

Alero



Alero GP52 Foldable Power Wheelchair Owner's Manual



401 Bridge Street · Old Forge, PA 18518
Phone: 800-624-6374 · Fax: 800-628-5165

FOR YOUR RECORDS

Please fill in your Alero information below. This information will be useful in the event you ever need to contact Golden Technologies, Inc. concerning your power wheelchair.

Your Alero:

Serial Number:	
Date of Purchase:	
Additional Options:	

Your Golden representative or dealer:

Company Name:	
Address:	
Phone:	

Please remember to fill out and send in your Warranty Registration Card. Failure to do so may delay or void servicing of your Alero.

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INTRODUCTION

Congratulations on the purchase of your new Golden Technologies Alero power wheelchair! The Alero combines cutting edge technology with attractive designs that are also highly functional in today's world. Every component of your Alero is produced using extensive research and evaluation to ensure durability, reliability and efficiency to surpass industry standards.

We at Golden Technologies know that you have chosen a power wheelchair that will give you years of dependable operation and will also enhance the quality of your life by providing you with the mobility to experience a more active daily lifestyle.

Please read, understand and follow all of the instructions and suggestions in this manual before you operate your Alero for the first time. The safe use of your new power wheelchair is very important and starts with you. Your new Alero is user-friendly and designed for maximum maneuverability in even the tightest spaces.

If you feel uncomfortable with your new power wheelchair or do not understand the instructions presented in this owner's manual, or if, for any reason, you do not feel capable of performing the activities necessary to assemble, disassemble, operate, or maintain your Alero, please contact the home health care dealer you purchased this power wheelchair from or contact Golden Technologies technical support services at **800-624-6374**.

Golden Technologies, Inc. cannot be held responsible for personal injury or property damage resulting from the unsafe or the improper use of any of our broad range of health and personal mobility products.

Please fill out and mail the enclosed warranty registration card. We at Golden Technologies, Inc. would appreciate hearing about your experience with your new Alero power wheelchair!

Please mail your warranty registration card to:

**Golden Technologies, Inc.
Warranty Registration Office
401 Bridge Street
Old Forge, PA 18518**

**Phone: 570-451-7477
Fax: 570-451-7494**

Stop by our website 24 hours a day!!!
www.goldentech.com

SAFETY

Safety is the most important consideration when using your Alero power wheelchair. Golden Technologies has taken every consideration to provide you with a safe and reliable power wheelchair. It is your responsibility to read and understand these safety instructions before attempting to assemble or operate your power wheelchair. Failure to do so may result in personal injury or may cause property damage.

Your Alero is a battery-operated power wheelchair. Please exercise caution and consideration when you are operating it. Driving your Alero carefully and thoughtfully will help ensure your personal safety and the safety of other people.

Please note, throughout this manual you will see the following warning symbol:



WARNING!

Please pay particular attention to these warnings. Doing so will help make riding your Alero a safe and pleasurable experience.

Operating Safety

Adjustment to performance parameters should only be made by healthcare professionals or people fully knowledgeable with this process and the driver's capabilities. Improper settings may cause injury to the driver, bystanders, damage to the power wheelchair or to surrounding property.

Once the power wheelchair has been set-up, test the power wheelchair's performance to be sure they match the specifications entered during the set-up procedure. Should the power wheelchair not perform to specifications, turn the power off immediately and enter the specifications again. Repeat this process until the power wheelchair performs to desired specifications.

ALWAYS make sure the power is off when transferring in or out of your power wheelchair.

ALWAYS engage the wheel locks before entering or exiting your power wheelchair. The wheel locks are designed to prevent the power wheelchair from moving. It is also preferable to ensure the front casters are in the forward position before transferring. With the casters in the forward position, the wheelbase of the power wheelchair is at its greatest, thereby offering more stability.

When transferring in or out of your power wheelchair, **ALWAYS** keep the distance between the two transfer points to a minimum.

When transferring in or out of your power wheelchair, **NEVER** stand on the footplates. Depending on the style of footplate, either swing them away or fold them up before transferring.

SAFETY (cont.)

Operating Safety (cont.)

When turning, **ALWAYS** shift your weight in the direction you are turning. **NEVER** shift your weight in the opposite direction of the turn. Doing so may cause your power wheelchair to tip over.

To maintain lateral stability, **NEVER** reach further than the length of your arm.

NEVER lean out of the chair as this may cause instability.

Please practice bending, reaching and transferring activities in the presence of a qualified healthcare professional to establish your particular safety limits before using your power wheelchair for the first time.

NEVER engage or disengage the brake release levers with the power on.

