

# ***Compass Sport***<sup>TM</sup>

## **Owner's Manual**



***Compass Sport***<sup>TM</sup>  
**Center-Wheel Drive Power Chair**  
**GP605 SS/GP605 CC**



**YOUR LIFE IN MOTION**

401 Bridge Street, Old Forge PA 18518  
Tel: (800) 624-6374 Fax: (800) 628-5165  
[www.goldentech.com](http://www.goldentech.com)



**FOR YOUR RECORDS**

Please fill in your *Compass Sport*<sup>TM</sup> information below. This information will be useful in the event that you ever need to contact Golden Technologies, Inc. concerning your power chair.

Your *Compass Sport*<sup>TM</sup>

Model \_\_\_\_\_

Serial Number \_\_\_\_\_

Date of Purchase \_\_\_\_\_

Body Color \_\_\_\_\_

Options \_\_\_\_\_

Your Golden Technologies, Inc. representative or dealer

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

Please remember to fill in and return your warranty registration card.

**ITEM CHECKLIST**

Your *Compass Sport*<sup>TM</sup> shipped with the items listed below.

Before assembly or disposal of the packaging material, please make certain you have received all the items listed.

1. Main Frame
2. Seat assembly with arms.
3. Joystick
4. Lap Belt
5. Batteries (Two – U1) included.
6. (2) Battery cables

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# INTRODUCTION

Congratulations on the purchase of your new *Compass Sport*<sup>™</sup> power chair. The Center-wheel drive *Compass Sport*<sup>™</sup> combines cutting-edge technology with an attractive design that is also highly functional in today's world. We at Golden Technologies, Inc. know that you have chosen a power chair that will give you years of dependable operation and also will enhance the quality of your life by providing you with the mobility to experience an active daily lifestyle.

Even though your new *Compass Sport*<sup>™</sup> is both user-friendly and designed for maximum maneuverability in even the tightest spaces, we ask that you please read, understand and follow all of the instructions and suggestions in this manual before you operate your *Compass Sports*<sup>™</sup> for the first time. The safe use of your new power chair is very important to us.

If you feel that you do not understand the instructions and suggestions 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 *Compass Sport*<sup>™</sup> please contact your local Golden Technologies, Inc. representative or call Golden Technologies, Inc. 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. Our Research and Development Department, our Quality Control Department, and our Engineering Department have used the latest product specifications and the latest product design information to produce your *Compass Sport*. Golden Technologies, Inc. reserves the right to implement changes into our product lines when those changes become desirable or necessary. If changes are implemented into our product line, there may be minor differences between the product you purchased and the illustrations and instructions in this owner's manual.

Please fill out and mail the enclosed warranty registration card on page 32. We at Golden Technologies, Inc. would appreciate hearing about the dependability of your *Compass Sport*<sup>™</sup> and about the convenience of mobility it has provided for you. We would also appreciate hearing about the service you received from your local Golden Technologies, Inc. representative.

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# SAFETY

Your *Compass Sport*<sup>™</sup> is a battery-operated personal mobility vehicle. Please exercise caution and consideration when you are operating it. Driving your *Compass Sport*<sup>™</sup> carefully and thoughtfully will help ensure your personal safety and the safety of other people.

**NOTE: Before operating you Compass Sport, please ensure you read and understand this owner's manual in its entirety. If any uncertainty exist after reading this manual, please ask for further instruction or training from your authorized Golden Dealer / Representative.**

## **BEFORE GETTING ON YOUR *Compass Sport*<sup>™</sup>**

- ◆ Check to be certain that the power is turned off. See “Operation” on pages 21-26. This will eliminate the possibility of accidentally activating the joystick and causing injury to yourself or to others.
- ◆ Check to be certain that your *Compass Sport*<sup>™</sup> is not in freewheel mode. See the “Operation” section on page 26.
- ◆ Flip up the armrests.
- ◆ If your chair is equipped with leg rests, move them to the sides.
- ◆ If your chair is equipped with a footrest, flip it to the “up” position.

## **GETTING ON YOUR *Compass Sport*<sup>™</sup>**

- ◆ Carefully seat yourself comfortably and securely on the seat.
- ◆ Adjust the leg rests or flip down the footrest.
- ◆ Flip down the armrests.
- ◆ Fasten the lap belt.

## **GETTING OFF YOUR *Compass Sport*<sup>™</sup>**

- ◆ Make certain that the power is turned off.
- ◆ Unfasten the lap belt.
- ◆ Flip up the armrests.
- ◆ Flip up the footrest, or move the leg rests to the sides.
- ◆ Carefully stand and step away from the chair.

## **MAXIMUM WEIGHT**

Your *Compass Sport*<sup>™</sup> has been rated to a maximum payload (passenger and anything else being carried on the *Compass Sport*<sup>™</sup>) of **300** pounds. Exceeding the maximum weight rating will void the warranty.



## **WARNING**

**Exceeding the maximum weight capacity will void your warranty and may result in injury to yourself or others.**

# SAFETY

## DRIVING ON AN INCLINE

- ◆ Drive with caution when attempting to negotiate any incline, even handicap access ramps.
- ◆ **Always** climb or descend a gradient by driving straight up or straight down the face of the slope.
- ◆ **Do not** traverse or drive across the face of a gradient.
- ◆ **Do not** attempt to negotiate an incline that is covered with snow, ice, cut or wet grass, leaves, or any other potentially hazardous material.
- ◆ **Do not** back down an incline.
- ◆ Try to keep your *Compass Sport™* moving when climbing an incline. If you do come to a stop, restart and accelerate slowly and carefully.
- ◆ **Do not** try to descend or climb an incline that is greater than the maximum incline stated in the specifications section of this manual.



## WARNING

**If, while you are driving down a slope, your chair starts to move faster than you feel is safe, gently release the joystick and allow your *Compass Sport™* to come to a stop. When you feel that you again have control of your power chair, adjust the speed control to a lower setting, then push the joystick forward and continue safely down the remainder of the slope.**

## MEDICATION

Always check with your physician to determine if any of the medications you are taking may affect your judgment and/or your ability to operate your *Compass Sport™*.

