The symbols below are used throughout this owner’s manual and on the power chair to identify warnings and important information. It is very important for you to read them and understand them completely.

**WARNING!** Failure to follow designated procedures can cause either personal injury, component damage, or malfunction (black symbol on yellow triangle with black border).

**MANDATORY!** These actions should be performed as specified. Failure to perform mandatory actions can cause injury to personnel and/or damage to equipment (white symbol on blue dot).

**PROHIBITED!** These actions are prohibited. These actions should not be performed at any time or in any circumstances. Performing a prohibited action can cause injury to personnel and/or damage to equipment (black symbol with red circle and red slash).
I. INTRODUCTION

SAFETY
Welcome to Quantum Rehab, a division of Pride Mobility Products Corporation (Pride). The power chair you have purchased combines state-of-the-art components with safety, comfort, and styling in mind. We are confident that these design features will provide you with the conveniences you expect during your daily activities. Once you understand how to safely operate and care for your power chair, it should give you years of trouble free operation and service.

Read and follow all instructions, warnings, and notes in this manual before attempting to operate your power chair for the first time. In addition, your safety depends upon you, as well as your provider, caretaker, or healthcare professional in using good judgement.

If there is any information in this manual which you do not understand, or if you require additional assistance for setup or operation, please contact your Quantum Rehab Specialist. Failure to follow the instructions in this manual and those located on your power chair can lead to personal injury and/or damage to the power chair, including voiding the warranty.

PURCHASER’S AGREEMENT
By accepting delivery of this product, you promise that you will not change, alter, or modify this product or remove or render inoperable or unsafe any guards, shields, or other safety features of this product; fail, refuse, or neglect to install any retrofit kits from time to time provided by Pride to enhance or preserve the safe use of this product.

INFORMATION EXCHANGE
We want to hear your questions, comments, and suggestions about this manual. We would also like to hear about the safety and reliability of your new power chair, and about the service you received from your Quantum Rehab Specialist.

Please notify us of any change of address, so we can keep you apprised of important information about safety, new products, and new options that can increase your ability to use and enjoy your power chair. Please feel free to contact us at the address below:

Pride Mobility Products Corporation
Attn: Customer Care Department
182 Susquehanna Avenue
Exeter, PA 18643-2694
customercare@pridemobility.com
800-424-8205

NOTE: If you ever lose or misplace your product registration card or your copy of this manual, contact us and we will be glad to send you a new one immediately.
I. INTRODUCTION

PRIDE OWNERS CLUB

As an owner of a Pride product, you are invited to register your product's warranty and enroll in the Pride Owners Club. You may do so by filling out and returning your enclosed product registration card or by visiting Pride's web site at www.pridemobility.com. As a registered member, each time you visit our site, you will have access to the most interactive and honest educational venue available today for people with mobility needs, their families, and friends.

From our home page, select “Owners Club” to enter a page dedicated to current and potential Pride product owners. You will gain access to interviews, stories, recreation ideas, daily living tips, product and funding information, and interactive message boards. These message boards invite you to communicate with other Pride customers as well as Pride representatives who are available to assist you with any questions or concerns you may have.

My Quantum Rehab Specialist:

Name:_____________________________________________________________________________________

Address:___________________________________________________________________________________

Phone Number:______________________________________________________________________________

Purchase Date:_____________________________________________________________________________
II. SAFETY

PRODUCT SAFETY SYMBOLS
The symbols below are used on the power chair to identify warnings, mandatory actions, and prohibited actions. It is very important for you to read and understand them completely.

Corrosive chemicals contained in battery. Use only AGM or Gel-Cell batteries to reduce the risk of leakage or explosive conditions.

This product has been tested and passed at an immunity level of 20 V/m.

Read and follow the information in the owner's manual.

Maximum seating weight.

Locked and in drive mode.

Place unit on level ground and stand behind or to one side when changing from drive mode to freewheel mode or freewheel mode to drive mode.

Unlocked and in freewheel mode.

Battery Configuration:
T = Terminal Post
Connect Red wire to T with +
Connect Black wire to T with –
II. SAFETY

Do not remove anti-tip wheels.

Do not use a cell phone, walkie/talkie, laptop, or other radio transmitter while operating.

Avoid exposure to rain, snow, ice, salt, or standing water whenever possible. Maintain and store in a clean and dry condition.

Removal of grounding prong can create electrical hazard. If necessary, properly install an approved 3-pronged adapter to an electrical outlet having 2-pronged plug access. Failure to heed could result in personal injury and/or property damage.

Prevent personal injury and equipment damage. Do not connect an extension cord to the AC/DC converter or the battery charger.
SAFETY

MANDATORY! Do not operate your new power chair for the first time without completely reading and understanding this owner’s manual.

Your power chair is a state-of-the-art life enhancement device designed to increase mobility. Pride provides an extensive variety of products to best fit the individual needs of the power chair user. Please be aware that the final selection and purchasing decision regarding the type of power chair to be used is the responsibility of the power chair user, who is capable of making such a decision, and his/her healthcare professional (i.e., medical doctor, physical therapist, etc.).

The contents of this manual are based on the expectation that a mobility device expert has properly fitted the power chair to the user and has assisted the prescribing healthcare professional and/or the Quantum Rehab Specialist in the instruction process for the use of the product.

There are certain situations, including some medical conditions, where the power chair user will need to practice operating the power chair in the presence of a trained attendant. A trained attendant can be defined as a family member or care professional specially trained in assisting a power chair user in various daily living activities.

As you begin using your power chair during daily activities, you will probably encounter situations in which you will need some practice. Simply take your time and you will soon be in full and confident control as you maneuver through doorways, on and off of elevators, up and down ramps, and over moderate terrain.

Below are some precautions, tips, and other safety considerations that will help you become accustomed to operating your power chair safely.

Modifications

Pride has designed and engineered your power chair to provide maximum mobility and utility. A wide range of accessories is available from your Quantum Rehab Specialist to further customize your power chair to better suit your needs and/or preferences. However, under no circumstances should you modify, add, remove, or disable any feature, part, or function of your power chair.

WARNING! Do not modify your power chair in any way not authorized by Pride. Unauthorized modifications may result in personal injury and/or damage to your power chair.

Pre-Ride Safety Check

Get to know the feel of your power chair and its capabilities. Pride recommends that you perform a safety check before each use to make sure your power chair operates smoothly and safely.

Perform the following inspections prior to using your power chair:

- Check for proper tire inflation. Maintain but do not exceed 35 psi (2.4 bar) in each tire if equipped with pneumatic tires.
- Check all electrical connections. Make sure they are tight and not corroded.
- Check all controller connections to the power base. Make sure they are secured properly.
- Check the brakes. See VIII. “Care and Maintenance.”
- Check battery charge. See VI. “Batteries and Charging.”

NOTE: If you discover a problem, contact your Quantum Rehab Specialist for assistance.
**II. SAFETY**

**Weight Limitations**

Your power chair is rated for a maximum weight capacity. Please refer to the specifications table for this limit.

**WARNING!** Exceeding the weight capacity voids your warranty and may result in personal injury and/or damage to your power chair. Pride will not be held responsible for injuries and/or property damage resulting from failure to observe weight limitations.

**WARNING!** Do not carry passengers on your power chair. Carrying passengers on your power chair may result in personal injury and/or property damage.

**Tire Inflation**

If your power chair is equipped with pneumatic tires, you should check or have the air pressure checked regularly. Proper inflation pressures will prolong the life of your tires and help ensure the smooth operation of your power chair.

**WARNING!** It is important that 35 psi (2.4 bar) tire pressure be maintained in pneumatic tires at all times. Do not underinflate or overinflate your tires. Low pressure may result in loss of control, and overinflated tires may burst. Failure to maintain 35 psi (2.4 bar) tire pressure in pneumatic tires at all times may result in tire and/or wheel failure, causing serious personal injury and/or damage to your power chair.

**WARNING!** Inflate your power chair drive tires from a regulated air source with an available pressure gauge. Inflating your tires from an unregulated air source could overinflate them, resulting in a burst tire and/or personal injury.

**Incline Information**

More and more buildings have ramps with specified degrees of inclination, designed for easy and safe access. Some ramps may have turning switchbacks (180-degree turns) that require you to have good cornering skills on your power chair.

- Proceed with extreme caution as you approach the downgrade of a ramp or other incline.
- Take wide swings with your power chair’s front wheels around any tight corners. If you do that, the power chair’s rear wheels will follow a wide arc, not cut the corner short, and not bump into or get hung up on any railing corners.
- When driving down a ramp, keep the power chair’s speed adjustment set to the slowest speed setting to ensure a safely controlled descent. See VII. “Operation.”
- Avoid sudden stops and starts.

When climbing an incline, try to keep your power chair moving. If you must stop, start up again slowly and then accelerate cautiously. When driving down an incline, set your power chair to the slowest speed setting and drive in the forward direction only. If your power chair starts to move down the incline faster than you anticipated or desired, allow it to come to a complete stop by releasing the joystick, then push the joystick forward slightly to ensure a safely controlled descent.

**WARNING!** When climbing an incline, do not zigzag or drive at an angle up the face of the incline. Drive your power chair straight up the incline. This greatly reduces the possibility of a tip or a fall. Always exercise extreme caution when negotiating an incline.

**WARNING!** You should not travel up or down a potentially hazardous incline (i.e., areas covered with snow, ice, cut grass, or wet leaves).

**WARNING!** When on any sort of an incline or decline, never place the power chair in freewheel mode while seated on it or standing next to it. Doing so may result in personal injury and/or damage to your power chair.

**WARNING!** Never travel down an incline backward. This may result in personal injury.
II. SAFETY

WARNING! Even though your power chair is capable of climbing slopes greater than those illustrated in figure 1, do not, under any circumstances, exceed the incline guidelines or any other specifications presented in this manual. Doing so could cause instability in your power chair, resulting in personal injury and/or damage to your power chair.

