



Operator & Service Manual LiteGait[®] 300MX (Version A)

SERIAL NUMBER

Serial Number of Your Device:

Note: Please keep your serial number in a safe and secure location. The serial number must be provided when seeking service for your LiteGait[®] device. The serial number provides us access to technical information regarding your device.

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www.LiteGait.com 1-800-332-9255



IMPORTANT SAFETY INSTRUCTIONS

WARNING

READ ALL INSTRUCTIONS BEFORE USING LiteGait®

MAXIMUM PATIENT WEIGHT: LiteGait[®] 300MX: 300 lbs MAXIMUM UNIT HEIGHT: 7 feet 0 inches

- Use only under the direct supervision of a health care professional or caregiver
- Brakes should remain in the locked position at all times until transfer from one location to another is initiated.
- Operate on smooth and level surfaces ONLY.



Dear LiteGait® User,

CONGRATULATIONS on your recent purchase of LiteGait[®], the most innovative gait and balance therapy training system available today. As you know, LiteGait[®] can be used with a wide variety of patient impairment levels and conditions. If you have questions about the possible uses of LiteGait[®] with particular patients, or are in need of some ideas for ways to use LiteGait[®] more effectively, please do not hesitate to contact us for information relating to your individual situation. Our website also offers valuable information.

Like all quality therapy equipment, LiteGait[®] requires regular inspections. Enclosed is a check list for your convenience. Please complete the checklist every 6 months to ensure the efficient, safe, and effective operation of the LiteGait[®] unit. If you should find a problem with a LiteGait[®] part, please contact the Technical Support Department immediately. Here are some resources, which will be of help to you:

CLINICAL SUPPORT: TECHNICAL SUPPORT: WEBSITE: USER FORUM :

Sincerely, Customer Service Department Mobility Research clinicalsupport@LiteGait.com technicalsupport@LiteGait.com www.LiteGait.com www.LiteGait.org

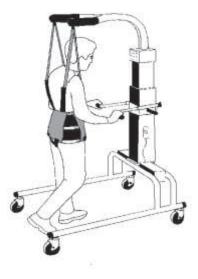


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LiteGait[®] Assembly

Tools Required: Scissors 1/2 inch socket or open-end wrench 5/16 inch Allen wrench (provided)

LiteGait[®] I Assembly Instructions: Read below & follow pictures.

NOTE: Two people are required for safe assembly.

NOTE: Your LiteGait[®] may look different than the following images, but assembly Steps are the same.

NOTE: If you have any questions during installation, please contact Mobility Research Technical Support for assistance.

1.) Inspect shipment and note any visual damage to box and/or crate



2.) Remove screw located at the bottom of crate

3.) Lift off exterior box in order to expose equipment



4.) Examine contents. Report any damage to equipment immediately to Mobility Research Technical Support



5.) Loosen handle bar knobs and raise handle bars.



6.) Remove cardboard harness and accessories box.



7.) Open cardboard harness and accessories box.

CAUTION: DO NOT USE UTILITY KNIFE TO OPEN BOX



8.) Inspect contents of harness and accessories box for damage.



9.) Carefully cut all black plastic straps securing base to pallet.

10.) Using both people, remove base from pallet.





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11.) Position base over pallet with actuator near base as pictured.



12) Cut and remove plastic wrap from base compartment

13.) Remove hand switch from inside base compartment and set aside for installation of actuator

14.) Prepare base for installation of actuator. Remove four black steel bolts from base using allen wrench in small box.

15.) The actuator cord will sit between the edge of the base and the plate on the actuator. Pull actuator cord, out and rest on base prior to installation of actuator.

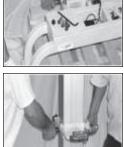
16.) Remove screws securing actuator to pallet.



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17.) Lower handle bars on actuator and tighten knobs before lifting.

18.) Lift actuator from pallet to base using two people





20.) Insert bolts and hand tighten. Make sure while one person is inserting bolts, the other is holding the actuator.

21.) Tighten the bolts until snug using the allen wrench.

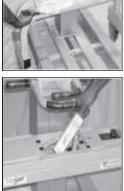
CAUTION: DO NOT over tighten the

22.) Insert the actuator connector into the back of the actuator.











19.) Orient the actuator on base such that the yoke and handle bars are facing the same direction as the legs of the base.

bolts.

23.) Twist the red button clockwise to turn on the LiteGait®.



24) The battery capacity display should display four solid black bars indicating a full charge. If the display does not show any solid black bars check battery connection.

25.) Verify the connection of the power system to the actuator by pressing the up and down buttons on the hand switch.

26.) Carefully remove all shrink wrap from LiteGait[®].

CAUTION: DO NOT USE UTILITY KNIFE TO REMOVE SHRINK WRAP





• (Optional) BiSym Assembly

1.) Remove Digital BiSym card board box from harness and accessories box



2.) Open Digital BiSym Box card board box and inventory the following.

- Digital BiSym Display
- Digital BiSym Charger



4.) Connect the load cell cables marked LEFT and RIGHT to the LEFT and RIGHT Ports on the side of the Digital BiSym Display

5.) Connect the Digital BiSym Battery Cord exiting the top of the LiteGait® to the short cord exiting the Digital BiSym Scale

NOTE: THE DIGITAL BISYM IS CHARGED BY CONNECTING THE DIGITAL BISYM CHARGING CABLE TO THE DIGITAL BISYM BATTERY CORD.

NOTE: DIGITAL BISYM SHOULD BE CHARGED ONCE A MONTH OVER-NIGHT

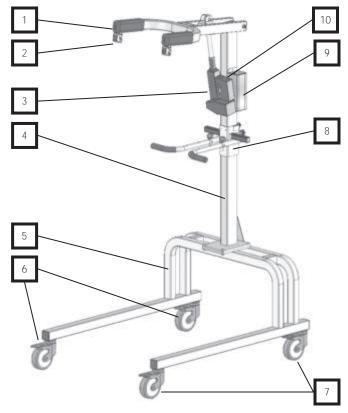
NOTE: DO NOT DISCARD DIGITAL **BISYM CHARGING CABLE**





LiteGait[®] Diagram

- 1. Yoke Assembly
- 2. Buckle Assembly
- 3. Actuator
- 4. Post Assembly
- 5. Base/Frame
- 6. Total Locking Casters
- 7. Directional Locking Casters
- 8. Handle Bar Assembly
- 9. Battery Box
- 10. Control Box



NOTE: Your LiteGait® may look different than image above

About Your LiteGait®

LiteGait® is comprised of several parts.