# SAFETY

- ◆ **Do not** attempt to use your *Compass Sport™* on an escalator. Always use an elevator.
- ◆ **Do not** carry passengers on your power chair.
- ◆ **Do not** operate your *Compass Sport™* if it is not functioning properly.
- ◆ **Use caution** when driving on soft or uneven surfaces such as grass, gravel, and on decks where there is no railing.
- ◆ **Never** drive on the roadway, except when you must cross the street.
- ◆ **Always** cross streets at intersections and use the most direct route, making sure that your path is clear and that you are visible to motor traffic.
- ◆ **Never** drive your *Compass Sport™* up or down a step or curb that is higher than 1 1/2 inches.
- ◆ **Never** back up or down a step or curb.
- ◆ **Never** operate your *Compass Sport™* while you are under the influence of alcohol.
- ◆ **Do not** operate or store your power chair where it will be exposed to rain, snow, mist, and below freezing temperatures.
- ◆ **Do not** operate your power chair on slippery, icy or salted surfaces.
- ◆ **Never** sit on your power chair when it is in freewheel mode and on an incline or decline.
- ◆ **Never** place your power chair into freewheel mode without a trained assistant present.
- ◆ **Do not** sit on your power chair when it is freewheel mode without the presence of a trained assistant.
- ◆ **Do not** modify your power chair in any way that is not authorized by Golden Technologies.
- ◆ **Do not** disassemble the tire. If disassembly is required, have your authorized Golden Compass Sport dealer perform any necessary maintenance or repair.
- ◆ **Do not attempt to** inflate the tires of your Golden *Compass Sport™*. Your Golden *Compass Sport™*, is equipped with foam-filled flat free tires that do not require inflation.

# SAFETY

Please be sure to follow this important warning when transferring onto or off of the Golden Compass Sport power wheelchair:



## WARNING

**NEVER TRANSFER ON OR OFF OF THIS POWER WHEELCHAIR USING THE SEAT BACKREST FOR SUPPORT DURING TRANSFER. THE SEAT BACK MAY FOLD DOWN AND MAY CAUSE YOU TO LOSE YOUR BALANCE AND COULD RESULT IN PERSONAL INJURY.**



## WARNING

**DO NOT ALLOW ANYONE EXCEPT AN AUTHORIZED GOLDEN TECHNOLOGIES, INC. REPRESENTATIVE TO CONNECT ANY ELECTRICAL OR MECHANICAL DEVICE TO YOUR COMPASS SPORT™. UNAUTHORIZED ACCESSORIES WILL VOID THE WARRANTY AND MAY CAUSE INJURY.**

# 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 computer 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 *Compass Sport*<sup>™</sup>**

All electrically powered vehicles, including power chairs are susceptible to EMI/RFI. This interference could result in abnormal, unintended movement of a power wheelchair.

The FDA has determined that each make and model of power chair can resist EMI/RFI to a certain level. The higher the level of immunity, 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 immunity to EMI/RFI, which would provide useful protection against common sources of interference.

Based on that determination, the FDA has written to the manufacturers of power wheelchairs and asked them to test their new products to be certain that they provide a reasonable degree of immunity to EMI/RFI. The FDA suggests that power chairs should have an immunity level of 20 V/m.

The immunity level of the *Compass Sport*<sup>™</sup> is 20 V/m.

## **EMI/RFI RECOMMENDATIONS**

- ◆ Do not turn on or use hand-held personal electronic communication devices such as cellular phones, walkie-talkies, and CB radios while your power chair is turned on.
- ◆ Be aware of any nearby transmitters (radio, television, microwave, etc.) on your intended route and avoid operating your chair close to any of those transmitters.
- ◆ Turn off the power if your *Compass Sport*<sup>™</sup> is going to be in a stationary position for any length of time.
- ◆ Be aware that adding accessories or components or modifying your power chair may make it more susceptible to EMI/RFI.
- ◆ If unintended movement or brake release occurs, turn your power chair off as soon as it is safe to do so.
- ◆ Report all incidents of unintended movement or brake failure to your Golden representative or to Golden Technologies, Inc. at (800) 624-6374.



## **WARNING**

**Turn off your power chair as soon as it is safely possible if unintended or uncontrollable motion occurs or if unintended brake release occurs.**

# SPECIFICATIONS

	GP605 SS	GP605 CC		
<b>Weight</b>				
Base	88 lbs	88 lbs		
Seat Arms	12 lbs	12 lbs		
Seat (18 X 18 Van Pan)	30 lbs			
Seat (18 X 18 Captain's Highback)		32 lbs		
Batteries (each) (2) required (weight varies by manufacturer)	U1 - 24 lbs	U1 - 24 lbs		
Total Weight with U1 Batteries	184 lbs	182 lbs		
<b>Dimensions</b>				
Length	39"	39"		
Width (outside of tires)	25.4"	25.4"		
<b>Maximum Incline</b>	6 degrees	6 degrees		
<b>Maximum Speed</b>	4.1 mph	4.1 mph		
<b>Maximum Load Capacity</b>	300 lbs	300 lbs		
<b>Turning Radius</b>	21.5 "	21.5 "		
<b>Wheel Sizes</b>				
Drive Wheels (2)	10" X 3.5"	10" X 3.5"		
Casters (4)	6" X 2"	6" X 2"		
<b>Maximum Seat Back Angle</b>	115 degrees	115 degrees		
<b>Armrest Width</b> (Adjustable)	Width of Seat +6"	Width of Seat +6"		
<b>Armrest Height</b> (Adjustable) (Measured from seat cushion)	8", 9". & 10"	8", 9". & 10"		
<b>Seat Heights</b> (Ground to Top of Seat)				
Minimum Seat Height	21"	18"		
Maximum Seat Height	23"	23"		
<b>Seat Back Heights</b> (Ground to Top of Headrest)				
Headrest Not Extended (Van Pan or Captain's Highback)	45.5"- 47.5"	45.5"- 47.5"		
Headrest Extended (Van Pan or Captain's Highback)	49" - 51"	49" - 51"		
Without Headrest (Van Pan or Captain's Highback)	38.5" – 40.5"	38.5" – 40.5"		
<b>Footrest</b> (Adjustable Height) (Measured from top of footrest to ground)	4", 4 3/4", 5 1/4", 5 3/4", 6 1/2"	4", 4 3/4", 5 1/4", 5 3/4", 6 1/2"		
<b>Footrest</b> (Adjustable Angle)	-4 degrees to 17 degrees	-4 degrees to 17 degrees		
<b>Controller</b> - Programmable	Dynamic Shark	Dynamic Shark		
<b>Charger</b> - Off Board	Input 115/230 VAC 60/50 Hz, 3/1.5A  Output 24 VDC/3A	Input 115/230 VAC 60/50 Hz, 3/1.5A  Output 24 VDC/3A		
<b>Battery Types (recommended)</b>	(2) U1	(2) U1		
<b>Shroud Colors (all models)</b>	Red and Blue			

Note: Golden Technologies reserves the right to alter or change any specification without prior notice.

