



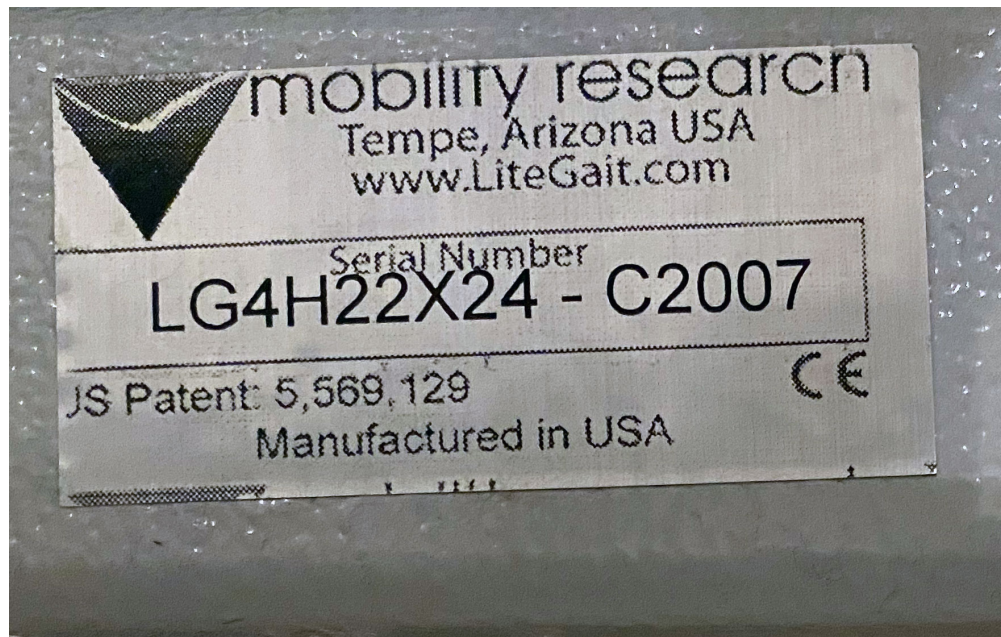
Operator & Service Manual

LiteGait® 4Home

LiteGait® is a Registered Trademark of Mobility Research, Inc.

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.

IMPORTANT SAFETY INSTRUCTIONS

WARNING

READ ALL INSTRUCTIONS BEFORE USING LiteGait[®]

		Maximum Patient Weight
LiteGait [®] 4 Home	110	110 lbs
LiteGait [®] 4 Home	220	220 lbs
LiteGait [®] 4 Home	330	330 lbs
LiteGait [®] 4 Home	440	440 lbs

Maximum Height of the unit is User Specific and is customized to meet the needs of each individual user.

- This device is designed to be used for an individual user. This device should not be used in a facility setting with multiple patients.
- 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.

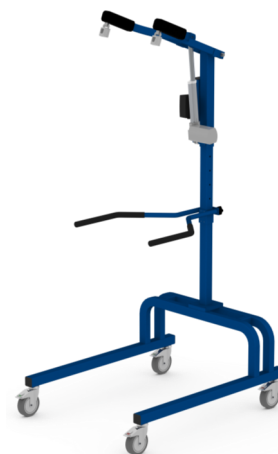
LiteGait® 4 Home 110



LiteGait® 4 Home 220



LiteGait® 4 Home 330



LiteGait® 4 Home 440



NOTE: Your LiteGait® may look different than images above

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:	clinicalsupport@LiteGait.com
SERVICE & PARTS DEPARTMENT:	service@LiteGait.com
WEBSITE:	www.LiteGait.com
USER FORUM :	www.LiteGait.org

Sincerely,
Customer Service Department
Mobility Research

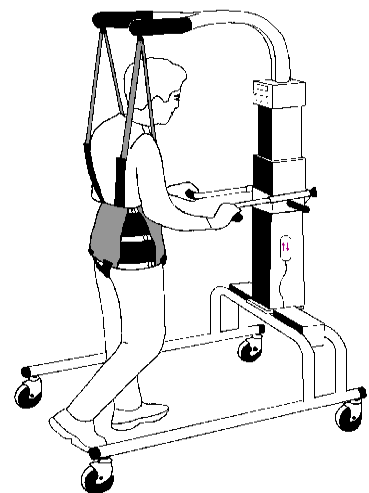


Table of Contents

Unpacking and Assembly	12
Unit Diagram	14
About Your Unit.....	14
USING Your LiteGait®	15
I. Raising and Lowering	15
II. Charging.....	15
III. Adjusting Handle Bars.....	16
IV. Base and Casters	17
V. BiSym Scale Optional.....	18
VI. Harness Application.....	18
Training with LiteGait®	21
Unit Care and Maintenance	24
Troubleshooting	26
Parts List	29
Resource Directory	30
Limited Warranty Certificate.....	31

