300 Series
300 Standard
300 Deluxe
300P Series
300P Standard
300P Deluxe
400 Series
400 Standard
400 Deluxe
400 Deluxe Tall
500 Series
500 Standard
500 Deluxe
500 Deluxe Tall
300 / 400 / 500 Series
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®

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Unit Height</th>
<th>Maximum Patient Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LiteGait® 300 Standard</td>
<td>7’ 9”</td>
<td>300 lbs</td>
</tr>
<tr>
<td>LiteGait® 300 Deluxe</td>
<td>7’ 9”</td>
<td>300 lbs</td>
</tr>
<tr>
<td>LiteGait® 300P Standard</td>
<td>7’ 6”</td>
<td>300 lbs</td>
</tr>
<tr>
<td>LiteGait® 300P Deluxe</td>
<td>7’ 6”</td>
<td>300 lbs</td>
</tr>
<tr>
<td>LiteGait® 400 Standard</td>
<td>7’ 9”</td>
<td>400 lbs</td>
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<tr>
<td>LiteGait® 400 Deluxe</td>
<td>7’ 9”</td>
<td>400 lbs</td>
</tr>
<tr>
<td>LiteGait® 400 Deluxe Tall</td>
<td>8’ 2”</td>
<td>400 lbs</td>
</tr>
<tr>
<td>LiteGait® 500 Standard</td>
<td>7’ 10”</td>
<td>500 lbs</td>
</tr>
<tr>
<td>LiteGait® 500 Deluxe</td>
<td>7’ 10”</td>
<td>500 lbs</td>
</tr>
<tr>
<td>LiteGait® 500 Deluxe Tall</td>
<td>8’ 3”</td>
<td>500 lbs</td>
</tr>
</tbody>
</table>

- 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 Service & Parts 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**
LiteGait®

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

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

1.) After removing the shipping carton, examine the LiteGait® and report any damage to immediately to Mobility Research Service & Parts Department at 800-332-9255 EXT 7104.

2.) Loosen handlebar knobs and raise handlebars to allow access to the enclosed cardboard box.

3.) Open the cardboard box containing the following:
   - Rechargeable Battery
   - Battery Charger
   - Harness & Harness Accessories
   - BiSym (Optional)

CAUTION: DO NOT USE UTILITY KNIFE TO OPEN BOX

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

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

6.) Using two people, remove base from pallet.

7.) Position base over pallet with actuator near base as pictured.
8.) Cut and remove plastic wrap from base compartment.

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

10.) Prepare base for installation of actuator. Remove four bolts from base using Allen wrench in small box.

11.) Before attaching the post to the base, the LiteGait® yoke and legs should be oriented in the same direction as shown in the picture to the right.

12.) Remove screws securing actuator to pallet.

13.) Lower handlebars on actuator and tighten knobs before lifting.

14.) Using two people lift actuator up onto base such that the yoke and handle bars are facing the same direction as the legs of the base.

15.) Route actuator cord between base and actuator plate before attaching actuator to base. Cord should rest in slot on back of actuator plate.
16.) Insert bolts and hand tighten. Make sure while one person is inserting bolts, the other is holding the actuator. Tighten the bolts until snug using the Allen wrench.

**CAUTION:** DO NOT over tighten the bolts.

17.) If applicable, pivot the yoke arm over the top of the LiteGait® Post as shown in the following images. The yoke should be resting on the FlexAble Cartridge.

18.) Insert loose actuator cord wires into compartment below actuator plate.

19.) Position actuator cord cover located in the cardboard box over actuator cable and bolts securing actuator plate to base. Cover is secured using magnets.

20.) Expect a slight gap between actuator and cover OR base and cover when installed properly.

21.) Locate battery and position in base. NOTE: 300 S &D models DO NOT have removable battery continue to step 24.

22.) Turn control box on by rotating the red button clockwise. 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.

**NOTE:** Battery requires charging of once per week overnight regardless of use.

23.) LiteGait® is powered by a rechargeable battery. To charge, remove battery from base and connect charger to battery.
24.) 300 S &D models utilize a charging cord connected to the control box within the LiteGait® base. To charge, connect charging cord to outlet.

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®.

27.) Assembly Complete.

If you have questions during the assembly process, contact the Mobility Research Service & Parts Department for assistance.
About Your LiteGait®

YOKE ASSEMBLY: Support Arm with 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: Power system interface for the battery, handheld switch and actuator control.

HANDLE BARS: Unit has two adjustable handlebars. The handlebars are attached to the unit 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, the unit must be locked into place at all other times. NOTE: Over tightening the knobs may cause damage.

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/percentage of support provided by each arm of the yoke. The buckle assemblies are mounted to sensors that measure the patient load. The sensor values are processed and displayed using the BiSym T instrumentation.