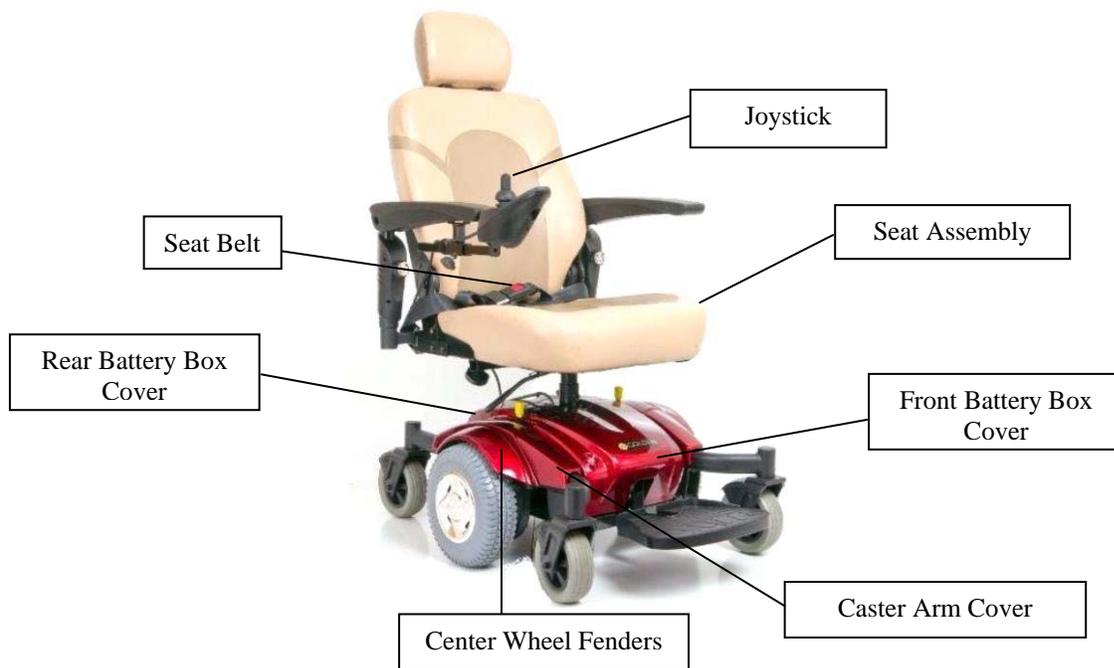
# ASSEMBLY/DISASSEMBLY

Your *Compass Sport*™ is shipped partially disassembled in order to maximize the protection of all its parts during the shipping process. Please follow the instruction below to quickly and easily assemble the power chair for your use.

**NOTE: You will need only basic tools. If you do not have the required tools, or if you do not feel capable of safely assembling your power chair, please contact your local Golden Technologies, Inc. representative.**

## Main Components

1. Frame with power module, controller cable & connectors for battery cables
2. Battery box covers
3. Seat assembly
4. Joystick
5. Batteries (Two – U1)
6. Seat Belt



**Joystick**



**Batteries**

# ASSEMBLY / DISASSEMBLY

## SEAT INSTALLATION/REMOVAL

**Note: The seat assembly weighs about 46 pounds. Please ask for help if you do not feel capable of safely lifting that much weight. Removal of arms will significantly reduce the weight of seat.**

### INSTALLATION

1. To install the seat, align the seat post stinger on the bottom of the seat with the hole in the seat post receiver on the chair. See figures 3 and 4 on page 13.
2. Lift the seat lock lever and while holding the lever rotate the seat until it aligns and seats into place. See figure 2 on page 13.
3. Attach arms by loosening the arm width adjustment knobs (See figure 16 on Page 21). Insert left arm into left receiving tube and tighten the arm width adjustment knob. Repeat with right arm.
4. Attach joystick to right arm. (See Joystick Installation/Removal on page 14.)
5. Connect the controller cable to the joystick and use the Velcro® tie-wraps to secure the cable to the armrest bracket.
6. Lift the Backrest Angle Adjustment Lever (See Figure 1 on page 13) and while holding the lever, lift the seat back to an upright angle.

### REMOVAL

1. Disconnect the controller cable from the joystick. See figure 6 on page 14. Remove Velcro® tie-wraps from the controller cable.
2. Remove arms by loosening the arm width adjustment knobs and pulling arms out of the receiving tubes.
3. With one hand brace the seat back. With the other hand lift the Backrest Angle Adjustment Lever and while holding the lever, lower the back of the seat to the seat.



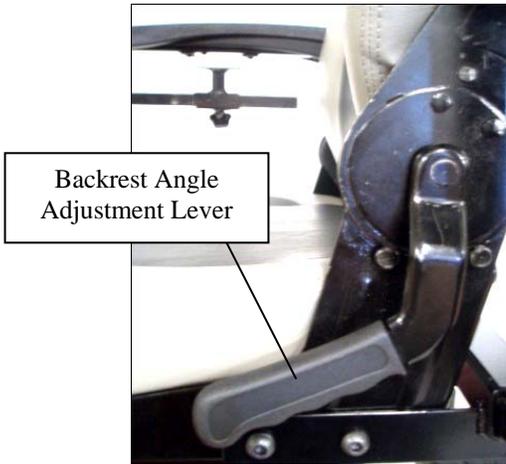
**WARNING** Lifting the Backrest Angle Adjustment Lever will cause the back to automatically close towards the seat. Improper handling may result in injury.

4. Lift the seat lock handle and while holding the lever rotate the seat and lift the seat off the seat post receiver. See figure 2 on page 13.

