

Owner's Manual

QUANTUM Blast™

Includes HD, 850, 650, and X-Treme

ATTENTION:
Please read the content
of your owner's manual
before operating your
power chair.



"Quantum Blast X-treme"

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SAFETY GUIDELINES

Please read and follow all instructions in this owner's manual before attempting to operate your power chair for the first time. If there is anything in this manual you do not understand, or if you require additional assistance for set-up, contact your authorized Pride provider.

Using your Pride product safely depends upon your diligence in following the warnings, cautions, and instructions in this owner's manual. Using your Pride product safely also depends upon your own good judgement and/or common sense, as well as that of your provider, caregiver, and/or healthcare professional. Pride is not responsible for injuries and/or damage resulting from any person's failure to follow the warnings, cautions, and instructions in this owner's manual. Pride is not responsible for injuries and/or damage resulting from any person's failure to exercise good judgement and/or common sense.

The symbols below are used throughout this owner's manual to identify warnings and cautions. It is very important for you to read and understand them completely.



WARNING! Failure to heed the warnings in this owner's manual may result in personal injury.



CAUTION! Failure to heed the cautions in this owner's manual may result in damage to your power chair.

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I . I N T R O D U C T I O N

INTRODUCTION

Welcome to Pride Mobility Products Corporation (Pride). Congratulations on the purchase of your new Pride Power Chair. The Pride Power Chair design combines the most advanced state-of-the-art components with modern, attractive styling. We are certain that the design features and trouble-free operation of your new power chair will add convenience to your daily living.

At Pride, your safety is important to us. Please read and follow all of the instructions in this manual before you attempt to operate your power chair for the first time. These instructions were produced for your benefit. Your understanding of these instructions is essential for the safe operation of your new power chair.

Pride is not liable for damage to property or personal injury arising out of unsafe use of a power chair. Pride is also not liable for any property damage or personal injury arising out of the failure of any person and/or user to following the instructions and recommendations set forth in this manual or any other instructions or recommendations contained in other power chair related literature issued by Pride or contained on the power chair itself.

This owner's manual is compiled from the latest specifications and product information available at the time of publication. We reserve the right to make changes as they become necessary. Any changes to our products may cause slight variations between the illustrations and explanations in this manual and the product you have purchased.

If you experience any problems with your power chair that you are unable to solve, or if you do not feel capable of safely following any of the instructions and/or recommendations as contained in this manual, please contact your authorized Pride provider for assistance.

Once you understand how to operate and take care of your power chair, we are certain that it will give you years of trouble-free service and enjoyment.

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 authorized Pride provider.

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
customer@pridemobility.com
800-424-8205

I . I N T R O D U C T I O N

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 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 invited 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 Authorized Pride Provider Is:

Name: _____

Address: _____

Phone Number: _____

Purchase Date: _____

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.

II. SAFETY

SAFETY



WARNING! 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 authorized Pride provider 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 the user become accustomed to operating the 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 authorized Pride provider 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. See IX. "Care and Maintenance."

Perform the following inspections prior to using your power chair:

- Check for proper tire inflation. Maintain **30-35 psi** 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 electronics tray. Make sure they are secured properly.
- Check the brakes. See IX. "Care and Maintenance."
- Check battery charge. See VII. "Batteries and Charging."

NOTE: If you discover a problem, contact your authorized Pride provider 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 at least once a week. 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 30-35 psi 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 30-35 psi 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 Jazzy.

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 VIII. "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 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 backwards. This may result in personal injury.

II. SAFETY



WARNING! Even though your power chair is capable of climbing slopes greater than those illustrated in figures 1 and 2, 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°. 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°. See figure 1.



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

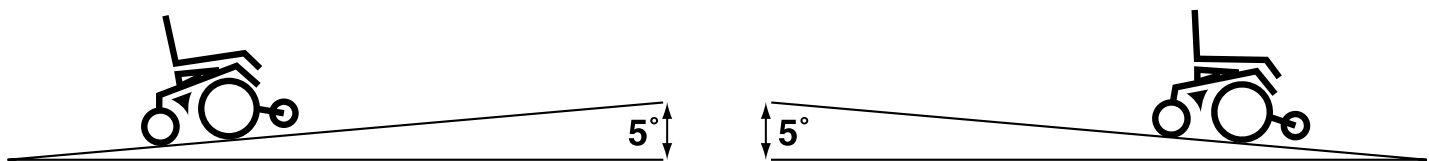


Figure 1. Maximum Safe Angle (Ascending and Descending)

Braking Information

Your power chair is equipped with two powerful brake systems:

1. Regenerative—uses electricity to rapidly slow the vehicle when the joystick returns to the center/stop position.
2. 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 in back and anti-tip wheels in front, 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 lever 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 IV. “The Quantum Blast.”

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.

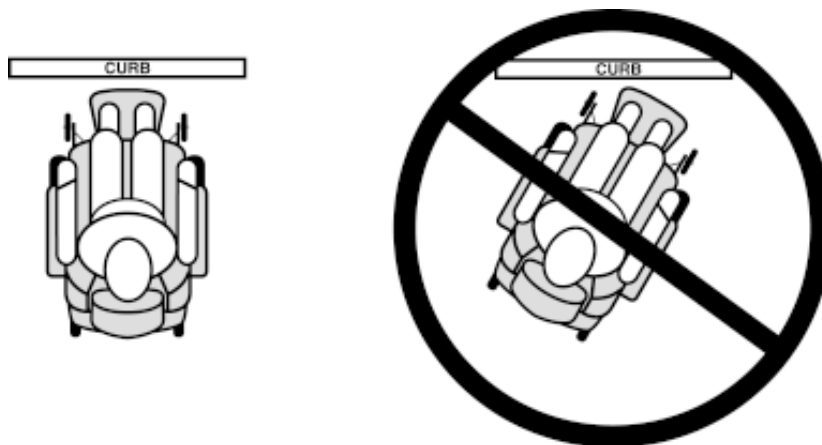


Figure 2. Curb Approach (Correct and Incorrect)

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.

II. SAFETY

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.

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 all 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.

EMI & RFI

Laboratory tests performed by the Food and Drug Administration (FDA) have shown that radio waves can cause unintended motion of electric mobility vehicles. Radio waves are a form of electromagnetic energy (EM). When EM adversely affects the operation of an electronic device, it is called Electromagnetic Interference (EMI) or Radio Frequency Interference (RFI). For more information, see III. “EMI/RFI.”

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.

Motor Vehicle Transport

Currently, there are no standards approved for tie-down systems in a moving vehicle of any type to transport a person while seated in a power chair.

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 the power off. See VIII. “Operation.”
- Ensure your power chair is not in freewheel mode. See IV. “The Quantum Blast.”
- 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 the footrest up, or move the leg rests aside; this will help to keep your feet from getting caught on the footrest or the leg rests during the transfer.
- Reduce the distance between your power chair and the object you are transferring onto.

II. SAFETY

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 footrest. Such use may cause the power chair to tip and cause personal injury.

Positioning Belts

Your authorized Pride provider, 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 Jazzy 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.

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.

Inclement Weather Precautions



WARNING! Pride recommends that you do not operate your power chair in icy or slippery conditions or on salted surfaces (i.e., walks or roads). Such use may adversely affect the performance and safety of your power chair, resulting in an accident and personal injury.

WARNING! Do not expose your power chair to any type of moisture at any time (rain, snow, mist, or wash). Such exposure can damage your power chair. Never operate your power chair if it has been exposed to moisture until it has dried thoroughly.

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. Keep your hands away from the tires when driving.

II. SAFETY

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 VII. "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.

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 (EM) sources. Failure to do so may result in personal injury.

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.

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.

III. EMI / RFI

EMI/RFI

Laboratory tests performed by the Food and Drug Administration (FDA) have shown that radio waves can cause unintended motion of power chairs. Radio waves are a form of electromagnetic energy. When this energy adversely affects the operation of an electronic device, it is called Electromagnetic Interference (EMI) or Radio Frequency Interference (RFI).



WARNING! Radio waves may interfere with the control of power chairs.

Frequently Asked Questions (FAQs)

The following FAQs summarize what you should know about EMI/RFI. Use this information to minimize the risk that EMI/RFI will affect your power chair.

Where do radio waves come from?

Radio waves are emitted from the antennas of cellular phones, mobile two-way radios (such as walkie-talkies), radio stations, TV stations, amateur radio (HAM) transmitters, wireless computer links, microwave sources, and paging transmitters. Radio waves are a form of electromagnetic energy (EM). Because electromagnetic energy is more intense closer to the transmitting antenna (source of emission), the EM fields from two-way radios are of special concern to power chair users.

If my power chair is affected by EMI/RFI, what kind of motion should I expect?

This is hard to predict. It would depend on a number of factors:

- Strength of the radio waves
- Construction of the power chair
- Position of the power chair (whether it is on level ground or on an incline)
- Whether or not the power chair is in motion

An affected power chair's movement can be erratic. It may move by itself or come to a sudden stop. Furthermore, it is possible for EMI/RFI to unexpectedly release the brakes on a power chair. Some intense sources of EMI/RFI can even damage the control system of the Blast.

Is there any way to know for sure whether radio waves are responsible for the unintended motion of my power chair?

Unfortunately, interference from radio wave sources may be difficult to recognize, since the signals from these sources are invisible and may be intermittent. However, the FDA recommends that you report all incidents of unintended motion or brake release to the power chair manufacturer and, if possible, note whether there was a radio wave source nearby at the time of the incident.

Has anyone been hurt from erratic, unintended motion of power chairs?

The FDA has reports of injuries that resulted from the apparent uncontrolled motion of power chairs. However, it is unclear how many of these incidents were actually caused by radio wave interference.

Are all power chairs susceptible to EMI/RFI?

Each make and model of chair differs in its ability to resist electromagnetic interference. That is, each has a particular level of "immunity" to interference, measured in volts per meter (Vm). A higher immunity level offers greater protection. In other words, a power chair with a high immunity level is less likely to be affected by a strong radio source than one with a low immunity level.

III. EMI / RFI

What is the FDA doing about the problem?

The FDA has written to the manufacturers of power chairs and requested that they test their new products to be sure that they provide a reasonable degree of immunity against EMI/RFI. The letter states that power chairs should have an immunity of at least 20 V/m. This provides a reasonable degree of protection against the common sources of EMI/RFI.

The FDA has also requested that these manufacturers clearly label their products with the immunity level, or state that the immunity level is not known. The labeling and informational material supplied with the power chair must explain what the immunity level means, and the labeling or informational material must warn users about the possibility of EMI/RFI and how to avoid it. In addition, the FDA has recommended that manufacturers establish an educational program to inform users of power chairs, and their caregivers, about the problems associated with EMI/RFI, and the actions they can take to minimize the risk.

What can I do to find out if my power chair is likely to be affected by EMI/RFI?

If you've had your power chair for a long time and haven't experienced any unintended motion, it is not likely that you will have problems in the future. But it is always possible that problems could arise if you are close to a source of radio waves. Therefore, it is very important to be alert to this possibility. The Blast meets or exceeds an immunity level of at least 20 V/m.