NEVER sit on your power wheelchair when the brake release levers are disengaged.

NEVER use an escalator to move your power wheelchair between floors. Serious bodily injury may occur.

NEVER attempt to lift your power wheelchair by any of the removable parts. Doing so may result in injury to the people lifting the unit or damage to the power wheelchair.

ALWAYS remain properly seated when operating your power wheelchair.

DO NOT carry passengers under any circumstances

DO NOT operate your power wheelchair on roads, streets or highways.

ALWAYS reduce the speed of your power wheelchair when making turns.

DO NOT attempt to stop your power wheelchair using your wheel locks. Wheel locks are not brakes!

DO NOT attempt to drive your power wheelchair up or down an incline more than 6°.

ALWAYS ask for assistance when going up or down inclines of this nature.

ALWAYS drive up or down inclines on a 90° angle. Driving up or down an incline at angles less than 90° may increase tipping and may cause bodily injury or property damage.

DO NOT back your power wheelchair down an incline or across uneven surfaces.

ALWAYS lower your speed while driving down inclines to avoid sudden stops or hard braking.

SAFETY (cont.)

Operating Safety (cont.)

DO NOT attempt to drive over curbs or obstacles greater than 1 ½ inches as this may cause your power wheelchair to tip over or cause damage to your power wheelchair.

DO NOT back down a curb or step.

NEVER operate your power wheelchair without the provided anti-tippers. Failing to do so may increase your chances of tipping over while operating your power wheelchair.

NEVER sit in your power wheelchair while it is being transported.

DO NOT leave your power wheelchair out in adverse weather such as rain or snow.

DO NOT leave your power wheelchair in a damp area (such as a shower or bathroom) for any extended period of time. Excessive exposure to dampness may cause your power wheelchair to malfunction.

DO NOT cut or remove the grounding prong on the plug used with any Golden Technologies product. Always use a three prong receptacle or extension cord. Use of a two prong outlet or extension cord may result in electrical shock or fire.

ALWAYS use the appropriate size batteries for your power wheelchair.

NEVER try to fit larger batteries into the battery cases provided. Forcing a larger battery into the cases may cause damage to the battery, the battery case or may create a fire hazard.

NEVER attempt to charge the batteries and operate your power wheelchair at the same time.

DO NOT attempt to charge the batteries if your power wheelchair has been or is being exposed to moisture.

DO NOT charge the batteries while sitting in the wheelchair.

NEVER charge a frozen battery.

ALWAYS make sure the charger is disconnected before attempting to operate your power wheelchair.

NEVER modify your power wheelchair in any way that is not authorized by Golden Technologies.

EMI / RFI

The rapid development of electronics, especially in the area of communications, has saturated our environment with electromagnetic (radio) waves that are emitted by television transmitters, cellular phones, citizen's band radios (CBs) amateur radios (HAM radios), wireless computers links, microwave transmitters, paging transmitters, etc. These electromagnetic (EM) waves are invisible and increase in strength the closer one gets to the source of transmission. When these energy waves act upon electrical devices and cause them to malfunction or to function in an erratic or uncontrolled manner, they are referred to as Electromagnetic Interference (EMI) or Radio Frequency Interference (RFI).

EMI / RFI AND YOUR ALERO

All electrically powered vehicles, including power wheelchairs are susceptible to EMI / RFI. This interference could result in abnormal or unintended movement of your Golden Technologies Alero.

The FDA has determined that each make and model of power wheelchair can resist EMI /RFI to a certain level. The higher the level of resistance, the greater the degree of protection from EMI / RFI – measured in volts per meter (V/M). The FDA has also determined that current technology is capable of providing 20 V/M of resistance to EMI/RFI, which would provide useful protection against common sources of interference. The resistance level of the Golden Technologies Alero is unknown.

EMI / RFI RECOMMENDATIONS

- Do not turn on or use hand-held personal electronic communication devices such as cellular phones, walkie-talkies, or CB radios while your power wheelchair is turned on.
- Be aware of any nearby transmitters (radio, television, microwave, etc.) on your intended route and avoid operation of your power wheelchair close to any of those transmitters.
- Be aware that adding accessories or components or modifying your power wheelchair may make it more susceptible to EMI / RFI.
- If unintended movement or brake release occurs, turn your power wheelchair off and remove the key as soon as it is safe to do so.
- Report all incidents of unintended movement or brake failure to Golden Technologies.