In compliance with the Americans with Disabilities Act of 1990, all handicap public access ramps are required to have a maximum slope of 5° (8.7%). Therefore, Pride recommends that the maximum slope of an incline you attempt to safely ascend or descend on your power chair does not exceed 5° (8.7%). See figure 1.

WARNING! Any attempt to climb or descend a slope steeper than 5° (8.7%) may put your power chair in an unstable position and cause it to tip, resulting in personal injury.

![Figure 1. Maximum Safe Slope (Ascending and Descending)](image)

Braking Information
Your power chair is equipped with two powerful brake systems:

- Regenerative — uses electricity to rapidly slow the vehicle when the joystick returns to the center/stop position.
- Disc Park Brake — activates mechanically after regenerative braking slows the vehicle to near stop, or when power is removed from the system for any reason.

Cornering Information
While your power chair is equipped with rear caster wheels and front anti-tip wheels, excessively high cornering speeds can still create the possibility of tipping. Factors which affect the possibility of tipping include, but are not limited to: cornering speed, steering angle (how sharply you are turning), uneven road surfaces, inclined road surfaces, riding from an area of low traction to an area of high traction (such as passing from a grassy area to a paved area – especially at high speed while turning), and abrupt directional changes. High cornering speeds are not recommended. If you feel that you may tip over in a corner, reduce your speed and steering angle (i.e., lessen the sharpness of the turn) to prevent your power chair from tipping.

WARNING! When cornering sharply, reduce your speed. This greatly reduces the possibility of a tip or fall. To avoid personal injury and/or property damage, always exercise common sense when cornering.

Outdoor Driving Surfaces
Your power chair is designed to provide optimum stability under normal driving conditions—dry, level surfaces composed of concrete, blacktop, or asphalt. However, Pride recognizes that there will be times when you will encounter other surface types. For this reason, your power chair is designed to perform admirably on packed soil, grass, and gravel. Feel free to use your power chair safely on lawns and in park areas.

- Reduce your power chair’s speed when driving on uneven terrain and/or soft surfaces.
- Avoid tall grass that can entangle the running gear.
- Avoid loosely packed gravel and sand.
- If you feel unsure about a driving surface, avoid that surface.
II. SAFETY

Freewheel Mode
Your power chair is equipped with a manual freewheel system to allow for manual maneuverability by a trained attendant. For more information about how to place your power chair into and out of freewheel mode, see III. “Your Power Chair.”

WARNING! Do not use your power chair in freewheel mode without an attendant present. Personal injury may result.

WARNING! Do not attempt to personally place your power chair in freewheel mode while seated on it. Personal injury may result. Ask an attendant for assistance if necessary.

WARNING! Do not place your power chair in freewheel mode while on an incline. The chair could roll uncontrollably on its own, causing personal injury.

Stationary Obstacles (Steps, Curbs, etc.)
Proceed with extreme caution when driving near raised surfaces, unprotected ledges and/or drop-offs (curbs, porches, stairs, etc.). The correct method for approaching a curb is illustrated in figure 2.

WARNING! Do not attempt to have your power chair climb or descend an obstacle that is higher than two inches unless you have the assistance of an attendant.

WARNING! Do not attempt to have your power chair proceed backward down any step, curb, or other obstacle. This may cause the power chair to tip and cause personal injury.

Public Streets and Roadways

WARNING! You should not operate your power chair on public streets and roadways. Be aware that it may be difficult for traffic to see you when you are seated on your power chair. Obey all local pedestrian traffic rules. Wait until your path is clear of traffic, and then proceed with extreme caution.

Stairs and Escalators
Power chairs are not designed to travel up or down stairs or escalators. Always use an elevator.

WARNING! Never use your power chair to negotiate steps or escalators. You may cause injury to yourself and to others and/or damage your power chair.
II. SAFETY

Transfers

Transferring onto and off of your power chair requires a good sense of balance. Always have an attendant or healthcare professional present while learning to properly transfer yourself.

To eliminate the possibility of injury, Pride recommends that you or a trained attendant perform the following tasks before attempting a transfer:

- Turn off the power to the controller. See VII. “Operation.”
- Ensure your power chair is not in freewheel mode. See III. “Your Power Chair.”
- Turn both caster wheels toward the transfer destination to improve power chair stability during transfer.
- Make sure both armrests are flipped up or removed from your power chair.
- Flip up the foot platform or move the leg rests aside; this will help to keep your feet from getting caught on the foot rigging during the transfer.
- Reduce the distance between your power chair and the object you are transferring onto.

Figure 4. Ideal Transfer Position

WARNING! Before transferring, position yourself as far back as possible in the power chair seat to prevent the power chair from tipping forward during transfer and causing injury.

WARNING! Avoid using your armrests for weight bearing purposes. Such use may cause the power chair to tip and cause personal injury.

WARNING! Avoid putting all of your weight on the foot riggings. Such use may cause the power chair to tip and cause personal injury

Doors

- Determine if the door opens toward or away from you.
- Drive your power chair gently and slowly forward to push the door open. Or drive your power chair gently and slowly backward to pull the door open.

Elevators

Modern elevators have a door edge safety mechanism that, when pushed, reopens the elevator door(s).

- If you are in the doorway of an elevator when the door(s) begin to close, push on the rubber door edge or allow the rubber door edge to contact the power chair and the door will reopen.
- Use care that pocketbooks, packages, or power chair accessories do not become caught in elevator doors.

Lift/Elevation Products

If you will be traveling with your power chair, you may find it necessary to use a lift/elevation product to aid in transportation. Pride recommends that you closely review the instructions, specifications, and safety information set forth by the manufacturer of the lift/elevation product before using that product.

WARNING! Never sit on your power chair when it is being used in connection with any type of lift/elevation product. Your power chair was not designed with such use in mind and any damage or injury incurred from such use is not the responsibility of Pride.
II. SAFETY

Motor Vehicle Transport
Pride recommends that you do not remain seated in your power chair while traveling in a motor vehicle. The power chair should be stowed in the trunk of a car or in the back of a truck or van with the batteries removed and properly secured.

**WARNING!** Do not sit on your power chair while it is in a moving vehicle. Personal injury and/or property damage may result.

**WARNING!** Always be sure your power chair and its batteries are properly secured when it is being transported. Failure to do so may result in personal injury and/or damage to your power chair.

Positioning Belts
Your Quantum Rehab Specialist, therapist(s), and other healthcare professionals are responsible for determining your requirement for a positioning belt in order to operate your power chair safely.

**WARNING!** If you require a positioning belt to safely operate your power chair, make sure it is fastened securely. Serious personal injury may result if you fall from the power chair.

**WARNING!** The positioning belt is not designed for use as a seat belt in a motor vehicle. Nor is your power chair suitable for use as a seat in any vehicle. Anyone traveling in a vehicle should be properly belted into seats approved by the vehicle manufacturer.

Inclement Weather Precautions
Exposure of your power chair to inclement weather conditions should be avoided whenever possible. If suddenly caught up in rain, snow, severe cold, or heat while operating your power chair proceed to shelter at the earliest opportunity. Thoroughly dry your power chair before storing, charging, or operating your power chair.

**WARNING!** Operating in rain, snow, salt, mist/spray conditions, and on icy/slippery surfaces can cause personal injury and/or damage to the power chair and electrical system. Maintain and store your power chair in a dry and clean condition.

Reaching and Bending
Never reach, lean, or bend while driving your power chair. If it is absolutely necessary to reach, lean, or bend while seated on your power chair, it is important to maintain a stable center of gravity and keep the power chair from tipping. Pride recommends that the power chair user determine his/her personal limitations and practice bending and reaching in the presence of a qualified healthcare professional.

**WARNING!** Do not bend, lean, or reach for objects if you have to pick them up from the floor by reaching down between your knees. Movements such as these may change your center of gravity and the weight distribution of the power chair. This may cause your power chair to tip, possibly resulting in personal injury.

**WARNING!** Prevent personal injury! Keep your hands away from the tires when driving. Be aware that loose fitting clothing can become caught in drive tires.

Preventing Unintended Movement

**WARNING!** If you anticipate being seated in a stationary position for an extended period of time, turn off the power. This will prevent unexpected motion from inadvertent joystick contact. This will also eliminate the possibility of unintended chair movement from electromagnetic (EMI) sources. Failure to do so may result in personal injury.
II. SAFETY

Removable Parts

WARNING! Do not attempt to lift or move a power chair by any of its removable parts. Personal injury and/or damage to the power chair may result.

Batteries

In addition to following the warnings below, be sure to comply with all other battery handling information. For more information about your power chair’s batteries, see VI. “Batteries and Charging.”

WARNING! Power chair batteries are heavy. See specifications table. If you are unable to lift that much weight, be sure to get help. Lifting beyond your capacity can result in personal injury.

WARNING! Battery posts, terminals, and related accessories contain lead and lead compounds. Wash hands after handling.

WARNING! Always protect the batteries from freezing and never charge a frozen battery. Charging a frozen battery may result in personal injury and/or damage to the battery.

Prescription Drugs/Physical Limitations

Users must exercise care and common sense when operating a power chair. This includes awareness of safety issues when taking prescribed or over-the-counter drugs or when the user has specific physical limitations.

WARNING! Consult your physician if you are taking prescribed or over-the-counter medication or if you have certain physical limitations. Some medications and limitations may impair your ability to operate your power chair in a safe manner.

Alcohol

The power chair user must exercise care and common sense when operating his/her power chair. This includes awareness of safety issues while under the influence of alcohol.

WARNING! Do not operate your power chair while you are under the influence of alcohol, as this may impair your ability to operate your power chair in a safe manner.
II. SAFETY

Electromagnetic and Radio Frequency Interference (EMI/RFI)

WARNING! Laboratory tests have shown that electromagnetic and radio frequency waves can have an adverse affect on the performance of electrically-powered mobility vehicles.