YOKE: Y-shaped support that has four female buckles at the ends and is attached to the actuator with a flat plate secured by four bolts.

OVERHEAD STRAPS: Four 44" long adjustable straps with male connectors at one end and padded female buckles at the opposite end. The male connectors attach to the yoke buckles and the female buckles attach to the harness providing postural support for the patient.

HARNESS/GROIN PIECE: Adjustable wrap with a buckle closure in the front and three adjustable straps on each side. The four male connectors at the top of the harness that attach into the female buckles of the overhead straps. The four female buckles at the bottom of the harness allow for the connection of the groin piece. The H-shaped stitching on the groin piece denotes the top (or body side) of the piece.

ACTUATOR: The mechanism that raises and lowers the yoke. The actuator consists of a concentric expanding and retracting square tower that houses the DC motors, gearing and the screw mechanism. It also provides the structural base to which the adjustable handlebars are attached. CONTROL UNIT: Junction box mounted in the base for the battery power, handheld switch and contains electrical safety protection circuitry. The battery pack connects to this unit and is also located within a compartment of the actuator.

HANDLEBARS: Unit has two adjustable handlebars. The handle bars are attached to the unit using two knobs.

NOTE: Over tightening the knobs may cause damage.

BASE: Two horizontal bars connected by two Ushaped tubes. The base moves freely over ground or can be locked into place during use over a treadmill. However, your unit must be locked into place at all other times.

CASTERS: Four casters are attached to the base. The two casters on the left side are total locking and the two casters on the right are directional locking. Be certain to lock both caster brakes when using the unit over a treadmill or when connecting the patient to the unit.

WARNING: NEVER leave patient unattended in the unit.

BISYM (Optional): Provides a display of the pounds/ kilograms of support provided by each arm of the yoke. The load cells that are installed in the yoke sense the load on the yoke and feed it to the BiSym Scale for processing and display.



Using Your LiteGait®

How to Adjust Yoke Height

The LiteGait[®] powered actuator column is raised and lowered by a hand switch with two up and two down arrows.

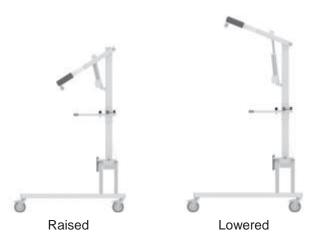


Raising the Yoke

Verify that LiteGait[®] has clearance above the yoke. Depress the button with the up arrow on the hand switch. Release the button when the yoke is at the desired height.

Lowering the Yoke

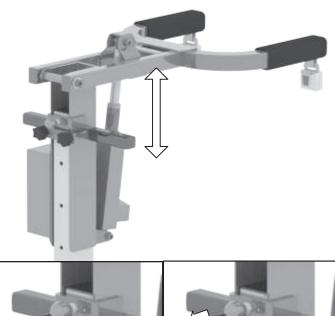
Verify that LiteGait[®] has clearance below the yoke. Depress the button with the down arrow on the hand switch. Release the button when the yoke lowers to the desired height.

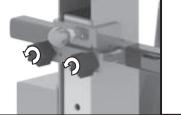


Adjustable Yoke Height

Your 300MX may include a yoke with an adjustable post position. This feature is not applicable on all models of the 300MX. If you do not have the adjustable yoke, please disregarding the following section.

The LiteGait[®] yoke is raised and lowered manually by loosening the knobs securing yoke plate to the post. Once the knobs are loose, the yoke can be raised or lowered by pulling out the spring pin on the back of the yoke. After adjusting the yoke to the desired height, release spring pin and lock into the closest hole on the back post. Tighten the knobs to secure the yoke once in place.







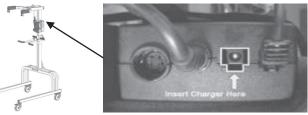
Loosen Knobs Pull Out Spring Pin NOTE: Your LiteGait® may look different than images above

Charging the MX Yoke

The LiteGait[®] 300MX is equipped with a 24 volt battery pack that needs to be charged on a weekly schedule. To recharge your battery follow the steps below:

Step 1:

Insert the end of the charger into the port on the top of the actuator.



Step 2:

Plug the charger into the appropriate 110-volt.

Step 3:

Leave LiteGait[®] on charger for 6-8 hours or overnight once per week. The time it takes to recharge the battery pack depends upon the health of the battery pack and how low the battery pack was before charging began.

Step 4:

After charging the LiteGait[®] unplug the charger from the <u>WALL OUTLET</u> AND <u>LiteGait[®]</u>.



Using Your LiteGait®

Note: Leaving a charger connected to the LiteGait[®] while disconnected to the wall outlet device decreases the battery life of the LiteGait[®] battery. Disconnect the charger from the <u>WALL OUTLET</u> and <u>LiteGait[®]</u> to reduce frequency of replacing the LiteGait[®] Battery.

Low Battery Indicator Alarm

The LiteGait[®] unit emits an audible noise when the charge of the battery is critically low and needs to be recharged. If you experience audible noise, make sure to charge promptly after use of the LiteGait[®]. The LiteGait[®] will ONLY lift and lower approximately 2 to 3 more times before shutting off. The LiteGait[®] should be charged before running down to a point where you are unable to lower a patient.

Charger

The LiteGait[®] battery is charged using a low current, hospital guideline approved charger. The charger has an indicator LED light that turns green when the charger is plugged in and not connected to the LiteGait[®]. When the battery is charging the LED turns red and then back to green after the battery is fully charged.

Green Light

The charger is plugged into the socket (if the battery is disconnected).

The battery is fully charged (If the battery is connected and the charger is plugged into the socket

Red Light





Below is a graphic showing the location of all cable that plug into the control box for the LiteGait[®]. During use the battery cable and hand switch cable should be connected. When charging, the charger cable should be plugged in and the LiteGait[®] should not be used.



Note: Ensure that all plugs are inserted completely and securely.

Adjusting Handle Bars

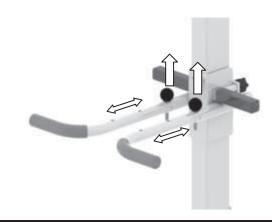
Raising and Lowering the Handle Bar

Loosen each knob in equal portions. The knobs should only need to be turned once to free the handle bars. Once the knobs are loosened slide the handle bars to the desired height. Hand tighten both knobs equally. Again, the knobs should only need to be tightened one rotation.