 WARNING!	IF UNINTENDED OR UNCONTROLLABLE MOTION OCCURS OR IF UNINTENDED BRAKE RELEASE OCCURS TURN OFF YOUR POWER WHEELCHAIR AS SOON AS IT IS SAFE TO DO SO.
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SPECIFICATIONS

Model	Alero – GP52SS
Seat Dimensions	
Seat Width	18" standard; also available in 16" and 20" widths
Seat Depth	16"
Seat Height	Front – 20" ; Rear – 19 3/8"
Overall Dimensions	
Length	47" for 16" and 18" models, 49" for 20" model
Width	24.5" for 16" model, 26.5" for 18" model and 28.5 for 20" model
Height	39"
Weight	
Base – including controller, footrests and anti- tippers	86 lbs
Batteries – with cases (2)	50 lbs
Battery Type	(2) U1
Load Capacity	250 lbs
Maximum Speed	3.7 mph
Range	20 miles
Turning Radius	29.5"
Wheel Sizes	
Rear Drive Wheels	12.5" foam filled
Front Caster Wheels	8" foam filled
Anti-Tip Wheels	1.5" solid
Maximum Obstacle Height	1.5" (in upright seat position)
Maximum Safe Incline	6 degrees
Controller	PG VSI 50 amp
Charger	Off-board, Portable
Drive Train	Rear Wheel, 24V DC Motors

UNPACKING

After removing your Alero GP52SS power wheelchair from the carton, please make sure you have been supplied the following main parts as standard specification:

1. Main Frame – The main frame has the following parts attached:

- Motors/Gearboxes
- Front Casters
- Rear Drive Wheels
- Foldable Battery Tray
- Lap Positioning Belt
- Foldable Back with Cane Handle Grips
- Battery Charger pouch

2. Foot Rigging with swing-away footrest

3. Battery Boxes with U1 Batteries – two pieces

4. Battery Charger – off board

5. Controller – PG VSI 50 amp

6. Rear Anti-Tip Wheels – two pieces

7. Seat Cushion

8. Calf Strap



Fig. 1

ASSEMBLY

Your Golden Alero is a fully foldable power wheelchair. It has been designed to be assembled with minimal effort or difficulty. Should you not understand the procedures outlined below or have difficulty assembling your Alero, please contact your Golden Authorized Dealer for assistance.

1. Unfold your Alero by holding the two arm rests with your hands and pushing outwards to extend frame. (Fig. 2)
2. Push down on seat rails to ensure the seat opens fully and locks into the receivers on the wheelchair side frames. (Fig. 3)



Fig. 2



Fig. 3

3. Raise the folding back and lock it into position. (Fig. 4)
4. Attach the bottom of the backrest under the bottom of the seat using the Velcro® provided.
5. Slide the Power Control / Joystick arm into the mounting bracket under the armrest and tighten it. The cable should run on the outside of the clothing guard. (Fig. 5)



Fig. 4




Fig. 5

Note: The Joystick Controller can be mounted on either side of your power wheelchair. We suggest you contact the Golden Authorized Dealer you purchased your Alero from should you wish to change it.

ASSEMBLY (cont.)

6. Connect the motor cables underneath the seat to the motor connectors on the cable coming from the joystick controller. The motor connectors and cables are marked left and right. Plug in the left to the left and the right to the right.

 WARNING!	NEVER plug the right motor connector into the left motor and NEVER plug the left motor connector into the right motor. Doing so may cause your power wheelchair to operate in an abnormal fashion. This may cause bodily injury or property damage.
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7. Insert the battery box with the red and black connectors into the battery tray so the connectors face the arm with the Joystick Controller. (Fig. 6)
Please note: The battery tray is designed to fold and unfold with the unit. On some units, the tray may be stiffer than others and may require you to push down on the middle of the tray to fully open the tray it and fit the battery boxes inside.
8. Connect power connection from the battery box, (black connector) to the black connector on the joystick controller. (Fig. 7) Slide battery box forward.



Fig. 6



Fig. 7

9. Place the second battery box behind the first battery box and connect the red battery connectors. (Fig. 8) Ensure all connections are secure.
10. Slide anti-tips into sockets on rear of chair and lock into position. (Fig. 9)



Fig. 8



Fig. 9

ASSEMBLY (cont.)