Electromagnetic and Radio Frequency Interference can come from sources such as cellular phones, mobile two-way radios (such as walkie-talkies), radio stations, TV stations, amateur radio (HAM) transmitters, wireless computer links, microwave signals, paging transmitters, and medium-range mobile transceivers used by emergency vehicles. In some cases, these waves can cause unintended movement or damage to the control system. Every electrically-powered mobility vehicle has an immunity (or resistance) to EMI. The higher the immunity level, the greater the protection against EMI. This product has been tested and has passed at an immunity level of 20 V/m.

WARNING! Be aware that cell phones, two-way radios, laptops, and other types of radio transmitters may cause unintended movement of your electrically-powered mobility vehicle due to EMI. Exercise caution when using any of these items while operating your mobility vehicle and avoid coming into close proximity of radio and TV stations.

WARNING! The addition of accessories or components to the electrically-powered mobility vehicle can increase the susceptibility of the vehicle to EMI. Do not modify your power chair in any way not authorized by Pride.

WARNING! The electrically-powered mobility vehicle itself can disturb the performance of other electrical devices located nearby, such as alarm systems.

NOTE: For further information on EMI/RFI, go to the Resource Center on www.pridemobility.com. If unintended motion or brake release occurs, turn your power chair off as soon as it is safe to do so. Call Pride at 800-424-8205 to report the incident.
III. YOUR POWER CHAIR

THE QUANTUM DYNAMO 1107

The Quantum Dynamo 1107 has two main assemblies: the seat assembly and the power base assembly. See figure 5. Typically, the seat assembly includes the armrests, seatback, and seat base. The power base assembly includes two motor/brake assemblies, two drive wheels, two anti-tip wheels, two caster wheels, two battery boxes, and wiring harnesses. See figure 5, 6, and 7.

Figure 5. The Quantum Dynamo 1107
## III. YOUR POWER CHAIR

### QUANTUM DYNAMO 1107 SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suspension:</td>
<td>Active-Trac</td>
</tr>
<tr>
<td>Drive Wheels:</td>
<td>10 in. pneumatic, <em>(10 in., solid are optional)</em></td>
</tr>
<tr>
<td>Caster Wheels:</td>
<td>6 in. solid, rear-mounted</td>
</tr>
<tr>
<td>Anti-tip Wheels:</td>
<td>5 in. solid, front-mounted</td>
</tr>
<tr>
<td>Maximum Speed:*</td>
<td>Up to 4.5 mph</td>
</tr>
<tr>
<td>Brakes:</td>
<td>“Intelligent Braking” electronic regenerative, disc park brake</td>
</tr>
<tr>
<td>Ground Clearance:*</td>
<td>2.5 in.</td>
</tr>
<tr>
<td>Maximum Safe Slope:</td>
<td>5° (8.7%)</td>
</tr>
<tr>
<td>Turning Radius:*</td>
<td>20.5 in. <em>(without foot riggings)</em></td>
</tr>
<tr>
<td>Overall Size:*</td>
<td>Length: 36.63 in. <em>(without foot riggings)</em></td>
</tr>
<tr>
<td></td>
<td>Width: 23 in.</td>
</tr>
<tr>
<td>Seating Options:</td>
<td>Synergy Seat</td>
</tr>
<tr>
<td></td>
<td>Synergy Manual Recline</td>
</tr>
<tr>
<td></td>
<td>Synergy Manual Tilt</td>
</tr>
<tr>
<td></td>
<td>Synergy TRU-Balance Power Positioning Systems</td>
</tr>
<tr>
<td>Drivetrain:</td>
<td>Two motor, mid-wheel drive</td>
</tr>
<tr>
<td>Batteries:*</td>
<td>Two 12-volt, U-1 batteries</td>
</tr>
<tr>
<td>Range:*</td>
<td>Up to 25 miles</td>
</tr>
<tr>
<td>Battery Charger:*</td>
<td>5-amp, off-board power cube <em>(standard)</em></td>
</tr>
<tr>
<td>Electronics:</td>
<td>75-amp FLIGHT Controller</td>
</tr>
<tr>
<td></td>
<td>70-amp Microdrive Controller</td>
</tr>
<tr>
<td></td>
<td>70-amp PG Drives Remote Plus Controller</td>
</tr>
<tr>
<td>Weight Capacity:*</td>
<td>160 lbs.</td>
</tr>
<tr>
<td>Component Weights:*</td>
<td>Base: 112 lbs. <em>(right section 43 lbs.; left section 43 lbs.; center section 17 lbs.; battery boxes 4.5 lbs. each)</em></td>
</tr>
<tr>
<td></td>
<td>Synergy Seat: 39.5 lbs.</td>
</tr>
<tr>
<td></td>
<td>Batteries: 24.5 lbs. *each <em>(without battery box)</em></td>
</tr>
</tbody>
</table>

*Varies with user weight, terrain type, battery amp hour rating (AH), battery charge, battery condition, and tire condition.

*Due to manufacturing tolerances and continued product improvement, this specification can be subject to variance of (+ or – ) 3%.

*AGM or Gel-Cell type recommended.

**NOTE:** *All specifications subject to change without notice.*
III. YOUR POWER CHAIR

Figure 6. The Quantum Dynamo 1107 Power Base (Shown with Foot Platform)
III. YOUR POWER CHAIR

Electrical Components
The electrical components consist of the controller assembly, the batteries, and the motors. The batteries, motors, and controller power module are located on the power base assembly. See figures 6 and 7. The controller is located on the seat assembly. Connectivity between the controller and the motors, the batteries, and the battery charger is provided by one or more wiring harnesses.

Controller Connector: The controller connector is where the controller plugs into the power base. Each controller uses a different type of harness. If the controller has a power module in the power base, the connector is a small communications-type connector. The harness must be secured to the seat assembly and not allowed to drag on the floor.

Battery Harness Connector: This is where the controller connects to the battery boxes.

Figure 7. Quantum Dynamo 1107 Electrical Components (Remote Plus Controller Shown)
Main Circuit Breaker (located on rear battery box): The main circuit breaker is a safety feature built into your power chair. When the batteries and the motors are heavily strained (e.g., from excessive loads), the main circuit breaker trips to prevent damage to the motors and the electronics. If the circuit trips, allow your power chair to “rest” for approximately one minute. Next, push in the circuit breaker button, turn on the controller, and continue normal operation. If the main circuit breaker continues to trip repeatedly, contact your Quantum Rehab Specialist.

Controller Power Module: The controller power module enables the controller to communicate with the batteries and the motors. This feature is used with modular controller systems only.

Motor Connectors: This is where the motors connect to the controller power module.

Manual Freewheel Levers
The Quantum Dynamo 1107 has a manual freewheel lever on each motor. See figures 8 and 9. Manual freewheel levers enable you to disengage the drive motors from the gearboxes and maneuver the chair manually.

WARNING! Do not use the power chair while the drive motors are disengaged! Do not disengage the drive motors when the power chair is on an incline, as the unit could roll on its own, causing injury!

To engage or disengage the drive motors:
1. Locate the lever on top of each motor.
2. Pull the two levers upward to engage the drive motors. See figure 8.
3. Push the two levers downward to disengage the drive motors. See figure 9.

If a lever is difficult to move in either direction, slightly rock the power chair back and forth. The lever should then move to the desired position.

WARNING! It is important to remember that when your power chair is in freewheel mode, the braking system is disengaged.
INITIAL ASSEMBLY
Your power chair may require some assembly either before initial use or after transportation. It may also require disassembly to make some comfort adjustments. Figure 10 details those parts of the power chair that are designed to be disassembled and assembled by an end user or by a qualified caregiver before using the product or making comfort adjustments.

NOTE: Any nylon insert lock nut removed during the disassembly or adjustment of the power chair must be replaced with a new nut. Nylon insert lock nuts should not be reused as it may cause damage to the nylon insert, resulting in a less secure fit. Replacement nylon insert lock nuts are available at local hardware stores or through your Quantum Rehab Specialist.
Seat Installation
Your power chair uses T-handle detent pins, seat towers, and seat mount connectors to connect the Synergy Seat to the power base. See figure 11. For more information, refer to the manual supplied with your seating system.

WARNING! Avoid injury! Do not pick up the seat assembly by the armrests. They are free to pivot, and you may lose control of the seat if they do so, resulting in personal injury or damage to the chair.

WARNING! Depending on your lifting ability, we recommend that two people remove the seat to avoid possible damage to the seat or your power chair.

To install the seat:
1. Position the seat directly over the power base so that the seat towers line up with the seat mount connectors. See figure 11.
2. Slide the seat towers down into the seat mount connectors.
3. Align the locating holes in the seat towers with those in the seat mount connectors, and insert the T-handle ball detent pins through the holes.

To remove the seat:
1. Remove the four (4) T-handle ball detent pins securing the seat to the power base.
2. Allow the seat to rest on the seat mount connectors.
3. Lift the seat directly up. See figure 11.

NOTE: You may find it necessary to rock the seat gently from side to side to free the seat towers from the seat mount connectors.

Figure 11. Seat Installation
**Power Base Disassembly**

The Quantum Dynamo 1107 power base disassembles into six parts for easy transportation and storage. See figure 12.

**To disassemble your power chair:**
1. Turn off the power to the controller.
2. Disconnect the controller. See figure 6.
3. Remove the seat.
4. Press the foot platform release button and lift off the foot platform. See figure 12. See figures 19 and 20 for leg rest removal.
5. Flip down the battery box latches on each side of the power base. See figure 13.
6. Slide the battery boxes back and off of the power base.
7. Flip up the center section latch. See figure 13.
8. Rotate the center section forward.
9. Grab a side section, and lift it up and off of the center section.
10. Grab the other side section, and lift it up and off of the center section.

*NOTE: Perform the disassembly steps in reverse order to assemble the power chair.*

*NOTE: During assembly, make sure the battery box latches are in the up (locked) position and the center section latch is in the down (locked) position.*
IV. ASSEMBLY/DISASSEMBLY

Figure 13. Quantum Dynamo 1107 Battery Box Removal and Frame Separation
COMFORT ADJUSTMENTS
After becoming familiar with your power chair’s operation, you may find the need to make some adjustments to increase your comfort. These adjustments include seat height and angle, foot platform height and angle, and controller position. If your power chair is equipped with a Synergy Seat or a Synergy TRU-Balance Power Positioning System, refer to the supplemental information provided in separate manuals. Information regarding armrest adjustment is also provided in a separate manual.