Adjusting Handle Bar Configuration:

The handle bar configuration can be modified to suit multiple training scenarios while using the LiteGait.



WARNING: LiteGait[®] Handle Bars are designed to be used as a balance aid while using the LiteGait. Excess loading of the handle bars may damage handle bars. Avoid Having patients lift their weigh using the handle bars.

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Base and Casters

LiteGait[®] is equipped with four casters. There are two total locking casters and two directional lock casters. Each leg has one type of casters, the total locking are mounted on the Left Leg the Total Locking are mounted on the right.



Locking and Unlocking Casters





Press tab to lock

Locked Caster

Total Locking Casters

Total locking casters are indicated by a red BRAKE sticker on the locking lever. To lock the total locking casters, press the tab until the brake snaps into place. The caster will lock the swivel of the caster and rotation of the wheel. Locking all four casters will make the device stationary. NOTE: While locking the caster prevents rolling of the unit, it DOES NOT prevent the unit from sliding on a sloped, slippery floor. The unit should only be used on a flat floor away from stairs or ramps. NEVER leave a patient unattended in the unit.

Directional Locking Casters

Directional lock casters are indicated by a green sticker in the locking lever. To lock the directional locking casters, press the tab and align the caster with the frame. Once Aligned this locks the swivel of the casters and is beneficial for walking in a straight path or placing LiteGait® over a treadmill. Once the unit is positioned over a treadmill, all four caster brakes need to be locked

Directional Locking Casters with Treadmill

- Position LiteGait[®] near the treadmill (or where you wish the patient to begin walking).
- Roll LiteGait[®] towards the front of the treadmill, until the casters line up parallel to the treadmill (or parallel to the path the patient will follow—a hallway for example).

Press the directional locks to lock swivel of casters

LiteGait[®] can now be easily rolled back and forth over the treadmill or on a straight path in the therapy room or hallway.

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BiSym Scale (Optional)

BiSym is a unique option available with LiteGait[®] to measure unilateral or bilateral support. Lite**Gait[®]'s special** design includes a two-armed yoke which holds the patient above each shoulder. From these two points, the harness system can be adjusted to provide as much or as little support required to each side of the body. The range of support can vary on each side from full to no support.

BiSym measures this asymmetric support at any given time during the gait cycle. Each arm of the yoke is instrumented with a load cell with electrical connections to a box at the base of the yoke. This electronic box powers the load cells, processes the signals and displays the supported loads of each arm or total support on a display unit. This can be used for charting of therapy progression as well as accommodation of weight bearing status.

Optionally, digital outputs representing the supported loads on both sides of the body are provided for digital recording on to a PC.

These signals vary as the weight bearing load changes from the right to left side during the gait cycle. This can be used as biofeedback for the patient. The more weight bearing by the patient = better posture = less work by machine = smaller BiSym reading.

Connecting the BiSym

- Connect Corresponding Load Cell wires from BiSym ready LiteGait® yoke into BiSym Scale.
- Slide BiSym Scale onto the pre-installed bracket at the base of the Right Channel yoke.

NOTE: Proper installation will leave the monitor visible to the patient supported in the LiteGait®



Using the BiSym Scale

Press any button to turn the BiSym Scale on.

The BiSym Scale has an AUTO SHUT-OFF that can be adjusting during the CHANGE SETTING? mode (see below)

Changing Display Modes

Press set to cycle through mode displays.

- Right Support
- Left Support
- Difference (Right Left)
- Total (Right + Left)
- Both Supports

The top row displays the supported load in pounds (lb) or Kilogram (kg) depending on the setting. The bottom row displays a bar graph representing the value in the top row as a percentage of the specified weight (default value 100lb).



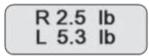
Right Support



Total (Right + Left)



Left Support





Difference (Right - Left)

Both Supports

Using Your LiteGait®

Changing BiSym Settings

To enter settings mode

- Press and hold the SET button for 3 seconds or until display shows CHANGE SETTING?
- Press Set a second time to confirm change settings

After selecting the CHANGE SETTING? mode the BiSym will cycle through three screens

- Weight Unit Setting
- Auto Shut-Off Setting
- User/Patient Weight Setting

Selecting the units measurement for weight reading on the scale

- After selecting the CHANGE SETTING? mode, the Weight Unit Setting screen will be displayed for three seconds.
- Press the set button to toggle between pounds (lb) and kilograms (kg).

Adjusting the Auto Shut-Off time

- After the Weight Unit Setting screen, the Auto Shut-Off Setting Screen will be displayed.
- Press the CAL button while on the Auto Shut-Off setting screen to adjust the Auto Shut-Off. The Auto Shut-Off should be set between 3 and 60 minutes

WARNING: SETTING THE AUTO SHUT-OFF TO 0 WILL DISABLE THE AUTO SHUT-OFF. THIS WILL DISABLE AUTO OFF FUNCTION ON THE BISYM SCALE RESULTING IN NO SHUT OFF OF THE BATTERY.

Setting the User/Patient Weight

Press the Set button to add 10 pounds at a time to the pre-set value of 100. Set the value to the patient weight within the nearest 10 pound and the graphic display represents the percentage of the set weight being supported. The default setting to 100 reflects the actual weight of the patient.

Charging the BiSym Scale

The BiSym scale battery is charged by a charger separate from the LiteGait[®] device. The BiSym battery should be charged for <u>6 - 8 hours or overnight once per month.</u>

The BiSym is connected to the BiSym Battery cable located at the top of the LiteGait.

Disconnect the battery cable from the BiSym Scale.

Plug the male end of the charger cable into the female end of the battery cable. Plug the charger into the appropriate 110 or 220 volt outlet.



CHANGE SETTING?

LEFT











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Setting the BiSym Zero Calibration

The zero calibration should only be set while the harness is attached to the LiteGait. Please make sure to connect the harness to the overhead straps prior to setting the zero calibration. There should be no additional weight attached to the harness. Zero Calibration should be performed WITHOUT a patient in the device.

Press the CAL button and hold for three seconds or until the monitor displays "ZERO CALIB" Confirm by pressing the SET button

Set the Left Zero by pressing the Set Button

Set the Right Zero by pressing the Set Button

Test zero calibration by toggling through the weight readout screens. All screens should be displaying a zero pound or kilogram readout.