11. Next, install the swing-away footrests. Taking one of the footrest, align the holes of the hinge plate over the pivot hinge pins on the seat frame above the caster wheels. Note you will need to face the locking mechanism forward of the seat post and swivel the footrest inward until it locks in place. Repeat with other footrest. (Fig. 10)
12. Fasten calf strap to the swing-away footrest tubes above the foot plates by using the Velcro® provided. (Fig. 11)

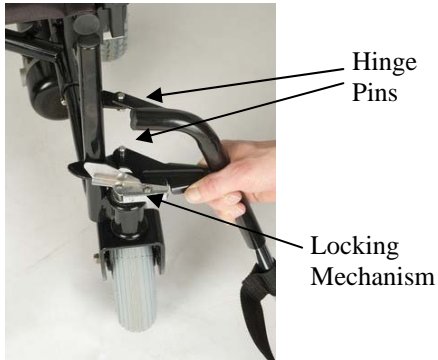


Fig. 10




Fig. 11

13. Position seat cushion on seat.
14. Press power button on joystick controller. The LED's should light indicating the power is now on.

SPECIAL FEATURES

Brake Release Levers

For your convenience, your Alero is equipped with two brake release levers. The brake release lever can be located on the rear of each motor. (Fig. 12) These levers allow you to disengage the drive motors and maneuver the power wheelchair manually.

 WARNING!	DO NOT USE YOUR ALERO WHILE THE DRIVE MOTORS ARE DISENGAGED UNLESS YOU ARE IN THE PRESENCE OF AN ATTENDANT!
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 WARNING!	DO NOT DISENGAGE THE DRIVE MOTORS WHEN YOUR ALERO IS ON AN INCLINE. DOING SO MAY CAUSE THE POWER WHEELCHAIR TO ROLL ON ITS OWN AND MAY RESULT IN BODILY INJURY OR PROPERTY DAMAGE.
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1. To ENGAGE the brakes on the motors, turn the brake release lever rearward. (Fig. 12)
2. To DISENGAGE the brakes on the motors, turn the brake release lever outward. (Fig. 13)




Fig. 12



Fig. 13

Wheel Locks

Wheel locks are fitted to both drive wheels. The wheel lock levers are located just in front of the drive wheels. (Fig. 14) Wheel locks should be engaged whenever you transfer in or out of your Alero and/or when the wheelchair is stationary.

 WARNING!	NEVER ENGAGE YOUR WHEEL LOCKS WHILE OPERATING YOUR ALERO. YOUR ALERO IS EQUIPPED WITH A BRAKING SYSTEM AND THE WHEEL LOCKS ARE NOT TO BE USED AS A SUBSTITUTE FOR THESE BRAKES.
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SPECIAL FEATURES (cont.)

Wheel Locks (cont.)

1. To ENGAGE your wheel locks, push the hand lever forward as shown below. (Fig. 14)
2. To DISENGAGE your wheel locks, push the hand lever rearward as shown below. (Fig. 15)



Fig. 14



Fig. 15

Please note: Wheel Locks can be adjusted as tire wear increases. To adjust your wheel locks, loosen the frame mounting clamp and slide the wheel lock upward. Retighten the frame mounting clamp while the wheel lock engages to the correct position. Please contact your Golden Authorized Dealer should you need assistance.

Armrest

Your Alero is equipped with a height adjustable armrest with a clothing guard. Adjustment of the armrest is facilitated by the use of a lock pin. Simply pull the lock pin and adjust the arm accordingly. (Fig. 16) Release the lock pin making sure the pin engages into one of the height adjustment holes on the arm's frame.

The Joystick Controller length can be adjusted for more comfort. Loosen the thumb screw under the arm and adjust the length accordingly. Once a comfortable length has been achieved, retighten the thumb screw. (Fig. 17)



Fig. 16



Fig. 17

SPECIAL FEATURES (cont.)

Armrest (cont.)

The arms of your Alero can also be flipped back to aid in transferring in or out of your power wheelchair. To flip back the arm, disengage the lock by pressing on the locking lever and lift the arm up and back. (Fig. 18 & Fig. 19)



Fig. 18



Fig. 19

 WARNING!	NEVER DRIVE YOUR ALERO WHILE THE ARMS ARE FLIPPED UP AND/OR BACK . DOING SO MAY CAUSE BODILY INJURY OR PROPERTY DAMAGE.
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Swing-Away Footrest

Your Alero comes standard with swing-away footrest. These footrests are designed to swing away for easier transfers in and out of your power wheelchair and are detachable for transporting or storing your Alero. The foot plates on these footrests are also height adjustable giving you a more comfortable riding experience.