What can I do to reduce the risk that my power chair could be affected by EMI/RFI?

Here are some precautions you can take:

- Do not turn on or use hand-held personal communications devices, such as citizens band (CB) radios and cellular phones, while the power chair is on.
- Be aware of nearby transmitters, such as radio or TV stations and hand-held or mobile two-way radios, and try not to come close to them. For example, if you are in a power chair with an immunity level of 20 V/m, you should remain at least three feet from a hand-held two-way radio and ten feet from a mobile two-way radio.
- Be aware that adding accessories and/or components, or modifying the power chair may make it more susceptible to interference from radio wave sources. There is no easy way to evaluate their effect upon the overall immunity of the power chair.

What should I do if my power chair moves unexpectedly?

If unintended motion or brake release occurs, turn the power chair off as soon as it is safe to do so. Call Pride at 800-424-8205 to report the incident.

IV. THE QUANTUM BLAST

THE QUANTUM BLAST

The Blast has two main assemblies: the seat assembly and the power base assembly. See figures 2, 3, and 4. Typically, the seat assembly includes the armrests, seatback, and seat base. The standard seat for the 650 is the highback with headrest. Information on adjusting the highback seat is in VI. "Comfort Adjustments." The standard seat for the HD, 850, and X-Treme is the Synergy Seat. Synergy Seat information is contained in the "Synergy Seat Basic Operating Instructions" which is in the owner's package. Information on optional seats is contained in other literature that accompanies this owner's manual. The Blast seat may also have some optional accessories attached to it, such as a basket, a cane/crutch holder, or a cup holder. See X. "Optional Accessories." The power base assembly is the heart of the Blast. The power base assembly includes two motor/brake assemblies, two drive wheels, two anti-tip wheels, two caster wheels, two batteries, and wiring harnesses.

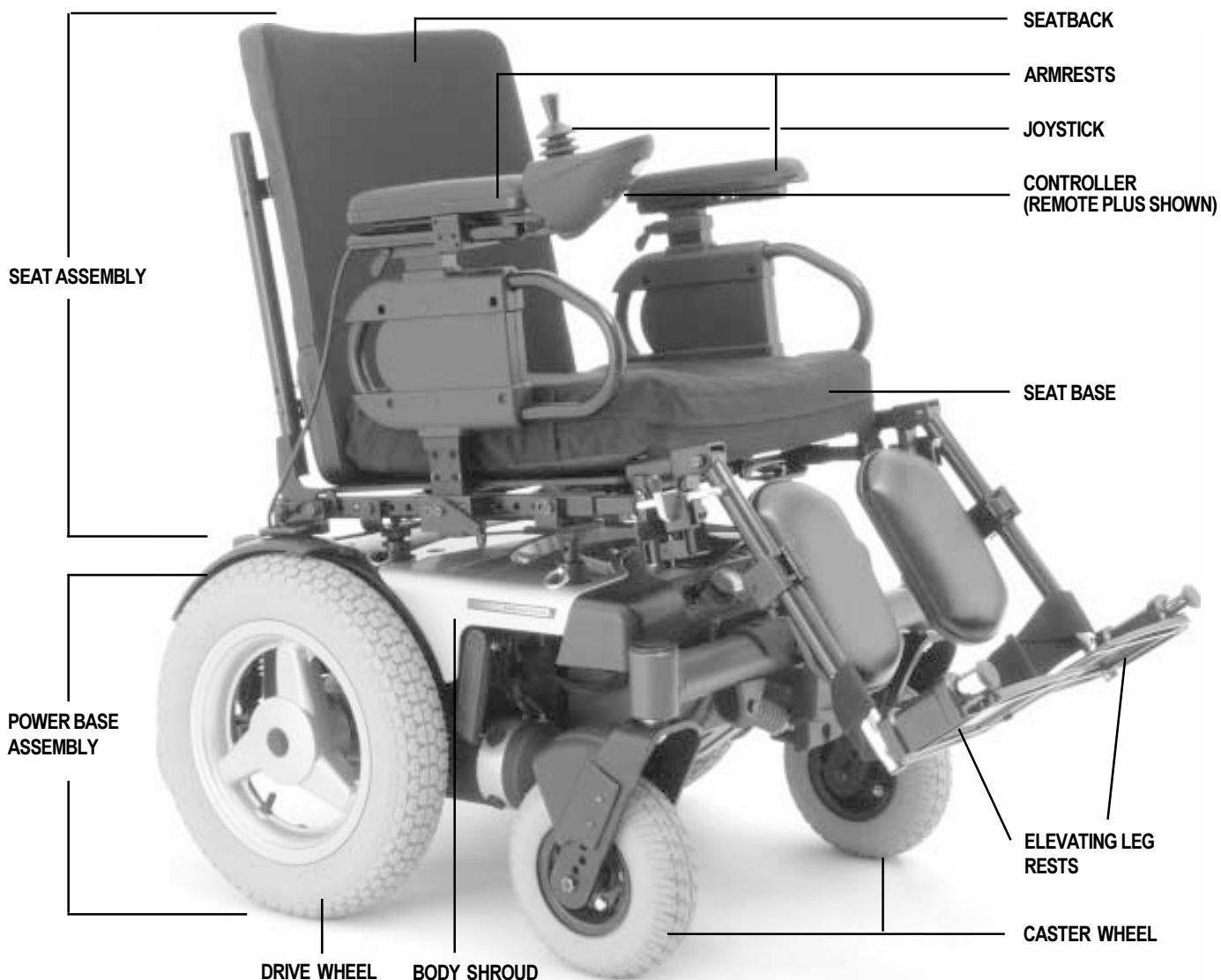


Figure 2. The Blast X-Treme (HD, 850, and 650 are similar.)

IV. THE QUANTUM BLAST

SPECIFICATIONS	
Suspension:	Sport Trac - rear All Conditions Caster Beam - front
Drive Wheels:	X-Treme — 16 in., pneumatic rear-mounted (<i>solid tires are optional</i>) HD/850/650 — 14 in., pneumatic rear-mounted (<i>solid tires are optional</i>)
Caster Wheels :	X-Treme/HD — 9 in., pneumatic, front articulating (<i>solid are optional</i>) 850/650 — 9 in., pneumatic, front articulating, (<i>9 in. solid and 8 in. solid are optional</i>)
Anti-tip Wheels:	6 in., solid, rear mounted
Maximum Speed:	X-Treme — up to 10 mph HD — (<i>HD motors and 400 lbs. capacity</i>) up to 7 mph 850 — (<i>4-pole motors and 300 lbs. capacity</i>) up to 8.5 mph 650 — (<i>2-pole motors and 300 lbs. capacity</i>) up to 6.25 mph
Brakes:	“Intelligent Braking,” electronic regenerative, disc park brake
Ground Clearance:	3.75 in. (<i>X-Treme - 5.25 in.</i>)
Turning Diameter:	66 in. (turning radius 33 in.)
Overall Size:	Length: 33. in. Width: 25.5 in. (<i>X-Treme - 27 in.</i>)
Seating Options:	Synergy Seat (<i>standard on 850/HD/X-Treme, optional on 650</i>) Versa Tilt (<i>optional</i>) Medium Back Seat (<i>optional</i>) High Back Seat (<i>standard on 650, optional on HD/850/X-Treme</i>) Reclining Seat (<i>optional</i>)
Drivetrain:	Two motor, rear-wheel
Batteries:	Two 12-volt, Group 24 batteries
Range:	Up to 25 miles
Battery Charger:	5-amp, onboard 5-amp, off-board (<i>optional</i>)
Electronics:	70-amp Pilot (<i>standard on 650 only</i>) 70-amp P & G Remote Plus Controller (<i>optional on 650 only</i>) 70-amp Dynamic Europa Remote Controller (<i>optional on 650 only</i>) 100-amp P & G Remote Plus Controller (<i>standard on HD, 850, and X-Treme</i>)
Weight Capacity:	HD - 400 lbs. X-Treme/850/650 - 300 lbs.
Component Weights:	Base: 148 lbs. Seat: 37 lbs. (<i>High Back</i>) Versa Seat: 44 lbs. Batteries: 53.5 lbs. each
Warranty:	Lifetime limited warranty on frame Two-year warranty on electronics Eighteen-month warranty on drive motors