Harness Application

Preparation

- 1. Pick the appropriate harness and groin piece for the patient (based on patient girth).
- 2. Estimate the harness girth before placing on the patient by folding the harness in half so that the ends meet. Then, hold the harness in front of the torso to estimate the width from one side of the body to the other.
- 3. Tighten or loosen the 3 rows of side straps on each side of the harness. (To loosen the side straps lightly pull up on the black tabs on the side buckles.)
- 4. Keep the harness folded in half and align the top buckles so that they are adjacent with each other.
- 5. Take the groin piece and adjust the groin strap padding towards the center of the strap before putting it on.
- 6. Adjust the front groin straps so they are equal in length.
- 7. Adjust the back groin straps so they are equal in length.
- 8. Attach the groin piece to the back of the harness.

9. The side of the groin piece with the H-outline stitching (most padded) will go against the patient's body. *How to put on the Harness*

The harness was designed to support a patient in an upright position, allowing for full hip extension. This upright posture plays a critical role in the effectiveness of the gait therapy performed with partial weight bearing.

The front of the harness wrap refers to the point at which the two ends of the harness meet. The harness can be worn with the closure either in the front or in the back. There are four buckles on the top and bottom of the harness wrap. The four top buckles extend beyond the harness from the top seam and attach to the LiteGait® straps. The bottom four buckles attach to the groin piece and do not extend past the bottom seam of the harness.

Harness Application - While Standing

- 1. Wrap the harness around the patient's torso.
- 2. Place the lowest strap over the greater trochanter.
- 3. Attach the front buckles.
- 4. Tighten the lowest straps first
- 5. Attach the groin piece (see Groin piece attachment section).
- 6. Attach harness to LiteGait® (See Connect the Harness to your LiteGait®)



Step 1



Step 3



Step 2



Step 5



Step 3





Groin Piece Attachment

- 1. Attach the groin piece to the front harness buckles. The stitched side of the groin piece should be facing up against the body.
- 2. Hold the padded part of one end of the groin piece with one hand.
- 3. Pull it against the patient's leg. Keep holding it while the other hand pulls the free end of the groin strap.
- 4. Tighten the groin strap snugly so there is NO slack.
- 5. Repeat on the other side.
- 6. Pull out any wrinkles or bunching from the patient's clothing.
- 7. Sit the patient up or stand the patient, if safe

NOTE: ENSURE AT ALL TIMES THAT THE BOTTOM STRAP OF THE HARNESS IS AT THE LEVEL OF THE GREATER TROCHANTER (HIP JOINT CREASE).

NOTE: CONTRARY TO WHAT MAY SEEM REASONABLE, A LOOSE GROIN PIECE DOES NOT IMPART GREATER COMFORT TO THE PATIENT, BUT ALLOWS THE HARNESS TO SLIDE UP THE TRUNK, PUTTING UNWANTED LOAD/FORCE ON THE GROIN AREA. TIGHTEN THE GROIN STRAP SO THAT NO SLACK REMAINS IN THE STRAPS. THIS ASSURES THAT THE HARNESS WILL NOT RIDE UP ON THE PATIENT.

Connect the Harness to your LiteGait®

- 1. Lock the all four casters to make the device stationary.
- 2. Adjust the yoke to the correct position, giving the patient approximately 5 to 6 inches of head clearance
- 3. Extend the overhead straps until they are long enough to reach the upper connection on the harness. Attach the four buckles that hang from the overhead straps to the appropriate buckles on the harness. Pull the straps until taut.
- 4. With the patient in the harness, bring the patient into a standing position directly under the yoke buckles. Have the patient hold the handle bars. Adjust the height of the handle bars to suit the patient.
- 5. The unit can now be used for ground therapy, or to assist the patient in stepping onto the treadmill.
- 6. With higher level patients, the unit may be positioned over the treadmill prior to buckling the patient in place.

WARNING: UNDER NO CIRCUMSTANCES SHOULD THE PATIENT HAVE ALL WEIGHT REMOVED FROM THE LEGS FOR MORE THAN TWO MINUTES AT A TIME

Leg Strap Instruction

Leg Straps are abductor straps that replace the groin piece. They are sized to match either 1" plastic buckles as in WalkAble and Junior harness or 1.5" plastic buckles as in adult and small adult harness or the metal buckles of the bariatric harness. They consist of a pair of self-Velcro wraps with straps to connect to the harness. The wraps are applied below the bulk of the thigh and above the knee so as not to interfere with knee function but grab the upper leg tightly.

The orientation of the wrap is such that the strap is perpendicular to the ground and pointing up toward the hip and is on the outside of the leg. Find the place where the strap splits into two. Place it right on the hip joint axis of rotation. The two straps departing from that spot should be pointing toward the buttonholes on the harness. The plastic female buckles that come out of the button holes (they normally receive the male buckles on the groin straps) are now plugged into the male buckles at the end of the leg strap. These straps are tightened while keeping the perpendicular strap centered between them. The strap that goes to the thigh wrap needs to be tightened to put preload the harness wrap.

The harness will transfer the support from the LiteGait® Yoke through the side straps to the thigh wrap. Any slack in the straps (or as always a loose harness wrap) will be compensated by an upward shift of the whole harness until that slack is taken up. To prevent loss of harness position you must take up the slack and account for soft tissue give when tightening the side straps.







CAUTION: SITTING WHILE IN THE LEG STRAPS WILL DISPLACE THE HIP AXIS OF LOCATION AWAY FROM AND OUT OF THE LEG STRAPS; REPOSITIONING OF THE LEG STRAPS WILL BE NECESSARY.

