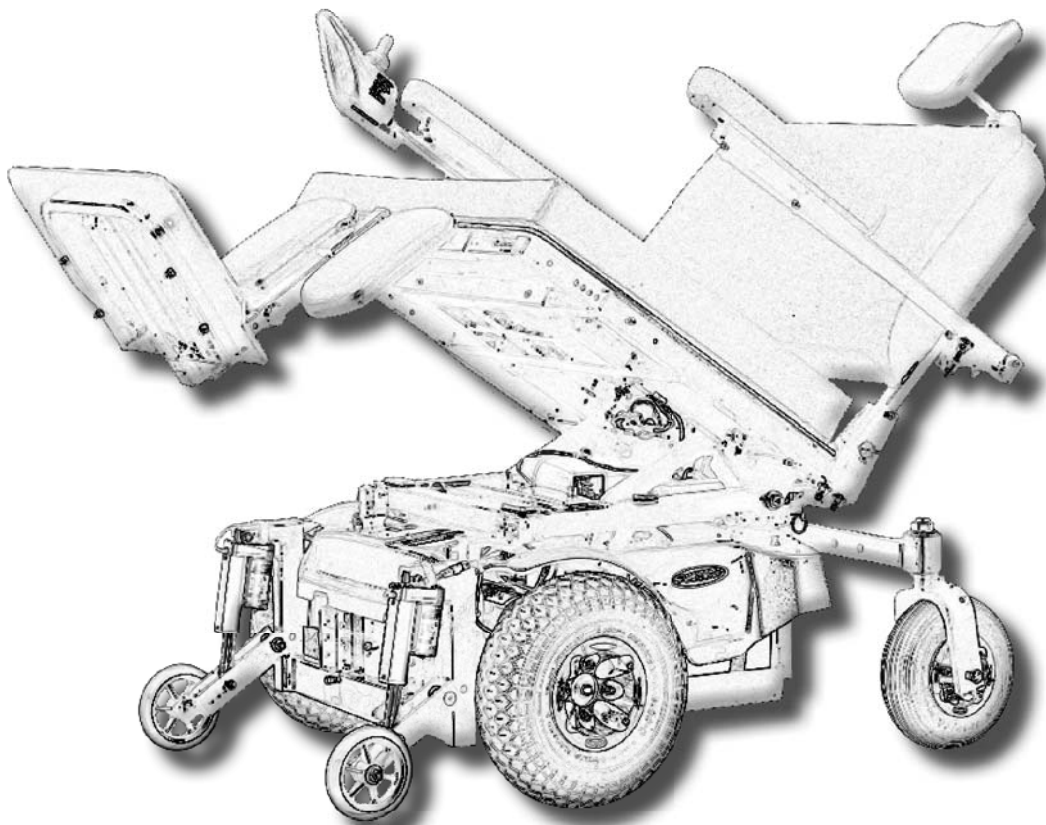
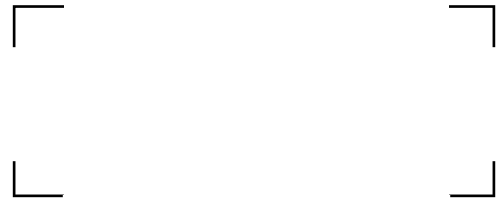


BOSS HD EQUALIZER

TILT SYSTEM OWNER / OPERATOR AND MAINTENANCE MANUAL

DEALER: THIS MANUAL MUST BE GIVEN TO
THE USER OF THE WHEELCHAIR.



Set Your Own Pace!

USER: BEFORE USING YOUR NEW EQUALIZER TILT SYSTEM,
READ THIS MANUAL
AND SAVE THIS MANUAL FOR FUTURE REFERENCE.

BOSS HD Equalizer Tilt System **OWNERS MANUAL**

The BOSS HD Equalizer Tilt Seating System is an adjustable seating system that can be ordered from the factory with a few predetermined set up instructions requested by the equipment provider purchasing the equipment from Leisure-Lift. All decisions regarding the appropriate set up of the seating system, the power base, the programmable controller settings, and the stability rating of the final product must be made based on direct interaction between end users and their local equipment provider or therapist. Unlike a local equipment provider or therapist, Leisure-Lift does not have sufficient knowledge of your needs and environment to determine what limitations, accommodations, and adjustments are needed.

In a Rehab situation, where this wheelchair (or any other) has been augmented with other products, RESNA has determined it is the therapists' or dealers responsibility to determine that the final configuration is safe for the specific user. RESNA also states that the user be given a "safe stability curve in all three planes.

RESNA is an organization of manufacturers, the V.A., the F.D.A., Academe and Medical Professionals that set standards and accreditation for the US.

Your Authorized Leisure-Lift dealer is: _____	
Dealer: _____	
Address: _____	
City: _____	State: _____ Zip: _____
Phone: _____	
Your Serial Number is: _____	Purchase Date: _____

THIS MANUAL IS INTENDED AS A SUPPLEMENT TO THE IN-SERVICE TRAINING PROVIDED BY YOUR THERAPIST AND PROVIDER.

BOSS HD Equalizer Tilt System **OWNERS MANUAL**

Introduction

We at Leisure-Lift want to thank you for purchasing our BOSS HD Equalizer Tilt System. Equalizer is designed specifically for Leisure-Lift power chairs. It is fully adjustable to meet the individual needs of the user.

Important

It is important that you read, understand and follow the operating instructions and safety precautions before operating the BOSS HD Equalizer Tilt System.

Choose the right Tilt seating adjustment & options. Leisure-Lift's BOSS HD Equalizer Tilt is available in many sizes, adjustments & options to meet the needs of the rider. However the selection of the seating system rests solely with you and your healthcare professional. Choosing the best system for you depends on such things as:

- A) Your size, disability balance, strength & coordination.
- B) Your level of activity and individual use.
- C) The type of hazards you must overcome in daily use.

(The local areas where you are likely to use your system.)

- D) The need for options for your safety & comfort.

Adjust the seating system to your ability. You must work with your doctor, therapist & supplier to fit the seating system to you and adjust the control settings for your level of function and ability.

Before using the BOSS HD Equalizer Tilt System you and each person who may assist you should read this entire manual and make sure to follow all instructions. Review the warnings daily until they are second nature to you.




 **WARNING!**

DO NOT OPERATE THIS EQUIPMENT WITHOUT FIRST READING AND UNDERSTANDING THIS MANUAL AND THE MANUAL PROVIDED WITH THE WHEELCHAIR. THIS MANUAL IS INTENDED AS A SUPPLEMENT TO THE IN-SERVICE TRAINING PROVIDED BY YOUR AUTHORIZED PROVIDER. IF YOU ARE UNABLE TO UNDERSTAND THE WARNINGS AND INSTRUCTIONS, CONTACT A LEISURE-LIFT DEALER OR LEISURE-LIFT TECHNICAL SUPPORT BEFORE ATTEMPTING TO USE THIS EQUIPMENT - OTHERWISE INJURY OR DAMAGE MAY RESULT.