WARNING! If your power chair was configured by your Quantum Rehab Specialist, please consult your healthcare professional before changing the seat position or making any other adjustment. Some adjustments may degrade your power chair’s performance and safety by changing its center of gravity.

WARNING! Some power chair components are heavy. You may need assistance to lift or carry them. Please refer to the specifications table for specific component weights before you disassemble the power chair.

WARNING! Prevent injury. Remove the occupant from the power chair before making any adjustments/repairs.

You may need the following to make comfort adjustments:
- metric/standard socket set and ratchet
- adjustable wrench
- thread lock

Seat Height and Seat Angle Adjustment
You can change the seat height by either raising or lowering the four seat towers attached to the seat base.

To change the seat height:
1. Remove the T-handle ball detent pins that secure the seat base to the power base. See figure 14.
2. Raise or lower the seat towers attached to the seat base to the desired height.
3. Align the locating hole in the seat tower with the one in the seat mount connector, and reinsert the T-handle ball detent pin for each tower. See figure 14.

NOTE: You may find it easier to adjust the front towers first, and then the rear towers.

NOTE: Change the seat angle (dump) by raising or lowering only one set of towers (front or back).
V. Comfort Adjustments

Foot Platform Height Adjustment
The foot platform height is easily adjusted to different heights in 1/2-in. increments.

To raise or lower the foot platform:
1. Remove the quick release fasteners from the foot platform bracket. See figure 15.
2. Raise or lower the foot platform to the desired height.
3. Reinstall the quick release fasteners into the foot platform bracket and tighten.

Foot Platform Depth Adjustment
To adjust the foot platform depth:
1. Remove the quick release fasteners from the foot platform bracket. See figure 15.
2. Move the foot platform in or out to the desired depth.
3. Reinstall the quick release fasteners into the foot platform bracket and tighten.

Foot Platform Angle Adjustment
You can adjust the angle of the foot platform with a hex key. See figure 16.

To adjust the foot platform angle:
1. Flip up the foot platform and locate the setscrew.
2. Turn the setscrew clockwise to raise the front of the foot platform.
3. Turn the setscrew counterclockwise to lower the front of the foot platform.

Quick Release Fasteners
The foot platform is attached to the power base with two quick release fasteners. Each quick release fastener consists of a bolt, a lever, and a nut. See figure 17. The lever has a cam on the end that allows it to clamp into place. The quick release fastener has two states: clamped and unclamped. When the lever is open, the quick release fastener is unclamped. When the lever is closed, the quick release fastener is clamped.

To clamp the quick release fastener:
1. Make sure the lever is in the open position.
2. Turn the nut clockwise until it is snug.
3. Rotate the lever until it is in the fully closed position.

NOTE: If the lever will not rotate to the fully closed position, then turn the nut counterclockwise one-quarter or one-half turn.
V. COMFORT ADJUSTMENTS

Controller Position
You can position the controller for either left-hand or right-hand use.

**WARNING! Do not place the controller cable so that it can be pinched in the seat frame or the power base frame.**

To change the controller position:
1. Turn off the power to the controller. See VII. “Operation.”
2. Disconnect the controller from the power base.
3. Cut any wire ties securing controller cable to the armrest.
4. Loosen the mounting screws. See figure 18.
5. Remove the mounting block from the armrest.
6. Place the mounting block on the other armrest and tighten the mounting screws.
7. Use a wire tie(s) to secure the controller cable to the armrest.
8. Plug the controller into the power base. See figure 6.

Swing-away Footrests
Swing-away Footrests (SFRs) enable you to rotate the footrests to the side before you transfer onto or off of your power chair.

To rotate the SFRs:
1. Push in the release lever. See figure 19.
2. Rotate the SFRs.

To adjust the SFR length:
1. Remove the two adjustment screws from the back of each footrest extension. See figure 19.
2. Slide the footrest up or down to the desired length.
3. Reinstall the two adjustment screws.

Elevating Leg Rests
Elevating Leg Rests (ELRs) offer an infinite range of adjustment for the leg angle and a footrest adjustment range of 12–19 in.

To rotate the ELRs:
2. Rotate the ELRs.

To adjust the ELR length:
1. Remove the two adjustment screws from the back of each leg rest extension. See figure 20.
2. Slide the leg rest up or down to the desired length.
3. Reinstall the two adjustment screws.
V. COMFORT ADJUSTMENTS

To adjust the ELR angle:
1. Push down release lever B. See figure 20.
2. Move the leg rest to the desired angle.

Multi-Axis Foot Plates
The multi-axis foot plate assembly can be installed on either a swing-away footrest or an elevating leg rest. The multi-axis foot plate has four adjustments: leg rest length (A), position (B), tilt (C), and angle (D). See figure 21.

To change leg rest length (A):
1. Remove the hardware.
2. Move the leg rest to the desired position.
3. Reinstall the hardware.

To change foot plate position (B):
1. Remove the hardware.
2. Move the foot plate to the desired position.
3. Reinstall the hardware.

To change foot plate tilt (C):
1. Loosen the hardware.
2. Tilt the foot plate to desired position.
3. Tighten the hardware.

To change foot plate angle (D):
1. Turn the setscrew clockwise to decrease the angle.
2. Turn the setscrew counterclockwise to increase the angle.

Figure 21. Multi-Axis Foot Plates (ELR Shown)
Anti-Tip Wheels
The anti-tip wheels are designed to give your power chair increased stability on rough surfaces. The anti-tip wheels are preset at the factory for smooth surfaces or indoor use only. If you plan on using your power chair on rough surfaces, it may be necessary to adjust the anti-tip wheels to better suit your needs. The anti-tip wheels may need adjustment if the following occurs:
- When coming to a stop, your power chair tips forward excessively.
- The anti-tip wheels constantly rub the ground.

WARNING! Consult your Quantum Rehab Specialist before attempting to change the anti-tip wheel height! Changing the anti-tip wheel height affects handling under acceleration!

WARNING! The higher you raise the anti-tip wheels, the more you increase your power chair’s tendency to tilt forward while decelerating. You can compensate for this by having your Quantum Rehab Specialist make a small adjustment to the pre-programmed deceleration setting in the controller or by moving the seat assembly farther to the back of your power chair.

PROHIBITED! Do not remove the anti-tip wheels.

NOTE: Each drive tire must be inflated to 35 psi (2.4 bar) if equipped with pneumatic tires. The user must also be seated in the power chair in order to properly adjust the anti-tip wheels.

To adjust the anti-tip wheels:
1. Loosen nut A. See figure 22.
2. Remove bolt B.
3. Raise or lower the anti-tip wheel. Each hole is 1/2-in. apart.
4. Reinstall bolt B.
5. Tighten nut A.
6. Raise or lower the other anti-tip wheel so that it is at the same height.

Figure 22. Anti-Tip Wheel Assembly
BATTERIES AND CHARGING

Your power chair uses two long-lasting, 12-volt, deep-cycle batteries. These batteries are sealed and maintenance free. Since they are sealed, there is no need to check the electrolyte (fluid) level. Deep-cycle batteries are designed to handle a longer and deeper discharge. Though they are similar in appearance to automotive batteries, they are not interchangeable. Automotive batteries are not designed to handle a long, deep discharge, and also are unsafe for use in power chairs.

WARNING! Battery posts, terminals, and related accessories contain lead and lead compounds. Wash hands after handling.

WARNING! Prevent injury and/or equipment damage! Do not use batteries that exceed the recommended type and amp-hour capacity. Do not use batteries with different amp-hour capacities. Refer to specifications table in this manual and in the manual supplied with the battery charger for recommended type and capacities.

Charging the Batteries

The battery charger is essential in providing long life for your power chair batteries. It is designed to optimize your power chair’s performance by charging the batteries safely, quickly, and easily.

PROHIBITED! Removal of grounding prong can create electrical hazard. If necessary, properly install an approved 3-pronged adapter to an electrical outlet having 2-pronged plug access. Failure to heed could result in personal injury and/or property damage.

PROHIBITED! Never use an extension cord to plug in your battery charger. Plug the charger directly into a properly wired standard electrical outlet.

WARNING! You must recharge your power chair’s batteries with the supplied charger. Do not use an automotive-type battery charger.

WARNING! Prevent injury and/or equipment damage! Read the battery charging instructions in this manual and in the manual supplied with the battery charger before charging the batteries.

WARNING! Prevent injury and/or equipment damage! Do not expose the off-board battery charger to rain or other sources of moisture unless it has been tested for outdoor use. Refer to the manual supplied with the battery charger for more information.

WARNING! Prevent injury and/or equipment damage! Explosive gases may be generated while charging the batteries. Keep the power chair and battery charger away from sources of ignition such as flames or sparks and provide adequate ventilation when charging the batteries.

WARNING! Prevent injury and/or equipment damage! Inspect the battery charger, wiring, and connectors for damage before each use. Contact your Quantum Rehab Specialist if damage is found.

WARNING! Prevent injury and/or equipment damage! Do not attempt to open the battery charger case. If the battery charger does not appear to be working correctly, contact your Quantum Rehab Specialist.

WARNING! Prevent injury and/or equipment damage! If the off-board battery charger is equipped with cooling slots, then do not attempt to insert objects through these slots.

WARNING! Prevent injury and/or equipment damage! Do not allow unsupervised children to play near the power chair while the batteries are charging.

WARNING! Prevent injury and/or equipment damage! If your off-board battery charger has not been tested and approved for outdoor use, then do not expose it to adverse or extreme weather conditions. If the battery charger is exposed to adverse or extreme weather conditions, then it must be allowed to adjust to the difference in environmental conditions before use indoors. Refer to the manual supplied with the battery charger for more information.
VI. BATTERIES AND CHARGING

To charge the batteries using the off-board charger:
1. Position the front of your power chair next to a standard electrical outlet.
2. Be certain the controller power is turned off.
3. Plug the off-board charger into the off-board charger/programming socket on the controller. See VII. “Operation.”
4. Plug the off-board charger into the electrical outlet.