Over Treadmill

- 1. The yoke height should be adjusted so that the top is approximately 5 inches above the patient's head when standing on the treadmill, so that the hardware hanging from the yoke is just out of the reach of patients head.
- 2. Lock the directional locks and position the unit over the treadmill.
- 3. Position the patient at the rear of the treadmill walking surface, facing the treadmill. The patient should either be seated in a wheelchair, on a chair, or standing with the help of an assistive device on the ground at the rear of the treadmill.
- 4. Roll the unit to the rear of the treadmill and lock the caster brakes.
- 5. The patient may hold onto the adjustable handlebar. Stand the patient up. For lower level patients, skip this step until the patient is connected to the LiteGait[®] unit.
- 6. Attach the four buckles on the overhead straps hanging from the yoke to the harness. (Be careful to attach the front straps to the front buckles and the back straps to the back buckles.)
- 7. Tighten each strap by gently lifting up on the connected section of the strap and pulling down on the loose end of the strap simultaneously. Repeat the procedure with all four straps, making sure that the straps are of equal length when finished.
- 8. Double check that all four straps have been connected to the appropriate buckles on the harness and all the straps have been tightened equally.
- 9. At this point, the patient should be securely buckled and attached to the unit.
- 10. For the seated patient, raise the yoke until the patient is in a standing position. Retighten each strap as necessary.
- 11. Standing beside the patient, slowly roll the unit forward toward the front of the treadmill. This position will allow you to both roll the unit and assist the patient with stepping forward onto the treadmill walking surface.
- 12. When the patient steps up on the treadmill, quickly re-tighten all four straps as necessary to increase the support provided by the unit.
- 13. Continue to roll the unit over the treadmill as far forward as possible, while the patient walks.
- 14. Once the unit is at the front of the treadmill, lock the caster brakes.
- 15. Double check to see that the unit is locked into place and that the patient is in the center of the treadmill walking surface.
- 16. Adjust the handlebar to the appropriate height.
- 17. To exit the unit, reverse the process.



Over Ground

- 1. Alternatively, lower the yoke so that it is approximately 5 inches above the patient's head when sitting.
- 2. The patient should either be seated in a wheelchair, on a chair, or standing on the ground with the aid of an assistive device.
- 3. Position the unit over the patient.
- 4. Lock the caster brakes.
- 5. Loosen the straps and connect the appropriate straps to the harness being sure to connect the front straps with the front buckles and the back straps with the back straps.
- 6. Stand the patient up. (The patient may hold onto the adjustable handlebar.)
- 7. Tighten all four straps until the patient is standing in the proper upright posture.
- 8. Make any postural adjustments by tightening or loosening the appropriate strap.
- 9. Adjust the handlebar to the appropriate height.
- 10. As the patient begins to move over ground, several options are possible depending on treatment goals and the patient's ability:
- 11. Push the unit matching the patient's rate of walking.
- 12. Push the unit faster to increase the patient's rate of walking.
- 13. Allow the patient to push the unit with or without assistance.
- 14. Allow the patient to walk forward, backward, or laterally.
- 15. Adjust the yoke height so that it is approximately 5 inches above the patient's head when standing.

NOTE: THE CASTER BRAKES SHOULD BE LOCKED WHENEVER THE UNIT IS STATIONARY. RELEASE THE CASTER BRAKES ONLY FOR MOVEMENT OF THE UNIT.



Over Treadmill



Over Ground

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LiteGait[®] Maintenance

Your LiteGait[®] has been specially designed to be durable and relatively maintenance free. The frame is constructed from high strength steel, and has been painted with a special powder coat to resist rust and scratches.

Cleaning Frame:

Frequency	* FOLLOW STANDARD FACILITY INFECTION CONTROL PROCEDURES.
Cleaning Agent	DILUTED WINDEX TYPE CLEANING SOLUTION
Drying Method	WIPE DRY WITH CLEAN CLOTH
Special Cleaning	WD-40 CAN BE USED TO REMOVE DIRT OR OILY SPOTS.

Harness Maintenance

All harnesses and groin straps, including the iHarness, can be washed in hot water up to 80°C according to facility infection control guidelines. Harnesses should be dried with low or no heat tumble dry. The iHarness and the overhead LG straps can also be wiped with disinfection wash, per facility infection control procedures. Bleach, if used, will shorten the life of the cloth material on the harness

	Standard Harness & Groin Pieces	iHarness & iGroin Pieces	Overhead Straps	
Frequency	Facility infection control guidelines			
Cleaning Agent	Facility infection control guidelines			
Water Temperature	WASH IN UP TO 176°F (80°C)			
Drying Method	HARNESSES SHOULD BE DRIED WITH LOW OR NO HEAT TUMBLE DRY			
Special Cleaning		WIPED WITH DISINFECTION TION CONTROL		

Harness Storage

The harness has been made of an durable fabric to retain its shape and effectiveness through many uses and washings. However, it is imperative that the harness be stored properly to prevent damage to the buckles. When not in use, store the harness in a place or area that will prevent the harness from being stepped on or rolled over. The crushing downward force of a wheel chair or cart rolling over the harness would damage the buckles, making the harness ineffective and unsafe for further use.

🖊 Unit Care and Maintenance

To maintain the highest quality of function and safety, it is extremely important that you conduct regular maintenance checks of your LiteGait[®] unit and all of its parts. Please refer to the following checklist for an inspection guideline. If you should have any questions concerning the functional status of any of the LiteGait[®] parts, please contact the Technical Support department immediately at technicalsupport@LiteGait.com. It is recommended that you inspect the LiteGait[®] unit and all of its parts every 6 months.

Please rate the function of each item as follows:

1 = POOR 2 = FAIR 3 = GOOD 4 = EXCELLENT.

A rating of FAIR (2) or POOR (1) indicates that that part should be immediately replaced to maintain the safe and effective use of the equipment.

Check List		Recommended Replacement Schedule
Battery		24-30 Months
Charger		*
Hand Switch		*
Harness Wrap		18-24 Months
Groin Pieces		18-24 Months
Overhead Straps		*
Casters		*
Knobs / Pins		*
Grips / Covers / Caps		*
Buckles		*
Base		*
Actuator		*
	BatteryChargerHand SwitchHarness WrapGroin PiecesOverhead StrapsCastersKnobs / PinsGrips / Covers / CapsBucklesBase	BatteryChargerHand SwitchHarness WrapGroin PiecesOverhead StrapsCastersStrobs / PinsGrips / Covers / CapsBucklesBase