1. To swing your footrests to the side of your chair, remove calf strap, then disengage the locking mechanism on the inside of the footrest extension tube and swing to towards the outside of your power wheelchair. (Fig. 20)
2. To detach your footrest, swing footrest to outside of your power wheelchair and lift upwards.
3. To adjust the height of your foot plates, loosen the bolt on the bottom of the foot plate and slide the extension tube and foot plate up or down until you meet the desired height. (Fig. 21)



Fig. 20

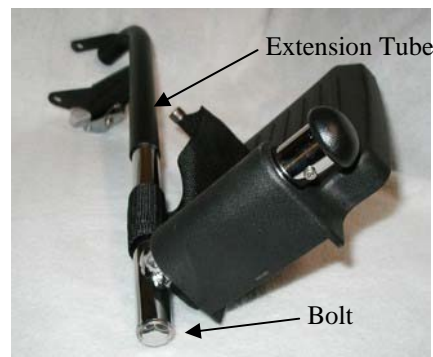




Fig. 21

SPECIAL FEATURES (cont.)







Footrest (cont.)

 WARNING!	DO NOT STAND ON THE FOOT PLATES OF YOUR ALERO.
 WARNING!	NEVER LIFT YOUR ALERO BY THE FOOTRESTS OR ANY OTHER DETACHABLE PART OR ACCESSORY. FAILURE TO DO SO MAY RESULT IN BODILY INJURY OR PROPERTY DAMAGE.

Joystick Controller

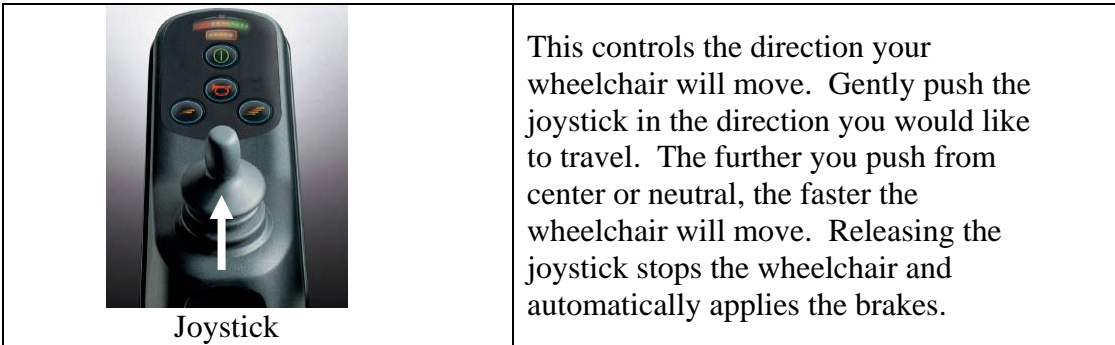
Your Alero is equipped with a joystick controller using proportional drive control. This means the further you push the joystick from the neutral position, the faster you will go. However, the top speed you can go is limited by the speed control buttons and the programmed settings of the unit.

Your joystick controller has the following features associated with it:

 Power Button	Use this button to turn your power wheelchair on or off. Press once for on. Press again for off. Do not use this button to stop your wheelchair except in the case of an emergency.
 Decrease Speed	Pushing this button decreases the speed of your Alero. The lights on the speed gauge will decrease with each time you press it signifying
 Increase Speed	Pushing this button decreases the speed of your Alero. The lights on the speed gauge will decrease with each time you press it signifying
 Horn	Push this button to operate the horn.
 Battery Gauge	This is a 10 segment display which indicates your power is on and gives the state of the charged battery. The more segments that are lit, the stronger the battery charge.
 Maximum Speed Indicator	This is a 5 segment display which indicates the maximum speed setting

SPECIAL FEATURES (cont.)

Joystick Controller (cont.)



Tires

Your Alero has been fitted with flat free tires. It will not be necessary to check tire pressure. You will need to check tire tread for wear.

Folding Your Alero

Your Alero is a fully foldable power wheelchair. This feature will help save space when transporting or storing your Alero. Please follow the procedures below to fold your Alero:

1. Disconnect and remove both batteries.
2. Fold up the footplates on both swing-away footrests.
3. Unlock the footrest and swing them to the side.
4. Remove each footrest and place them clear of the Alero.
5. Remove seat cushion and set aside.
6. Take hold of the strap in the middle of the seat upholstery. (Fig. 22) Depending on your strength capabilities you may want to use two hands.
7. Pull up on the seat upholstery. (Fig. 23)
8. Remove battery charger from its storage pouch on the rear of the seat.



Fig. 22



Fig. 23

SPECIAL FEATURES (cont.)

Folding Your Alero (cont.)

9. Release the lock on the seat back and fold down. (Fig. 24)



Fig. 24








The Alero power chair folds easily for storage and transportation.

GENERAL OPERATION

Before operating your Alero for the first time, we advise you to fully charge your batteries. Most batteries are not fully charged when shipped from the manufacturer. While in storage, batteries can lose some of their charge. Charging your batteries will ensure you get peak performance from your Alero from the very first time you use it.