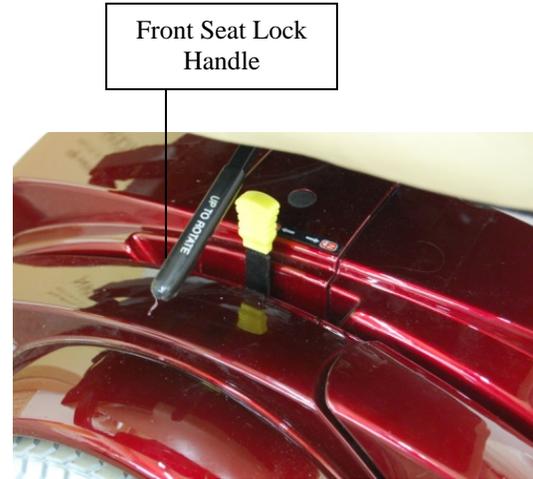


**WARNING** BE SURE THE SEAT IS CORRECTLY INSTALLED AND LOCKED BEFORE OPERATING YOUR POWER CHAIR.

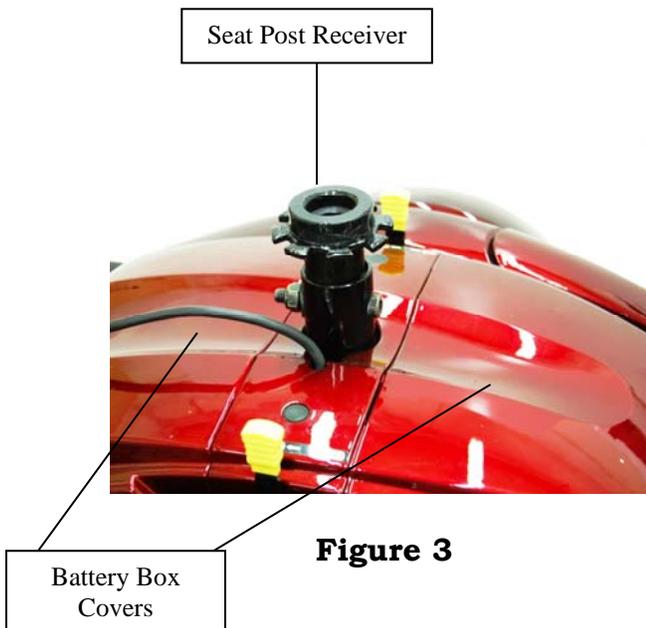
# ASSEMBLY / DISASSEMBLY



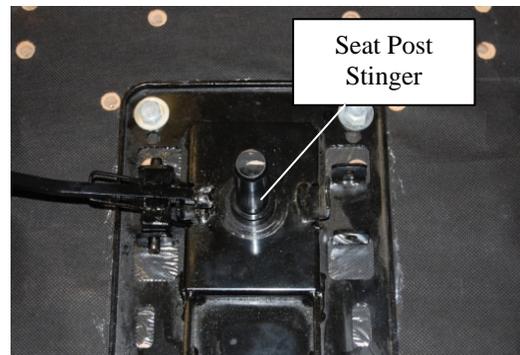
**Figure 1**



**Figure 2**



**Figure 3**

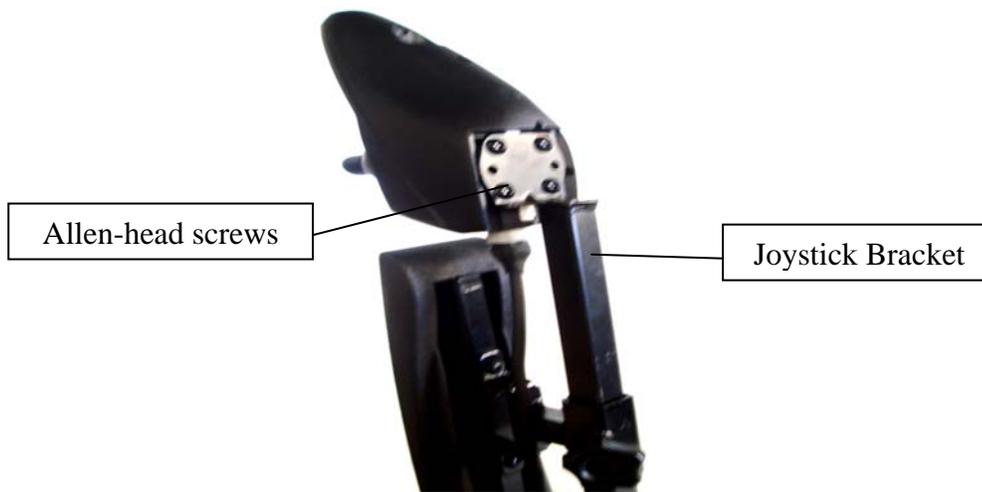


**Figure 4**

# ASSEMBLY / DISASSEMBLY

## JOYSTICK INSTALLATION

1. Position the joystick on the joystick bracket. Match the holes in the joystick with the holes in the bracket. See figure 5.
2. Insert the 4 Allen-head screws with lock washers through the bracket and into the holes in the joystick.
3. Use an Allen wrench to tighten the screws.
4. Connect the joystick cable to the controller cable. See figure 6.
5. Use the provided Velcro® tie-wraps and under arm clip to secure the controller cable to the armrest bracket.
6. To disassemble, turn off joystick controller and then reverse the process above.



**Figure 5**



**Figure 6**

# ASSEMBLY / DISASSEMBLY

## Accessing the batteries



After removing the seat, locate the (2) "Battery Box Covers", on front and rear. Remove one of the covers by lifting up on the outer edge of the cover.



Remove the second "Battery Box Cover" by lifting up on the outer edge of the cover.

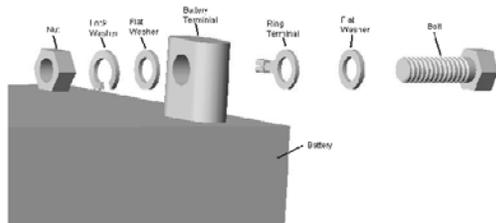


Note: On the inside of the battery box cover there is a battery connection diagram.

# ASSEMBLY/ DISASSEMBLY

## BATTERY INSTALLATION

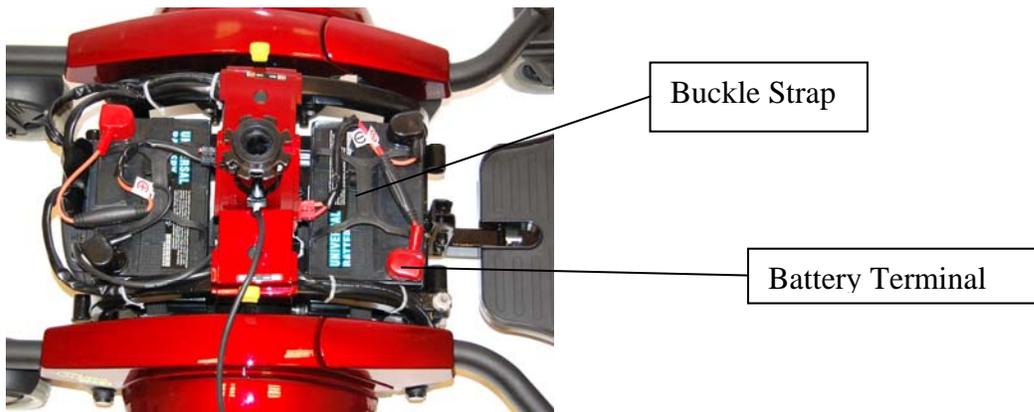
**Note: The batteries weigh 24 pounds each. (Battery weights may vary depending on the manufacturer). Please ask for help if you do not feel capable of safely lifting that much weight.**



**Figure 7**



**Figure 8**



**Figure 9**

1. Use the screws, washers, and nuts provided to connect the positive (red booted) connector of each cable to the positive (+) terminal of each battery. See figure 7 and figure 8.
2. Use the screws, washers, and nuts provided to connect the negative (black booted) connector of each cable to the negative (-) terminal of each battery.
2. Place the batteries in the battery box. Be certain to position the terminals on each battery away from the seat post on the unit as shown in Figure 9. Secure the batteries in place using the buckle straps.
3. Connect the connectors of each battery cable to the corresponding connector on the main wire harness. See figure 9
4. Cover the battery terminals with the protective caps provided. See figure 9.
5. Install both Battery Box Covers.
6. To disassemble, please reverse the above process.