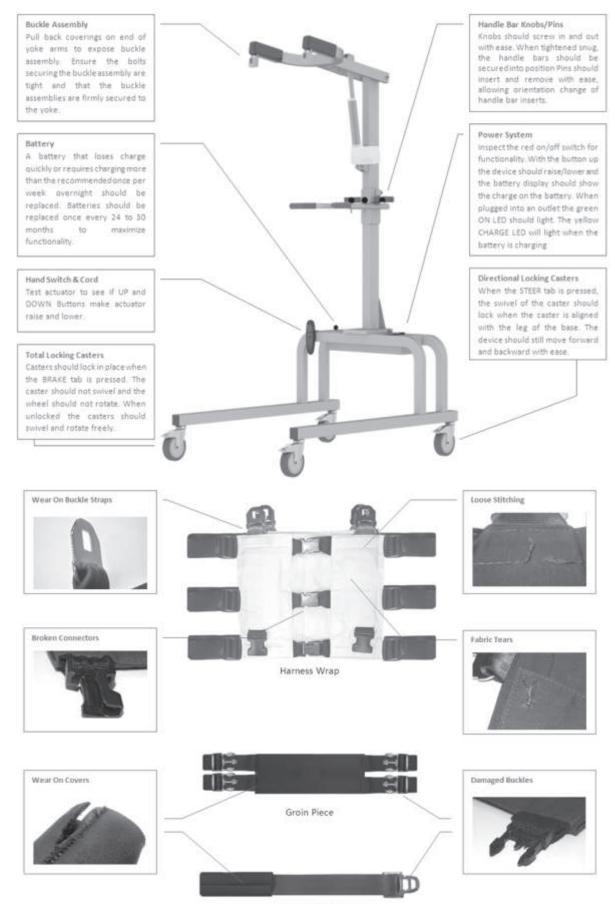
*Replace As Needed Based on Condition

Please Send Copy of Completed Form Every 6 Months to Mobility Research Technical Support

Fax: <u>480-829-0737</u> Email: <u>TechnicalSupport@LiteGait.com</u> Website: <u>http://litegait.com/techsupport.html</u> Mail: Mobility Research — Technical Support P.O. Box 3141 Tempe, AZ 85280

Maintenance Contact Information

Facility Name	City		State	
First	Last		Title	
Phone	Fax		Email	
Model		Serial Number		



Overhead Strap



Troubleshooting - Power System

Symptom: Actuator Does Not Raise or Lower	
1. Possible Cause:	Resolution:
Low Battery Charge / Battery need to be Replaced.	Charge the battery following the appropriate charging instructions until full charge. If charging does not resolve issue contact Technical Support for replacement battery information.
3. Possible Cause:	Resolution:
Loose Cable Connection	Disconnect cables from Control Box. Firmly reconnect cables ensuring a se- cured connection
4. Possible Cause:	Resolution:
Other Power System Issue	Contact Technical Support for further troubleshooting.
Symptom: Battery Does Not Charge	
1. Possible Cause:	Resolution:
Device is Not Connected to Power Outlet	Connect charge cable to appropriate 110V outlet. (220V for International Customers when applicable).
2. Possible Cause:	Resolution:
Charging Cord is Not Connected Properly	If the green LED indicates the charger is connected to a power outlet. Once the charger is connected the green LED turns red. Once the battery is fully charged, the LED turns back to green.
3. Possible Cause:	Resolution:
Power Outlet is Faulty	Check Outlet with another electrical device to ensure proper function of outlet.
4. Possible Cause:	Resolution:
Battery not been charged for an extended period.	If battery is not charged for an extended period the voltage may be too low to charge. Contact Technical Support for replacement battery information.
5. Possible Cause:	Resolution:
Battery has been in service for 30 months or more.	Contact Technical Support for replacement battery information
6. Possible Cause:	Resolution:
Other Power System Issue	Contact Technical Support for further troubleshooting instruction.
Symptom: Battery Does Not Hold Charge	
1. Possible Cause:	Resolution:
Low Battery Charge	Charge the battery following the appropriate charging instructions until full charge.
2. Possible Cause:	Resolution:
Battery Needs to Be Replaced	Contract Technical Support for replacement battery information.

Troubleshooting - Casters

Symptom: Device Does Not Roll Easily	
1. Possible Cause:	Resolution:
One or both of the Total Locking Casters are Locked. 2. Possible Cause:	The Total Locking Casters are labeled with a red BRAKE sticker. Unlock the Total Locking Casters. Resolution:
One or both Directional Locking Caster are misaligned	The Directional Locking Casters are labeled with a green STEER sticker and engage when the caster is aligned with the leg of the base. If the LiteGait [®] does not move forward and backward when the directional locking casters are locked they are not aligned properly. Contact Technical Support for further repair instruction.
3. Possible Cause:	Resolution:
One or more of the casters are loose and are no longer secured to the frame or are damaged	Contract Technical Support for repair information and.
Symptom: Device Does Not Stay Stationary when I	Locked
1. Possible Cause:	Resolution:
One or more of the casters is not locked.	Make sure all four casters are locked to make the device stationary.
NOTE: If all casters are locked	appropriately, contact Technical Support for further information.

Troubleshooting - Harness

Symptom: Patient is complaining of groin or harne	ess discomfort.	
1. Possible Cause:	Resolution:	
The harness wrap and/or the groin piece are not tight enough.	The harness and groin piece should be securely tightened from the start.* The harness wrap should be tight enough to grab on to the fatty tissue around the abdomen. The groin piece should then be tightened securely to keep the harness from riding up on the patient and creating unwanted pressure in the groin area. A towel or a piece of foam can be wrapped around the patient's abdomen for added padding if needed.	
Symptom: Harness is riding up on the patient cause	sing pressure in the groin piece area	
1. Possible Cause:	Resolution:	
Groin piece has slack, harness rides up mak- ing groin straps the only source of support	The bottom two straps on the harness wrap must be tightened securely, the top one only if it rests below the rib cage. Applying the harness and groin piece loosely will cause them to slide upward.*	
Symptom: Frontal overhead straps are causing dis	comfort in the chest area of female patients.	
1. Possible Cause:	Resolution:	
The distance between the overhead straps places load on breasts.	Use an extender to increase the front panel size and distance between the overhead straps possibly avoiding the chest tissue. Conversely, the harness wrap placed on the patient with opening in the back results in overhead straps getting closer to each other in the front.	
Symptom: The overhead straps slip off of patients	shoulders	
1. Possible Cause:	Resolution:	
The overhead straps are too far apart.	Place the harness wrap with the opening in the back. This will bring the over head straps closer to each other.	
Symptom: The patient cannot stand to properly po	psition and tighten the harness and groin piece.	
1. Possible Cause:	Resolution:	
Patient is too weak or unsafe to stand	Apply the harness in supine position. Avoid harness application in sitting as it reinforces flexed hip position.	