IV. THE QUANTUM BLAST

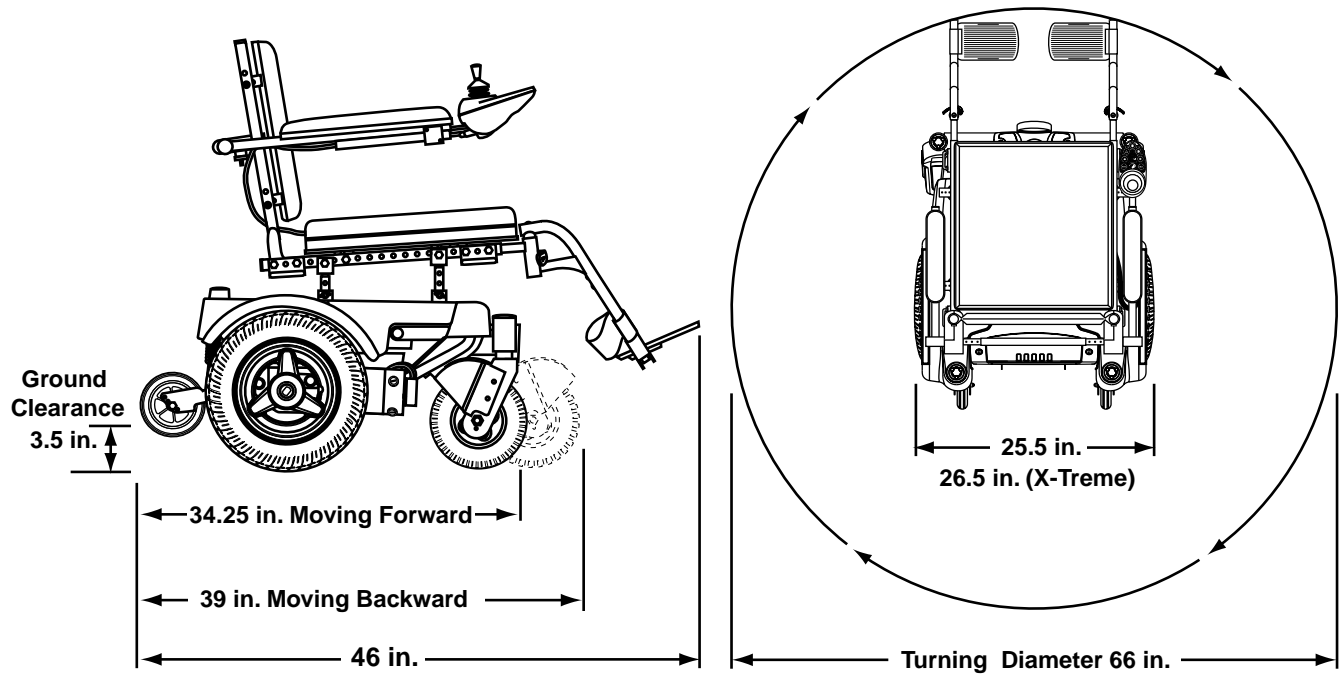


Figure 3. Blast Specifications

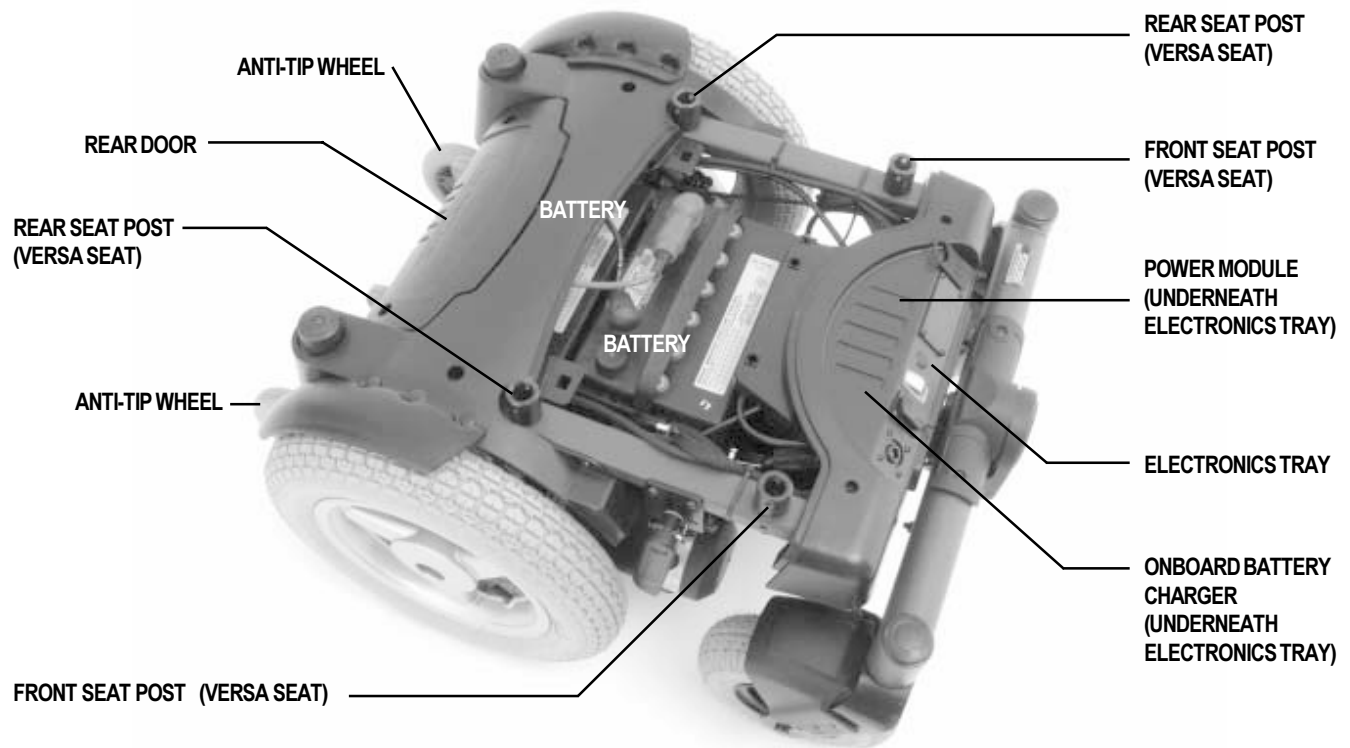


Figure 4. The Blast Power Base (Middle Shroud Removed)

IV. THE QUANTUM BLAST

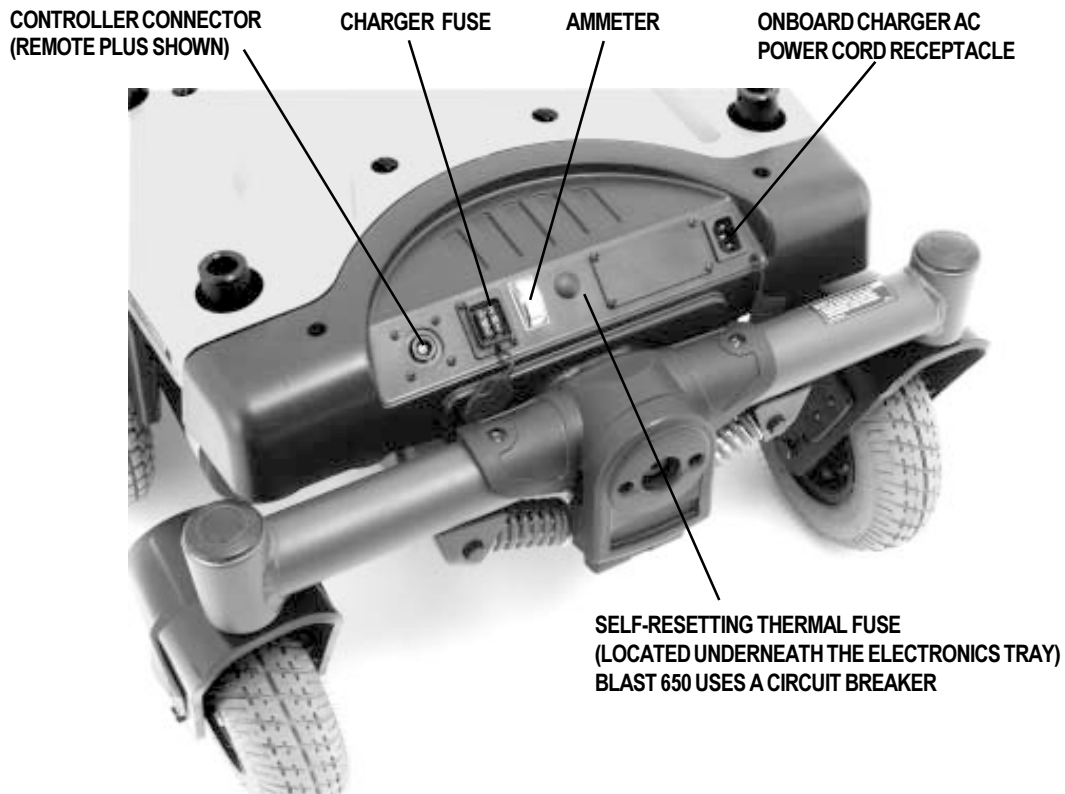


Figure 5. The Blast Electronics Tray (Seat Removed)

Electronics Tray

The electronics tray is located on the back of the power base. See figures 4 and 5. The ammeter, the onboard charger AC power cord receptacle, the main circuit breaker, the controller connector, and the charger inhibit connector are all located on the electronics tray.

Ammeter: The ammeter displays the charger’s current output in amps. See VII. “Batteries and Charging.”

Onboard Battery Charger AC Power Cord Receptacle: This is where the AC power cord plugs into the onboard charger.

Self-Resetting Thermal Fuse: The self-resetting thermal fuse is located inside the power base. It protects the battery circuit from overloading. When there is an excessive strain on the batteries from steep inclines or heavy load, the thermal fuse will reduce the amount of current going to the controller by 60%. The current will return to 100% when the fuse cools to within its normal operating temperature range.

Main Circuit Breaker (650 with 70 amp Pilot or 70 amp Remote only): The main circuit breaker is a safety feature built into your Jazzy. 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 Jazzy 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 authorized Pride provider.

IV. THE QUANTUM BLAST

Controller Connector: This is where the controller connects to the power base. The Remote Plus uses a small, multi-pin communications cable connector.

Charger Fuse: The charger fuse protects the ammeter from current overload. There are three fuses on the utility tray. The left one is the charger fuse. The right one is a spare.

Lighting System Connector (Not Shown): This is where the lighting system connects to the power base. Standard lighting systems have a single pin connector. Full lighting systems use a 3-pin connector.

Manual Freewheel Lever

For your convenience, your Blast is equipped with a manual freewheel lever. See figures 6 and 7. This lever allows you to disengage the drive motors and maneuver the chair manually.



WARNING! Do not use your Blast while the drive motors are disengaged unless you are in the presence of an attendant! Do not disengage the drive motors when your Blast is on an incline. The chair could roll down on its own, causing injury!



CAUTION! It is important to remember that when your Blast is in freewheel mode, the braking system is disengaged.

To operate the manual freewheel lever:

1. Pull out the manual freewheel lever and rotate it down for freewheel mode (drive disengaged). See figure 6.
2. Rotate the manual freewheel lever up for drive mode (drive engaged). See figure 7.

NOTE: If a lever is difficult to move in either direction, rock your Blast back and forth slightly. The lever should then move to the desired position.

MANUAL FREEWHEEL LEVER



Figure 6. Freewheel Mode (Drive Disengaged)



Figure 7. Drive Mode (Drive Engaged)

V. ASSEMBLY

SEAT INSTALLATION

Use the following instructions to assemble your Quantum Blast after unpacking. Refer to figures 1 and 2 and the *Synergy Seat Basic Operating Instructions* where necessary.



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

1. Make sure that the chair is in drive mode. See IV. “The Quantum Blast.”
2. Remove the ball detent pins from each of the four the seat pin receivers. See figure 8.
3. Place the seat at the desired height.
4. Install the ball detent pins back into the seat receivers.
5. Remove the rear seatback bracket bolts on each side of the seat frame. See figure 8.
6. Recline the seatback to the desired position.
7. Install the two seatback bracket bolts that were removed and tighten.
8. Tighten each of the four seat pin bracket bolts. See figure 1.
9. Install the controller into the armrest that has the controller mounting bracket. See figure 9.
10. Use a hex key to tighten the controller mounting bracket setscrews. See figure 9.
11. Route Remote harness under seat.



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

12. Secure with wire ties.
13. Install batteries. See IX. “Care and Maintenance.”
14. Charge batteries. See VII. “Batteries and Charging” for battery charging details.

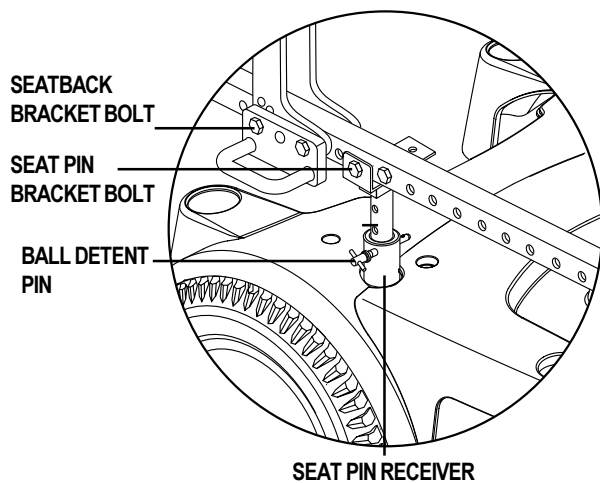


Figure 8. Seat Mounting Detail (Versa Seat Shown)



Figure 9. Controller Installation

VI. COMFORT ADJUSTMENT

COMFORT ADJUSTMENTS

After becoming familiar with your Blast's operation, you may find the need to make some adjustments to increase your comfort, such as seat height and angle, armrest height and angle, footrest height and angle, and the controller or master remote's position. If your Blast is equipped with either the Synergy Seat, the Versa Tilt or some other specialty seating system, refer to the information provided in separate manuals. If your Blast is equipped with a medium back, a highback, or a reclining seat, refer to the following information.