Charging Your Batteries

The battery charger is an automatic current limiting device. It is designed to shut itself down when the batteries are fully charged. It is advisable to charge your batteries for a minimum of 10 hours per night to ensure a full return to the batteries storage capacity.

 WARNING!	ALWAYS MAKE SURE THE POWER IS OFF BEFORE ATTEMPTING TO CHARGE YOUR ALERO.
 WARNING!	DO NOT PLACE YOUR ALERO NEAR RADIATORS OR OPEN FIREPLACES WHILE CHARGING.
 WARNING!	DO NOT SMOKE OR PERMIT OPEN FLAMES IN THE IMMEDIATE AREA WHILE CHARGING.
 WARNING!	NEVER USE BATTERIES OTHER THAN THE RECOMMENDED TYPE FOR YOUR CHAIR.
 WARNING!	NEVER USE A CHARGER OTHER THAN THE ONE SUPPLIED BY GOLDEN TECHNOLOGIES.

1. Position your power wheelchair next to a standard wall outlet.
2. Make sure power is off. (there will be no lights lit on controller)
3. Remove battery charger and charger cord from storage pouch on the rear of the seat back. (Fig. 25)
4. Make sure charger is set to off position by pushing “O” side of power button. (Fig. 26)



Fig. 25



Fig. 26

GENERAL OPERATION (cont.)

Charging Your Alero (cont.)

5. Push receiver end of charger cord into charger. (Fig. 27)
6. Push plug end of the charger cord into a standard wall outlet.
7. Align prongs of charging plug on charger with the holes in the charging socket on front of your Joystick controller and insert charging plug. (Fig. 28)



Fig. 27



Fig. 28

8. Make sure all connections are secure.
9. Turn on the charger by pushing the "I" side of the power button. (Fig. 26) The fan inside the charger should run and the LED's will turn Red/Yellow.
10. The LED's will turn Red/Green, when charging has been completed.

Driving Your Alero

If operating for the first time, please practice driving your Alero in an open area. All power wheelchairs react differently and it is best getting used to how your wheelchair's responds in an area free of obstacles. Practice in an open area until you are comfortable operating your Alero. Then practice moving around obstacles. If you are uncomfortable or not happy with the response of your Alero, ask your Golden Authorized Dealer to adjust the programming to a level at which you are comfortable.

Before sitting in your Alero, please make sure:

- ✓ the power to your Alero is switched off.
- ✓ the wheel locks are in the engaged position. (Fig. 14)
- ✓ the brake release levers are in the engaged position. (Fig. 12)
- ✓ the battery charger is disconnected.
- ✓ you swing your footrest to the side of the chair.



1. Carefully transfer into your Alero making sure not to hit the power button.
2. After transferring, make sure you are comfortably positioned and the armrests and swing-away footrests have been adjusted to suit your needs.
3. Position the joystick controller so it is easy to reach. This will help to eliminate muscle fatigue during driving.
4. The lap positioning belt should be adjusted and fastened before you start to operate your Alero.

Note: Golden Technologies strongly suggests to ALWAYS wear your lap positioning belt. The lap positioning belt is a positioning belt only. It is not designed for use as a safety device.


GENERAL OPERATION (cont.)

Driving Your Alero (cont.)


5. Turn power on by pushing the power button once.
6. Set the speed control of your power wheelchair to slow.
7. Release the wheel locks.
8. Push the joystick gently forward, applying a steady even pressure. The further you push the joystick the faster the power wheelchair will go. To STOP, release the joystick so as to return it to the neutral or vertical position.
9. Directional control is achieved by gently moving the joystick in the direction you want to go. Push to the right to go right; push left to go left; and pull back to go in reverse.

 WARNING!	NEVER DRIVE AT A SPEED GREATER THAN YOUR ABILITY TO SAFELY CONTROL YOUR POWER WHEELCHAIR. REMEMBER THAT WET OR LOOSE SURFACES NEED GREATER CARE AND CONTROL.
 WARNING!	AVOID JERKY STOP / START MOTIONS. THIS MAY RESULT IN INCREASED BATTERY WEAR, TIRE WEAR AND THE RAPID WEARING OF THE MOTOR / GEARBOX.


Curbs and Other Small Obstacles

 WARNING!	Golden Technologies strongly advises against climbing curbs or any obstacle over 1½ inches in height. Failure to adhere to this advice will increase your chances of tipping and may cause bodily injury or property damage.
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At times, you will be faced with situations requiring you to climb or descend a curb or traverse over a small obstacle. In order to achieve this safely, approach the curb or obstacle head on making sure both front casters go over the curb or obstacle at the same time.