LiteGait® Assembly

Tools Required:

Scissors

1/2 inch socket or open-end wrench

5/16 inch Allen wrench (provided)

LiteGait® 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



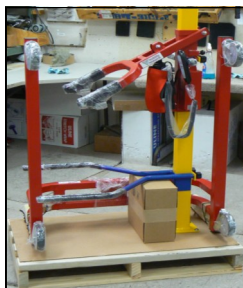
2.) Remove screw located at the bottom of crate



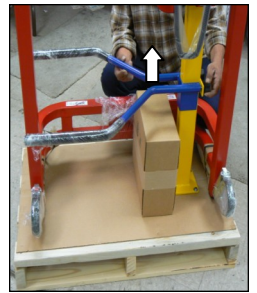
3.) Lift off exterior box in order to expose equipment



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.

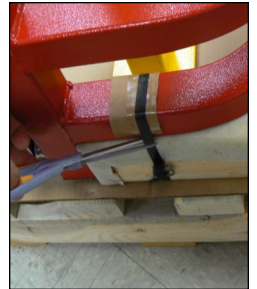
CAUTION: DO NOT USE UTILITY KNIFE TO OPEN BOX



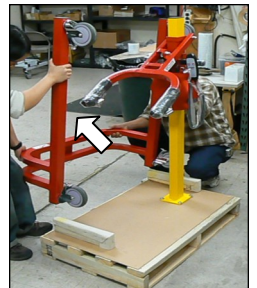
8.) Inspect contents of harness and accessories box for damage.



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



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



NOTE: Your LiteGait® may look different than images above

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



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



13.) Set base over pallet as pictured with actuator near base.



14.) To remove post from pallet use one person to hold the post and yoke.



15.) Locate bolts holding actuator to pallet. Undo bolts with ½ inch socket or wrench, loosen actuator from pallet with one person holding the actuator steady while loose.



16.) Using two people lift the post onto base.



17.) Orient the actuator on the base (the yoke arms and handlebars point in the same direction as the base legs). Line up the holes for bolts to be inserted.



18.) Insert bolts, hand tighten bolts (ensure one person holds actuator steady until secure). Tighten bolts using 5/16 inch Allen wrench until snug (do not to over tighten).

CAUTION: DO NOT over tighten the bolts.



19.) Verify operation by moving actuator up/down by pressing the arrows on the hand switch. If hand switch fails to operate the actuator, check connections at top of the actuator.



20.) Carefully remove all shrink-wrap from handle bars yoke and base



21.) Verify performance of each locking and directional casters.

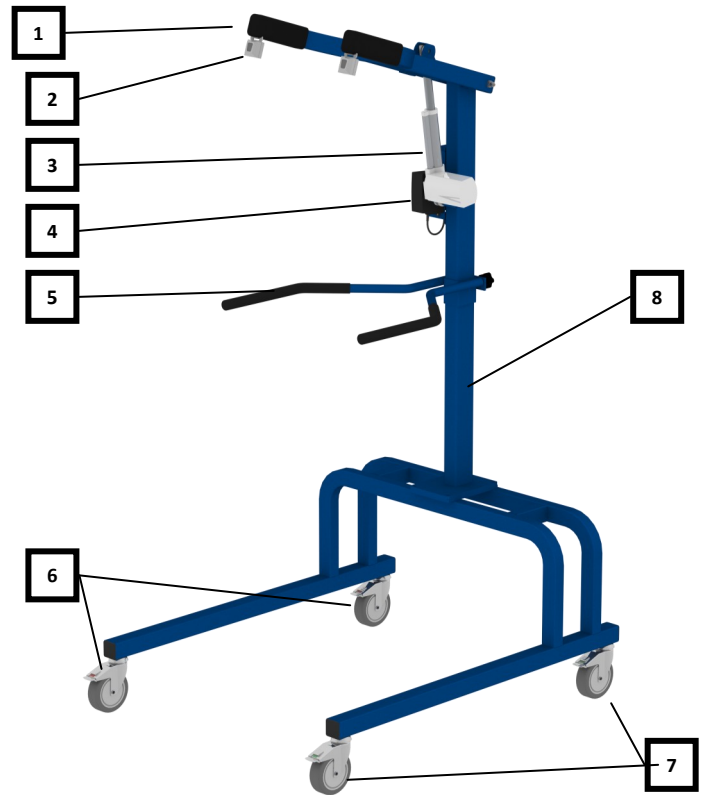


Feel free to call 1-800-332-9255 Extension 7104 for Mobility Research Support during this assembly.