CAUTION! If your Blast was configured at your Pride provider, please consult your health care professional before changing the seat position or making any other adjustment. Some adjustments may degrade your Blast's performance and safety by changing its center of gravity.

You may need the following to make comfort adjustments:

- metric/standard hex key set
- metric/standard socket set and ratchet
- adjustable wrench

Seat Height and Angle Adjustment

There are four seat towers that connect the seat to the power base. See figure 4. You can change the seat height to one of three positions in 1-in. increments by raising the seat towers. If you raise or lower only one set of seat towers (either front set or rear set), you can also change the seat base angle.

To change the seat height or seat angle:

1. Unplug the controller from the electronics tray.
2. Remove the bolt that fastens the seat to each of the four seat towers.
3. Hold the seat by the seat base and lift the seat off the seat towers.



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

4. Set the seat aside.
5. Rotate the four fasteners on the middle shroud. See figure 10.
6. Lift off the shroud.
7. Remove the four fasteners on the back shroud and remove the shroud. See figure 10.
8. Remove the bolt that fastens each of the four seat towers to the frame. See figure 11.
9. Raise or lower each seat tower to the desired position. To change the angle, set either the front or rear seat towers higher or lower than the other.
10. Reinstall the bolt into each seat tower.
11. Reinstall the both rear and middle shrouds.
12. Reinstall the seat.
13. Plug the controller into the electronics tray.

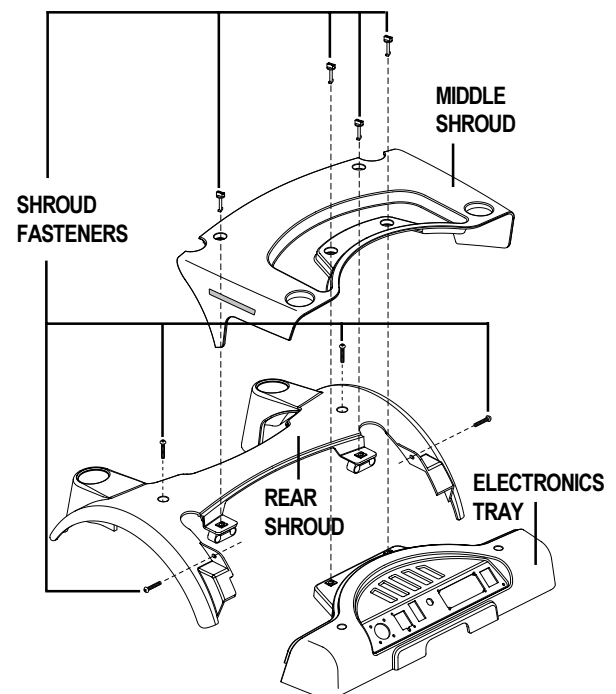


Figure 10. Shroud Attachment

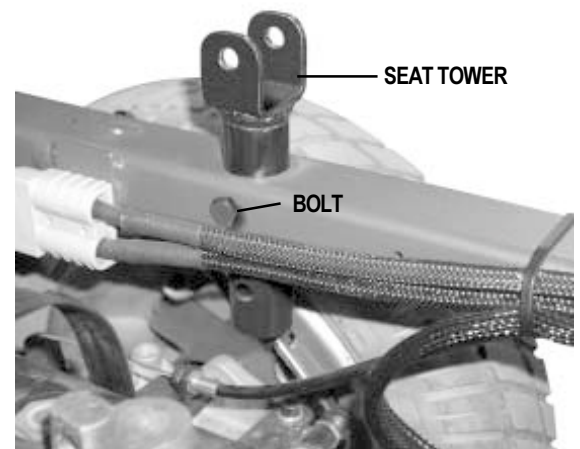


Figure 11. Seat Tower (Rear Shown)

Reclining Seat

If your Blast is equipped with a reclining seat, you can adjust the seatback angle with the seatback release lever. The lever is located on the side of the seat base.

To adjust the seatback angle:

1. Press down on the
2. Move the seatback down or up to the desired position.
3. Release the lever.

Seatback Angle Adjustment

If your Blast is equipped with an adjustable seatback, you can adjust it to four (4) different angles: 90°, 102°, 105°, or 107°.

To adjust the seatback angle:

1. Remove the adjusting screws on both seat hinges. See figure 12.
2. Set the seatback at desired angle.
3. Reinstall the screws on both seat hinges and tighten.

Armrest Width Adjustment

You can change each armrest's width independently of each other.

NOTE: Changing the armrest width may increase the overall width of your Blast.

To change the armrest width:

1. Locate the two armrest knobs on each side of the armrest receiver bracket. See figure 12.
2. Loosen the knobs.
3. Slide the armrests in or out to the desired width.
4. Tighten the knobs.

Armrest Angle Adjustment

To change the armrest angle:

1. Lift the armrest straight up so that it is perpendicular to the floor.
2. Loosen the jam nuts. See figure 12.
3. Loosen the adjusting screw.
4. Turn the adjusting screw clockwise to raise the front of the armrest, or turn the adjusting screw counterclockwise to lower the front of the armrest. See figure 12.
5. Tighten the jam nuts to lock the adjusting screw into place.

Footrest Height

The footrest height is easily adjusted to six different heights.

To raise or lower the footrest:

1. Use a hex key to remove the bolt, spacers, and nut from the footrest. See figure 13.
2. Raise or lower the footrest to the desired height.
3. Reinstall the bolt, spacers, and nut into the footrest.

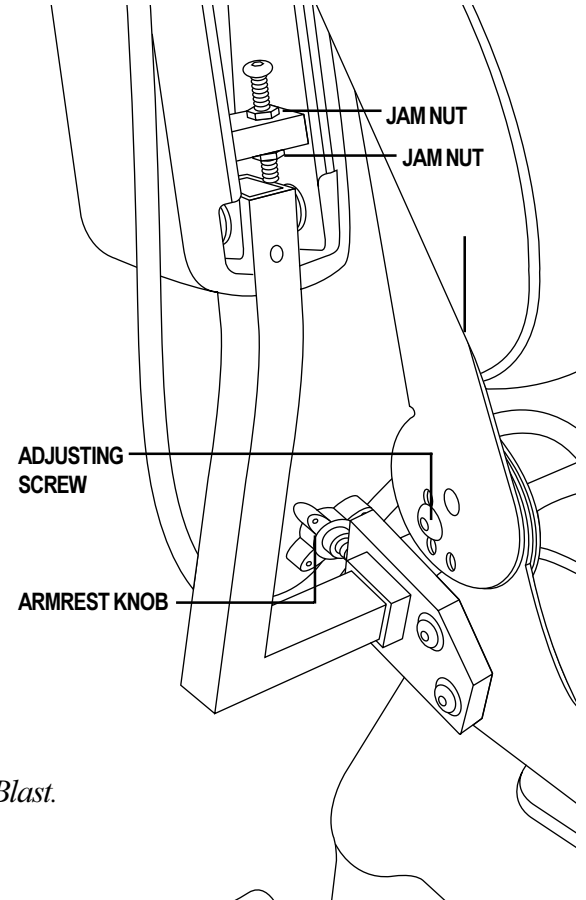


Figure 12. Seatback and Armrest Adjustments

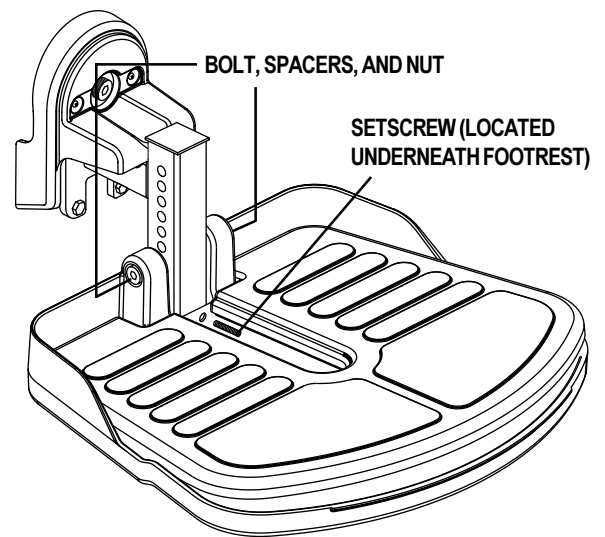


Figure 13. Footrest Height and Angle

Footrest Angle

You can adjust the angle of the footrest with a hex key. See figure 13.

To adjust the footrest angle:

1. Turn the setscrew counterclockwise to raise the front of the footrest.
2. Turn the setscrew clockwise to lower the front of the footrest.

Controller Position

The controller can easily slide out away from the armrest, or in toward the armrest. You can also move the controller to the other armrest. See figure 14.

To extend the controller:

1. Use a hex key to loosen the setscrew.
2. Slide the controller into or out of the armrest to the desired position.
3. Tighten the setscrew.

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

To change the controller position:

1. Unplug the controller connector from the electronics tray. See figure 4.
2. Cut the wire tie that attaches the controller cable to the armrest.
3. Use a hex key to loosen the setscrew under the armrest. See figure 14.
4. Slide the controller out of the armrest.
5. Loosen the setscrew under the other armrest.
6. Place the controller in the other armrest.
7. Tighten the setscrew.
8. Use a wire tie to secure the controller cable to the armrest.
9. Plug in the controller connector to the electronics tray.

Swing-away Footrests

Swing-away Footrests enable you to rotate the leg rests to the side before you transfer on or off your Blast.

To move the SFRs:

1. Push in the release lever. See figure 15.
2. Rotate the SFRs.

To adjust the SFR length:

1. Remove the two screws from the side of each leg rest extension. See figure 17.
2. Slide the leg rest in or out to the desired length.
3. Reinstall the two screws and tighten.