NOTE: If it is a Pride off-board charger, then there are two lights in it. The red light indicates that power to the off-board charger is on. The green light indicates that the batteries are fully charged. If it is not a Pride off-board charger, then follow the instructions supplied by the manufacturer.

5. When the batteries are fully charged, unplug the off-board charger from the electrical outlet and then from the controller.

NOTE: You can remove both battery boxes from the power base and charge them using the off-board charger port located on the front battery box. The battery boxes must be connected in order to charge them. See figure 23.

WARNING! When charging through the battery boxes, never use greater than a 5-amp charging system. Failure to comply may result in damage to your power chair.

Battery Break-in
To break in new batteries for maximum efficiency:
1. Fully recharge any new battery prior to its initial use. This brings the battery up to about 90% of its peak performance level.
2. Operate your power chair throughout the house and yard. Move slowly at first, and do not travel too far until you become accustomed to the controls and break in the batteries.
3. Give the batteries another full charge of 8 to 14 hours and operate your power chair again. The batteries will now perform at over 90% of their potential.
4. After four or five charging cycles, the batteries will top off at 100% charge and last for an extended period.

Frequently Asked Questions (FAQs)

How does the charger work?
The battery charger takes the standard electrical outlet voltage of 120 VAC (alternating current) and converts it to 24 VDC (direct current). The power chair batteries use direct current to run your power chair. When the battery voltage is low, the charger works harder to charge the battery. As the battery voltage approaches full charge, the charger doesn’t work as hard to complete the charging cycle. When the battery is fully charged, the amperage from the charger is nearly at zero. This is how the charger maintains a charge but does not overcharge the battery.
VI. BATTERIES AND CHARGING

Can I use a different battery charger?
You should use the charger supplied with the power chair. It is the safest, most efficient tool to charge the batteries. We do not recommend using other types of chargers (e.g., an automotive battery charger).

 NOTE: Your power chair’s charger will not operate after the batteries have been discharged to nearly zero voltage. If this happens, call your Quantum Rehab Specialist for assistance.

How often must I charge the batteries?
Many factors come into play when deciding how often to charge the batteries. You may use your power chair all day on a daily basis or you may not use it for weeks at a time.

■ Daily Use
If you use your power chair on a daily basis, charge the batteries as soon as you are finished using your power chair. Your power chair will be ready each morning to give you a full day’s service. It is recommended that you charge the batteries 8 to 14 hours after daily use.

■ Infrequent Use
If you use your power chair infrequently (once a week or less), you should charge the batteries at least once per week for 12 to 14 hours.

 NOTE: Keep your batteries fully charged and avoid deeply discharging your batteries. Do not charge the batteries for more than 24 hours at a charging cycle.

How can I get maximum range or distance per charge?
Rarely do you have an ideal driving situation such as smooth, flat, hard terrain with no wind, hills, or curves. More often you are presented with hills, sidewalk cracks, uneven and loosely packed surfaces, curves, and wind. All of these factors will affect the distance or running time per battery charge. Below are a few suggestions for obtaining the maximum range per charge:

■ Always charge the batteries fully prior to your trip.
■ Plan your trip in advance to avoid inclines if possible.
■ Limit baggage weight to essential items.
■ Try to maintain an even speed and avoid stop-and-go driving.

What type of batteries should I use?
We recommend deep-cycle batteries that are sealed and maintenance free. Both AGM and Gel-Cell are deep-cycle batteries that are similar in performance. Refer to the specifications table for more battery information.

WARNING! Corrosive chemicals contained in batteries. Use only AGM or Gel-Cell batteries to reduce the risk of leakage or explosive conditions.

Why do my new batteries seem weak?
Deep-cycle batteries employ a much different chemical technology than that used in car batteries, nickel-cadmium (nicads), or in other common battery types. Deep-cycle batteries are specifically designed to provide power, drain down their charge, and then accept a relatively quick recharge. AGM and Gel-Cell batteries should be charged as often as possible. They do not have a “memory” like nickel-cadmium batteries.

We work closely with our battery manufacturer to provide a battery that best suits your power chair’s specific demands. Fresh batteries arrive regularly at Pride and are promptly shipped with a full charge. During shipping, the batteries encounter temperature extremes that may influence initial performance. Heat robs the charge from the battery, and cold slows the power available and extends the time needed to recharge the battery (just as with a car battery).

It might take a few days for the temperature of the battery to stabilize and adjust to its new ambient temperature. More importantly, it will take a few “charging cycles” (a partial drain— then a full recharge) to establish the critical chemical balance that is essential to the battery’s peak performance and long life. It will be well worth it to take the time to break in your battery properly.

NOTE: The useful life of a battery is quite often a reflection of the care it receives.

How can I ensure maximum battery life?
A fully charged deep-cycle battery will provide reliable performance and extended battery life. Keep your power chair’s batteries fully charged whenever possible. Batteries that are regularly and deeply discharged, infrequently charged, or stored without a full charge may be permanently damaged, causing unreliable power chair operation and limited battery life.

How should I store my power chair and its batteries?
If you do not use your power chair regularly, we recommend maintaining battery vitality by charging the batteries at least once per week.

If you do not plan on using your power chair for an extended period, fully charge the batteries prior to storage. Disconnect the battery harnesses and store the power chair in a warm, dry environment. Avoid temperature extremes, such as freezing and excessively hot conditions, and never attempt to charge a frozen battery. A cold or frozen battery should be warmed for several days prior to recharging.

What about public transportation?
AGM and Gel-Cell batteries are designed for application in power chairs and other mobility vehicles. These batteries are Federal Aviation Administration (FAA) approved, allowing safe transportation on aircraft, buses, and trains, as there is no danger of spillage or leakage. We suggest you contact the carrier’s ticket counter in advance to determine that carrier’s specific requirements.

What about shipping?
If you wish to use a freight company to ship your power chair to your final destination, repack your power chair in the original shipping container and ship the batteries in separate boxes.
VII. OPERATION

FLIGHT CONTROLLER
The electronic controller is what you use to operate your power chair. It takes the battery voltage and sends it to the appropriate system. The electronic controller enables you to move the power chair, as well as monitor battery charge, electronic controller functions, and the condition of your electrical system. The FLIGHT is part of a modular electronic controller system. The system consists of more than one module. Typically, the FLIGHT is mounted to one of the armrests. See figure 24. It is connected to a power module located on the power base through the controller communications cable.

The controller supplied with your power chair has been pre-programmed to meet your needs. The program is set using either a personal computer with software provided by the controller manufacturer or with a hand-held programmer, also provided by the controller manufacturer.

WARNING! The controller program can affect speed, acceleration, deceleration, and braking. If it is programmed incorrectly or outside of the safe limits as determined by your healthcare professional, it can create a dangerous situation. Only the power chair manufacturer, an authorized representative of the manufacturer, or a trained service technician should program the controller.

The FLIGHT consists of:
1. joystick
2. keypad
3. off-board charger/programming socket
4. controller connector
5. controller power module

Joystick
The joystick controls the direction and speed of your power chair. When you move the joystick from the neutral (center) position, the electromagnetic brakes release and allow your power chair to move. The farther you push the joystick from its neutral position, the faster your power chair moves. When you release the joystick and allow it to return to the neutral position, you engage the electromagnetic brakes. This causes your power chair to decelerate and come to a complete stop.

WARNING! If your power chair begins to move in an unexpected manner, immediately release the joystick. Unless the joystick is damaged, this action should stop your power chair.

Keypad
The keypad is located in front of the joystick. It contains keys necessary to operate your power chair. See figure 25.

Horn Key
The horn key activates the horn.

Figure 24. FLIGHT Controller
VII. OPERATION

On/Off Key
The on/off key turns the FLIGHT on and off.

WARNING! Unless faced with an emergency situation, do not use the on/off key to stop the chair. This will cause the power chair to stop abruptly.

WARNING! Always turn the power off when you are stationary to prevent unexpected movement.

Battery Condition Meter
The battery condition meter consists of ten lights arranged in an arc over the on/off key. As the battery voltage drops, the number of lights reduces from right to left. When the battery capacity drops to 10% or below, the left red LED will flash.

- **Left Red LED Flashing:** Battery charge is low; Charge the batteries as soon as possible.
- **Right-to-Left Ripple of LEDs:** FLIGHT is in lock mode; Unlock the FLIGHT.
- **Left-to-Right Ripple of LEDs Alternating with Steady Display:** FLIGHT is in programming, inhibit, or charging mode.
- **Right Green LED Flashing:** FLIGHT is in speed limit mode.
- **All LEDs Flashing Slowly:** The joystick was not in the neutral position when the controller was turned on. If you get “all LEDs flashing slowly,” turn off the controller, allow the joystick to return to the neutral position, then turn on the controller.
- **All LEDs Flashing Quickly:** The FLIGHT has detected a fault; Refer to the Error Code table.

Lock Mode
The FLIGHT controller is equipped with a feature that enables you to “lockout” unauthorized users.

To lock the FLIGHT controller:
1. While the power is on, press and hold the on/off key for 2 seconds. The display will turn off immediately. After 2 seconds, all LEDs will flash briefly and the horn will sound a short beep.
2. The FLIGHT controller is now locked.

To unlock the FLIGHT controller:
1. While the FLIGHT is locked, press the on/off key to turn on the FLIGHT. All LEDs will flash briefly. The LEDs will then slowly ripple from right to left.
2. Press the Horn Key twice before the LED ripple has completed, approximately 10 seconds. The FLIGHT is now unlocked.
VII. OPERATION

Speed Keys
There are two keys that control the speed. Press the hare key to increase the speed. Press the tortoise key to decrease the speed. The speed setting is displayed on the speed indicator. If your power chair was programmed with a drive profile, contact your Quantum Rehab Specialist for more information.