SAVE THESE INSTRUCTIONS.

PRODUCTS SAFETY LABELS

The symbols below are used throughout this manual and on the product to identify warnings, cautions, and notes. It is very important for you to read and understand the information that follows these symbols completely.

-  **WARNING!** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
-  **CAUTION!** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury and/or property damage.
-  **NOTE:** Indicates important things to remember when using your Equalizer.


WARNING/CAUTION notices as used in this manual apply to hazards or unsafe practices which could result in personal injury or property damage.

SEATING SYSTEM/WHEELCHAIR USER

As a manufacturer of wheelchairs and seating systems, Leisure-Lift builds many wheelchairs and seating systems to meet the many needs of the end user. However, final selection of the type of wheelchair and seating system to be used by an individual rests solely with the user and his/her healthcare professional capable of making such a selection.

 **NOTE:**


THE INFORMATION CONTAINED IN THIS DOCUMENT IS SUBJECT
TO CHANGE WITHOUT NOTICE.


 **WARNING:** Use extra caution while driving your power base near ramps and other devices used for loading and unloading into vans and public transportation. Set the controls to a slower maximum speed to help prevent any unsafe accidental movement. While being lifted or lowered by a platform lift, turn all control systems off to prevent accidental activation while lift is moving.

WHEELCHAIR TIE-DOWN RESTRAINTS AND SEAT POSITIONING STRAPS

Leisure-Lift recommends that wheelchair and seating system users NOT be transported in vehicles of any kind while in wheelchairs. As of this date, the Department of Transportation has not approved any tie-down systems for transportation of a user while in a wheelchair, in a moving vehicle of any type.

The BOSS HD Equalizer seating system has optional transport securement anchors intended for use with a six point strap system. Leisure-Lift requires that the rider be transferred from the power chair and secured to automotive type seating while being transported. Contact your equipment provider for additional information.


 **WARNING:** REGARDING RESTRAINTS - POSITIONING STRAPS - IT IS THE OBLIGATION OF THE DME DEALER, THERAPISTS AND OTHER HEALTH CARE PROFESSIONALS TO DETERMINE IF A SEATING RESTRAINT IS REQUIRED TO ENSURE THE SAFE OPERATION OF THIS EQUIPMENT BY THE USER. SERIOUS INJURY CAN OCCUR IN THE EVENT OF A FALL FROM A WHEELCHAIR OR SEATING SYSTEM.

 **WARNING:** THIS SEATING SYSTEM (BOSS HD EQUALIZER POWER TILT ONLY) HAS BEEN CUSTOM DESIGNED AND WILL BE ASSEMBLED TO THE WHEELCHAIR BASE BEFORE DELIVERY TO THE USER. THE INFORMATION CONTAINED IN THIS MANUAL IS FOR OPERATING, MAINTAINING AND ADJUSTING THE SEATING SYSTEM. THERE ARE VERY FEW ADJUSTMENTS THAT CAN SAFELY BE MADE BY THE USER. IF THERE IS A PROCEDURE OR ADJUSTMENT THAT NEEDS TO BE PERFORMED ON THE SEATING SYSTEM THAT IS NOT IN THIS MANUAL, DO NOT PERFORM THAT PROCEDURE. HAVE THE SEATING SYSTEM SERVICED BY A QUALIFIED TECHNICIAN.

SAFETY SUMMARY

Read, understand and follow All safety instructions in the owner's manual provided with the wheelchair BEFORE operating the seating system/wheelchair. Please consult your provider or rehab specialist if you do not fully understand all of the instructions in this manual.

REPAIR OR SERVICE INFORMATION Set-up and performance adjustments of the Electronic Control Unit (Shark Controller) are to be performed ONLY by your authorized Leisure-Lift dealer and also fully conversant with this process as well as the driver's capabilities. The final tuning adjustments of the controller may affect other activities of the seating system/wheelchair. Damage to the equipment could occur under these circumstances. Incorrect settings could cause injury to the driver, bystanders, damage to the seating system/wheelchair and to surrounding property. If non-authorized individuals perform any work on these units, the Manufacturer's warranty is voided.

 **WARNING:**
If you ever notice any part of your tilt seating system or wheelchair base working in an improper or unsafe manner, stop using it immediately and contact your dealer to arrange repairs. Do not use your tilt/wheelchair if there is any possibility it is not safe!

OPERATING INFORMATION



WARNING:

To determine and establish your particular safety limits, practice bending, reaching and transferring activities in several combinations in the presence of a qualified health professional **BEFORE** attempting active use of the seating system/wheelchair.

- Turn off the power before you are seated in the BOSS HD Equalizer Tilt System.
- Always have assistance when you are entering or exiting the BOSS HD Equalizer Tilt System.
- Do not exceed the specifications stated in this manual.
- Follow all of the safety precautions detailed in your power chair owner's manual.

DO NOT use the BOSS Equalizer HD Tilt Seating System if it is not functioning correctly.

DO NOT use the BOSS Equalizer HD Tilt Seating System in a manner that it was not designed for.

DO NOT attempt to reach objects if you have to move forward in the seat.

DO NOT attempt to reach objects if you have to pick them up from the floor by reaching down between your knees.

DO NOT lean over the top of the back upholstery to reach objects from behind as this may cause the seating system/wheelchair to tip over.

DO NOT shift your weight or sitting position toward the direction you are reaching as the seating system/wheelchair may tip over.

DO NOT operate the seating system while on an incline.

DO NOT operate the seating system while the wheelchair is moving.

DO NOT operate the seating system while anyone else may be in contact with the chair.

DO NOT attempt to adjust the drive lock-out. Have the wheelchair serviced by a qualified technician.

DO NOT tip the seating system/wheelchair without assistance.

DO NOT use an escalator to move a seating system/wheelchair between floors. Serious bodily injury may occur.

Before attempting to transfer in or out of the seating system/wheelchair, every precaution should be taken to reduce the gap distance. Also be certain the power is OFF and wheel locks are engaged to prevent the wheels from moving.

DO NOT engage or disengage the motor locks until the power is in the OFF position.

DO NOT operate on roads, streets or highways.

DO NOT climb, go up/down ramps or traverse slopes greater than the maximum rating for their powerbase (indicated in the specifications) or specified by your dealer after chair setup.

DO NOT climb or go up ramps or slopes when the seat is tilted.

DO NOT attempt to move up or down an incline when water, ice, oil film or fluid is present.

DO NOT attempt to drive over curbs or obstacles. Doing so may cause your seating system/ wheelchair to turn over and cause bodily harm or damage to the seating system/wheelchair.

DO NOT use parts, accessories, or adapters other than those authorized by Leisure-Lift..

DO NOT leave the power ON when entering or exiting your seating system/wheelchair.

DO NOT attempt to lift the seating system/wheelchair by lifting on any removable (detachable) parts. Lifting by means of any removable (detachable) parts of a seating system/wheelchair may result in injury to the user or damage to the seating system/wheelchair.

DO NOT stand on the frame of the seating system/wheelchair.