NOTE: Your LiteGait® may look different than images above

LiteGait® Diagram

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



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 post. The height of the yoke assembly is adjustable using the hand switch.

OVERHEAD STRAPS: Four 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 linear adjusted screw mechanism that is adjusted by a DC motor.

CONTROL UNIT: Junction box mounted on the actuator for the battery power, handheld switch and contains electrical safety protection circuitry. The battery pack connects to this unit and is also located on the side of the yoke assembly.

HANDLEBARS: Unit has two fixed position parallel handlebars. The handle bars are attached to the unit

NOTE: Over tightening the knobs may cause damage.

using two knobs.

BASE: Two horizontal bars connected by two U-shaped 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.

Using Your LiteGait®

I. Raising and Lowering Yoke

The LiteGait® MX actuator is raised and lowered by a hand switch with one up and one down arrow.

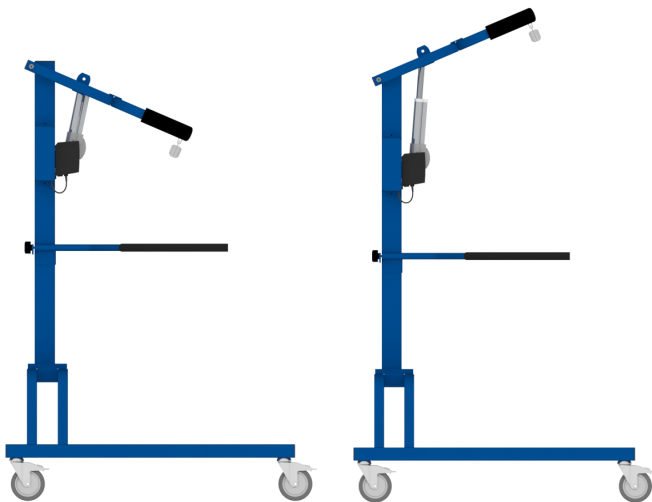


Raising the Yoke

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.



Lowered Yoke

Raised Yoke

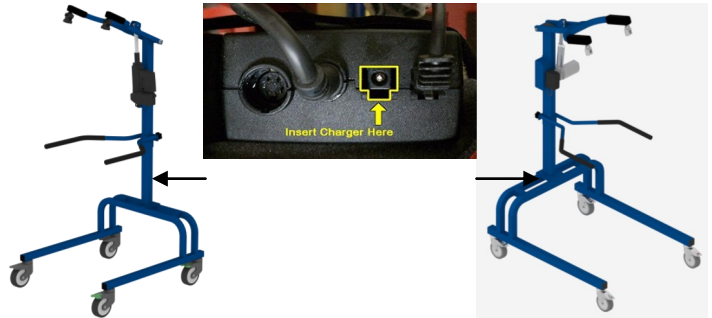
NOTE: Your LiteGait® may look different than images above

IV. Charging the Yoke

The LiteGait® 100MX and 200MX are 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 charging port on the control box.



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 WALL OUTLET AND 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 WALL OUTLET and LiteGait® 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)

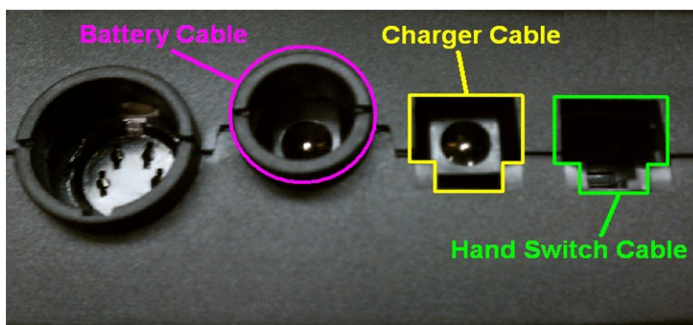


Red Light

The battery is being charged by the charger.



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.