# COMFORT SETTINGS

You may be spending a great deal of time on your *Compass Sport*™. To provide you with the maximum seating comfort, Golden Technologies, Inc. has designed this power chair to incorporate the following adjustments for operator comfort.

## COMFORT SETTINGS

1. Seat height
2. Headrest height
3. Backrest angle
4. Footrest angle
5. Footrest height
6. Joystick bracket length



### WARNING

**Make certain that the power to your *Compass Sport*™ is turned off before making any adjustments, to eliminate the risk of the joystick being accidentally bumped and activating the power chair.**

If you do not feel capable of safely making these adjustments, please contact your local Golden representative.

### Seat height adjustment

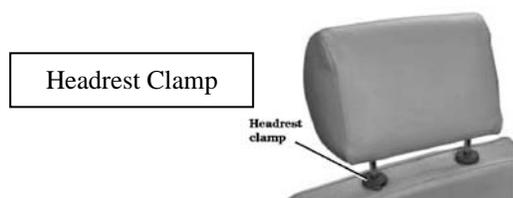
The seat post is a design that is adjustable in height. Adjustment is made by removing the seat post bolt, raising or lowering the seat post to the desired height and re-installing the seat post bolt.



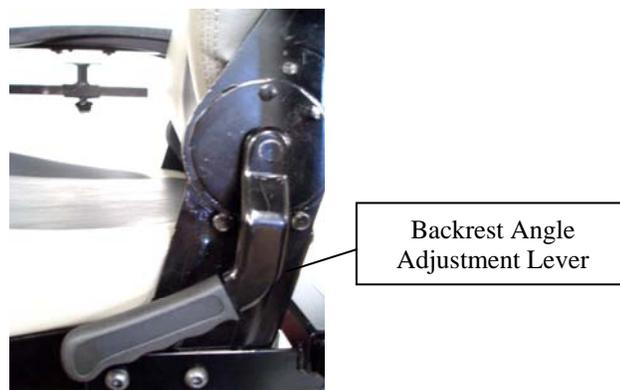
# COMFORT SETTINGS

## HEADREST HEIGHT ADJUSTMENT

1. Standing behind the chair, push and then release the clamp on the left post of the headrest while you are pulling up or pushing down on the head rest. See figure 10.
2. The headrest will “click” to a stop in one of the preset positions.
3. Repeat step 1 until the headrest is at the desired height.



**Figure 10**



**Figure 11**

## BACKREST ANGLE ADJUSTMENT

**NOTE: The backrest can be folded down to minimize chair height during transport.**

1. Pull up on the adjustment lever (see figure 11) and push against the backrest until the backrest is in the desired position.
2. Release the lever.
3. To return the backrest to the upright position, pull up on the lever and move the backrest to the desired position.

# COMFORT SETTINGS

## FOOTREST ANGLE ADJUSTMENT

1. Fold the footrest upward for easy access to the angle adjustment bolt. See figure 12
2. Turn the jam nut counter-clockwise with a 17mm wrench to loosen.
3. Use a 5/16" Allen wrench to turn the adjustment bolt. Turn the adjustment bolt counter-clockwise to increase the footrest angle. Turn the adjustment bolt clockwise to decrease the footrest angle.
4. When the desired footrest angle is reached, re-tighten the jam nut.



**Figure 12**

## FOOTREST HEIGHT ADJUSTMENT

1. Remove front cover.
2. Use a 13mm socket and 5mm Allen wrench to remove the bolts indicated in figure 13.
3. Slide the footrest to the desired height.
4. Align the bolt holes in the footrest and the footrest bracket.
5. Install and tighten the bolts.



**Figure 13**

# COMFORT SETTINGS

## EXTENDING THE FOOTREST

Refer to the pictures below.

1. Insert a 5mm Allen wrench from the top side into the (2) adjustment screws.
  2. Place a 10mm wrench on the backside onto the (2) nuts and loosen the (2) footrest adjustment screws.
  3. Slide the footrest plate to the desired position and tighten the adjustment screws.
- NOTE: The maximum extended length is not at the end of the slots.



Top View

Footrest  
Adjustment  
Screws (5mm)



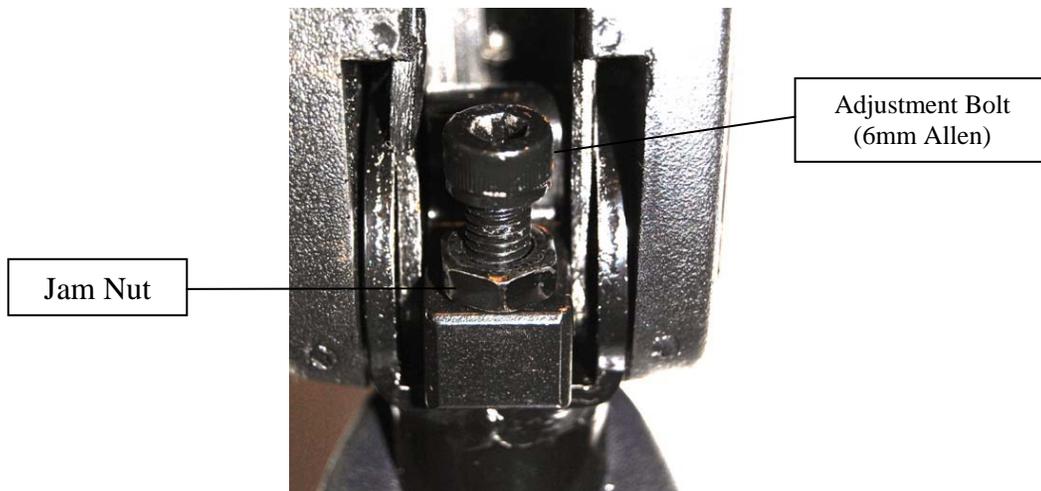
Bottom View

Footrest  
Adjustment  
Nuts (10mm)

## ARMREST ANGLE ADJUSTMENT

Refer to the picture below.