 WARNING!	Never traverse a curb or an obstacle at an angle. Failure to adhere to this advice will increase your chances of tipping and may cause bodily injury or property damage.
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Slopes or Ramps

 WARNING!	Never traverse a slope or ramp greater than 6°. Failure to adhere to this advice will increase your chances of tipping and may cause bodily injury or property damage.
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When operating you Alero on slopes or ramps, it is recommended the user:

1. Visually inspect the angle of the slope or ramp is less than 6 degrees.
2. Makes sure the slope or ramp is wide enough to allow the tires of your wheelchair to pass freely along the ramp.

GENERAL OPERATION (cont.)

Slopes or Ramps (cont.)

3. Makes sure the ramp is free of any debris or obstacles that may interfere with the safe passage of your power wheelchair.


If the slope or ramp meets the above conditions, it is recommended the user approaches the ramp at a reduced speed and head on. Once on the slope or ramp, the user should maintain a constant but safe speed over the entire length of the slope or ramp. If the ramp does not meet the above conditions, the user should ask for help from an assistant or find a safer, but alternate route.

MAINTENANCE

Your Alero needs some basic attention to ensure it provides reliable service. We recommend your power wheelchair is checked regularly for maintenance requirements and also receives a thorough annual check up by your Golden Authorized Dealer.

Regular Maintenance

1. Make sure power is off before performing any maintenance.
2. Check the joystick to make sure it is not bent or damaged and that it returns to center when you release it. See a Golden Authorized Dealer if there is any problem.
3. Check the rubber boot around the base of the joystick for damage. Visually inspect the boot. Do not handle or try to repair it. See a Golden Authorized Dealer if there is any problem.
4. Keep the upholstery and frame clean by wiping with a soft cloth, particularly after driving through wet, sandy or muddy conditions.

 WARNING!	Do not use harsh abrasive materials when cleaning, Do not apply liquid cleaners or solvents directly to the control box, battery charger or any electrical connections.
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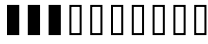







5. Keep wheels free from lint, hair, sand or carpet fibers.
6. Check motor connectors, joystick connectors and battery connectors for a tight fit and that they are secured properly. Make sure there are no frayed or cut wires. See a Golden Authorized Dealer if there is any problem.
7. Tighten the controller adjustment arm.
8. Charge your batteries regularly. Make sure the terminals are free of corrosion. Remember to always wear gloves when handling any battery.
9. Lightly oil axle pin, wheel axles and bearings once every three months.
10. Check tires for abnormal wear and tear.

Annual Maintenance

1. Check the controller programmer for the user's needs.
2. Check the wheelchair frame.
3. Check the upholstery for wear.
4. Check the tires for abnormal wear and tear.
5. Check the batteries and terminals.
6. Check all connectors for secure fits.
7. Check all cables for frayed, cut or exposed wires.
8. Check the joystick to make sure it is not bent or damaged and that it returns to center when you release it.
9. Check the rubber boot around the base of the joystick for damage. Visually inspect the boot.

DIAGNOSTICS

The PG VSI controller on your Alero will provide you with information should a malfunction happen with your power chair. The LED lights on the controller will flash in a certain sequence to inform you of a malfunction. If more than one fault exists, then the fault having the highest priority is indicated. All faults disable the controller and require the controller to be turned off then on again if the source of the fault is removed.

 One Bar	The batteries need charging or there is a bad connection to the batteries. Check the connection to the batteries. If the connections are good, charge the batteries.
 Two Bars	The left side motor has a bad connection. Check the connections to the left side motor. If the connections are good, call your Golden Authorized Dealer for service.
 Three Bars	The left side motor has a short circuit to a battery connection. Call your Golden Authorized Dealer for service.
 Four Bars	The right side motor has a bad connection. Check the connections to the right side motor. If the connections are good, call your Golden Authorized Dealer for service.
 Five Bars	The right side motor has a short circuit to a battery connection. Call your Golden Authorized Dealer for service.
 Six Bars	The wheelchair is being prevented from driving by an external signal. The exact cause will depend on the type of wheelchair you have; one possibility is the battery charger is connected
 Seven Bars	A joystick fault is indicated. Make sure the joystick is in the center position before switching on the control system.
 Eight Bars	A control system fault is indicated. Make sure all connections are secure.
 Nine Bars	The parking brakes have a bad connection. Check the parking brake and motor connections. Make sure the control system connections are secure.
 Ten Bars	An excessive voltage has been applied to the control system. This is usually caused by a poor battery connection. Check battery connections.