Anti-tippers **MUST BE** attached at all times.

DO NOT use the footplates as a platform. When getting in or out of the seating system/wheelchair, make sure that the footplates are in the upward position or swing footrests towards the out side of the seating system/wheelchair.

ALWAYS wear your seat positioning strap.

DO NOT leave your power wheelchair in a rain storm of any kind.

DO NOT use your power wheelchair in a shower or leave it in a damp bathroom while taking a shower.

DO NOT leave your power wheelchair in a damp area for any length of time.

Direct exposure to rain or dampness will cause the wheelchair to malfunction electrically and mechanically; may cause the wheelchair to prematurely rust.

Check to ensure that the battery covers are secured in place, joystick boot is NOT torn or cracked where water can enter and that all electrical connections are secure at all times.

DO NOT use the joystick if the boot is torn or cracked. If the joystick boot becomes torn or cracked, replace IMMEDIATELY.

WEIGHT TRAINING

Leisure-Lift DOES NOT recommend the use of its wheelchairs and seating systems as a weight training apparatus. Leisure-Lift wheelchairs and seating systems have NOT been designed or tested as a seat for any kind of weight training. If occupant uses said seating system/wheelchair as a weight training apparatus, Leisure-Lift shall NOT be liable for bodily injury and the warranty will be void.

WEIGHT LIMITATION

Wheelchairs equipped with the BOSS HD Equalizer Power Tilt have the following weight limitation:

BOSS 4.5	400lbs.
BOSS 6 & 6NS	550lbs.
BOSS 6.75	600lbs.

WARNING:

BEFORE attempting to transfer in or out of the wheelchair, the user should take every precaution to reduce the gap distance.

EFFECTIVE DECEMBER 2, 1994 THE FEDERAL GOVERNMENT REQUIRES THIS STATEMENT TO BE INCLUDED.

ELECTROMAGNETIC INTERFERENCE

△ CAUTION: IT IS VERY IMPORTANT THAT YOU READ THIS INFORMATION REGARDING THE POSSIBLE EFFECTS OF ELECTROMAGNETIC INTERFERENCE ON YOUR POWERED WHEELCHAIR.

Electromagnetic Interference (EMI) From Radio Wave Sources

Powered wheelchairs and motorized scooters (in this text, both will be referred to as powered wheelchairs) may be susceptible to electromagnetic interference (EMI), which is interfering to electromagnetic energy (EM) emitted from sources such as radio stations, TV stations, amateur radio (HAM) transmitters, two-way radios, and cellular phones. The interference (from radio wave sources) can cause the powered wheelchair to release its brakes, move by itself, or move in unintended directions. It can also permanently damage the powered wheelchair's control system. The intensity of the interfering EM energy can be measured in volts per meter (v/m). Each powered wheelchair can resist EMI up to a certain intensity. This is called its "immunity level." The higher the immunity level, the greater the protection. At this time, current technology is capable of achieving at least a 20 v/m immunity level, which would provide useful protection from the more common sources of radiated EMI.

There are a number of sources of relatively intense electromagnetic fields in the everyday environment. Some of these sources are obvious and easy to avoid. Others are not apparent and exposure is unavoidable. However, we believe that by following the warnings listed below, your risk to EMI will be minimized.

The sources of radiated EMI can be broadly classified into three types:

- 1) **Hand-held portable transceivers** (transmitters-receivers) with the antenna mounted directly on the transmitting unit. Examples include: citizens band (CB) radios, "walkie talkie," security, fire, and police transceivers, cellular telephones, and other personal communication devices. ****NOTE:** Some cellular telephones and similar devices transmit signals while they are ON, even while not being used;
- 2) **Medium-range mobile transceivers**, such as those used in police cars, fire trucks, ambulances, and taxis. These usually have the antenna mounted on the outside of the vehicle;
- 3) **Long-range transmitters and transceivers**, such as commercial broadcast transmitters (radio and TV broadcast antenna towers) and amateur (HAM) radios.

i NOTE: Other types of hand-held devices, such as cordless phones, laptop computers, AM/FM radios, TV sets, CD players, and cassette players, and small appliances, such as electric shavers and hair dryers, so far as we know, are not likely to cause EMI problems to your powered wheelchair.

Powered Wheelchair Electromagnetic Interference (EMI)

Because EM energy rapidly becomes more intense as one moves closer to the transmitting antenna (source), the EM fields from hand-held radio wave sources (transceivers are of special concern). It is possible to unintentionally bring high levels of EM energy very close to the powered wheelchair's control system while using these devices. This can affect powered wheelchair movement and braking. Therefore, the warnings listed below are recommended to prevent possible interference with the control system of the powered wheelchair.

WARNINGS: _____

Electromagnetic interference (EMI) from sources such as radio and TV stations, amateur radio (HAM) transmitters, two-way radios, and cellular phones can affect powered wheelchairs and motorized scooters. Following the warnings listed below should reduce the chance of unintended brake release or powered wheelchair movement which could result in serious injury.

- 1) Do not operate hand-held transceivers (transmitters-receivers), such as citizens band (CB) radios, or turn ON personal communications devices, such as cellular phones, while the powered wheelchair is turned ON;
- 2) Be aware of nearby transmitters, such as radio or TV stations, and try to avoid coming close to them;
- 3) If unintended movement or brake release occurs, turn the powered wheelchair OFF as soon as it is safe;
- 4) Be aware that adding accessories or components, or modifying the powered wheelchair, may make it more susceptible to EMI (Note: There is no easy way to evaluate their effect on the overall immunity of the powered wheelchair);
- 5) Report all incidents of unintended movement or brake release to the powered wheelchair manufacturer, and note whether there is a source of EMI nearby.

Important Information _____

- 1) 20 volts per meter (v/m) is a generally achievable and useful immunity level against EMI (as of May 1994) (the higher the level, the greater the protection).
- 2) Because of the large variance in positions, adjustments and different seating combinations which each affect the EMI immunity, it is not possible to test specific immunity level.

Modification of any kind to the electronics of this wheelchair as manufactured by Leisure-Lift may adversely affect the EMI immunity levels.

The immunity level of this model of wheelchair is unknown.

SAFETY /HANDLING OF SEATING SYSTEMS/WHEELCHAIRS

“Safety and Handling” of the wheelchair requires the close attention of the seating system/Wheelchair user as well as the assistant. This manual, as well as the owners manual provided with the wheelchair, points out the most Common procedures and techniques involved In the safe operation and maintenance of the seating system/wheelchair. It is important to practice and master these safe techniques until you are comfortable in maneuvering around the frequently encountered architectural barriers.

Use this information only as a “basic” guide. The techniques that are discussed on the following pages have been used successfully by many.

Individual seating system/wheelchair users often develop skills to deal with daily living activities that may differ from those described in this manual. Leisure-Lift recognizes and encourages each individual to try what works best for him/ her in overcoming architectural obstacles that they may encounter. Techniques in this manual are a starting point for new seating system/wheelchair users and assistants with “safety” as the most important consideration for all.