**NOTE:** We recommend that the first few times you operate your power chair, you set the speed to the slowest setting until you become familiar with your new power chair.

Off-board Charger/Programming Socket
You may use an off-board charger to charge the power chair batteries through the 3-pin socket located on the front of the FLIGHT. If you use an off-board charger, the charger current should not exceed 8 amps. Contact your Quantum Rehab Specialist for more information.

⚠️ **WARNING!** Only chargers with Neutrik NC3MX plugs should be connected to the off-board charger/programming socket. See your Quantum Rehab Specialist for more information.

**NOTE:** The socket may also be used for reprogramming the FLIGHT. Contact your Quantum Rehab Specialist for more information.

Sleep Mode (If Enabled)
The power chair controller features a sleep mode. Sleep mode is a built-in circuit that will automatically shut off the main power if the joystick is not moved in any direction for a period of time. This time factor is programmed into the controller. To restore power and continue, push any on the keypad.

Error Codes
The battery condition meter will flash error codes when the FLIGHT controller detects an abnormal condition in the electrical system. All of the battery condition meter LEDs will flash a number of times quickly, then pause, then flash again. The battery condition meter will continue to flash the error codes until the problem is fixed. The table below identifies the individual error codes. If any of these error codes persist, contact your Quantum Rehab Specialist.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Probable Cause</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Possible stall timeout or user error</td>
<td>Release the joystick</td>
</tr>
<tr>
<td>2</td>
<td>Battery Fault</td>
<td>Check the batteries and cables. Try to charge the batteries. The batteries may need to be replaced.</td>
</tr>
<tr>
<td>3</td>
<td>Left Motor Fault</td>
<td>Check the left motor, connections, and cabling.</td>
</tr>
<tr>
<td>4</td>
<td>Right Motor Fault</td>
<td>Check the right motor, connections, and cabling.</td>
</tr>
<tr>
<td>5</td>
<td>Left Park Brake Fault</td>
<td>Check the left park brake, connections, and cabling.</td>
</tr>
<tr>
<td>6</td>
<td>Right Park Brake Fault</td>
<td>Check the right park brake, connections, and cabling.</td>
</tr>
<tr>
<td>7</td>
<td>FLIGHT Controller Module Fault</td>
<td>Check the communications connections and wiring.</td>
</tr>
<tr>
<td>8</td>
<td>FLIGHT Power Module Fault</td>
<td>Check the communications connections and wiring.</td>
</tr>
<tr>
<td>9</td>
<td>FLIGHT Communications Fault</td>
<td>Check the communications connections and wiring.</td>
</tr>
<tr>
<td>10</td>
<td>Unknown Fault</td>
<td>Contact your Quantum Rehab Specialist.</td>
</tr>
<tr>
<td>11</td>
<td>Incompatible Controller Fault</td>
<td>Contact your Quantum Rehab Specialist.</td>
</tr>
</tbody>
</table>
THE MICRODRIVE CONTROLLER

The electronic controller is what you use to operate your power chair. It takes the battery voltage and sends it to the appropriate system. The electronic controller also enables you to monitor battery charge, electronic controller functions, and the condition of your electrical system. The Microdrive electronic control system is a modular system. The electronics necessary to operate your power chair are contained in several modules located on different parts of your power chair. Typically, the Microdrive controller is mounted to one of the armrests. See figure 26. The joystick interface module is located on the bottom or back of the seat, and the other components are located on or inside the power base.

The controller supplied with your power chair has been pre-programmed to meet your needs. The program is set using either a personal computer with software provided by the controller manufacturer or with a hand-held programmer, also provided by the controller manufacturer.

WARNING! The controller program can affect speed, acceleration, deceleration, and braking. If it is programmed incorrectly or outside of the safe limits as determined by your healthcare professional, it can create a dangerous situation. Only the power chair manufacturer, an authorized representative of the manufacturer, or a trained service technician should program the controller.

The Microdrive controller consists of:
1. joystick
2. display pad
3. mode switch
4. on/off switch
5. speed control knob
6. joystick interface module
7. off-board charger/programming socket

Joystick

The joystick controls the direction and speed of your power chair. When you move the joystick from the neutral (center) position, the electromagnetic brakes release and allow the power chair to move. The farther you push the joystick from its neutral position, the faster the power chair moves. When you release the joystick and allow it to return to the neutral position, the electromagnetic brakes engage and the power chair comes to a complete stop.

WARNING! If your power chair begins to move in an unexpected manner, immediately release the joystick. Unless the joystick is damaged, this action should stop your power chair.
VII. OPERATION

Display Pad
The display pad is located directly in front of the joystick. It contains the horn key, battery condition meter, profile and speed indicator, and the actuator indicator. See figure 27.

Horn Key
The horn key activates the horn.

Battery Condition Meter
The battery condition meter is a 10-segment illuminated display that indicates that the Microdrive is powered on and also gives the status of the batteries, the controller, and the power chair electrical system.

- Red, yellow, and green lights lit: Batteries charged; controller and electrical system OK.
- Red and yellow lights lit: Charge batteries if possible; controller and electrical system OK.
- Red lights only lit or slow flash: Charge batteries as soon as possible; controller and electrical system OK.
- Rapid flash of lights: Indicates a fault in the controller or the electrical system. See “Error Codes.”
- Ripple side to side of lights: The joystick was not in the neutral position when the controller was turned on. If you get “ripple side to side of lights,” turn off the controller, allow the joystick to return to the neutral position, then turn on the controller.

NOTE: If you still get “ripple side to side of lights,” contact your Quantum Rehab Specialist.

NOTE: When the batteries approach a discharged state, the first red light will begin to slowly flash, reminding you the batteries need to be charged immediately!

Profile and Speed Indicator
The profile and speed indicator is a 5-segment illuminated display that indicates speed setting as well as drive profile.

Actuator Indicator
The actuator indicator is a 4-segment illuminated display that indicates power recline, power tilt, power leg rest, and power elevating seat actuator modes.

Joystick Interface Module
The joystick interface module provides a means to enable or disable the horn key, mode switch, on/off switch, and speed adjustment dial. See figure 28.

The joystick interface module consists of:
1. external switch jacks
2. horn toggle
3. speed toggle
4. mode toggle
5. power toggle
6. redel connector port
7. off-board charger/programming socket
8. speed adjustment dial

Figure 27. Microdrive Display Pad
NOTE: When a toggle switch is set to “J/S,” the joystick has control of a particular function. When the toggle switch is set to “Local,” control of this function is disabled at the joystick.

External Switch Jacks
The external switch jacks are used for an external control (e.g. buddy button, single switch, etc.). There are two external jacks on the joystick interface module: mode and power. The switches can work in conjunction with or in replacement of switches on the joystick.

Horn Toggle
The horn toggle disables the horn key on the controller.

Speed Toggle
The speed toggle disables the speed adjustment dial on the controller.

Mode Toggle
The mode toggle disables the mode switch on the controller.

Power Toggle
The power toggle disables the on/off switch on the controller.

Redel Connector Port
The redel connector port is used for the power module interface.

Off-board Charger/Programming Socket
The off-board charger/programming socket is used for off-board charger connection and controller programming. If you use an off-board charger, the charger current should not exceed 8 amps. Contact your Quantum Rehab Specialist for more information.

WARNING! Only chargers with Neutrik NC3MX plugs should be connected to the off-board charger/programming socket. See your Quantum Rehab Specialist for more information. Failure to heed can result in personal injury and/or product damage.

Drive Profile Selection
Your Microdrive controller may be programmed for more than one drive profile that allows the system to be custom tailored to your environment.

To select a profile setting:
1. Use the on/off switch to power on the chair and the controller.
2. Press the mode button.
3. Move the joystick left or right to select the desired drive profile. Each of the LEDs indicate a separate profile.

NOTE: The system can be programmed with 5 different profiles.
VII. OPERATION

Speed Adjustment
The Microdrive controller provides a speed control knob to control the speed of the power chair.

To change the speed:
1. Use the on/off switch to power on the chair and the controller.
2. To increase your speed, turn the speed control knob clockwise.
3. To decrease your speed, turn the speed control knob counterclockwise.

NOTE: The first few times you use your power chair, we recommend you set your speed to the slowest setting until you become familiar with your power chair.

Off-board Charger/Programming Socket
Used for off-board charger connection and joystick programming. Off-board chargers should not exceed 8 amps. Contact your Quantum Rehab Specialist for more information.

Sleep Mode
The Microdrive controller offers a sleep mode feature which will shut off the main power if the joystick remains stationary for a period of five minutes. The battery condition meter will indicate sleep mode by blinking once every five seconds. To restore power and resume operation of the chair, flip the on/off switch twice.

Thermal Rollback
The Microdrive controller is equipped with a thermal rollback circuit which monitors the temperature of the chair’s motors and controller. If either exceeds 122° F, the controller reduces the motor voltage by 5 volts for every degree over. This reduces the chair’s speed and allows a cool down period. Once the temperature returns to a safe level, the chair will resume normal operation.

Error Codes
In addition to indicating the current state of battery charge, the battery condition meter can also indicate possible problems with your power chair’s electrical system. If any of the battery condition meter lights are flashing rapidly, the controller may be indicating an error. Error codes are displayed as a number of flashing lights. For instance, if the first light is flashing rapidly, the battery voltage is nearly depleted. The following table identifies the individual error codes, probable causes, and possible solutions. If you get one of these error codes, contact your Quantum Rehab Specialist.

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VII. OPERATION

REMOTE PLUS CONTROLLER
The electronic controller is what you use to operate your power chair. The electronic controller enables you to move the power chair, as well as monitor battery charge, electronic controller functions, and the condition of your electrical system. The Remote Plus is part of a modular electronic controller system. The system consists of more than one module. Typically, the Remote Plus is mounted to one of the armrests. See figure 29. It is connected to a power module located on the power base through the controller communications cable. The Remote Plus may be used to control some optional systems, such as power tilt or reclining seats through a module located on the power base.