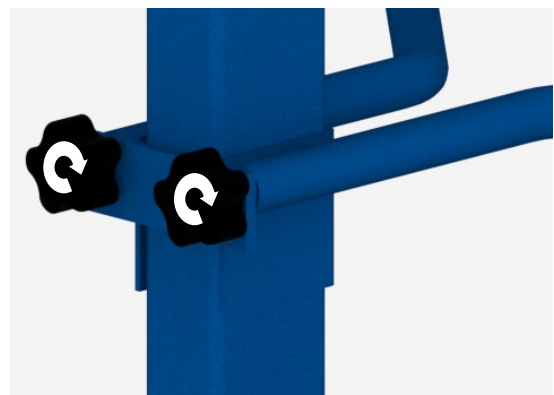
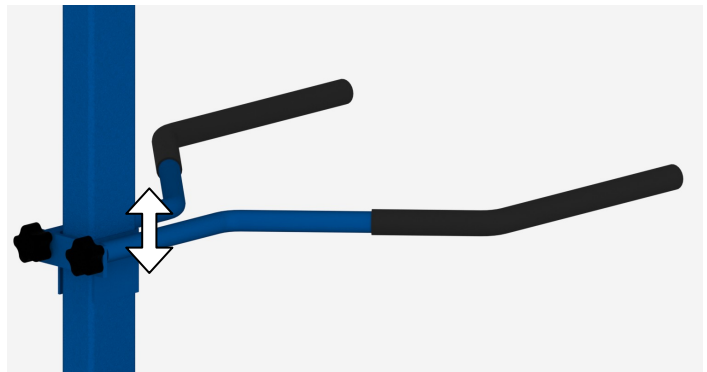


Note: Ensure that all plugs are inserted completely and securely.

V. 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.



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 weight using the handle bars.

VI. 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.



NOTE: Your LiteGait® may look different than images above

Locking and Unlocking Casters



NOTE: Your LiteGait® may look different than images above

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 **STEER** 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

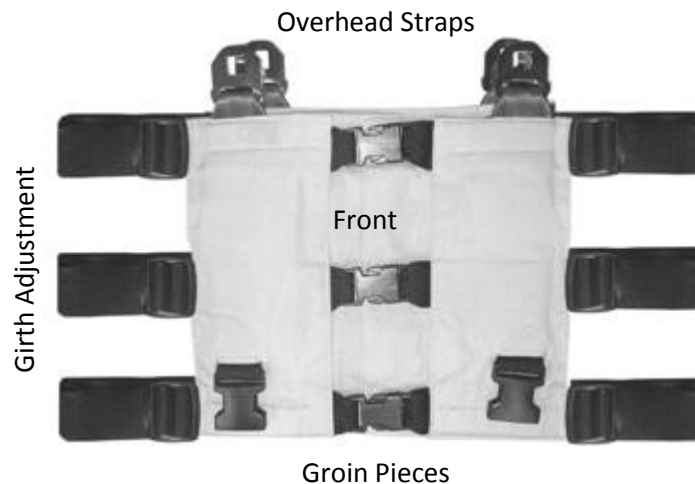
LiteGait® can now be easily rolled back and forth over the treadmill or on a straight path in the therapy room or hallway.

Harness Application

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.

Harness Components

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® overhead straps. The bottom four buckles attach to the groin piece and do not extend past the bottom seam of the harness.



Preparing Harness for Application

1. Pick the appropriate harness (based on patient's girth) and groin piece (**based on patient's anterior-posterior diameter**) for the patient.
2. Adjust the groin strap buckles so there is symmetry in the straps-- equal strap length available on both ends of the padded groin piece and equal from side to side.
3. **Attach the groin piece to the back of the harness.**

NOTE: The side of the groin piece with the H-outline stitching (most padded) will go against the patient's body.

Estimating the Starting Size

Half the Girth Test

1. Estimate the harness girth before placing on the patient by folding the unbuckled harness in half so that the ends meet.
2. Hold the folded harness in front of the patients torso to estimate the width from one side of the body to the other.
3. Tighten or loosen the three rows of side straps on each side of the harness to estimated girth.



Symmetry Test

1. With the unbuckled harness folded in half, check the alignment of the top buckles (the ones that attach to the overhead straps of LiteGait). The buckles should line up / be adjacent to each other . If not adjacent , make small adjustment to side straps as needed to regain symmetry. Each side strap should be similarly lengthened to achieve symmetry.



Harness Application - While Standing

1. Wrap harness around patient with lowest side straps even with GREATER TROCHANTER.
2. Connect buckles top to bottom.
3. Adjust side straps* to the patient from bottom to top, alternate sides and tighten evenly. Be sure to maintain harness position at Greater Trochanter.

* To Tighten, push slack of strap towards buckle, while pulling free end as shown. Do not tighten top buckles over rib cage.

NOTE: A loose harness will ride up when overhead support is applied. This will cause discomfort in the groin region. A snug harness with no slack will grab the pelvic girdle and hold in place distributing weight evenly throughout harness wrap.