1. Lift armrest up.
2. Turn jam nut counter-clockwise to loosen.
3. Turn the adjustment bolt using a 6mm Allen wrench to raise or lower the armrest-angle. Turning the bolt counter-clockwise will raise the angle. Turning the bolt clockwise will lower the angle. Turn until desired angle is reached.
4. Re-tighten jam nut by turning clockwise.
5. Repeat steps 1-4 on the other armrest.



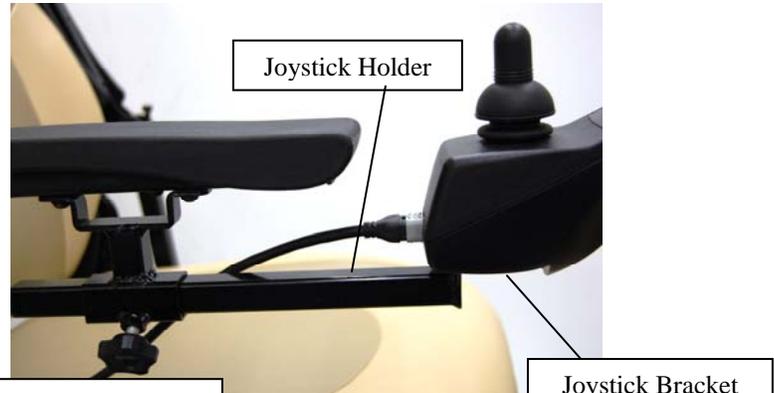
Jam Nut

Adjustment Bolt  
(6mm Allen)

# COMFORT SETTINGS

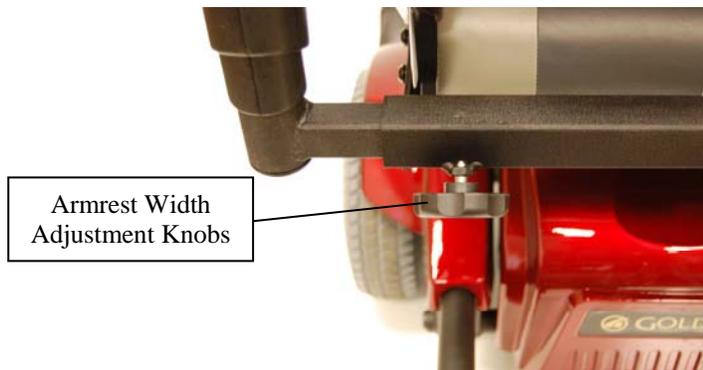


**Figure 14**



Joystick Position Adjustment Knob

**Figure 15**



**Figure 16**

## ARMREST HEIGHT ADJUSTMENT

1. Loosen “Armrest Height Adjustment Knob” until you can pull it outward. See figure 14. **Note:** The knob is retained in its housing with a spring.
2. While keeping the knob pulled, raise or lower the armrest to the desired position then release the knob. After releasing the knob, you may have to raise or lower the armrest until it aligns with the nearest locking position.
3. Tighten the height adjustment knob.

## JOYSTICK BRACKET LENGTH ADJUSTMENT

1. Loosen the adjustment knob. See Figure 15.
2. Slide the joystick holder in or out to the desired position.
3. Tighten the adjustment knob.

## ARMREST WIDTH ADJUSTMENT

1. Loosen the adjustment knobs at the rear of the seat. See Figure 16.
2. Slide the arms in or out.
3. Tighten the adjustment knobs. See Figure 16.

# OPERATION

Your *Compass Sport™* is simple to operate. However, for your safety and the safety of others, Golden Technologies, Inc. recommends that you carefully read and understand the following operating instructions. We also recommend that you practice operating your *Compass Sport™* in an area free of any obstacles. Once you have gained confidence in your ability to control your power chair, you will more easily be able to operate it in normal daily conditions.

## A WORD OF CAUTION

Before turning on the power of your *Compass Sport™*, take note of your environment and set your speed control accordingly. (See “The Speed Control Buttons” Figure 17) For indoor driving, we recommend that you select the lowest speed setting. For outdoor driving, we recommend that you select a speed setting at which you feel comfortable, safe, and in control of your power chair. Familiarize yourself with the features of your *Compass Sport™* described below and follow the instructions to safely operate your power chair.

## DRIVING: The Joystick On/Off Switch

Push the on/off button to turn on the power to your *Compass Sport™*. See figure 17. The 8 LEDs (Light Emitting Diodes) will flash once and a number of LEDs will remain depending on the state of the battery charge.

◆ The LED array, which functions as the battery charge gauge, will light up. See “Battery Charging” on page 28.

Pressing the on/off button again will turn off the power to your *Compass Sport™*.



**Figure 17**

# OPERATION

## The Speed Control Buttons

These buttons provide you with a way to control the maximum speed of your *Compass Sport*<sup>™</sup>.

- ◆ Press the “turtle” button repeatedly to set your chair’s speed to the slowest setting (recommended for indoor operation). Slowest speed is indicated by one (1) lit LED section on the speed indicator scale.
- ◆ Press the “rabbit” button repeatedly to set your chair’s speed to its highest setting. Highest speed is indicated by five (5) lit LED sections on the speed indicator scale.

**NOTE: For your safety, the controller automatically sets the reverse speed, acceleration, and deceleration in proportion to the speed control setting.**

## The Joystick

The joystick (see figure 17 on previous page) controls the speed (up to the maximum limit set by the speed control buttons) and direction of your power chair.

**NOTE: When you are not pushing on the joystick, or when you release the joystick, the joystick will automatically return to the neutral position, the chair will decelerate, as the electromagnetic brakes are applied, and come to a smooth stop.**

Pushing the joystick away from the neutral (center) position will move your *Compass Sport*<sup>™</sup> in the direction that the joystick is pushed.

- ◆ The farther forward or backward you push the joystick, the faster your power chair will go.

To operate your power chair, gently push the joystick in the direction in which you want to travel.

- ◆ Gentle operation of the joystick will provide you with smoother changes in speed and direction.
- ◆ Sharp or jerky operation of the joystick will result in quick and drastic changes in direction and speed.

# OPERATION

## The Joystick Display

The joystick display (see figure 17 on page 22) is a multifunctional visual display. This display provides three types of information.

1. On/Off status
2. Battery charge level
3. Fault diagnostics

### 1. On/Off Status

When you turn on the power to your *Compass Sport*<sup>™</sup>, the LED array will light up (see figure 17 on page 22).