The controller supplied with your power chair has been pre-programmed to meet your needs. The program is set using either a personal computer with software provided by the controller manufacturer or with a hand-held programmer, also provided by the controller manufacturer.

**WARNING!** The controller program can affect speed, acceleration, deceleration, and braking. If it is programmed incorrectly or outside of the safe limits as determined by your healthcare professional, it can create a dangerous situation. Only the power chair manufacturer, an authorized representative of the manufacturer, or a trained service technician should program the controller.

The Remote Plus consists of the following:
1. joystick
2. keypad
3. controller communications cable
4. off-board charger/programming socket

**Joystick**
The joystick controls the direction and speed of your power chair. When you move the joystick from the neutral (center) position, the electromagnetic brakes release and allow your power chair to move. The farther you push the joystick from its neutral position, the faster your power chair moves. When you release the joystick and allow it to return to the neutral position, you engage the electromagnetic brakes. This causes your power chair to decelerate and come to a complete stop.

**WARNING!** If your power chair begins to move in an unexpected manner, immediately release the joystick. Unless the joystick is damaged, this action should stop your power chair.

**Keypad**
The keypad is located directly in front of the joystick. It contains keys that you will use to control your power chair. See figure 30.

**On/Off Key**
The on/off key turns the system on and off.

**WARNING!** Unless faced with an emergency situation, do not use the on/off key to stop the chair. This will cause the power chair to stop abruptly.

**WARNING!** Always turn the power off when you are stationary to prevent unexpected movement.
**Mode Key (Speed Settings)**

The mode key controls the speed settings. The Remote Plus speed settings range from 1 to 5. Typically, the slowest speed setting is 1 and the fastest speed setting is 5. The settings are indicated by the number of lights that are lit on the speed setting indicator.

*NOTE: The speed settings are preset at the factory. If your Quantum Rehab Specialist changes the order of these settings, please make note of these changes. Contact your Quantum Rehab Specialist for more information.*

To select a speed setting:
1. Press the on/off key to power on the controller.
2. Press the mode key once.
3. To increase chair speed, push the joystick to the right. Each time you push the joystick, you will increase the speed setting in the speed setting indicator.
4. To decrease chair speed, push the joystick to the left. Each time you push the joystick, you decrease the speed setting in the speed setting indicator.
5. Once you select the desired speed setting, press the mode key once to keep the setting or push the joystick in the forward or reverse direction. The chair will resume operation at the selected speed.

*NOTE: We recommend that the first few times you operate your power chair, you have your speed on the slowest setting until you become familiar with your new power chair.*

**Horn Key**

The horn key activates the horn.

**Battery Condition Meter**

The battery condition meter is a 10-segment illuminated display located in front of the joystick. When the lights are on, it indicates that there is power to the Remote Plus. The lights also indicate battery status, Remote Plus operational status, and electrical system status.

- **Red, yellow, and green lights lit:** Batteries charged; controller and electrical system OK.
- **Red and yellow lights lit:** Charge batteries if possible; controller and electrical system OK.
- **Red lights only lit or slow flash:** Charge batteries as soon as possible; controller and electrical system OK.
- **Rapid flash of lights:** Indicates an error in the controller or the electrical system. See “Remote Plus Error Codes.”
- **Ripple up and down of lights:** The joystick was not in the neutral position when the controller was turned on. If you get “ripple up and down of lights,” turn off the controller and allow the joystick to return to the neutral position. Then turn on the controller.

*NOTE: If you still get “ripple up and down of lights,” contact your Quantum Rehab Specialist.*
NOTE: When the batteries approach a discharged state, the first red light will begin to slowly flash, reminding you the batteries need to be charged immediately!

Power Accessories/Power Accessory Indicator (Optional)
If your power chair is equipped with power accessories such as a power tilt or power elevating leg rests, you can operate them through the keypad. The power accessory indicator indicates the selected power accessory. Contact your Quantum Rehab Specialist for more information.

Off-board Charger/Programming Socket
The off-board charger/programming socket is located on the front of the Remote Plus. If you use an off-board charger, the charger current should not exceed 8 amps. Contact your Quantum Rehab Specialist for more information.

WARNING! Only chargers with Neutrik NC3MX plugs should be connected to the off-board charger/programming socket. See your Quantum Rehab Specialist for more information.

Controller Communications Cable
The controller communications cable provides the Remote Plus with a connection to the power module.

Sleep Mode
Your Remote Plus controller has a sleep mode feature. Sleep mode is a built-in circuit that automatically shuts off the main power if the joystick is not moved in any direction for approximately five minutes. The battery condition meter lights on the keypad indicate sleep mode by blinking once every five seconds. To restore power and continue, push the on/off key twice.

Thermal Rollback
The Remote Plus is equipped with a thermal rollback circuit. This circuit monitors the temperature of the motors, power module, and remote. In the event that any of them become excessively hot (above 122° F), motor voltage is reduced. For every degree above 122° F, the voltage is reduced by 5 volts. This reduces your power chair’s speed and allows the electrical components to cool down. When the temperature returns to a safe level, your power chair resumes its normal speed.

Remote Plus Error Codes
In addition to indicating the current state of battery charge, the battery condition meter can also indicate possible problems with your power chair’s electrical system. If any of the battery condition meter lights are flashing rapidly, the controller may be indicating an error. Error codes are displayed as a number of flashing lights. For instance, if the first light is flashing rapidly, the battery voltage is nearly depleted. The following table identifies the individual error codes, probable causes, and possible solutions. If you get one of these error codes, contact your Quantum Rehab Specialist.
## VII. OPERATION

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CARE AND MAINTENANCE
The Quantum Dynamo 1107 is a sophisticated power chair. Like any motorized vehicle, it requires routine maintenance checks. You can perform some of these checks, but others require assistance from your Quantum Rehab Specialist. Preventive maintenance is very important. If you follow the maintenance checks in this section as scheduled, you can help ensure that your power chair gives you years of trouble-free operation. If you have any doubt as to your power chair’s care or operation, contact your Quantum Rehab Specialist.

WARNING! Prevent injury. Do not service the power chair when the seat is occupied.

Your power chair, like most electrical equipment, is susceptible to damage from the elements. Avoid damp areas of any kind.

WARNING! Direct exposure to water or dampness could cause the power chair to malfunction electronically and mechanically. Water can cause electrical components to corrode and the chair’s frame to rust.

Should your power chair come in contact with water:
1. Dry your power chair as thoroughly as possible with a towel.
2. Allow your power chair to sit in a warm, dry place for 12 hours to allow unseen water to evaporate.
3. Check the joystick operation and the brakes before using your power chair again.
4. If any inconsistencies are found, take your power chair to your Quantum Rehab Specialist.

Temperature
- Some of the parts of your power chair are susceptible to extreme changes in temperature. Always keep your power chair between the temperatures of 18° F and 122° F.
- In extremely cold temperatures the batteries may freeze. The specific temperature at which they freeze depends on a number of factors, such as battery charge, usage, and composition of the batteries (e.g., AGM or Gel-Cell).
- Temperatures above 122° F may cause your power chair to operate at a reduced speed. This reduced speed is a safety feature built into the controller that helps prevent damage to the motor and other electrical components.

General Guidelines
- Avoid knocking or bumping the controller, especially the joystick.
- Avoid prolonged exposure of your power chair to extreme conditions, such as heat, cold, or moisture.
- Keep the controller clean.
- Check all connectors to ensure that they are all tight and secured properly.
- Make sure the drive tires are inflated to 35 psi (2.4 bar) if equipped with pneumatic tires.

WARNING! Overinflating tires can cause them to explode and can result in personal injury.

WARNING! Do not use a high pressure hose to inflate your tires.

- Use a rubber conditioner on the tire sidewalls to help preserve them.

WARNING! Never use a rubber conditioner on the tread area of the tires; doing so may make the tires slippery and cause your power chair to skid.

- The body shroud has been sprayed with a clear sealant coating. You can apply a light coat of car wax to help it retain its high-gloss appearance.
- Check all electrical connections. Make sure they are tight and are not corroded.
VIII. CARE AND MAINTENANCE

- All wheel bearings are prelubricated and sealed. They require no subsequent lubrication.

Daily Checks
- With the controller turned off, check the joystick. Make sure it is not bent or damaged and that it returns to the neutral position when you release it. 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 your Quantum Rehab Specialist if there is a problem.
- Visually inspect the controller cable. Make sure that it is not frayed, cut, or has any wires exposed. See your Quantum Rehab Specialist if there is a problem.
- Check for flat spots on solid tires. Flat spots could adversely affect stability.

Weekly Checks
- Disconnect and inspect the controller battery door. Look for corrosion. Contact your Quantum Rehab Specialist if necessary.
- Ensure that all parts of the controller system are securely fastened to your power chair. Do not overtighten any screws.
- Check for proper tire inflation. There should be **35 psi (2.4 bar)** in each tire. If a tire does not hold air, see your Quantum Rehab Specialist for replacement of the tube.
- Calibrate the joystick if a noticeable difference in performance is detected or if the joystick does not operate properly. To calibrate the joystick, power off the unit, place the joystick in the neutral position, and power the unit back on. If a problem still exists with your joystick’s performance, contact your authorized Pride Provider.
- Check the brakes. This test should be carried out on a level surface with at least three feet of clearance around your power chair.

To check the brakes:
1. Turn on the controller and turn down the speed level of your power chair.
2. After one second, check the battery condition meter. Make sure that it remains on.
3. Slowly push the joystick forward until you hear the electromagnetic brakes click. Immediately release the joystick. You must be able to hear each electromagnetic brake operating within a few seconds of joystick movement. Repeat this test three times, pushing the joystick backward, then left, and then right.

Monthly Checks
- Check that the anti-tip wheels do not rub the ground when you operate the power chair. Adjust them as necessary. See V. “Comfort Adjustments.”
- Check for extreme wear on the anti-tip wheels. Replace them as necessary.
- Check for drive tire wear. See your Quantum Rehab Specialist for repair.
- Check the caster wheels for wear. Replace them as necessary.
- Check the caster forks for damage or fluttering which indicates that they may need to be adjusted or have the bearings replaced. See your Quantum Rehab Specialist for repair.
- Keep your power chair clean and free of foreign material, such as mud, dirt, hair, food, drink, etc.