Quick Check

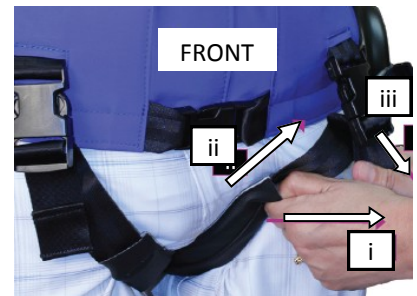
- 2 fingers should NOT fit between strap and body.
- Bulges of tissue may be present between girth adjustment straps if adjusted appropriately.

Attaching Groin Pieces

1. Route the groin piece between legs to front.
2. Connect both buckles - one on each side.
3. Tighten the groin strap snugly so there is NO slack.
 - To tighten, grab the groin strap or strap cover and:
 - i. Pull out toward adductor surface of leg.
 - ii. Pull up toward groin piece buckle.
 - iii. Use other hand to pull down on excess strap on free end, then **repeat** on other leg.
 - iv. Tighten back straps in the same fashion to remove all slack.

Quick Check

- Groin Piece should have NO Slack. Padding should be equal front and back. Padding should cover most of the inner leg with little or no exposed strap.
- Pull on top buckles, if harness moves up torso, straps require additional adjustment.



NOTE: 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.

Harness Application – In Supine

1. Roll patient away from you.
2. Attach groin piece and place harness on patient with half of the harness rolled and under patient. (Figure 1)
3. Hold harness in place with lowest strap at greater trochanter
4. Roll patient into supine.
5. Pull harness around.
6. Straighten harness. Reach behind patient to feel back buckle position. Check for symmetry. (Figure 2)
7. Connect front buckles
8. Tighten all 6 side straps with leg straight. (Figure 3)
9. Connect the groin piece to the front buckles and tighten as in previous section. (Figure 4)
10. Roll patient away from you
11. Tighten back straps of groin piece, removing all slack. (Figure 5)



Figure 1



Figure 2



Figure 3



Figure 4



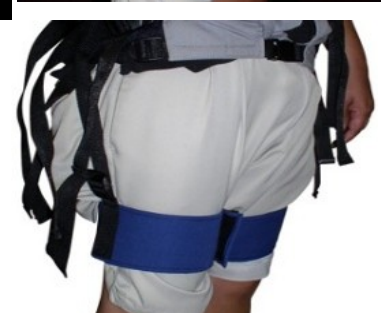
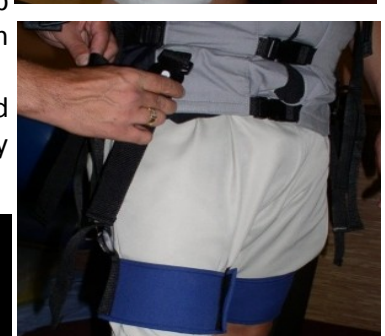
Figure 5

Quick Check

- Harness should be equally spaced from side to side

Leg Strap Application

1. Wrap Velcro thigh cuff portion below bulk of thigh and above knee so strap does not interfere with knee function.
2. Strap should be perpendicular to ground and pointing up toward the hip on the outside of leg.
3. Connect male buckles on leg straps into plastic groin piece female buckles.
4. Tighten all three straps keeping center strap perpendicular to the ground and on the lateral surface of the leg. The bifurcation point on the strap (where the strap splits into two) needs to be at the hip joint axis of rotation to maintain symmetry.
5. Straps must be tightened completely, using a two-handed technique and getting rid of all slack, to properly anchor the harness in place and properly transfer the support to the thighs.



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.

Connect the Harness to your LiteGait®

1. Lock all four casters to make the device stationary and adjust the yoke to the correct position, giving the patient approximately 5 to 6 inches of head clearance.
2. Extend the overhead straps until they are long enough to reach the metal buckles on the harness. Attach the four buckles that hang from the overhead straps to the appropriate buckles on the harness. Pull (shorten) the back straps until there is no slack. Leave a few inches of slack in the front straps.
3. Once the patient is connected, unlock casters. With one hand on LiteGait, press up button on hand switch to lift patient into a standing position. Roll LiteGait® forward slightly while lifting so patient ends up directly under the yoke buckles. If desired, have patient hold handlebars during sit to stand. If necessary, adjust height of the handlebars to suit the patient.
4. Re-adjust overhead straps to maximize postural support as necessary. To tighten (shorten) strap, gently lift up on the connected section of the strap and pull down on the loose end of the strap simultaneously. To lengthen strap, lift metal tab up and out and then pull down on strap. Repeat as necessary for all straps.
5. The unit can now be used for over ground therapy or to assist the patient in stepping up onto the treadmill.