Note: If you detect there are problems with the motors, the battery charger, the controller or damage to the power wheelchair frame, it is highly recommended you contact your local Authorized Golden Dealer.

**GOLDEN TECHNOLOGIES
CONSUMER LIMITED WARRANTY
ALERO**

The following is granted only to the INITIAL CONSUMER who has purchased our product and COMMENCES on the Date of Purchase by the Consumer from the Merchant. The Consumer must have a warranty registration card filed with Golden Technologies to receive service.

Three-Year Limited Warranty:

For the period of three years, in the event if defective materials or workmanship, Golden Technologies will repair or replace at our option any of the following **structural frame components** found to be defective by an authorized Golden Technologies representative:

- ◆ Side Chair Frame

One-Year Limited Warranty:

For the period of one year, in the event if defective materials or workmanship, Golden Technologies will repair or replace at our option any of the following **structural frame components** found to be defective by an authorized Golden Technologies representative:

- ◆ Cross Braces
- ◆ Backrest Canes
- ◆ Foot Riggings
- ◆ Armrests
- ◆ Wheel Locks

For the period of one year, in the event if defective materials or workmanship, Golden Technologies will repair or replace at our option any of the following **drive train components** found to be defective by an authorized Golden Technologies representative:

- ◆ Motor/Gearbox Assembly
- ◆ Brake Assembly (electrical function only)

Note: An increase in operating noise of the motor/gearbox DOES NOT constitute a defect. With normal wear and tear, operating noise is expected to increase.

For the period of one year, in the event if defective materials or workmanship, Golden Technologies will repair or replace at our option any of the following **electronic assemblies** found to be defective by an authorized Golden Technologies representative:

- ◆ Battery Charger
- ◆ Electronic Controller
- ◆ Wire Harness (es)

Note: While charging batteries, it is normal for the battery charger to heat up. Heat coming from the battery charger DOES NOT constitute a defect.

For the period of one year, in the event if defective materials or workmanship, Golden Technologies will repair or replace at our option any of the following **parts** found to be defective by an authorized Golden Technologies representative:

- ◆ Bearings
- ◆ Rubber Components
- ◆ Plastic Components
- ◆ Bushings
- (excludes tires)
- (excludes battery cases)

**GOLDEN TECHNOLOGIES
CONSUMER LIMITED WARRANTY
ALERO**

Warranty Exclusions:

Golden Technologies does not provide warranty on any of the following items which may require replacement due to the normal wear and tear of day to day usage.

- ◆ Tires and Tubes ◆ Motor Brushes ◆ Brake Pads
- ◆ Bulbs/Fuses ◆ Upholstery

This warranty also excludes the following:

- ◆ Batteries (Please consult the battery manufacturer for any implied warranty)
- ◆ Damage caused by:
 - Battery fluid spillage or leakage;
 - Abuse, misuse, accident or negligence;
 - Improper operation, maintenance or storage;
 - Commercial use or use other than normal
 - Repairs and/or modifications made to any part without the specific consent of Golden Technologies;
 - Exceeding the specified weight capacity of the unit;
 - Accessories other than those supplied or approved by Golden Technologies;
 - Failure to adhere to product instructions;
 - Acts of God, such as lightning strikes, earthquakes, etc.....
 - Circumstances beyond the control of Golden Technologies.
- ◆ **ANY PARTS ALTERED OR REPAIRED BY UNAUTHORIZED PERSONS.**

Warranty Service:

Warranty Service must be performed by an authorized Golden Technologies representative. Golden Technologies reserves the right to replace warranted part(s) at our discretion. All labor charges, service calls, transportation costs or any other charge(s) associated with the installation of any warranted part(s) are the sole responsibility of the consumer. Consumers are not to return any item(s) to Golden Technologies without prior written authorization. Any damages incurred while warranted part(s) are in transport are the sole responsibility of the consumer.

There is no other express warranty.

Implied warranties, including those of merchantability and fitness for a particular purpose are excluded. Liabilities for consequential damages are excluded.

This warranty gives you specific rights and you may also have other rights which may vary from state to state.

Golden Technologies Product Registration Form

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Please fill out this product registration form. Failure to do so could result in significant delays should service be required.

Owner Information:

Name: _____

Address: _____

City: _____ **State:** _____ **Zip Code:** _____

Product Information:

Serial Number: _____

Purchased From: _____

City: _____ **State:** _____

Date Purchased: _____

Mail Completed Form To:

**Golden Technologies
401 Bridge Street
Old Forge, PA 18518**