- ◆ If the LED array is not lit, the controller and the power chair are not in operating mode.

### 2. Battery Charge Level

The joystick LED array is composed of eight LED's.

- ◆Two red
- ◆Two amber
- ◆Four green

When all eight (8) LEDs are lit continuously, there is a full charge on the batteries. As you use your power chair and the batteries discharge, LEDs in the array will begin to turn off in descending order. A single lit red LED indicates the lowest state of operable charge on the batteries. The batteries should be charged immediately.

**NOTE: To ensure a dependable battery charge, we recommend that you charge the chair's batteries overnight. Doing this will prolong the life of the batteries and spare you loss of operational power while you are using your chair normally.**

### 3. Fault Diagnostics

The joystick display is also designed to help you diagnose any problems with the electrical components of your power chair. The fault code LED does this by flashing on and off in a coded sequence.

See the table on the following page to see the list of diagnosable problems and the flash code sequence.

# OPERATION/DIAGNOSTICS

*For Compass Sport Units with the SHARK Controller*

**Flash codes indicate the nature of an abnormal condition directly from the SHARK LED. Without the use of any servicing tools, the condition can be simply diagnosed.**

Flash Code	Description	
1	User Fault	Possible stall timeout or user error. Release the joystick to neutral and try again.
2	Battery Fault	Check the batteries and cabling. Try charging the batteries. Batteries may require replacing.
3	Left Motor Fault	Check the left motor, connections and cabling.
4	Right motor fault	Check the right motor, connections and cabling.
5	Left park brake fault	Check the left park brake, connections and cabling.
6	Right park brake fault	Check the right park brake, connections and cabling.
7	SHARK Control Unit Fault	Check the SHARK Communications Bus connections and wiring. Replace the Control Unit
8	SHARK Power Module Fault	Check SHARK connections and wiring. Replace the Power Module.
9	SHARK Communications Fault	Check SHARK connections and wiring. Replace the SHARK Control Unit.
10	Unknown Fault	Check all connections and wiring. Consult a service agent.

**The SHARK modules are not user serviceable. Do not attempt to repair Shark modules.**

Note that joystick OONAPU (Out Of Neutral At Power Up) is not a fault. Simply by removing your hand from the joystick and allowing it to return to the neutral position, the fault will immediately clear. If the condition persists after removing your hand, the joystick may be damaged. Consult a Service agent.

# OPERATION



**Figure 18**

## **FREEWHEEL MODE**

- ◆ To disengage the gears and put your power chair in freewheel mode, pull the freewheel levers forward towards the front of your chair. See figure 18.
- ◆ To re-engage the gears and take your chair out of freewheel mode, push the levers back towards the rear of your chair. See figure 18.

- 1. Never put your power chair in freewheel mode when it is on a slope or incline of any type.**
- 2. Never put your power chair in freewheel mode while you are operating your power chair.**

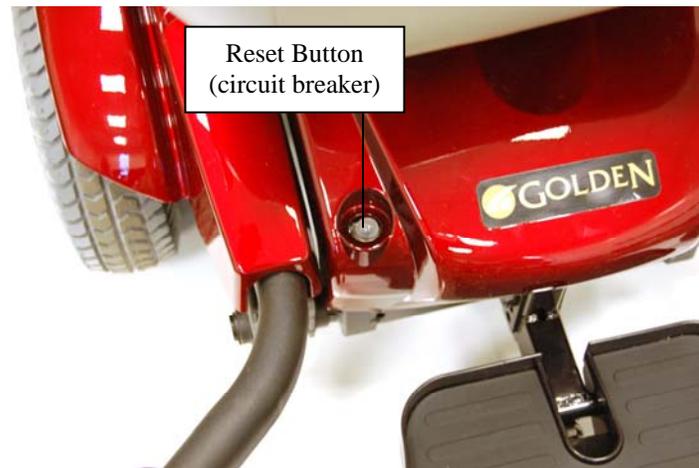
## **THERMAL ROLLBACK**

Your *Compass Sport*<sup>™</sup> is equipped with a safety system. A microprocessor monitors the operating temperatures of the controller. In the event of excessive heat occurring in the controller, the controller will decrease the speed of your chair. This is done to reduce the load on the electrical system and allow the components to dissipate heat. The controller will automatically set the chair's speed back to full normal when the operating temperature returns to normal levels.

## **THE MAIN CIRCUIT BREAKER**

The main circuit breaker is another safety feature incorporated into your *Compass Sport*<sup>™</sup>. This device monitors the amount of current being drawn from the batteries when the chair is in use. When the motors are heavily strained and too high a current draw is being placed on the batteries, the main circuit breaker will trip and bring your chair to a stop. See figure 19 on page 27.

# OPERATION



**Figure 19**

## **Reset Button**

If the main circuit breaker trips, please wait for approximately 1 minute and then push the reset button to reset the main circuit breaker. See figure 19.

**NOTE: Usually, the thermal rollback feature is more sensitive than the main circuit breaker. We recommend that you turn off the power to the chair and wait for five minutes when the chair suddenly loses speed or power. Doing so will allow the overheated electrical components to cool to their normal operating temperatures.**

## **SWING-AWAY DESK ARM – Option**

The *Compass Sport™* swing-away desk arm option will provide you with the convenience of positioning your chair close to a work surface such as a table or desk.

To swing the desk arm simply push on the side of the joystick until the joystick swings to the retracted position. See figures 20, 21, and 22.



**Figure 20**



**Figure 21**



**Figure 22**

# BATTERY CHARGING



## WARNING

**You must use only the charger that is supplied with your *Compass Sport™*. The use of any other charger on this power chair will void the warranty. Using unauthorized chargers may also result in severe damage to the batteries and/or damage to the chair. Using the wrong charger may also be a hazard.**

## Operational Range

Depending on the use, the terrain, and the driving conditions, the U1 batteries of your *Compass Sport™* will provide up to 15.6 miles of operation with a user weight of 200 lbs.

- ◆ We recommend that you charge the batteries when necessary. Battery charge should be treated similarly to fuel in a car. You would not go on a long trip with fuel low or fill up when almost full.

## CHARGING THE BATTERIES

Your *Compass Sport's* charging system is designed for your safety and for your convenience. Follow the steps below to recharge the batteries.

1. Position your *Compass Sport™* close to a standard wall electrical outlet.
2. Turn off the power on the joystick.
3. Remove the charger from the SEAT POCKET. See figure 23.
4. Insert the matching charger plug into the joystick's charging socket that is located at the front of the joystick. See figure 24.
5. Insert the plug at the other end of the charger power cord into a standard electrical wall outlet.
6. Disconnect the charger power cord from the wall outlet and from the joystick charging socket when the batteries are fully charged.