If Lifting is not Necessary

With higher level patients who don't need assistance to achieve standing, the harness may be connected to the LiteGait® with the patient standing on the floor or over the treadmill.

1. Lock all four casters to make the device stationary and adjust the yoke to the correct position, giving the patient approximately 5 to 6 inches of head clearance.
2. Extend the overhead straps until they are long enough to reach the metal buckles on the harness. Attach the four buckles that hang from the overhead straps to the appropriate buckles on the harness. Adjust all straps to maximize postural support as necessary.
3. If handlebars are desired, adjust height of the handlebars to suit the patient.
4. The unit can now be used for over ground therapy or to assist the patient in stepping up onto the treadmill if necessary.

Stepping up onto Treadmill

1. Position LiteGait® unit at the end of the treadmill walking surface (if not already there) and **lock both directional casters**.
2. Standing beside the patient, slowly roll the unit forward toward the front of the treadmill while simultaneously pressing the up button on the hand switch.
3. While continuing to press the up button, assist the patient with stepping up onto the treadmill as needed.
4. Once the patient is standing on the treadmill, quickly re-tighten the overhead straps if necessary to increase the support provided by the unit, or use the lift mechanism to increase the overall support. In some cases it may be necessary to tighten all four overhead straps in order to decrease the distance between the patient's head and the overhead support (to achieve the ideal 5 to 6 inches of head clearance).
4. Roll the unit to the front of the treadmill and **lock the caster brakes**.
5. Double check to see that the unit is locked into place and that the patient is in the center of the treadmill walking surface.
6. Adjust the handlebars to the appropriate height.

CONTINUED ON PG 24

Stepping up onto Treadmill (Continued)

7. To exit the unit, reverse the process. Keep **directional casters** locked until the LiteGait® is at the end of the treadmill. It is helpful to ensure that the **locking casters** are nudged into an outward rolling position so they do not get caught on the treadmill as they roll.
8. Keep in mind that some patients will need to sit directly into a chair at the end of their session even if they started the session in standing.

Over Ground Therapy

Follow “Connect the Harness to your LiteGait® and Lift Patient” steps as noted in previous section. LiteGait® can be used over ground to perform gait training as well as to provide support for a variety of other activities such as balance training, therapeutic exercise, postural support for ADL, etc. Please refer to your booklet “Protocols for Partial Weight Bearing Gait and Balance Therapy” for more information, or email our clinical support department at clinicalsupport@litegait.com.

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

Page left Intentionally Blank

Unit Care and Maintenance

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. Use of bleach is discouraged and may effect the permeability of the harness material.

	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 WASH, PER FACILITY INFECTION CONTROL PROCEDURES	

* Water temperatures between 104°F and 176°F may cause wrinkling of the iHarness material.

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.

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 All Components

**Functionality
Cracks or Tears
Exposed or Frayed Wires
Loose/Rusted Bolts
Discoloration/Degradation**

Check List	Recommended Replacement Schedule
Battery <input type="checkbox"/>	24-30 Months
Charger <input type="checkbox"/>	*
Hand Switch <input type="checkbox"/>	*
Harness Wrap <input type="checkbox"/>	18-24 Months
Groin Pieces <input type="checkbox"/>	18-24 Months
Overhead Straps <input type="checkbox"/>	*
Casters <input type="checkbox"/>	*
Knobs / Pins <input type="checkbox"/>	*
Grips / Covers / Caps <input type="checkbox"/>	*
Buckles <input type="checkbox"/>	*
Base <input type="checkbox"/>	*
Actuator <input type="checkbox"/>	*

*Replace As Needed Based on Condition

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

Fax: [480-829-0737](tel:480-829-0737)

Email: TechnicalSupport@LiteGait.com

Website: <http://litegait.com/techsupport.html>

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				

Maintenance Checklist for LiteGait 4Home

Buckles Assembly
 Pull back coverings on end of yoke arms to expose buckle assembly. Ensure the bolts securing the buckle assembly are tight and that the buckle assemblies are firmly secured to yoke

