in the discharged state. Unused or stored batteries should be given a charge once per month.
7. Charge batteries by engaging the battery charger connector (A) to the charger/programming port (B) located on the joystick.

F. DISPOSING OF BATTERIES

WARNING

1. All batteries once they have reached the end of their useful life are deemed to be hazardous waste.
2. For further information on handling and recycling contact your local recycling authority.
3. Always dispose of product through a recognized agent.
A. NOTES
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 will make your chair easier to use.
3. To protect your investment, have all major service and repair work done by your supplier.

WARNING
1. Your chair needs regular maintenance for peak performance and to avoid injury from chair failure, damage or premature wear.
2. Inspect and maintain this chair strictly per the “Maintenance Chart”. (p. 41)
3. If you detect a problem, make sure to service or repair the chair before use.
4. At least once a year, have a complete safety check and service of your chair performed by a supplier.

B. CLEANING
1. Paint Finish:
   • Clean the paint finish with mild soapy water monthly.
   • Protect the paint with a coat of non-abrasive auto wax every three months.
2. Motors:
   • Clean around motor area weekly with a slightly damp (not wet) cloth.
   • Wipe off or blow away any fluff, dust, or dirt on or around the motors.
   • Note: You do not need to grease or oil the chair.
3. Upholstery:
   • Hand-wash only as needed. Machine washing may damage fabric.
   • Drip-dry only. Heat from a dryer may damage fabric.
   • Note: Washing the fabric may decrease fire retardant properties.

C. 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”. (See p. 41)
3. If you store this chair for more than three months, have it inspected by a supplier before use.

D. BATTERY MAINTENANCE

WARNING
1. To prevent an acid spill, always keep batteries upright.
2. Never smoke or hold an open flame near batteries.
3. Always wear rubber gloves and safety glasses when you handle batteries.

1. Maintenance Schedule:
   This varies for different types of batteries. Always follow the instructions supplied with your batteries.
   • Note: Always wear rubber gloves and safety glasses when you handle or service batteries.
2. Adding Water: (Wet Cells Only)
   • Wet-type lead acid batteries need periodic replacement of water lost due to evaporation.
   • Note: use distilled water only.
   • Check the battery fluid level about once a week. When you remove the stoppers (on top of the battery) there should be one-eighth to one-quarter of an inch of fluid above the internal plates. Do not overfill.
3. Corrosion:
   Check battery terminals often for corrosion.
   a. If corrosion is present, use a wire brush to clean the terminals.
      • Note: Always wear safety glasses and rubber gloves.
   b. Use baking soda to neutralize acid.
   c. Use petroleum jelly to re-grease the terminals after connecting cable to battery. (Completely cover the terminal nut and bolt, cable clip and any exposed cable with jelly).
4. For Answers To Questions: Contact your supplier.
E. PNEUMATIC TIRES

\section*{WARNING}

1. Do not use this chair if any of the tires in under- or over-inflated.
2. Low pressure in a tire may cause the chair to veer to one side and result in loss of control.
3. An over-inflated tire may burst.
4. Never use a gas station pump to inflate a tire. Such pumps provide air at high volume, and may cause tire to burst.

1. Check for signs of wear and correct air pressure in pneumatic tires weekly.
2. For best performance, inflate tires to the same pressure level, as shown on the tire sidewall:
   - 8" pneumatic casters - 30 to 40 psi
   - 12" pneumatic drive wheels - 35 to 45 psi
3. Caution:
   To prevent tire damage:
   - Use a hand pump (or a low volume air pump) to inflate tires.
   - Use a tire gauge to check pressure.

F. TO REPAIR OR REPLACE A TIRE

\section*{WARNING}

Residual air pressure in tires can cause severe injury. Make sure you release all air in tire before attempting to service or repair tires.