STABILITY AND BALANCE



WARNING:

Always wear your seat positioning strap.

To assure stability and proper operation of your seating system/wheelchair, you must at all times maintain proper balance. Your seating system/wheelchair has been designed to remain upright and stable during normal daily activities as long as you do not move beyond the center of gravity.

The Boss HD Equalizer has a center of gravity shifting feature. This feature helps to keep your center of gravity in roughly the same area while you are using your tilt. Which improves the rearward stability when you are tilting back compared to a tilt seat that does not have this feature.

DO NOT use the tilt seating system when on any kind of slope or ramp.

DO NOT lean forward out of the seating system/wheelchair any further than the length of the armrests. Make, sure the casters are pointing In the forward position whenever you lean forward. This can be achieved by advancing the wheelchair and then reversing it. Always keep anti-tips in the lowest possible position - Approximately 1/2” to 1” off the floor.

COPING WITH EVERYDAY OBSTACLES

Coping with the irritation of everyday obstacles can be alleviated somewhat by learning how to manage your wheelchair. Keep in mind your center of gravity to maintain stability and balance. Be mindful of your surroundings when using your tilt seat. Be sure to be in a clear area, and away from any obstructions.




A NOTE TO WHEELCHAIR ASSISTANTS





CAUTION: When assistance to the seating system/wheelchair user is required, remember to use good body mechanics. Keep your back straight and bend your knees. Also, be aware of any detachable parts. These must NEVER be used for hand-hold or lifting supports, as they may be inadvertently released, resulting in possible injury to the user and/or assistant(s).

When learning a new assistance technique, have an experienced assistant help you before attempting it alone.

TRANSFERRING TO/FROM OTHER SEATS

 **WARNING:**
BEFORE attempting to transfer in or out of the wheelchair, every precaution should be taken to reduce the gap distance. Always have assistance when you are being transferred. Make sure the power is turned off before transferring out of the wheelchair.

 **CAUTION:**
When transferring, position yourself as far back as possible in the seat. This will prevent damaged components, damaged upholstery and the possibility of the wheelchair tipping forward.

 **NOTE:** *This activity may be performed independently provided you have adequate mobility and upper body strength.*

Position the wheelchair as close as possible along side the seat to which you are transferring. Turn the controller off. Shift body weight into seat with transfer.


During Independent transfer, little or no seat platform will be beneath you. Use a transfer board if at all possible.

PERCENTAGE OF WEIGHT DISTRIBUTION


 **WARNING:**
DO NOT ATTEMPT TO REACH OBJECTS IF YOU HAVE TO MOVE FORWARD IN THE SEAT OR PICK THEM UP FROM THE FLOOR BY REACHING DOWN BETWEEN YOUR KNEES.

Many activities require the wheelchair owner to reach, bend and transfer in and out of the wheelchair. These movements will cause a change to normal balance, center of gravity, and weight distribution of the wheelchair. To determine and establish your particular safety limits, practice bending, reaching and transferring activities in several combinations in the presence of a qualified health professional BEFORE attempting active use of the wheelchair.

REACHING, LEANING, BENDING AND BENDING - FORWARD

 **WARNING: DO NOT ATTEMPT TO REACH OBJECTS IF YOU HAVE TO MOVE FORWARD IN THE SEAT OR PICK THEM UP FROM THE FLOOR BY REACHING DOWN BETWEEN YOUR KNEES.**

REACHING, BENDING BACKWARDS

 **WARNING:**
DO NOT LEAN OVER THE TOP OF THE BACK UPHOLSTERY. THIS WILL CHANGE YOUR CENTER OF GRAVITY AND MAY CAUSE YOU TO TIP OVER.

Position wheelchair as close as possible to the desired object. Reach back only as far as your arm will extend without changing your sitting position.

SPECIFICATIONS



NOTE: All specifications are approximate and subject to change.



NOTE: Refer to the powerbase owner's manual for complete specifications on base and operation.

Sizes - Width adjustable 22" to 30" (55.88cm to 76.2cm) by 1" (2.54cm) increments.

Seat depth adjustable 18" to 26" (45.72cm to 66.04cm) by 1" (2.54cm) increments.

BOSS 4.5 / 6 / 6NS / 6.75 seat to floor with shortened seat post 17.25" (44cm).

BOSS 4.5 / 6 / 6NS / 6.75 seat to floor with standard seat post 18.50" (47cm).

Back height adjustable 19" to 24.5" from top of seat pan to top of back.

Tilt Angle - 0° to 50° while maintaining a low center of gravity.
4° or 8° pre-tilt angles adjustment.

Tilt Weight Capacity -	BOSS HD EQUALIZER	BOSS EHD EQUALIZER
	450 lbs.	600 lbs.

Controls - Separate switch box or optional joystick operated with drive lockout while tilted.

Mounting - 4 Post Seating Mount.

Arms - Adjustable height, angle, removable, flip-up and adjustable position pads.

Back Canes - Adjustable back angle 4° anterior to 20° posterior by 4° increments. The back canes can be folded down for easy loading & transport. 1" square tube standard.

Leg Rigging Options - Flip up foot plate mounted on a length and angle adjustable center column with calf pads. Elevating legrest and Flip up swing away footrest options.

Maximum Incline Rating - BOSS 4.5	BOSS 6/6NS	BOSS 6.75
Hard Surface	9°	8°
Soft Surface	5°	3°

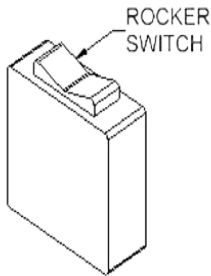
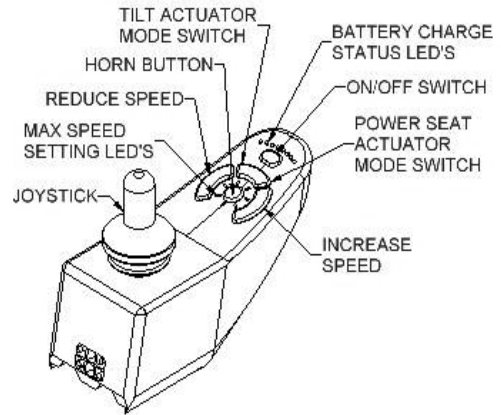
Structural Capacity	BOSS 4.5	BOSS 6/6NS	BOSS 6.75
With Tilt	400 lbs.	550 lbs.	600 lbs.

Weight Capacity Information - Installing the Boss HD Equalizer seating system on a power base reduces the published weight capacity (maximum rider weight) of the power base by 50 lbs. This is because published power base specifications are based on standard seating systems that weigh less than the BOSS HD Equalizer Seating System.

TILT CONTROLS

The motion of the BOSS HD EQUALIZER tilt seating system is controlled in one of two ways.

INTEGRAL SWITCHES - Some power chairs come equipped with an optional Joystick module that has integral switches built into it. The optional switches can control up to two functions such as a tilt mechanism and a power stanza.