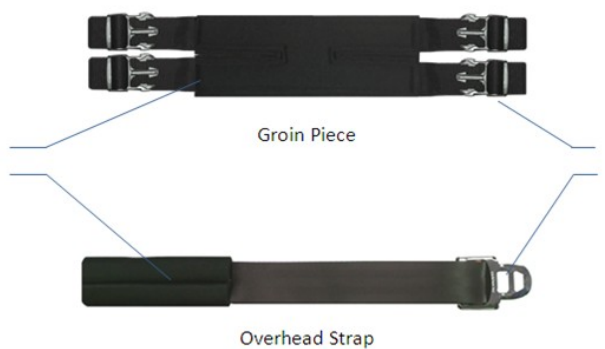
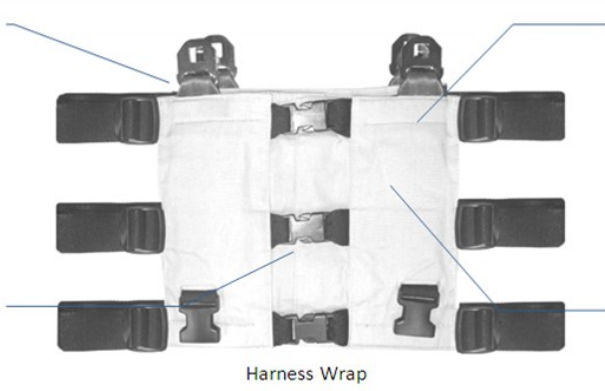
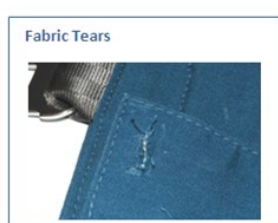
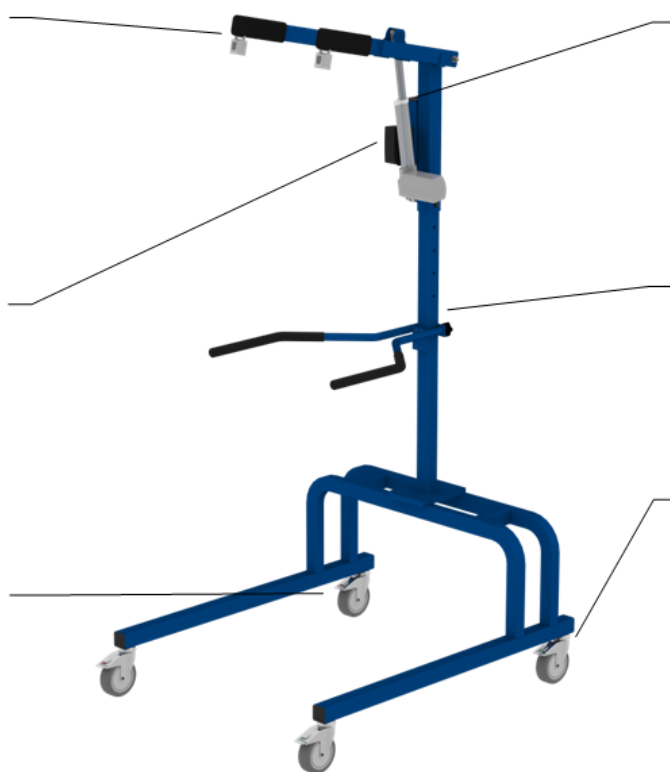
Power System
 Test actuator to see if UP and DOWN Buttons make actuator raise and lower. If actuator beeps when raising or lowering, the battery has a low charge. After charging the battery if it no longer raises or lowers, the battery may need to be replaced.

Total Lock Casters
 Casters should lock in place when the BRAKE tab is pressed. The caster should not swivel and the wheel should not rotate. When unlocked the casters should swivel and rotate freely.

Battery
 A battery that loses charge quickly or requires charging more than the recommended once per week overnight should be replaced. Batteries should be replaced once every 24 to 30 months to maximize functionality.

Knobs/Pins
 Knobs should screw in and out with ease. When tightened snug, the yoke and handle bars should be secured into position.

Directional Lock Casters
 When the STEER tab is pressed, the swivel of the caster should lock when the caster is aligned with the leg of the base. The device should still move forward and backward with ease.



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 secured 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	Contact 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.	The Total Locking Casters are labeled with a red BRAKE sticker. Unlock the Total Locking Casters.
2. Possible Cause:	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	Contact Technical Support for repair information and.
Symptom: Device Does Not Stay Stationary when 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 harness discomfort.	
<i>1. Possible Cause:</i>	<i>Resolution:</i>
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 causing pressure in the groin piece area	
<i>1. Possible Cause:</i>	<i>Resolution:</i>
Groin piece has slack, harness rides up making 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 discomfort in the chest area of female patients.	
<i>1. Possible Cause:</i>	<i>Resolution:</i>
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	
<i>1. Possible Cause:</i>	<i>Resolution:</i>
The overhead straps are too far apart.	Place the harness wrap with the opening in the back. This will bring the overhead straps closer to each other.
Symptom: The patient cannot stand to properly position and tighten the harness and groin piece.	
<i>1. Possible Cause:</i>	<i>Resolution:</i>
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.