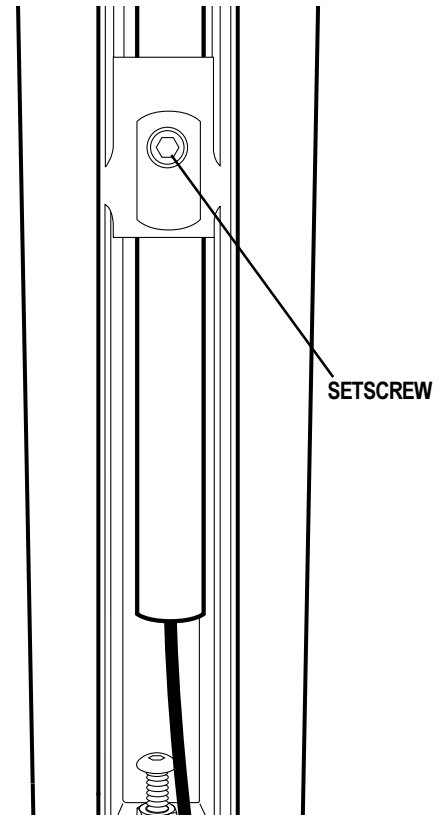


Figure 14. Underside of Armrest

SFR RELEASE LEVER



Figure 15. Swing-Away Footrests

VI. COMFORT ADJUSTMENT

Elevating Leg Rests (Optional)

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

To adjust the ELR angle:

1. Press the release lever. See figure 16.
2. Move the leg rest to the desired angle.

To adjust the ELR length:

1. Remove the two screws from the side of each leg rest extension. See figure 17.
2. Slide the leg rest in or out to the desired length.
3. Tighten the bolt and reinstall the two screws.

Anti-Tip Wheels

Your Blast is equipped with spring-loaded rear anti-tip wheels, which travel up and down to prevent them from catching on obstacles. Additionally, the anti-tip wheels are linked to the drive wheels and actively react to sudden rearward weight shifts, enhancing stability and safety. See figure 18.

According to personal needs and lifestyle, you may wish to adjust the height of the anti-tips. By raising the anti-tip wheels, ground clearance increases, as does your Blast's ability to "wheelie" for obstacle climbing. Lowering the anti-tip wheels decreases the ground clearance, as well as limits rearward pitching, increasing stability.

To adjust anti-tip wheels:

1. Remove the anti-tip axle bolt and nylon spacers using two, ½-in. wrenches. See figure 18.
2. Relocate anti-tip wheel to one of the three adjustment holes, as desired.
3. Replace the wheel, placing the nylon washers on each side of the wheel, then replacing the axle bolt through the center.
4. Tighten the axle bolt and nut so that the wheel spins freely but does not wobble side-to-side.
5. Repeat process on other anti-tip.

NOTE: Each drive tire must have at least 30-35 psi of air pressure in order for the anti-tip wheels to be properly adjusted.

ELR RELEASE LEVER



Figure 16. Elevating Leg Rests

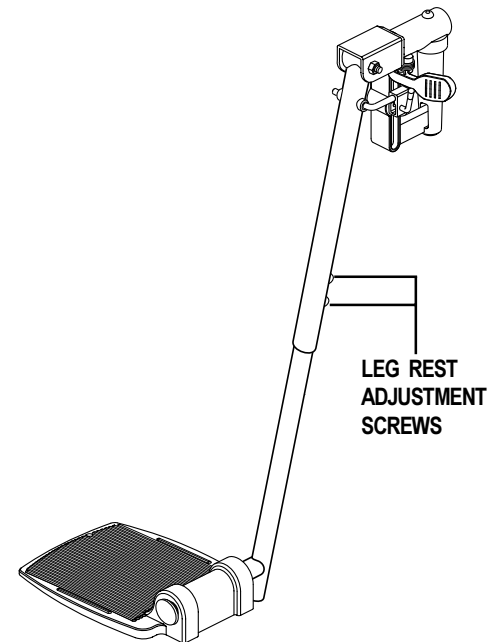


Figure 17. Elevating Leg Rests (Swing-away Footrests are similar.)

VI. COMFORT ADJUSTMENT

WARNING! Consult your authorize Pride provider before attempting to change the anti-tip wheel height! Changing the anti-tip wheel height affects handling under deceleration!



WARNING! The higher you raise the anti-tip wheels, the more you increase your power chair's tendency to tilt forward when coming to a stop. You can compensate for this by having your authorized Pride provider make a small adjustment to the pre-programmed deceleration setting in the controller, or by moving the seat assembly further to the rear of your power chair.

WARNING! Do not remove the anti-tip wheels.

LOOSEN THE ANTI-TIP BRACKET.



Figure 18. Anti-Tip Wheel

Caster Wheels

The caster wheels are located on the front of your Blast and are part of the All-Conditions Caster Beam (ACC) suspension system. See figure 2. The ACC works by suspending the front casters on a pivoting beam, allowing the caster wheels to conform with uneven terrain. ACC, combined with STS, allows the front and rear wheels of your Blast to articulate independently, dramatically increasing stability and traction when traversing off-road and uneven terrain.

VII. BATTERIES AND CHARGING

BATTERIES AND CHARGING

The Blast 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.

Charging the Batteries

The battery charger is essential in providing long life for your Blast batteries. See figure 3. The battery charger is designed to optimize your Blast's performance by charging the batteries safely, quickly, and easily. The charging system consists of the charger, the charger fuse, and the ammeter. The onboard charger is located underneath the electronics tray. See figure 4. The charger has an in-line fuse that protects the ammeter. The ammeter indicates the rate of charge necessary to fully recharge the batteries. The inline fuse and the ammeter are both located on the electronics tray. See figure 5. It is also a good indication of whether or not the charger is working. The ammeter and the charger are only functional when the charger power cord is plugged into a wall outlet.

WARNING! You must recharge your Blast's batteries with the supplied onboard or off-board charging system. Do not use an automotive type battery charger.



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

WARNING! Always protect your batteries from freezing temperatures and never charge a frozen battery. This damages the battery and may cause personal injury. Attempting to charge a battery in freezing conditions does not prevent a battery from freezing.

To charge the batteries using the onboard charger:

1. Position the rear of your Blast close to a standard wall outlet.
2. Be certain the controller power is turned off and the freewheel levers are in the engaged position. See IV. "Blast."
3. Remove the battery charger cord from the back pouch of your Blast and plug it into the onboard battery charger AC power cord receptacle located on the electronics tray.
4. Extend the charger AC power cord and plug it into the wall outlet. The Blast incorporates an inhibit function that disables the power chair when the charger is plugged into a wall outlet.
5. The ammeter indicates how much charge is needed to fully charge the batteries. Wait about a minute for the charger to warm up. The ammeter may move as high as 5.5 amps, then gradually move back down to 0 amps as the batteries charge.
6. We recommend you charge the batteries for 8 to 14 hours. As the batteries charge, the ammeter needle slowly drops to 0. When the batteries are fully charged, the needle vibrates on or about the zero mark on the ammeter scale.
7. When your Blast's batteries are fully charged, you can unplug the onboard battery charger AC power cord from the wall outlet and the power base, wind it up using the hook and loop strap, and place the cord back into the Blast's back pouch.

To charge the batteries using the off-board charger:

1. Position your Blast next to a standard wall outlet.
2. Be certain the controller power is turned off.
3. Plug the off-board charger into the off-board charger socket. See figures 19, 20, and 22.
4. Plug the off-board charger into the wall outlet.

VII. BATTERIES AND CHARGING

5. 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 that came with it.
6. When the batteries are fully charged, unplug the off-board charger from the wall outlet and from the controller.

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 Blast throughout the house and yard. Move slowly at first, and don't stray 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 Blast 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 wall outlet voltage of 120 VAC (alternating current) and converts it to 24 VDC (direct current). The Blast batteries use direct current to run your power chair. When the battery voltage is low, the charger works harder to charge the battery. This is why the ammeter initially reads five or more amps. As the battery voltage approaches full charge, the charger doesn't work as hard to complete the charging cycle. This explains why the ammeter drops as it approaches a full charge. 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.

Can I use a different battery charger?

You should use the charger supplied with the Blast. 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). Your Blast's charger will not operate after the batteries have been discharged to nearly zero voltage. If this happens, call your authorized Pride provider 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 Blast all day on a daily basis or you may not use it for weeks at a time.

■ Daily Use

If you use your Blast on a daily basis, charge the batteries as soon as you are finished using your Blast. Your Blast 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. Do not charge the batteries for more than 24 hours at a charging cycle.

■ Infrequent Use

If you use your Blast 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.

VII. BATTERIES AND CHARGING

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.

Use these specifications to reorder deep-cycle batteries:

BATTERY SPECIFICATIONS	
Type:	Deep-cycle (AGM or Gel-Cell)
Size:	Group 24
Voltage:	12V each



WARNING! Corrosive chemicals are 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. Lead-acid 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 Blast’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 Blast’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 Blast operation and limited battery life.

VII. BATTERIES AND CHARGING

How should I store my Blast and its batteries?

If you do not use your Blast regularly, we recommend maintaining battery vitality by charging the batteries at least once per week.

If you do not plan on using your Blast for an extended period, fully charge the batteries prior to storage. Disconnect the battery harnesses and store the Blast 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?

Sealed lead-acid 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 Blast to your final destination, repack your Blast in the original shipping container and ship the batteries in separate boxes.

VIII. OPERATION

PILOT 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. Also, it may be used to control some optional systems such as power elevating seats and lights.

The Pilot electronic controller is an integral electronic controller. All of the electronics necessary to operate the power chair are contained in one module. See figure 19.

The Pilot consists of:

1. joystick
2. on/off button
3. battery condition meter
4. speed control knob
5. charger socket
6. controller connector
7. 3-pin charger inhibit connector

Typically, the Pilot is mounted to one of the armrests and is connected to the motors, batteries, and the onboard charger at the electronics tray.

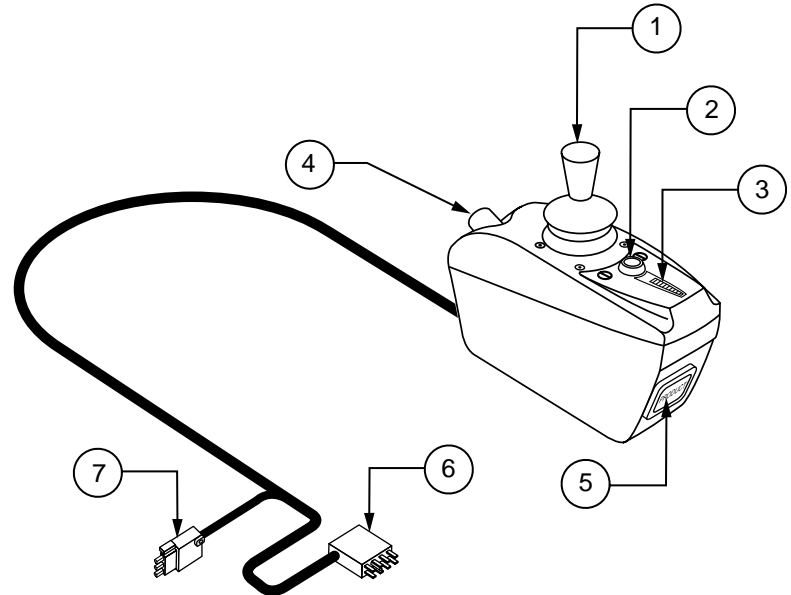


Figure 19. Pilot Controller

Joystick

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

On/Off Button

This is a green button located in front of the joystick. It turns the Pilot on and off.



WARNING! Unless faced with an emergency situation, do not use the on/off push button 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 is located immediately in front of the joystick. This is a 10-segment illuminated display that indicates that the Pilot is turned on and also gives the battery status, the Pilot status, and the electrical system status.