1. 8" Caster Wheels:
   a. Release all air from tire.
   b. Remove caster wheel from fork.
   c. Make sure there is no residual air in tire before you remove bolts that hold the two rim halves together.
   d. Remove four bolts from rim. Separate two halves of rim.
   e. Repair or replace inner tube.
   f. Reassemble the caster wheel; make sure the bearing spacer is in place and all four bolts are secure.
   \textbf{Note:} Use a torque setting of 240 inch-pounds when tightening bolts.
   g. Mount caster wheel onto fork. Replace washers correctly.
   h. Inflate tire to proper pressure level.

2. 12" Drive Wheels:
   a. Elevate and securely support chair so that wheel is off the ground. Release all air from tire.
   b. Remove plastic dome plug.
   c. Remove lock nut and tab washer.
   d. Remove wheel.
   e. Repair or replace inner tube.
   f. Install wheel on chair by replacing center tab washer and locknut. \textbf{Use a torque setting of 35 ft.-lbs. to re-tighten nuts.} Install plastic dome plug.
   g. Inflate tire to proper pressure level (listed on tire sidewall).

G. MOTOR BRUSHES

Check the motor brushes every three (3) months for wear. The brushes should be clean and shiny. Replace worn or blackened brushes.

H. ORDERING PARTS

When you order parts, provide the following:
1. Model of chair
2. Serial number of chair
3. Left hand or right hand control
4. Part number, description and quantity of parts you need.
5. State reason for replacement.

I. MAINTENANCE CHART

You should check the items on this chart at the indicated intervals. If any of the items are loose, worn, bent or distorted, immediately have them checked and/or repaired by your authorized Sunrise supplier. Frequent maintenance and servicing will improve performance and extend wheelchair life.

<table>
<thead>
<tr>
<th>CHECK...</th>
<th>Daily</th>
<th>Weekly</th>
<th>Monthly</th>
<th>Quarterly</th>
<th>Annually</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charge Batteries</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check tires for proper inflation level</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check batteries for proper electrolyte level (wet only)</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check plugs and connectors for proper connections</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check all moving parts for wear</td>
<td>✓</td>
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<td></td>
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</tr>
<tr>
<td>Inspect all nuts, bolts and fasteners for looseness or wear</td>
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<tr>
<td>Inspect upholstery for wear</td>
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<td>Remove and inspect motor brushes</td>
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</tr>
</tbody>
</table>
XIV. SUNRISE LIMITED WARRANTY

1. FOR LIFE
We warrant the main frame of this wheelchair against defects in materials and workmanship for lifetime use of the first consumer purchase.

2. ADDITIONAL WARRANTY
We warrant Sunrise-made components of this wheelchair against defects in materials and workmanship as follows:
   a. Main electronic controller—For two (2) years from the date of first consumer purchase.
   b. Motors, gear boxes and remote joystick—For one (1) year from the date of first consumer purchase.
   c. All other original components (such as wheels, upholstery, plastic, rubber parts and painted surfaces)—For three (3) months from the date of first consumer purchase.

3. LIMITATIONS
   a. We do not warrant damage due to:
      • Neglect, misuse, or improper installation or repair.
      • Use of parts or changes not authorized by Sunrise.
      • Exceeding the weight limit of 250 pounds.
   b. This warranty is void if the original chair serial number tag is removed or altered.
   c. This warranty applies in the USA only. Check with your supplier to find out if international warranties apply.

4. WHAT WE WILL DO
Our sole liability is to repair or replace covered parts. This is your only remedy for consequential damages.

5. WHAT YOU MUST DO
   a. Return the warranty card.
   b. Obtain from us, while this warranty is in effect, prior approval for return or repair covered parts.
   c. Return the wheelchair or part(s), freight pre-paid, to Sunrise Mobility Products Division at: 2842 Business Park Ave., Fresno, CA 93727-1328.
   d. Pay the cost of labor to install or repair parts.

6. NOTICE TO CONSUMER
There are no other express warranties. To the extent permitted by law, any implied warranty (including a warranty of merchantability or fitness for a particular purpose) is limited to:
   a. One (1) year from the first consumer purchase, and;
   b. Repair or replacement of the defective part only.
This warranty gives you certain legal rights. You may also have other rights that vary from state to state.