EXTERNAL SWITCHES - Some power chairs come with external switches mounted in separate small black plastic box for controlling functions such as tilt mechanisms or power stanza.

⚠ WARNING: Do not operate Rocker Switch while the chair is in motion.

SPEED REDUCTION AND/DRIVE LOCKOUT SWITCH - The tilt system has two safety switches, one that senses when the tilt comes off of its resting position and another that senses the angle that the seat is tilted in relationship to the world. This includes the slope of the surface that you may be driving on such as a hill or ramp. The Speed Reduction switch will automatically cause you to change to a slower drive mode when you raise the tilt from its resting position. The Drive Lockout Switch will automatically shut down the drive system if you tilt your seat past 15 to 20 degrees.

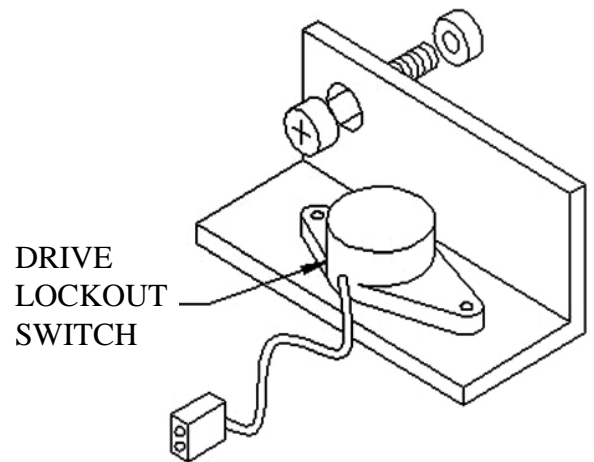
⚠ CAUTION: Always drive the power chair with the tilt seat run down to the lowest position. This will help ensure the stability of the product and remove unnecessary stress from the actuators and seat system that will shorten its life.

Ask your equipment provider about the pre-tilt settings if you find yourself constantly needing to drive the power chair with the actuators setting the seat into a partially tilted position.

The pre-tilt settings can provide for 4 and 8 degrees posterior seat angle.

When tilted above the rest position and while driving on a smooth surface you will find that the speed will be automatically reduced when your seat is in a tilted position up to 15 to 20 degrees.

You will find that the drive system will be automatically disabled when the tilt seat is tilted beyond 15 to 20 degrees causing you to quickly come to a complete stop.



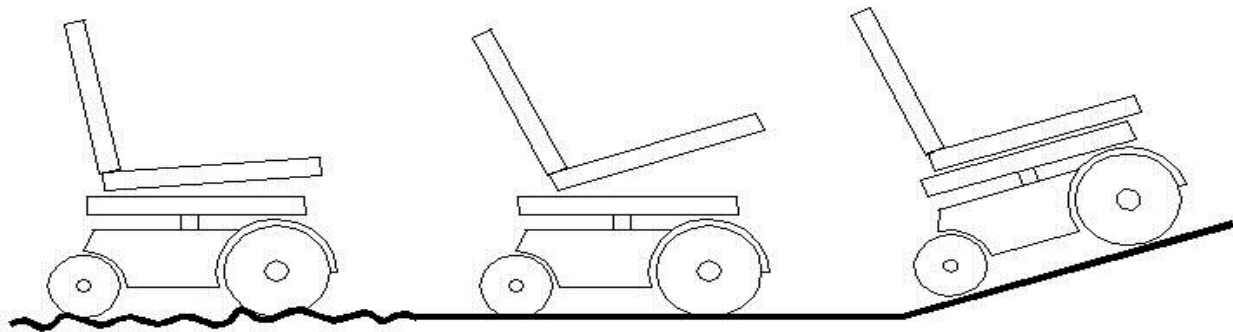
i NOTE: The Drive Lockout Switch can be adjusted between 15 to 20 degrees by your equipment provider.

Maneuvering the power chair at full speed or encountering bumpy surfaces may cause the Drive Lockout Switch to be enacted at a lower angle than those listed above. If the Drive Lockout Switch is impeding your ability to drive where you want to go, lower the angle of the tilted seat and/or reduce your speed.

If you are driving when tilted up near the angle that the Drive Lockout Switch is activated and hit a bump large enough to enact the Drive Lockout Switch, you must release the joystick to allow the unit to reset itself before traveling again.

The safety switches are built into all seats controlled through the joystick as well as those with controls external to the joystick.

i NOTE: Seat incline angle settings must be determined and set by your therapist and or provider.



DRIVE LOCKOUT
SWITCH ACTIVATED
BY ROUGH TERRAIN

DRIVE LOCKOUT
SWITCH ACTIVATED
DUE TO TILT ANGLE

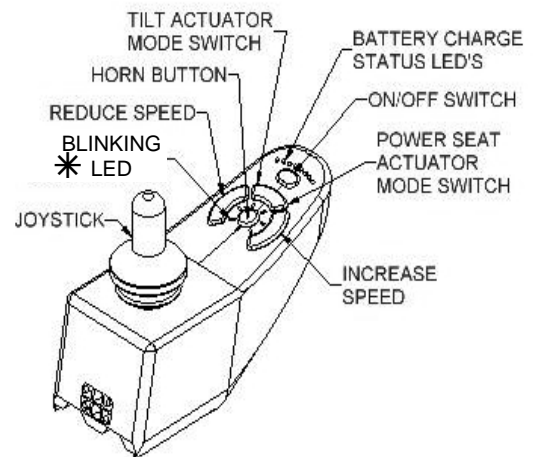
DRIVE LOCKOUT
SWITCH ACTIVATED
BY SLOPED DRIVING
SURFACE

Safety switch LED indicators

Speed Reduction / Creep speed - A single LED to the far right of the battery display will blink to indicate that you are in creep speed.

Drive Lockout due to tilt angle

If seating system is tilted at a steep enough angle to leave creep speed and go to total Drive Lockout, all of the LEDs will repeatedly light up in a sweeping motion from left to right.



Joysticks with integral actuator controls

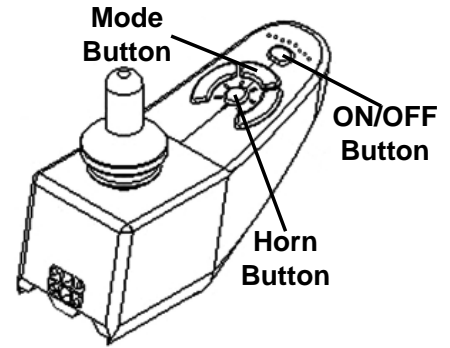
The controller has two modes of operation. One is called the “Drive Mode”. It is used to drive the chair. The second mode is the “Actuator Control Mode” used to power the Tilt and/or a secondary power option i.e. PaceSaver Power Stanza.

While in the “Drive Mode”, the power wheelchair controls will function as explained in the basic owners manual for the Scout power wheelchair purchased.