Troubleshooting - Digital BiSym (Optional)

Symptom: BiSym Display Is Not Powering On			
1. Possible Cause:	Resolution:		
Battery is Not Connected to BiSym Display	Connect Battery cable to BiSym Display		
2. Possible Cause:	Resolution:		
Low Battery Charge	The Digital BiSym is powered by a separate battery located near the top of the LiteGait [®] . Charge the BiSym Battery following the Digital BiSym charging procedure.		
3. Possible Cause:	Resolution:		
Battery Needs to be Replaced	Contact Technical Support for replacement battery information.		
Symptom: BiSym Display is Not Reading Weight			
1. Possible Cause:	Resolution:		
Load Cell Cables are Not Connected	On the left side of the scale there should be three cables, two that look like phone jack connectors and one that connects to the top of the LiteGait® Confirm that the cables are securely attached to the BiSym display.		
NOTE: If load cells are connected properly and information.	the BiSym continues not to read weight, contact Technical Support for further		
Symptom: BiSym Display is Not Reading Zero Whe	n No Weight is on LiteGait.		
1. Possible Cause:	Resolution:		
Harness is Moving Slightly	Any movement in the harness may cause some noise in the BiSym Scale reading. A reading near zero is a normal occurrence.		
2. Possible Cause:	Resolution:		
BiSym scale requires Zero Calibration	Refer to Zero Calibration Instructions from BiSym section of manual.		
Symptom: BiSym Does Not Automatically Power D)own.		
1. Possible Cause:	Resolution:		
Auto Shut OFF is set too long or set to ZERO	Refer to the Change Settings from BiSym section of manual.		
2. Possible Cause:	Resolution:		
Issue with BiSym	Contact Technical Support for further troubleshooting instruction.		
2			

Parts List

Standard Adult Harness Wrap10.5" Groin Piece for HA13" Groin Piece for HA9" Groin Piece for HA (OPTIONAL)Harness Extender (OPTIONAL)HA / HS Leg Straps (OPTIONAL)Small Adult Harness9" Groin Piece for HS10.5" Groin Piece for HS13" Groin Piece for HS14. / HS Leg Straps (OPTIONAL)9" Groin Piece for HS10.5" Groin Piece for HS13" Groin Piece for HS14. / HS Leg Straps (OPTIONAL)HA / HS Leg Straps (OPTIONAL)HA / HS Leg Straps (OPTIONAL)Junior Harness	 Harness Wrap w/Overhead straps, covers and groin pieces A rigid, washable cloth wrap used with attachments that provide postural support to the patient 10.5" Padded, adjustable piece which connects to the harness and is positioned between the legs. 13" Padded, adjustable piece which connects to the harness and is positioned between the legs. 9" Padded, adjustable piece which connects to the harness and is positioned between the legs. 9" Padded, adjustable piece which connects to the harness and is positioned between the legs. 9" Padded, adjustable piece which connects to the harness and is positioned between the legs. 7.5" extension to plug into front of the harness wrap. Adjustable piece which connects to the harness and is positioned around the legs for small adult / Adult Harness Harness Wrap w/Overhead straps, covers and groin pieces A rigid, washable cloth wrap used with attachments that provide postural support to the patient 9" Padded, adjustable piece which connects to the harness and is positioned between the legs. 10.5" Padded, adjustable piece which connects to the harness and is positioned between the legs. 13" Padded, adjustable piece which connects to the harness and is positioned between the legs. 13" Padded, adjustable piece which connects to the harness and is positioned between the legs. 	HA HA-A HA-G HA-H HA-F PHAEX HSCS HS HS-A HS-A HS-F HS-G	1 1 1 1 1 1 1 2 1 1 1 1 1
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Small Adult Harness Wrap;9" Groin Piece for HS;10.5" Groin Piece for HS;13" Groin Piece for HA (OPTIONAL);HA / HS Leg Straps (OPTIONAL);Junior Harness;	 A rigid, washable cloth wrap used with attachments that provide postural support to the patient 9" Padded, adjustable piece which connects to the harness and is positioned between the legs. 10.5" Padded, adjustable piece which connects to the harness and is positioned between the legs. 13" Padded, adjustable piece which connects to the harness and is positioned between the legs. 	HS-A HS-F	1
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9 Groin Piece for HS 10.5" Groin Piece for HS 13" Groin Piece for HA (OPTIONAL) HA / HS Leg Straps (OPTIONAL) Junior Harness	 is positioned between the legs. 10.5" Padded, adjustable piece which connects to the harness and is positioned between the legs. 13" Padded, adjustable piece which connects to the harness and is positioned between the legs. 	_	1
13" Groin Piece for HA (OPTIONAL) HA / HS Leg Straps (OPTIONAL) Junior Harness	and is positioned between the legs. 13" Padded, adjustable piece which connects to the harness and is positioned between the legs.	HS-G	
HA / HS Leg Straps (OPTIONAL) Junior Harness	and is positioned between the legs.		1
(OPTIONAL) Junior Harness	Adjustable piece which connects to the harness and is posi-		1
lupior Horpose Wrop	tioned around the legs for small adult / Adult Harness	HSCS	2
	Harness Wrap w/Overhead straps, covers and groin pieces	HJ	1
	A rigid, washable cloth wrap used with attachments that pro- vide postural support to the patient	HJ-A	1
	9" Padded, adjustable piece which connects to the harness and is positioned between the legs.	HJ-D	1
8" Groin Piece for HJ	10.5" Padded, adjustable piece which connects to the harness and is positioned between the legs.	HJ-E	1
9" Groin Piece for HA (OPTIONAL)	9" Padded, adjustable piece which connects to the harness and is positioned between the legs.		
Diaper Harness	Harness Wrap w/Overhead straps and covers	HDJ	1
	A rigid, washable cloth wrap used with attachments that pro- vide postural support to the patient	HDJ-A	1
Overhead Strap	Seatbelt like straps with one male and one female connection. The male end connects into the buckles on the yoke. The fe- male end connects into the buckles on the harness.	HS-B	4
Overhead Strap Cover	The soft, cushioned material covering the female buckles of the straps that attach to the harness.	HS-C	4
Li	iteGait 300MX Parts List – Power System		
FUWER STSTEIN	The electrical system that controls the positioning of the actua- tor.	PS30X	1
ACTUATOR	Battery operated lift mechanism	PS30X-A	1
Battery	24V battery pack.	PS30X-B	1
Control Box	The electric junction box.	PS30X-C	1
Charger Cord	The AC adapter cord that plugs into a wall outlet and the con- trol box.	PS30X-D	1
Hand Switch	The switch connects to the control box. The buttons allow for the adjustment of the height of the device.	PS30X-E	1