Parts List

Parts List – Harness and Accessories			
Diaper Harness (LG75W/LG10W/LG100MX)	Harness Wrap w/Overhead straps and covers	PHD	1
Diaper Harness Wrap	A rigid, washable cloth wrap used with attachments that provide postural support to the patient	PHD-A	1
Pediatric Harness (LG75W/LG10W/LG100MX)	Harness Wrap w/Overhead straps, covers and groin pieces	HP	1
Pediatric Harness Wrap	A rigid, washable cloth wrap used with attachments that provide postural support to the patient	HP-A	1
6" Groin Piece for HP	6" Padded, adjustable piece which connects to the harness and is positioned between the legs.	HP-D	1
8" Groin Piece for HP	8" Padded, adjustable piece which connects to the harness and is positioned between the legs.	HP-E	1
Overhead Strap for HP	Straps with one male and one female connection. The male end connects into the plastic buckles on the yoke. The female end connects into the plastic buckles on the harness	HP-B	4
Diaper Harness (LG150/LG200/LG200MX)	Harness Wrap w/Overhead straps and covers	HDJ	1
Diaper Harness Wrap	A rigid, washable cloth wrap used with attachments that provide postural support to the patient	HDJ-A	1
Junior Harness (LG150/LG200/LG200MX)	Harness Wrap w/Overhead straps, covers and groin pieces	HJ	1
Junior Harness Wrap	A rigid, washable cloth wrap used with attachments that provide postural support to the patient	HJ-A	1
6" Groin Piece for HJ	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
Small Adult Harness (LG150/LG200/LG200MX)	Harness Wrap w/Overhead straps, covers and groin pieces	HS	1
Small Adult Harness Wrap	A rigid, washable cloth wrap used with attachments that provide postural support to the patient	HS-A	1
9" Groin Piece for HS	9" Padded, adjustable piece which connects to the harness and is positioned between the legs.	HS-F	1
10.5" Groin Piece for HS	10.5" Padded, adjustable piece which connects to the harness and is positioned between the legs.	HS-G	1
13" Groin Piece for HA (OPTIONAL)	13" Padded, adjustable piece which connects to the harness and is positioned between the legs.		
HA / HS Leg Straps (OPTIONAL)	Adjustable piece which connects to the harness and is positioned around the legs for small adult / Adult Harness	HSCS	2
Standard Adult Harness	Harness Wrap w/Overhead straps, covers and groin pieces	HA	1
Standard Adult Harness Wrap	A rigid, washable cloth wrap used with attachments that provide postural support to the patient	HA-A	1
10.5" Groin Piece for HA	10.5" Padded, adjustable piece which connects to the harness and is positioned between the legs.	HA-G	1
13" Groin Piece for HA	13" Padded, adjustable piece which connects to the harness and is positioned between the legs.	HA-H	1
9" Groin Piece for HA (OPTIONAL)	9" Padded, adjustable piece which connects to the harness and is positioned between the legs.	HA-F	1
Parts List – Power System (LG100MX)			
POWER SYSTEM	The electrical system that controls the positioning of the actuator.	PS10X	1
Actuator Cord	Lifting Mechanism on LiteGait MX	PS10X-A	1
Battery	24V battery pack.	PS10X-B	1
Control Box	The electric junction box.	PS10X-C	1
Charger Cord	The AC adapter cord that plugs into a wall outlet and the control box.	PS10X-D	1
Hand Switch	The switch connects to the control box. The buttons allow for the adjustment of the height of the device.	PS10X-E	1

Resource Directory

PHONE:

1.800.332.WALK (9255)

Toll free in U.S. and Canada

FAX:

480.829.0737

WEBSITE:

Main Website	LiteGait.com
Products	LiteGait.com/products
Education Department	LiteGait.com/education
Service & Parts	LiteGait.com/service
User Forum	LiteGait.org

EMAIL:

Service & Parts	Service@LiteGait.com
Clinical Support	ClinicalSupport@LiteGait.com
Education Department	Education@LiteGait.com
Sales Department	Sales@LiteGait.com

POSTAL ADDRESS:

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

LiteGait® is a Registered Trademark of Mobility Research, Inc.
PO Box 3141, Tempe AZ, USA 85280.

(2015US)



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 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 <http://www.litegait.com/warranty.html> 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:		Dept. used in
Address		Phone ()
		Fax ()
Clinical Contact Name		email
Maintenance Contact Name		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