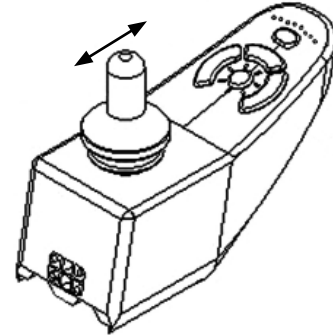
To switch from “Drive Mode” to the “Actuator Control Mode” the power chair must be stopped and sitting on a firm level surface. Locate the Mode Button that sits in between the ON/OFF button and the Horn Button.

Press and release the Mode Button once. You will notice the led on the Mode Button will show the number “1”. You have entered the Tilt Control Mode or Actuator Control Mode 1. Pull back on the joystick to tilt backwards. Push forwards on the joystick to lower the front of the tilt seat.

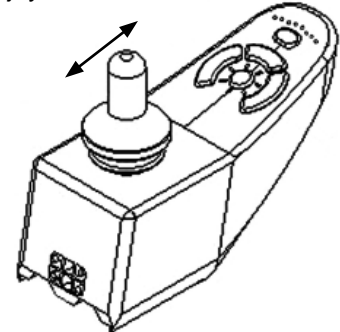
Pressing the Mode Button again the controller will enter into the second “Actuator Control Mode”, while simultaneously highlighting the number “2” on the Mode Button. This will control another power accessory option ie. PaceSaver’s Power Stanza.



In Tilt Control Mode, move Joystick Back & Forth to control Tilt Action.



In Second Actuator Control Mode use joystick to control action.



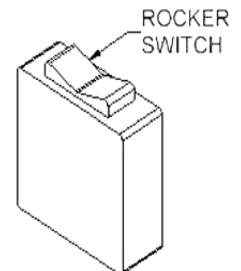
i NOTE: If your chair is not equipped with a second power accessory option, the controller will not enter into the second Actuator Control Mode.

Once you have finished adjusting the powered accessories, you may leave the “Actuator Control Mode” and return to “Drive Mode” by pressing and releasing the Mode Button one last time. The Mode Button will return to its original status of power LED’s being illuminated.

External Controls

Controls that are not activated through the joystick do not require you to toggle between “drive mode” and “actuator control power mode” on the joystick.

⚠ WARNING: Always bring the chair to a complete stop on a flat surface before adjusting the tilt angle. Never adjust the power tilt while in motion.



Locate the black control box with the rocker switch. Press the back of the rocker switch to tilt backwards and press the front of the rocker switch to lower the tilt.

SETUP ADJUSTMENTS

There are a number of set up adjustments only available to be performed by your authorized equipment provider. The following is a list of adjustments that can be made by the equipment owner or care giver.

Boss HD Equalizer Armrest Support Adjustments

a) Armrest Removal

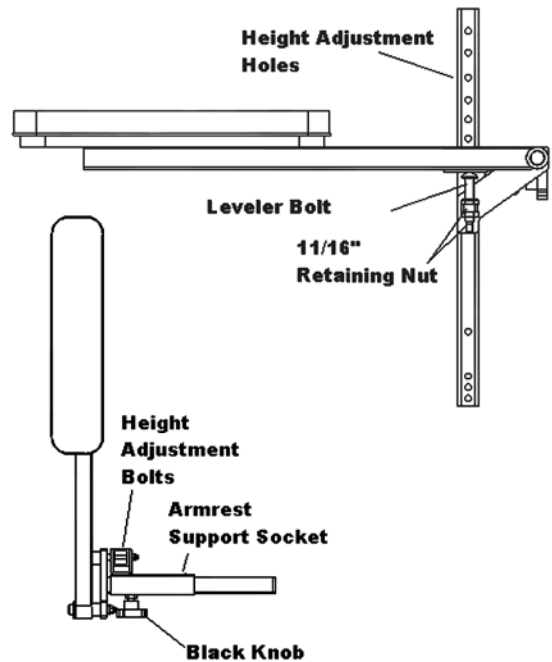
To remove the armrest, loosen the black knob by turning it counterclockwise and then pull the armrest out of the socket. If you are removing the armrest on the joystick side, be sure to disconnect the joystick cable before removing the armrest.

b) Armrest Height Adjustment

Remove the armrest (see step a). To adjust the height of the arms, use an allen wrench and a 7/16" wrench to unbolt the armrest support bracket from the back canes.

c) Armrest Angle Adjustment

To adjust the angle of the arm rest simply loosen the two nuts on the leveler bolt using 11/16" wrenches. Run the bottom nut down so that it is out of the way, and then use the top nut to set the leveler bolt at the desired position. Then use the wrenches to tight both nuts together.



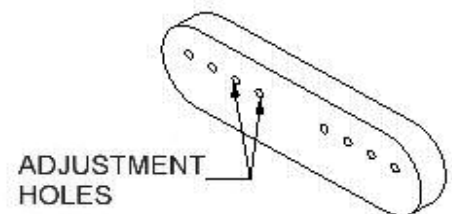
Joystick position

The joystick can be slid in close or further out from your arm pad after loosening the "L" shaped clamp lever found under the arm pad. Slide the controller in or out and then tighten the clamp lever.

Other options available from your equipment provider are a "swing away" retractable controller mount and a dual function mount that is easily adaptable for use by the rider or as an attendant control.

Armrest support & arm pad adjustments

Arm pad position - The arm pads come standard with a number of extra t-nut mounting holes. These holes allow you to move the pad forward or back. You may also turn the arm pads inward to get them through doorways easier.



Boss HD Equalizer Leg Support Adjustments

Tools needed: 7/16" wrench

a) Leg Support Length (Custom Lengths Available. For More Details Call 1-800-255-0285)