- **Red, yellow, and green lights lit:** Battery charged; Pilot and electrical system OK.
- **Red and yellow lights lit:** Charge battery if possible; Pilot and electrical system OK.
- **Red lights only lit or slow flash:** Charge battery as soon as possible; Pilot and electrical system OK.

VIII. OPERATION

- **Rapid flash of lights:** Indicates a fault in the Pilot or the electrical system. Refer to “Pilot Error Codes.”
- **Ripple up and down of lights:** The joystick was not in the center position when the controller was turned on. If you get “ripple up and down of lights”, turn off the controller, allow the joystick to return to the center position, then turn on the controller.

NOTE: If you still get “ripple up and down of lights”, contact your authorized Pride Provider.

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!

Speed Control

Sets the maximum speed of the power chair: clockwise to increase, counterclockwise to decrease.

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

Charger 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 Pilot. If you use an off-board charger, the charger current should not exceed 13 amps. Contact your authorized Pride provider for more information.



CAUTION! Only chargers with Neutrik NC3MX plugs should be connected to the charger socket. See your authorized Pride provider for more information.

NOTE: The socket may also be used for reprogramming the Pilot. Contact your authorized Pride provider for more information.

Controller Connector

This connects the Pilot to the power chair’s batteries, motors, and motor brakes.

3-pin Charger Inhibit Connector

This connects the Pilot to the onboard battery charger. This connection provides an inhibit that disables the Pilot when the battery charger is on. The charger inhibit connector is coded with colored dots. The dots are positioned so that you align the flat side of the male connector with the flat side of the female connector before making the connection.



CAUTION! Failure to properly align the connectors can result in damage to the Pilot, the charger harness, and the connectors.

Thermal Rollback

The Pilot is equipped with a thermal rollback circuit. This circuit monitors the temperature of the motors and the Pilot. In the event that either one of the motors or the Pilot becomes excessively hot (above 122° F), the Pilot reduces the motor voltage. For every degree above 122° F, the controller reduces the voltage 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.



WARNING! Under strenuous driving conditions, it is possible for the bottom and side case temperature of the Pilot to exceed 105° F. DO NOT touch the side or bottom of the Pilot case under these circumstances.

VIII. OPERATION

Trouble Codes

In addition to indicating the current state of battery charge, the battery condition meter can also indicate possible problems with your power chair. The battery condition meter has ten lights. The lights provide information by the number of lights that are flashing. If any of the meter lights are flashing rapidly, the controller may be indicating a fault. For instance, if the first light is flashing rapidly, the battery voltage is nearly depleted. The following is a list of the possible errors signified by the rapidly flashing meter. When you get a trouble code, contact your authorized Pride provider.

FLASHING LIGHTS	DIAGNOSIS	SOLUTION
10	High Battery Voltage	Check batteries.
9	Solenoid Brake Fault	Check motor/brake wiring.
8	Possible Controller Fault	See authorized Pride provider.
7	Possible Joystick Fault	See authorized Pride provider.
6	Inhibit Active	Unplug charger. Check connections.
5	Right Motor Wiring Fault	Check right motor wiring.
4	Right Motor Disconnected	Check right motor wiring.
3	Left Motor Wiring Fault	Check left motor wiring.
2	Left Motor Disconnected	Check left motor wiring.
1	Low Battery Voltage	Check batteries/battery wiring.

VIII. OPERATION

REMOTE PLUS CONTROLLER

The Remote Plus is a modular electronic control system. The electronics necessary to operate the power chair are contained in several modules located on different parts of your power chair.

The Remote Plus system consists of the following components:

- master remote
- communications cable(s)
- power module
- motor wiring harnesses
- battery wiring harnesses
- actuator lighting module (for optional equipment)

The master remote is located typically on the end of an armrest. The other components are located inside the power base.

Remote Plus Master Remote

The Remote Plus master remote consists of the following (see figure 20):

1. joystick
2. keypad
3. controller communications cable
4. off-board charger socket

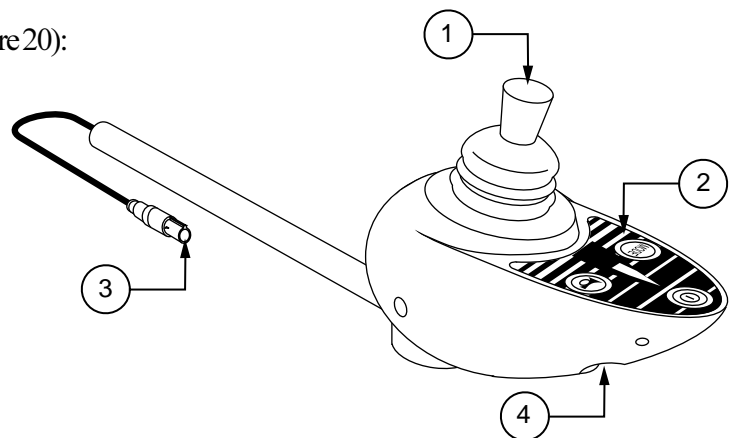


Figure 20. Remote Plus Master Remote

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 further 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. See figure 21. It contains keys that you will use to control your power chair.

On/Off Key

The on/off keys toggles the system power 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.

VIII. OPERATION

Mode Key

Press the key to change speed setting or to activate the power accessories. See “Speed Settings” or “Power Accessories.”

Speed Setting Indicator

Indicates the selected speed setting.

Power Accessory Indicator

Indicates the selected power accessory. This is for optional accessories only.

Horn Key

The horn key activates the horn.

Right/Left Turn Indicator Keys

The right/left Indicator keys toggle either the left or right turn indicators. Press once to turn on and press again to turn off. You can also turn off the selected indicator by pressing the opposite indicator key or the hazard key.

Light Key

The light key turns headlights/taillights on and off independent of other indicators.

Hazard Key

The hazard key toggles both indicators at the same time. You can only cancel this by pressing the hazard key again.

Battery Condition Meter

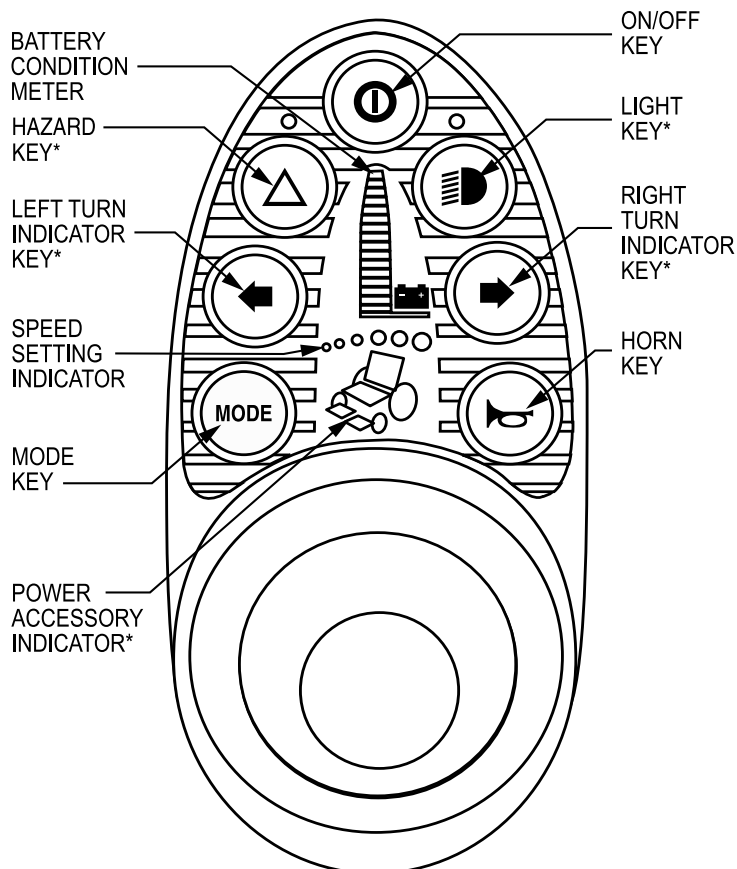
The battery condition meter is located in front of the joystick.

This is a 10-segment illuminated display that indicates that the Remote Plus is turned on and also gives the status of the battery, the controller, and the power chair electrical system.

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

NOTE: If you still get “ripple up and down of lights”, contact your authorized Pride Provider.

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!



*These are optional accessories. Please contact your authorized Pride provider for more information.

Figure 21. Remote Plus Keypad

VIII. OPERATION

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.

NOTE: The speed settings are preset at the factory. If your authorized Pride provider changes the order of these settings, please make note of these changes. Contact your authorized Pride provider for more information.

To select a speed setting:

1. Press the on/off key to power on the remote.
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.
4. To decrease chair speed, push the joystick to the left. Each time you push the joystick, you decrease the speed setting.
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.

Power Accessories

If your power chair is equipped with power accessories such as a power seat or power elevating leg rests, you can operate them through the remote keypad. Contact your authorized Pride provider for information on how to operate these accessories.

Off-board Charger 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 controller. See figure 20. The socket may also be used for reprogramming the controller by using a Penny & Giles Programmer, should this be necessary. If you use an off-board charger, the charger current should not exceed 13 amps. Contact your authorized Pride provider for more information.

Controller Communications Cable

The controller communications cable provides the joystick module with a connection to the power module. See figure 18.

Power Module

Typically, the power module is mounted to the power base. See figure 3. The power module provides a power interface for the joystick module. It routes the battery power to the motors and other powered accessories such as lights and power seats.

Actuator Lighting Module (Not Shown)

The actuator lighting module is also located on the power base. The actuator lighting module provides a control and power interface between the power module, the lights, and/or the power seat actuator.

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.

VIII. OPERATION

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.

Trouble Codes

In addition to indicating the current state of battery charge, the battery condition meter can also indicate possible problems with your power chair. The battery condition meter has ten lights. The lights provide information by the number of lights that are flashing. If any of the meter lights are flashing rapidly, the controller may be indicating a fault. For instance, if the first light is flashing rapidly, the battery voltage is nearly depleted. The following is a list of the possible errors signified by the rapidly flashing meter. When you get a trouble code, contact your authorized Pride provider.

FLASHING LIGHTS	DIAGNOSIS	SOLUTION
10	High Battery Voltage	Check batteries.
9	Solenoid Brake Fault	Check motor/brake wiring.
8	Possible Controller Fault	See authorized Pride provider.
7	Possible Joystick Fault	See authorized Pride provider.
6	Inhibit Active	Unplug charger. Check connections.
5	Right Motor Wiring Fault	Check right motor wiring.
4	Right Motor Disconnected	Check right motor wiring.
3	Left Motor Wiring Fault	Check left motor wiring.
2	Left Motor Disconnected	Check left motor wiring.
1	Low Battery Voltage	Check batteries/battery wiring.

VIII. OPERATION

DX CONTROLLER

The Dynamic DX electronic control system is a modular system. The electronics necessary to operate the power chair are contained in several modules located on different parts of your power chair.