**NOTE: The batteries should be fully charged in eight hours. A full charge is indicated when the green light on the battery charger side panel turns on and all 8 joystick LEDs are lit when joystick is turned on.**



**Figure 23**



**Figure 24**

# CARE AND MAINTENANCE

Your *Compass Sport*<sup>™</sup> is designed to require minimal maintenance. We recommend that you periodically check the following:

**Tire Tread:** Regularly visually inspect the tire tread. If the remaining tread is less than 1/32 of an inch, have your local Golden representative replace the worn tires.

**Joystick and Controller:** Protect the joystick and controller from adverse weather conditions. Moisture will damage the controller and void your power chair's warranty.

**Battery Terminals:** Regularly inspect the condition of the battery terminals. Make certain that they are not corroded. Also check to see that the terminals are securely tightened.

**Cleaning:** Use only a water-dampened soft cloth to clean the ABS shroud. The shroud has a protective coat that is very easy to maintain.

**NOTE: Do not use free-flowing water to clean your *Compass Sport*<sup>™</sup>. Water and extreme temperatures are the main elements that can adversely affect your power chair and its performance.**

## **Water, Rain, Sleet, and Snow**

Water, in any form, will cause electronic malfunction or corrosion of the electrical components, connections, and the chair frame.

## **Temperature**

- ◆ At extremely low temperatures, the batteries of your power chair may freeze, preventing your *Compass Sport*<sup>™</sup> from operating.
- ◆ At extremely high temperatures, your power chair may operate at slower speeds due to the controller's thermal rollback feature that is designed to prevent damage to the motors and to the other electrical components of the chair.

## Consumer Limited Warranty *Power Wheelchairs*

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

The warranty covers the following power wheelchair models unless otherwise noted:

- |                   |                       |                     |
|-------------------|-----------------------|---------------------|
| ◆ Alanté Jr GP200 | ◆ Compass GP600       | ◆ Compass TRO GP615 |
| ◆ Alante' GP201   | ◆ Compass GP601       | ◆ Compass GP620     |
|                   | ◆ Compass Sport GP605 |                     |

### *Limited Lifetime Warranty:*

In the event of 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:

- |                |                |              |
|----------------|----------------|--------------|
| ◆ Steel Frame* | ◆ Frame Welds* | ◆ Seat Post* |
|----------------|----------------|--------------|

*\*The GP615TRO and the GP620 are warranted for FIVE YEARS.*

### *One-Year Limited Warranty:*

For the period of one year from the date of purchase, in the event of 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:

- |                  |                |            |
|------------------|----------------|------------|
| ◆ Caster Beam    | ◆ Caster Forks | ◆ Footrest |
| ◆ Anti-Tip Forks | ◆ Armrests     |            |

For the period of one year from the date of purchase, in the event of 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 from the date of purchase, in the event of 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:

- |                         |                   |  |
|-------------------------|-------------------|--|
| ◆ Electronic Controller | ◆ Battery Charger | ◆ Wire Harness(es)<br>(excludes boot covers) |
|-------------------------|-------------------|--|

**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.**

## **Consumer Limited Warranty** **Power Wheelchair (continued)**

For the period of one year from the date of purchase, in the event of 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:

- |   |   |   |
|---|---|---|
| <ul style="list-style-type: none"> <li>◆ Bearings</li> <li>◆ Bushings</li> <li>◆ Seat swivel mechanism</li> </ul> | <ul style="list-style-type: none"> <li>◆ Rubber Components<br/>(excludes tires and all wear parts)</li> </ul> | <ul style="list-style-type: none"> <li>◆ Plastic Components<br/>(excludes body &amp; all wear parts)</li> </ul> |
|---|---|---|

Items not mentioned or listed are covered at the discretion of Golden Technologies. Any accessories, standard or optional, supplied by Golden Technologies, are covered for a period of one year from the date of purchase with the particular unit.

### **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:

- |  |   |  |
|--|---|--|
| <ul style="list-style-type: none"> <li>◆ Tires and Tubes</li> <li>◆ ABS Plastic Shrouds</li> <li>◆ Armrest Pads</li> </ul> | <ul style="list-style-type: none"> <li>◆ Motor Brushes</li> <li>◆ Bulbs/Fuses</li> <li>◆ Battery Cases</li> </ul> | <ul style="list-style-type: none"> <li>◆ Brake Pads</li> <li>◆ Upholstery</li> </ul> |
|--|---|--|

This warranty also excludes the following:

- ◆ Batteries (Please consult battery manufacturer for any implied warranty)
- ◆ Loss or theft of components
- ◆ 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 the product instructions
  - Acts of Nature, such as lightning strikes, earthquakes, etc....
  - Circumstances beyond the control of Golden Technologies.

### ◆ **ANY PARTS ALTERED OR REPAIRED BY UNAUTHORIZED PERSON.**

### **Warranty Service:**

Warranty Service must be performed by an authorized Golden Technologies representative. Golden Technologies reserves the right to replace warranted part(s) with refurbished or new 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 responsibility of the consumer. Warranty is for the replacement of the parts only and does not include freight for the replacement parts. 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 *Compass Sport*<sup>TM</sup> Warranty Registration

Please type or print.

Serial # _____	Date Purchased _____
Owner Name _____	
Address _____	
City _____	State _____ Zip _____

**Failure to return warranty registration card could result in significant delays in obtaining service.**

### Additional Required Owner Information

Please indicate your understanding of your Golden *Compass Sport*<sup>TM</sup> by completing the following information.

\_\_\_\_\_ I have read and fully understand:

\_\_\_\_\_ My Golden *Compass Sport*'s Owner's Manual, especially the sections on operating instructions, safety guidelines, maintenance and battery instructions.\*

\_\_\_\_\_ *Compass Sport*<sup>TM</sup> Warranty

\* Battery Instructions - only sealed lead acid, GEL-cell or AGM type batteries should be used. Batteries must also be sealed, deep cycle, and maintenance free or battery will hinder vehicle performance and void the warranty.

\_\_\_\_\_ My Golden *Compass Sport*<sup>TM</sup> dealer has instructed me on how to operate my power chair.

**Signature** \_\_\_\_\_

**Telephone** (\_\_\_\_\_) \_\_\_\_\_

**Please Mail Completed Registration Form To:**

Golden Technologies  
Warranty Registration Department  
401 Bridge Street  
Old Forge, PA 18518







401 Bridge Street, Old Forge PA 18518  
Tel: (800) 624-6374 Fax: (800) 628-5165  
[www.goldentech.com](http://www.goldentech.com)