Parts List 🕎

	LiteGait 300MX Parts List – Base		
Base ASSEMBLY COMPLETE	LOW 30" inner frame	B30G30L	1
	STND 30" inner frame	B30G30	1
	STND 34" inner frame	B30G34	1
	LOW 34" inner frame	B30G34L	1
	PLFM 34" inner frame	B30G34	1
Base Cap	The 2 x 2 inch, black covers for the legs of the base.	B30G30L	1
Total Locking Casters	Wheel with hardware that locks via a tab labeled with a red BRAKE sticker.	B30G30L-C	2
Directional Locking Caster	Wheel with hardware that locks into one direction via a tab labeled with a green STEER sticker.	B30G30L-D	2
	LiteGait 300MX – Handle Bars		
HANDLEBARS ASSEMBLY COM- PLETE	Complete handlebars include handlebar arms and metal frame.	HB30E	1
Handlebars Base Box	Part of the handlebars that encompasses the circumference of the actuator/post.	HB30E-A	1
Handlebar Plate	Flat plate that sits between the posterior knobs to fasten and the handlebars base box.	HB30E-B	1
Knobs	Posterior knobs used to fasten plate to handlebars base box. These are round and allow the handlebars to be securely locked into the correct position on the actuator/post.	HB30E-C	2
Handle Covers	Black 5" covers for the handles of the handlebars base box.	HB30E-D	2
Adjustable Handles	Handle is connected to the handlebars base box and can be positioned proximal or distal and locked into place with handle pin. <i>Does not include patient grip covers.</i>	HB30E-G	2
Patient Grip Covers	Black 6" covers for the adjustable handles	HB30E-E	2
Handle Pin	Press Button Quick Release Pin used to reposition the adjust- able handles.	HB30E-F	2
	LiteGait 300MX Parts List – Yoke		
Yoke Assembly Complete -	The complete top Y-shaped portion of the unit with buckles attached. Unit Includes, FlexAble, Straight Bracket and load cells for BiSym Scale.	Y30X	1
Buckle Assembly	The 2 x 2 inch, black covers for the legs of the base.	Y30X-A	1
Socks	Wheel with hardware that locks via a tab labeled with a red BRAKE sticker.	Y30X-B	2
	LiteGait 300MX Parts List –Post		
Post Assembly Complete		P30X	1
Post	Post	P30X-A	4
Сар	Сар	P30X-B	4
Bolts for Base	Screws	P30X-B	
	LiteGait 300MX Digital BiSym		
Digital BiSym Scale	A digital read out scale that displays the amount of load reduc- tion on the lower extremities.	PBSD	1
Digital BiSym Battery	12V Battery for Digital BiSym	PBSD-B	1
Digital BiSym Charger	12V DC adapter cord that plugs into a wall outlet and connects to Digital BiSym Battery.	PBSDB-C	1

If you should have any questions or would like to place a part order, please contact: Phone: Technical Support at 1-800-332-9255 ext. 7104 Email: <u>technicalsupport@litegait.com</u>

Twobility research

Resource Directory

PH	\cap	NI	Ľ٠
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1.800.332.WALK (9255) Toll free in U.S. and Canada

FAX:

480.829.0737

WEBSITE:

www.LiteGait.com www.LiteGait.org

EMAIL DIRECTORY:

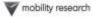
Technical Support Clinical Support Education Department Sales Department TechnicalSupport@LiteGait.com ClinicalSupport@LiteGait.com Education@LiteGait.com Sales@LiteGait.com

POSTAL ADDRESS:

Mobility Research P.O. Box 3141 Tempe, AZ 85280



products, education, and rehabilitation solutions FREEDOM FOR THERAPISTS INDEPENDENCE FOR PATIENTS





Limited Warranty Certificate

The Mobility Research warranty covers applicable parts and labor for repair or replacement as listed below⁺:

- 3 years on frame components due to broken or damaged welds.
- 3 years on the lift mechanism actuator
- 1 year on harness stitching, buckles and casters.
- 1 year on all electronics* control box, wiring, charger, etc.
- 3 months warranty on battery due to defect

Losses due to work stoppage, lost revenues, damages due to neglect or abuse ARE NOT covered by this warranty. Shipping and handling charges ARE NOT covered by this warranty. Tampering or modification on any and all components by unauthorized personnel is discouraged and will void your warranty.

THIS WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED. MOBILITY RESEARCH SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IF MOBILITY RESEARCH INC. CANNOT LAWFULLY DISCLAIM IMPLIED WARRANTIES UNDER THIS LIMITED WARRANTY, ALL SUCH WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IF MOBILITY RESEARCH INC. CANNOT LAWFULLY DISCLAIM IMPLIED WARRANTIES UNDER THIS LIMITED WARRANTY, ALL SUCH WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY. NO MOBILITY RESEARCH RESELLER, AGENT, OR EMPLOYEE IS AUTHORIZED TO MAKE ANY MODIFICATION, EXTENSION OR ADDITION TO THIS WARRANTY. MOBILITY RESEARCH IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOST PROFITS, DOWNTIME, GOODWILL, OR DAMAGE TO EQUIPMENT AND PROPERTY.

[†] Warranty excludes damage due to normal wear and tear, tampering with any components, from misuse and abuse, caused by cleaning and acts of God. Warranty does not cover losses due to work stoppage, lost revenue(s), and damages due to neglect. Warranty excludes GaitKeeper Treadmills. Shipping and handling charges are not covered by this warranty.

*If present.

In order for us to provide the very best in customer support, please activate your warranty by providing the following information. This information will allow us to notify you for product updates, recall information, clinical support, technical support, maintenance information and to receive our E-Newsletter. You may visit our website at <u>http://www.litegait.com/</u><u>warranty.html</u> and submit this form or fill in the information below and mail or fax back. (Keep a copy for your records)

Model	Serial number		Date of purchase	
Facility Name:		Dep	Dept. used in	
Address		Phor	Phone ()	
		Fax	()	
Clinical Contact Name		ema	email	
Maintenance Contact Name		ema	email	



Products, Education, and Rehabilitation Solutions Mobility Research Inc., P. O. Box 3141, Tempe AZ 85280 Phone: 1-800-332-9255 / 480-829-1727 Fax: 480-829-0737 Email: warranty@LiteGait.com