The Dynamic DX system consists of the following components:

- master remote (Europa)
- communications cable(s)
- power module
- motor wiring harnesses
- battery wiring harnesses
- actuator lighting module (for optional systems)

The master remote is located typically on the end of an armrest. The other components are located inside the power base.

Europa Master Remote

The Europa master remote consists of the following (see figure 22):

1. joystick
2. keypad
3. controller communications connector
4. off-board charger socket

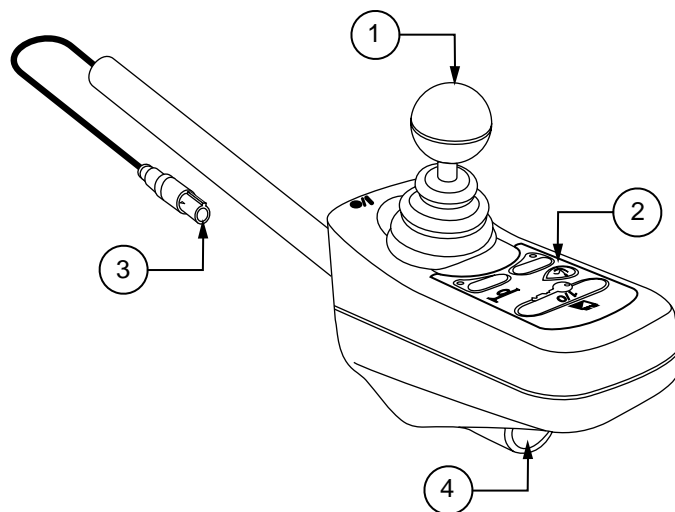


Figure 22. Europa Master Remote

Joystick

The joystick controls the direction and speed of the power chair. When you move the joystick from the neutral (center) position, the electromagnetic brake will release and allow the power chair to move. The further you push the joystick from its neutral position, the faster your power chair will move. When you release the joystick and allow it to return to the neutral position, you engage the electromagnetic brake. This helps the power chair decelerate and come to a complete stop. You can also use the joystick control power actuators.



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.

Out Of Neutral At Power Up

Your power chair joystick is equipped with Out Of Neutral At Power Up (OONAPU). If you power up the system and the joystick is not in the neutral position, the system status light flashes rapidly for either as long as the joystick is out of the neutral position or five seconds. If this has happened and the all the segments on the battery condition meter are flashing, you may have set a fault code. See “Fault Codes.”

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 23.

VIII. OPERATION

On/Off Key

The on/off key toggles the system power 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.

NOTE: If the joystick is not in the neutral (center) position when you turn on the power, you may cause a fault in the system. See “Out Of Neutral At Power Up.”

System Status Light

The system status light is normally on when the system is powered up, and off when the system is powered down. It will also flash trouble codes when the system detects a fault. See “Trouble Codes.”

Magnetic Locking Area

Your power chair is equipped with a feature that enables you to “lockout” unauthorized users. For this function, you will need the magnetic key supplied with your power chair. If you lose this key, contact your authorized Pride provider.

To enable the lockout the system:

Hold the magnetic key on or near the key symbol. The system will beep and automatically turn off.

NOTE: None of the remote lights should be lit.

Press the on/off key to turn on up the power chair. The key symbol will flash, but you will not be able to drive your power chair. This means that it is still locked.

Hold the magnetic key on or near the key symbol again to unlock the system. When the key symbol stops flashing, you may turn on the power chair.

NOTE: If you turn on the power chair while it is locked and don't unlock it after one minute, the power chair will automatically turn off itself.

Battery Condition Meter

The battery condition meter consists of six lights arranged in an arc over the battery icon. From left to right, the first two are red, the second two are orange and the last two are green. These lights give you an accurate indication of your usable battery capacity. If the battery has at least 85% of its rated capacity, all of the lights will be on. As the battery voltage drops, the number of lights reduces from right to left. When the battery capacity drops to 10% or below, all of the lights will flash once every second.

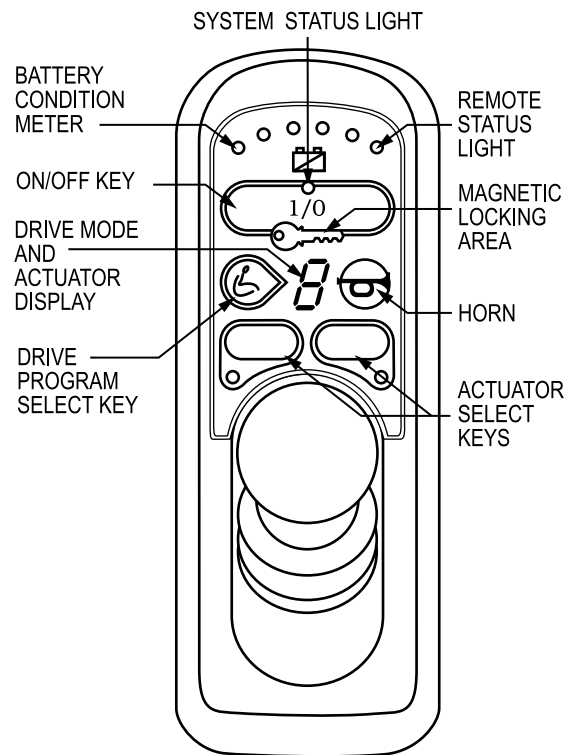


Figure 23. Europa Keypad

VIII. OPERATION

Drive Program Select Key

The drive program select key enables you to select a drive program and an actuator mode. YourDynamic DX controller was preprogrammed at the factory for five drive programs— 1(slowest) to 5(fastest). The drive mode is indicated by a number in the center of the keypad.

NOTE: The drive mode settings are preset at the factory. If your authorized Pride provider changes these settings, please make note of these changes.

To change the drive mode program:

1. Press the drive mode select key.
2. Move the joystick right to increase the drive mode program.
3. Move the joystick left to decrease the drive mode program.
4. Press the drive mode select key.

Drive Mode and Actuator Display (also Remote Status Display)

This is a seven segment light that displays the drive program. It also displays a drive inhibit and actuator mode (if applicable), when they occur.

Actuator Select Keys with Lights

The actuator select keys can control up to five actuators independently. These actuators may control power elevating seats, power elevating leg rests, power reclining seats, or tilt in space seats. If your controller is programmed with drive inhibit during actuator operation, the drive inhibit symbol will be displayed during actuator operation. You control the actuators through the actuator select keys and the joystick. Contact your authorized Pride provider for information on how to operate these actuators.

Remote Status Light

This light will flash if there is an internal Dynamic DX Remote fault, or if an OONAPU fault has occurred. See “Out Of Neutral At Power Up.”

Horn Key

The horn key activates the horn.

Battery Saver Feature

When the battery capacity drops to below 21V (typically two lights), the controller will reduce power chair performance to conserve battery power.

Sleep Mode

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 specific amount of time. This time factor is programmed into the controller. The battery condition meter on the keypad indicates sleep mode by blinking once every five seconds. To restore power and continue, push the on/off key twice.

Thermal Rollback

The Dynamic DX system features a thermal rollback circuit. This circuit monitors the temperature of the motors, the power module, and the master remote. In the event these components become excessively hot (above 122° F), the power module reduces the motor voltage. For every degree above 122° F, the power module reduces the voltage by 5 volts. This reduces your speed and allows the components to cool down. When the temperature returns to a safe level, your power chair will resume its normal speed.

VIII. OPERATION

Trouble Codes

In addition to indicating battery charge, the battery condition meter also provides diagnostic information when the Europa detects problems with either the electrical system, or the Dynamic DX system itself. These codes are displayed flashing all lights the number of times given by the trouble code. The table below identifies the individual trouble codes. If you get one of these codes, contact your authorized Pride provider.

Flash Code Sequence	Diagnosis	Solution
•—•—•—	Low Battery Voltage Fault	Check batteries/battery wiring.
••—••—	High Battery Voltage Fault	Check batteries.
•••—•••—	Left Motor (or connection) Fault	Check left motor wiring.
••••—••••—	Right Motor (or connection) Fault	Check right motor wiring.
•••••—•••••—	Left or Right Park Brake (or connection) Fault	Check motor/brake wiring.
••••••—••••••—	Controller Fault	See your authorized Pride provider.
•••••••—•••••••—	Motor Stalled or Joystick OONAPU	Reset the power on/off key.

The symbol “•” means all 6 lights flash on for a period of 0.2 seconds and off for 0.8 seconds.

The symbol “—” means all 6 lights are off for a period of two seconds before flashing sequence repeats.

NOTE: You must turn the controller off and then on again to reset the controller, even if the source of the fault is removed/corrected.

In the event of a fault, the flashing battery condition meter displays diagnostic indications. Faults are encoded as follows: one (for a low battery voltage fault) to seven (for a motor stalled or joystick OONAPU) and are displayed by all lights flashing the number of times prescribed by the fault code. The flash sequence (one to seven) is followed by a long off period (2 seconds). If more than one fault exists, then the fault having the highest priority is indicated. The controller must be turned off and then on again even if the source of the fault is removed. If you cannot resolve the problem, contact your authorized Pride provider.

IX. CARE AND MAINTENANCE

CARE AND MAINTENANCE

Your Blast 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 an authorized Pride provider. Preventive maintenance is very important. If you follow the maintenance checks in this section as scheduled, you can help ensure that your Blast gives you years of trouble-free operation. If you have any doubt as to your Blast's care or operation, contact your authorized Pride provider.

Your Blast, 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 Blast come in contact with water:

1. Dry your Blast as thoroughly as possible with a dry towel.
2. Allow your Blast 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 Blast again.
4. If any inconsistencies are found, take your Blast to an authorized Pride provider.

Temperature

Some of the parts of your Blast are susceptible to extreme changes in temperature. Always keep your Blast 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., sealed lead-acid or gel cell).
- Temperatures above 122° F may cause your Blast 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. See VIII. "Operation."

General Guidelines

- Avoid knocking or bumping the controller, especially the joystick.
- Avoid prolonged exposure of your Blast to extreme conditions, such as heat, cold, or moisture.
- Keep the controller clean.
- Check all connectors on the electronics tray to ensure that they are all tight and secured properly.
- When the battery condition meter is completely lit, the batteries are fully charged, and the controller and the electrical system are OK.
- If one red light on the battery condition meter is blinking slowly, the batteries are low and need to be charged, but the controller and the electrical system are OK.
- If the battery condition meter is blinking rapidly, the controller has detected a fault in either its own circuits or in your Blast's circuits. See VIII. "Operation."
- Make sure the drive tires are inflated to **30–35 psi**.



WARNING! Make sure your tires are inflated to 30-35 psi. Do not underinflate or overinflate your tires. Low pressure may result in loss of control, and overinflated tires may burst. Serious personal injury may result. 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.

IX. CARE AND MAINTENANCE

- Use a rubber conditioner on the tire sidewalls to help preserve them. Check tires for wear.