Yearly Checks
Take your power chair to your Quantum Rehab Specialist for yearly maintenance. This helps ensure that your power chair is functioning properly and helps prevent future complications.

Storage
Your power chair should be stored in a dry place, free from temperature extremes. When storing, disconnect the batteries from the power chair. See VI. “Batteries and Charging.”
**VIII. CARE AND MAINTENANCE**

**WARNING!** If you fail to store the unit properly, the frame can rust and the electronics can be damaged.

**Disposal of Your Power Chair**
Your power chair must be disposed of according to applicable local and national statutory regulations. Contact your local waste disposal agency or Quantum Rehab Specialist for information on proper disposal of power chair packaging, metal frame components, plastic components, electronics, and batteries.

**Cleaning and Disinfection**
- Use a damp cloth and mild, non-abrasive cleanser to clean the plastic and metal parts of your power chair. Avoid using products that may scratch the surface of your power chair.
- If necessary, clean your product with an approved disinfectant. Make sure the disinfectant is safe for use on your product before application.

**WARNING!** Prevent personal injury and product damage! Follow all safety instructions for the proper use of the disinfectant before applying it to your product.

**WARNING!** Never hose off your power chair or place it in direct contact with water. Your power chair has a painted, ABS plastic body shroud that allows it to be easily wiped clean with a damp cloth.

**WARNING!** Never use any chemicals to clean a vinyl seat, as they may cause the seat to become slippery or dry out and crack. Use soapy water and dry the seat thoroughly.

**Wheel Replacement**
If you have pneumatic tires and you have a flat tire, you can replace the tube. If your chair is equipped with a solid tire insert, then you must replace the entire wheel assembly. Replacement tires, tubes, and wheel assemblies are readily available through your Quantum Rehab Specialist.

**WARNING!** To avoid possible injury, be sure that the controller’s power is turned off and the power chair is not in freewheel mode before performing this procedure.

**WARNING!** Completely deflate pneumatic tires before attempting repair.

---

**Figure 31. Quantum Dynamo 1107 Drive Wheel**

**Figure 32. Quantum Dynamo 1107 Drive Wheel Disassembled**
Follow these easy steps for a quick and safe repair for both pneumatic and solid tires:

1. Turn off the power to the controller.
2. Set the power chair up on blocks.
3. If you are changing a pneumatic tire, completely deflate it before removing the wheel.
4. Remove the drive wheel nut and washer from the axle. See figure 31.
5. Pull the wheel off the axle.
6. Remove the nuts and washers from the wheel hub and separate the rim halves. See figure 32.
7. Remove the old tube from the pneumatic tire and replace it with a new tube or replace the entire assembly if it is a solid tire.
8. Reassemble the rim halves and reinstall the nuts and washers to the wheel hub.
9. Slide the wheel back onto the axle. Make sure that the key is in the axle slot.
10. Reinstall the drive wheel nut and washer onto the axle and tighten.
11. Inflate the pneumatic tires to **35 psi (2.4 bar)** if equipped with pneumatic tires.
12. Remove the power chair from the blocks.

**Battery Replacement**

A battery wiring diagram is printed on a decal located inside the battery box lid. See VI. “Batteries and Charging” for correct battery specifications.

**WARNING!** Prevent injury. Do not replace battery when seat is occupied.

**WARNING!** Battery posts, terminals, and related accessories contain lead and lead compounds. Wear goggles and gloves when handling batteries and wash hands after handling.

**WARNING!** Power chair batteries are heavy. See specifications table. If you are unable to lift that much weight, be sure to get help. Lifting beyond your capacity can result in personal injury.

**WARNING!** Prevent injury and/or equipment damage! Do not mix or match new and old batteries. If you encounter a situation where one battery needs to be replaced, then replace both batteries. Refer to specification table in this manual supplied with battery charger for recommended type and capacities.
VIII. CARE AND MAINTENANCE

To replace the batteries:
1. Turn off the power to the controller.
2. Make sure that the power chair is in drive mode. See III. “Your Power Chair.”
3. Remove the battery boxes. See IV. “Assembly/Disassembly.”
4. Disconnect the wiring harnesses from the batteries.
5. Remove the batteries from the battery boxes.
6. Place new batteries in the battery boxes. See figure 33.
7. Reconnect the battery harnesses according to the battery wiring diagram label. See figure 34.

WARNING! Prevent injury. Make sure you tighten the fasteners so that the connections are secure.

8. Reinstall the battery boxes onto the power base. Make sure that the battery box latches are in the up (locked) position.
9. Charge the batteries. See VI. “Batteries and Charging.”

When to See Your Quantum Rehab Specialist for Service
The following symptoms could indicate a serious problem with your power chair. If necessary, contact your Quantum Rehab Specialist. When calling, have the model number, serial number, nature of the problem, and the error code if available.

- Motor noise
- Frayed harnesses
- Cracked or broken connectors
- Uneven wear on any of the tires
- Jerky motion
- Pulling to one side
- Bent or broken wheel assemblies
- Does not power up
- Powers up, but does not move

Corrective Maintenance
If the battery condition meter does not light up when you turn on the power:

- Check the harness connections. Make sure they are tight.
- Check the circuit breaker. Reset it if necessary.
- Check the battery connections.

If the above conditions prove normal, you can load test the batteries with a battery load tester. These testers are available at automotive parts stores. Disconnect both batteries before load testing and follow the directions that come with the load tester. If either one of the batteries fails the load test, replace both of them. If your power chair still does not power up, contact your Quantum Rehab Specialist.
## IX. WARRANTY

### LIFETIME LIMITED WARRANTY
For the lifetime of your power chair from the date of purchase, Pride will repair or replace at our option to the original purchaser, free of charge, any of the following parts found upon examination by an authorized representative of Pride to be defective in material and/or workmanship:

**Structural frame components, including:**
- Main Frame
- Fixed-position seat post

### TWO-YEAR LIMITED WARRANTY
For two (2) years from the date of purchase, Pride will repair or replace at our option to the original purchaser, free of charge, any of the following parts found upon examination by an authorized representative of Pride to be defective in material and/or workmanship:

**Electronic components, including:**
- Charger Assembly
- Controller
- Joystick

**Main frame assemblies, including:**
- Anti-tip forks
- Caster forks
- Caster beam
- Metal seat framing

**Other components, including:**
- Foot riggings
- Electrical Harness
- Foot rigging mounting brackets

### 18-MONTH LIMITED WARRANTY
For eighteen (18) months from the date of purchase, Pride will repair or replace at our option to the original purchaser, free of charge, any of the following parts found upon examination by an authorized representative of Pride to be defective in material and/or workmanship:

- Motor/gearbox assembly
- Power seat actuator

### ONE-YEAR LIMITED WARRANTY
For one (1) year from the date of purchase, Pride will repair or replace at our option to the original purchaser, free of charge, any of the following parts found upon examination by an authorized representative of Pride to be defective in material and/or workmanship:

- Accessories
- Brakes (electronic function ONLY)

### SIX-MONTH LIMITED WARRANTY
For six (6) months from the date of purchase, Pride will repair or replace at our option to the original purchaser, free of charge, any of the following parts found upon examination by an authorized representative of Pride to be defective in material and/or workmanship:

- Bearings and bushings
- Plastic components, except body

The battery is covered by a separate six-month warranty, provided by the battery manufacturer. The batteries are not warranted by Pride.
IX. WARRANTY

RECONDITIONED UNITS WARRANTY
All reconditioned units are covered by a six-month warranty from Pride effective from the date of purchase.

WARRANTY EXCLUSIONS
This warranty does not extend to those items which may require replacement due to normal wear and tear.

- ABS Plastic shrouds
- Motor brushes
- Upholstery and seating
- Brake Pads
- Tires and tubes
- Fuses/Bulbs
- Circumstances beyond the control of Pride
- Labor, service calls, shipping, and other charges incurred for repair of the product, unless specifically authorized, IN ADVANCE, by Pride Mobility Products Corporation
- Repairs and/or modifications made to any part without specific consent from Pride

Exclusions also include components with damage caused by:

- Contamination
- Abuse, misuse, accident, or negligence
- Battery fluid spillage or leakage
- Commercial use, or use other than normal
- Improper operation, maintenance, or storage

NOTE: Gradual deterioration in performance because the battery has been left in a discharged state, left in cold conditions for an extended period of time, or worn out through heavy use is not covered.

SERVICE CHECKS AND WARRANTY SERVICE
Warranty service must be performed by a Quantum Rehab Specialist. Do not return faulty parts to Pride without prior written authorization. All transportation costs and shipping damage incurred while submitting parts for repair or replacement are the responsibility of the purchaser.

Failure to follow the instructions, warnings, and notes in the owner’s manual and those located on your Pride product can result in personal injury or product damage and will void Pride’s product warranty.

There is no other express warranty.

IMPLIED WARRANTIES
Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one (1) year from the date of purchase and to the extent permitted by law. Any and all implied warranties are excluded. This is the exclusive remedy. Liabilities for consequential damages under any and all warranties are excluded.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion of limitation incidental or consequential damages. The above limitation or exclusion may not apply to you.

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

Please fill out and return the product registration card to Pride. This will aid Pride in providing the best possible technical and customer service.
Thank you for making the Quantum Dynamo 1107 your choice in power chairs.

We have thoroughly inspected your Quantum Dynamo 1107. The following check marks indicate that it has been tested, driven, and inspected.

In Quality

Quality Control - Quantum Dynamo 1107

☐ Inclusion of all Parts

☐ Fit and Finish

☐ Performance

Joystick Serial Number

Controller Serial Number

Left Motor Serial Number

Right Motor Serial Number

Pride keeps a more detailed report on file at the factory.

Date Inspected

Inspector

*1 NF MANU2945*  
Product Serial #