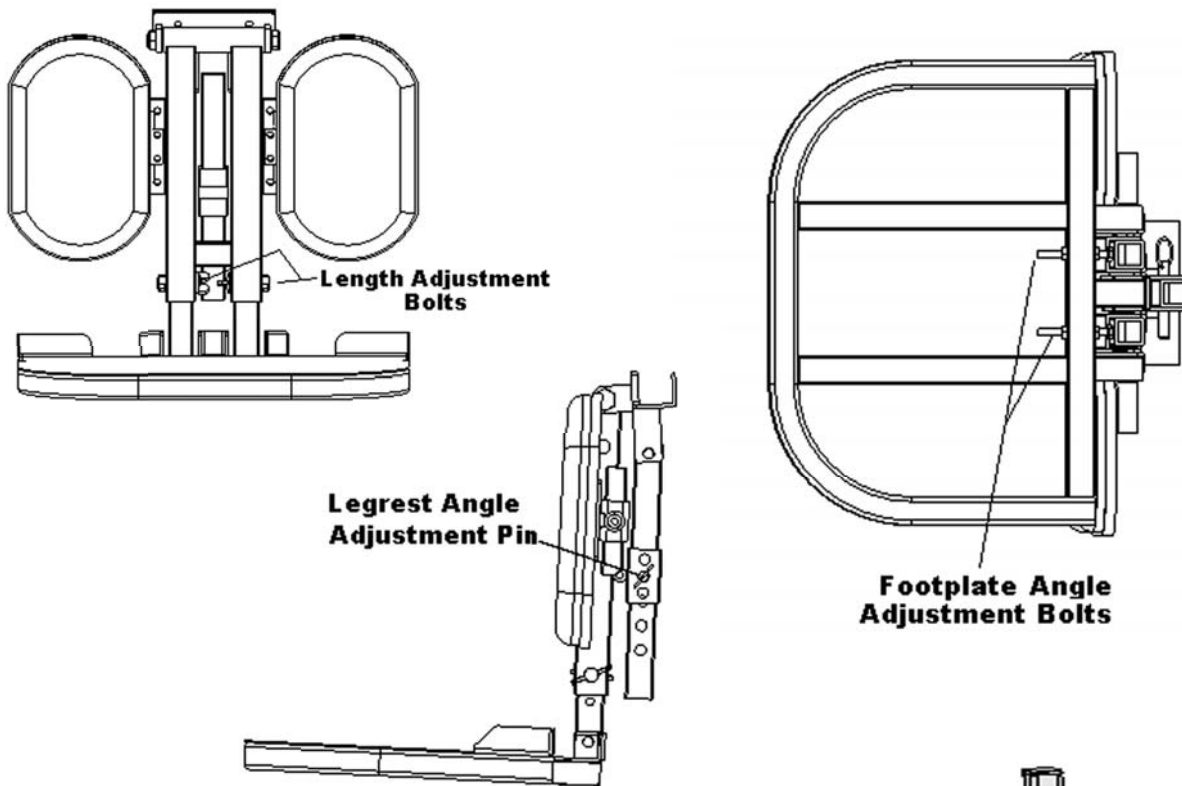
The center tubes can telescope in and out to change the overall length of the center column leg rest. To adjust the length simply remove the two nuts and bolts then move the tubes to the desired hole and put the bolts back through and tighten the nuts with an allen wrench and 7/16" wrench.

b) Elevating the Foot Plate Column Angle

The center mounted leg rest has a series of holes that allow you to pivot the leg support at different angles and lock it into place. To adjust this angle simply pull the pin out of the hole that it is currently in and lift or lower the leg rest the desired angle. Then insert the pin into the nearest hole.

c) Footplate Angle

The angle of the footplate can be adjusted using the bolts on the bottom of the footplate. Use 7/16" wrenches to loosen the nuts and set the bolt to stop the footplate at the desired angle, then tighten both nuts.



Back angle adjustment

The angle of the back canes can be adjusted or folded flat for easy transport by removing the wing nut found on the fastener near the base of the back cane. Each set of holes sets the back at a different angle in 4° increments. Leave the top pivot bolt in place as you adjust the back angle.




COMMON ACCESSORIES


Headrest
 Longer lap belts & Aircraft style lap belts
 Wheelchair Transport Securement Anchors
 Adjustable center column foot plate
 Elevating leg-rests & Swing away flip-up footrests
 Hip guides
 Heel loops
 Edema pad
 Retractable controller mount

ROUTINE MAINTENANCE

Please refer to the Powerbase Owners Manual for maintenance information specific to you powerbase

 **CAUTION:** The following is a list of maintenance tasks to be performed by the user or care giver of the tilt system on a weekly basis.

To ensure the optimal safety and reliability of your power positioning system, please adhere to the Routine and Recommended Suggested Maintenance schedule.

 **NOTE:** Please note the following maintenance tasks that should be incorporated into your daily/weekly/monthly/yearly routine.

1. Cleaning:

 **WARNING:** Do not allow electrical components to get wet. Wipe dry.

- a) **Metal frame** - Wipe the metal frame with a sponge or rag moistened with a mild solution of soap and water.
- b) **Cushions** - Wipe the cushions with a sponge or rag moistened with a mild solution of soap and water.

2. Checking fastener tightness

The following fasteners on the Equalizer HD Tilt are intended to be hand tightened and therefore should be checked periodically and retighten if vibrations have caused them to loosen.

- a) Black plastic knobs on armrest supports
- b) The wing nuts used adjust the back angle.

3. Look, listen, and report.

As with any machine that you use, it is important that you become familiar with the tilt systems' normal operational feel, appearance, and sound to help ensure your safety and the reliability of the product. If things seem to change, contact your equipment provider.

Contact your equipment provider if you have any questions or concerns about how your tilt seat is functioning.

RECOMMENDED MAINTENANCE SCHEDULE

Daily/Weekly

- Check that all buttons/toggles that operate your BOSS Equalizer HD Tilt System functions properly.
- Charge the batteries, if required, as described in the Powerbase/Wheelchair Owners Manual.
- Clean the tilt system using a damp cloth with a mild soap. Use a minimal amount of water.
- Inspect the joystick cable for wear, damage and that proper connections are made.
- Check the Posterior Barrier Flap is in place.

**WARNING:**

- Posterior Barrier Flap must be in place to prevent tissue flowing through seat back gap causing skin pinching and or tearing.

**WARNING:**

- For detailed information on charging your powerbase batteries, please be certain to read and carefully follow the instructions provided in the Powerbase Owners Manual and Battery Charger Manufacturer.

Monthly

- Ensure batteries are clean (free from corrosion/dirt/moisture).
- Inspect the battery and motor connections for wear, damage, and that proper connections are made.
- Ensure Actuator Rod ends are secure and pinned properly.
- Ensure no sticking/interference during system operation (over full range of seating system)
- Inspect for excessive noise or grinding.
- Ensure all nuts and bolts are secure.
- Look the Power Wheelchair Base over in general making sure all the bolts and nuts are still tight.

Every 6 Months

- Inspect that all pivot points are operating smoothly, freely and are secured. (do not overtighten)
- Inspect all wheels for looseness and tire wear.
- Clean the upholstery as needed.
- Have the equipment inspected, adjusted and repaired as needed by your equipment provider.

The expense involved is always less than repair bills caused by a lack of proper maintenance. In the same way a car would not last without service, a wheelchair should be maintained regularly.

Yearly

- Thoroughly examine your wheelchair to look for undetected wear and other potential problems and have problems repaired immediately.

**WARNING:**

- If you ever notice any part of your tilt seating system or wheelchair base working in an improper or unsafe manner, stop using it immediately and contact your dealer to arrange repairs. Do not use your tilt/wheelchair if there is any possibility it is not safe!