WARNING! Never use a rubber conditioner on the tread area of the tires; doing so may make the tires slippery and cause your Blast 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. Batteries must sit flat within the battery well, with the battery terminals facing inward, toward each other. Refer to the frame decal for the correct wiring layout. See figure 26.
- 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 authorized Pride provider if there is a problem.
- Visually inspect the controller harness. Make sure that it is not frayed, cut, or has any wires exposed. See your authorized Pride provider if there is a problem with any harnesses.

Weekly Checks

- Disconnect and inspect the controller from the electronics tray. Look for corrosion. Contact your authorized Pride provider if necessary.
- Ensure that all parts of the controller system are securely fastened to your Blast. Do not overtighten any screws.
- Check for proper tire inflation. There should be **30 – 35 psi** in each tire. If a tire does not hold air, see an authorized Pride provider 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 Blast.

To check the brakes:

1. Turn on the controller and turn down the speed level of your Blast.
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 electric brakes click. Immediately release the joystick. You must be able to hear each electrical brake operating within a few seconds of joystick movement. Repeat this test three times, pushing the joystick backwards, then left, and then right.

To calibrate the joystick (Remote Plus only):

1. Position the joystick in the full reverse position and hold it there. Turn on the controller.
2. The battery condition meter lights up from one light to ten lights, and then back to one light. It does this twice, then blinks rapidly.
3. Turn off the controller.
4. Position the joystick in the full forward position and hold it there; then turn the controller on.
5. The battery condition meter lights up from one light to ten lights, and then back to one light. It does this twice, then blinks once, and then it blinks continuously.
6. Turn off the controller. Now the joystick and controller are set up to function properly together.

IX. CARE AND MAINTENANCE

Monthly Checks

- Check that the anti-tip wheels do not rub the ground when you operate the Blast. Adjust them as necessary. See VI. “Comfort Adjustments.”
- Check for extreme wear on the anti-tip wheels. Replace them as necessary.
- Check for drive tire wear. See an authorized Pride provider for repair.
- Check the rear casters for wear. Replace them as necessary.
- Check the rear forks for damage or fluttering which indicates that they may need to be adjusted or have the bearings replaced. See an authorized Pride provider for repair.
- Keep your Blast clean and free of foreign material, such as mud, dirt, hair, food, drink, etc.

Yearly Checks

Take your Blast to an authorized Pride provider for yearly maintenance. This helps ensure that your Blast 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 Blast. See VII. “Batteries and Charging.”



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

Cleaning Instructions



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

CAUTION! 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.

Tire/Wheel Replacement

If you have pneumatic tires and you have a flat tire, replace the tube. If your chair is equipped with a solid tire insert, then you must replace the whole wheel assembly. Replacement tires, tubes, and wheel assemblies are readily available through your authorized Pride provider.



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 the tire before attempting repair.

Follow these easy steps for a quick and safe repair for both solid and pneumatic 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.

IX. CARE AND MAINTENANCE

4. Use a socket wrench to remove the drive wheel nut from the center hub of the wheel.
5. Pull the wheel off the axle.
6. Remove the old tube from the pneumatic tire and replace it with a new tube.
7. Slide the wheel back onto the shaft.
8. Reinstall the drive wheel nut into the center hub and tighten.
9. Inflate the pneumatic tire to **30 - 35 psi**.

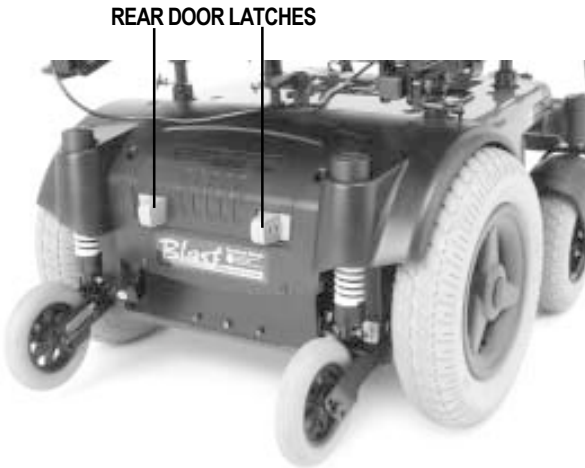


Figure 24. Blast Rear Door

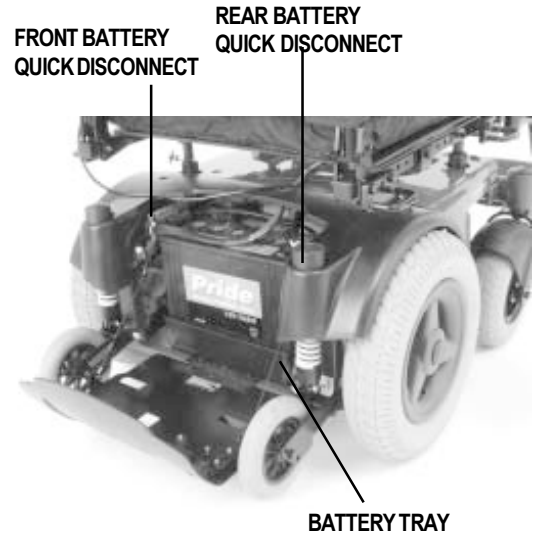


Figure 25. Blast Rear Door (Down)

Battery Replacement

A diagram is printed on a decal located on the Blast frame near the battery tray. See figure 26.



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

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

To replace the batteries:

1. Turn off the power to the controller.
2. Make sure that the Blast is in drive mode. See IV. "The Blast."
3. Simultaneously press inward the two rear door latches. See figure 24.
4. Pull out access door, allowing it to fold down like a "tailgate."
5. Slide out the battery tray. See figure 25.
6. Disconnect the wiring harnesses from the power base.
7. Remove both batteries.
8. Disconnect the wiring harnesses from the batteries.
9. Install the wiring harnesses on the new batteries. Make sure that the red wire is connected to the positive (+) terminal on the battery and the black wire is connected to the negative (-) terminal on the battery.
10. Place the batteries on the battery tray with the opposite terminals facing each other. See figure 26.
11. Slide the battery tray back into the power base.
12. Connect each battery wiring harness to the correct connector on the power base.
13. Close the rear door.

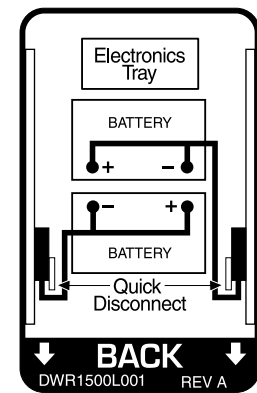


Figure 26. Blast Battery Wiring Diagram



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

IX. CARE AND MAINTENANCE

Motor Brushes

The electric motors that power your Blast use carbon brushes. These brushes may become susceptible to wear over a long period of time. The motor brushes are the four contacts located inside the motor assembly that supply power to the motor. They are designed to provide several thousand hours of operation. However, if the brushes become dirty with carbon deposits or wear out, the motor will run poorly or not at all.



CAUTION! If inspection determines excessive wear on the brushes, they must be replaced or motor damage will result. Failure to maintain the brushes could void the warranty.

To inspect or replace the motor brushes:

1. Remove the seat and body shroud.
2. Unscrew each motor brush cap. See figure 27.
3. Remove the brushes.
4. Inspect for wear. See figure 28.
5. Replace brushes, if necessary. Contact your authorized Pride provider for replacement brushes.

When to See Your Authorized Pride Provider for Service

The following symptoms could indicate a serious problem with your Blast. If necessary, contact your authorized Pride provider. When calling, have the model number, serial number, nature of the problem, and the trouble 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 Blast still does not power up, contact your authorized Pride provider.



Figure 27. Motor

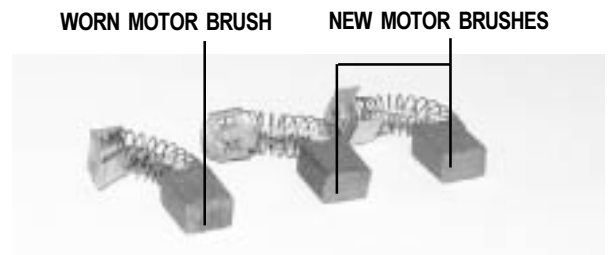


Figure 28. Motor Brushes

X. OPTIONAL ACCESSORIES

OPTIONAL ACCESSORIES

The following accessories are available from your authorized Pride provider.

Positioning Belt

The positioning belt is designed to support your torso so that you do not slide down or forward in the seat.

- The positioning belt is not designed for use as a restraining device.
- Make sure the belt is secure but does not cause discomfort.



WARNING! The positioning belt is not designed for use as a seat belt in a motor vehicle. Nor is your Blast 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.

Cane and Crutch Holder

The removable cane and crutch holder is mounted to the back of the seat by means of the accessory bracket.

Walker Holder

The removable walker holder is mounted to the back of the seat by means of the accessory bracket. It can hold a standard size walker.

Cup Holder

The cup holder is mounted to the armrest.

Oxygen Tank Holder

The removable oxygen tank holder is mounted to the back of the seat by means of the accessory bracket.

Rear Basket

The rear basket is mounted to the accessory bracket. It has a handle that you can use when you remove the basket.

Swing-Away Joystick Bracket

This option enables you to move the joystick from the front of the armrest to the side of the armrest without disconnecting it.

Dust Cover

These sturdy canvas covers help protect your Blast when not in use.

XI. WARRANTY

LIFETIME LIMITED WARRANTY

For the lifetime of your Blast 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

Two-Year 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:

- Electronics

Eighteen-Month 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

Warranty Exceptions

Motor: If damage occurs to the commutator of a motor as a result of not replacing the motor brushes after heavy wear to the brushes. Motor brushes are wear items and are not warranted.

Brake: One (1) year warranty for the electrical function of the brake. Brake pads are a wear item and are not warranted.

Six-Month Limited Warranty

For six (6) months from 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:

- Plastic components, except body
- Bearings and bushings
- Rubber components (except tires and tubes)
- Casters and anti-tip wheels

Battery warranty is covered by the battery manufacturer. Battery warranty is not covered by Pride.

Warranty service can be performed by an authorized Pride provider or by Pride. Do not return faulty parts to Pride without prior consent. All transportation costs and shipping damage incurred while submitting parts for repair or replacement are the responsibility of the original purchaser.

Warranty Exclusions

- ABS plastic body shrouds and footrest covers (wear items)
- Batteries (battery manufacturer provides a six-month limited warranty)
- Tires and tubes
- Upholstery and seating
- Repairs and/or modifications made to any part without specific consent from Pride
- Circumstances beyond the control of Pride
- Labor, service calls, shipping, and other charges incurred for repair of the product, unless specifically authorized by Pride Mobility Products Corporation

Damage caused by:

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

There is no other express warranty.

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 of incidental or consequential damages, so 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 warranty card to Pride. This assists Pride in providing the best possible technical and customer service.

QUANTUM™ REHAB

LEAPING AHEAD WITH MORE ADVANCED REHAB PRODUCTS AND SERVICES

Quality Control - Quantum Blast

Model # _____

Serial # _____



Thank you for making the Quantum Blast Series your choice in power chairs.

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

#1
In Quality

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

Date Inspected

Inspector

Pride
Mobility Products Corp.