SAFETY INSPECTION CHECKLIST

Item	Initially	Monthly	6Months	Periodically
Batteries				
Ensure batteries are clean (free from corrosion/ moisture/ dirt)	👍		👍	
Ensure connections are tight and clean	👍		👍	
Electrical / Wiring Harnesses				
Check for pinches or pulls in wiring (over full range of seating system)	👍	👍		
Inspect for wear & tear damage to wires	👍	👍		
Ensure connections are secure	👍	👍		
Actuators (where applicable)				
Ensure actuator rod ends are secure and pinned	👍		👍	
Ensure no interference/sticking during system operation (over full range of motion)	👍			👍
Inspect for excessive noise or grinding	👍			👍
Hardware Tightening & Adjustment				
Mounting hardware (seating system to base)	👍			👍
Ensure all nuts and bolts are secure	👍			👍
Inspect all pivot points are operating smoothly, freely & secured (do not overtighten)	👍			👍
Drive Lockout Switch				
Ensure DLO(Drive Lockout) functions correctly	👍	👍		
Glide Blocks and Track Maintenance				
Ensure channel is free from dirt/dust/grime	👍			👍
As needed, lightly lubricate slide channel using a non-lithium/non-aerosol cleaner (eg. AGS-Sil Glyde Brake Lubricant)				👍

⚠️ WARNING:

Check that both actuators are operating. If the seat starts tilting to one side during operation and/or the push bar is not square during operation. This is indicative of a single actuator failure. In the event of a single actuator, do not use the tilt seat function and get serviced as soon as possible.

TROUBLE SHOOTING

If you are having operational problems with your power chair equipped with the Equalizer, there are a few simple things you may want to have checked before contacting your equipment provider.

1. Low power or short run time.

Make sure that the batteries are properly connected and have had a chance to fully charge. Follow the charging instructions that come with the power base. If your batteries are older, the charger may indicate that they are fully charged yet they may have low capacity.

2. Loose connections

There are a number of wiring connections used on the system. Some of them include those going to the motors, batteries, joystick, and tilt safety switches. If you notice that one of the connections is loose, shut off the power to the unit and remake the loose connection.

3. Seating System is not functioning.

Check the unit has power.

Check that the seating system is not tilted/elevated beyond the Drive Lockout Angle.

Check cable/ cable tie connections.

Check/ Charge/ Replace Batteries.

3. Jerky operation while driving on a flat surface.

Lower the angle of the seating system if tilted.

Refer to Powerbase/Wheelchair Owners Manual for further troubleshooting.

4. The unit comes to a complete stop while driving, requiring you to release the joystick before driving again. You may need to lower the angle of the seating system if you have it tilted.

i NOTE: Refer to the Powerbase Owners Manual for troubleshooting powerbase issues. For all other issues please refer to your dealer or call PaceSaver Service Department at 1-800-255-0285.

BOSS HD**EQUALIZER Tilt System Limited Warranty**

Leisure-Lift, Inc. will repair or replace at its option to the original PURCHASER any of the following components found upon examination by an authorized representative of Leisure-Lift, Inc. to be defective in material and/or workmanship under normal use and service for a period of . . .

Three Year Limited Warranty on any structural frame components (excluding all leg riggings).

Two Year Limited Warranty from date of purchase on any of the electronic parts and actuator.

Year One 100% (parts cost only)

Year Two 50% (parts cost only)

Six Month Warranty on any plastic components, rubber components, bearings and bushings.

The Manufacturer's Authorized Dealers can perform warranty service. Parts or components should not be returned to the Manufacturer without prior consent. All transportation cost and shipping damage incurred while submitting parts for repair or replacement are the responsibility of the original purchaser.

All parts that are defective, as determined by the factory, will be replaced free of charge within the warranty period (see above warranties for details). This Warranty from Leisure-Lift **DOES NOT INCLUDE LABOR**, either at your home or at your dealer's place of business. During the warranty period, Leisure-Lift, Inc. may, at its discretion, determine it is necessary to return the *Equalizer Tilt System* to the factory for repair. Leisure-Lift, Inc. will provide parts and labor, at our factory, free of charge for problems considered to be covered under our warranty. The customer is responsible for all freight charges if the *Equalizer Tilt System* is shipped to the factory.

Failure to properly service the *Equalizer Tilt System* at the intervals prescribed by the owners manual, abuse or faulty service may void this limited warranty and can result in charges for parts and service. All rights under this limited warranty must be exercised within 20 days after the end of the warranty.

Warranty Exclusions:

- Upholstery (seating)
- Leg riggings (Swing-Away Foot Rest and Elevating Leg Rests)
- Repairs and/or modifications made to any part without specific consent from the Manufacturer.
- Circumstances beyond the control of the Manufacturer.
- Damage resulting from operation other than the intended use of the product.
- Damaged Caused By:
 - Battery fluid spillage or leakage
 - Abuse, misuse, accident or negligence
 - Improper operation, maintenance or storage
 - Commercial use or use other than normal

THERE IS NO EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM THE DATE OF PURCHASE AND TO THE EXTENT PERMITTED BY THE LAW. ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. THERE IS NO EXCLUSIVE REMEDY. LIABILITIES FOR CONSEQUENTIAL DAMAGES UNDER ANY AND ALL WARRANTIES ARE EXCLUDED.

Warranty cards should be completed and returned by the original purchaser to the Leisure-Lift, Inc. in order for Leisure-Lift to provide the best technical and customer service.

Dear Friend:

Thank you so much for your purchase of a PaceSaver BOSS HD Equalizer Tilt! We value your trust in us and we will do everything we can to keep you happy. You're in a special group now. Thousands of people before you have trusted Leisure-Lift to provide them with the highest quality mobility products available. They and you have made PaceSaver the most valuable power wheelchair around.

We hope that you have read the Owners Manual completely, and that you understand all of the safety precautions and recommendations that apply to your particular power wheelchair. If you have any questions, please ask your PaceSaver dealer. They can help explain any points that you do not understand.

In addition, your dealer will be glad to help you with any of your other PaceSaver needs. Situated close to you, they are in the best position to provide you with assistance and service.

The enclosed warranty card must be filled out in order for Leisure-Lift to:

1. effectively warranty your product in case of a problem
2. to properly follow the guidelines laid down by the Food & Drug Administration and to
3. allow us to locate you in the event of a product recall or modification

We also ask several questions about you to help us better understand the needs of our customers. The information you provide us helps to keep our power wheelchairs at the leading edge of quality and functionality and we hope that we can count on you to help us. Leisure-Lift always values the options of our customers and you may write us at any time to relate to us your "PaceSaver Experience" good (or not so good).

REMEMBER. . .
It is in your best interest to see that you (not your dealer) properly complete this card and see that it is returned to Leisure-Lift.

Cut along dotted line

Yes, I want to register my warranty and apply for my "EXTENDED LIMITED WARRANTY"!

I have

1. Enclosed my proof of purchase and
2. Completely filled out the registration information below.

Please send me my Warranty Certificate by return mail. I understand that I must have the certificate to receive extended coverage and that if I do not receive my warranty certificate within 30 days, I should contact the dealership from whom I purchased the unit.

For Service Call

Dealer: _____

City, St.: _____

Your Serial Number is: _____

DEALER NAME (if different from above) _____

YOUR NAME _____

ADD1 _____

ADD2 _____

CITY, ST, ZIP _____

PHONE _____ / _____ Date Purchased ____/____/____

This Warranty has been sponsored by my dealer

YES, please send me my Extended Warranty Certificate.

I certify that I have read and understand the owners manual and all of the safety information contained within.

(sign) _____

To help us better understand our customers, we would like to know a little about you. Please fill in all the information you can.

AGE: _____ WEIGHT: _____ HEIGHT: _____