FREEOMÉ—REMOVEABLE (OPTIONAL): FreeDome that allows for rotation of patient while supported by LiteGait®. Removable from main FlexAble yoke. Does not allow for use with the BiSym Instrumentation.

INTEGRATED FREEOMÉ (OPTIONAL): Integrated FreeDome that allows for rotation of patient while supported by LiteGait®. Allows for use with the BiSym instrumentation.

Gaiter Stool (OPTIONAL): Adjustable stool for therapist to help facilitate lower extremity cueing. Attaches to the LiteGait.
Using Your LiteGait®

I. Control Unit

Control Unit is the part of the LiteGait® that controls the adjustment of the actuator. The control STOP and Plug Icons box consists of the following features.

- Red ON/OFF Button
- Battery Charge Indicator
- Emergency Down Button

Red ON/OFF Button

The emergency ON/OFF Button is the ON/OFF switch for the LiteGait. To turn the device on, rotate the red button clockwise and it should pop outward. To turn the device off press the red button down. The device also automatically turns off when connected to a power outlet.

Battery Charge Indicator

The Battery Charge Indicator shows the idle charge on the battery while the device is on. The indicator displays the charge in 25% increments. 4 solid black bars indicates a full charge on the battery. A plug icon appears in the 50% capacity bar when charge is down to 25%. The LiteGait® should be charged when the plug icon appears. When the battery charge is 0% the display will show a STOP and a Plug icon, this indicates that the device needs to be charged as soon as possible. When the device is turned OFF or is connected to an outlet the display indicates the STOP and Plug Icons.

II. Charging LiteGait

LiteGait® is equipped with a 24 volt battery pack that needs to be charged on a weekly schedule.

1. Disconnect LiteGait® Smart Power™ Battery from LiteGait® Base
2. Plug charger into LiteGait® Smart Power™ Battery
3. Red LED indicates battery is charging. Green LED battery is not connected or fully charged.
3. After charging battery for 6-8 hours or overnight, connect battery to LiteGait for use.

III. Charging LiteGait - 300 Series

LiteGait® is equipped with a 24 volt battery pack that needs to be charged on a weekly schedule.

1. Remove cover to battery compartment from LiteGait® Base.
2. Remove charging cord from LiteGait® Base and connect to power outlet.
3. Green “ON” LED shows LiteGait is connected to outlet. Yellow “CHARGE” shows battery is charging.
4. LiteGait® only operates on battery power and will not raise or lower while connected to the power outlet.

NOTE: LiteGait® Battery Should be charged overnight AT LEAST ONCE PER WEEK regardless of use.
IV. 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.

Emergency Lowering of Yoke
If the down buttons fail to lower during normal use due to a low battery. There is an auxiliary down button that can be pressed to lower the device. Using a pen tip or small screwdriver, press the black emergency down button, this lowers one of the two columns of the LiteGait® when pressed.

CAUTION: Using the Emergency Down Button may damage battery for future use. Use only in case of emergency.

V. FlexAble
FlexAble allows for the rigid yoke to become position flexible, with up to 5 inches of travel. Thus, you can maintain the rigid yoke position or make it flexible giving the patient the option to experience more of their balance and weight bearing at their own discretion.

Flexible Support
Loosen the star knob on the bottom of the FlexAble. The amount of deflection can be varied by the amount the knob is loosened

Rigid Support
Tighten the star knob completely on the bottom of the FlexAble

Removable FreeDome - OPTIONAL
FreeDome allows for rotation of the patient while being supported by the LiteGait. Removable FreeDome instructions are found in APPENDIX A on page 31. To rotate the FreeDome, loosen the knob on the bottom of rotational assembly. To lock the FreeDome tighten the knob until snug.
VII. 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. The knobs should only need to be tightened one rotation.

Adjusting Handle Bar Configuration
To adjust the configuration, perform the following steps.
Press the button on the quick release handle bar pin and pull outward.
Adjust handle bar insert to desired length and orientation.
Press the button on the quick release handle bar pin and insert handle bar pin. The pin can be inserted vertically and horizontally.

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.

VIII. 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 directional locking are mounted on the right leg.

Total Locking Casters
Total locking casters are indicated by a red 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.

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.

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.
IX. 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 patient’s 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.
Using Your LiteGait®

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)

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.
Using Your LiteGait®

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
Using Your LiteGait®

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.
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, Handle Bar Grips and Covers:

<table>
<thead>
<tr>
<th>Frequency</th>
<th>* FOLLOW STANDARD FACILITY INFECTION CONTROL PROCEDURES.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cleaning Agent</td>
<td>FACILITY APPROVED CLEANING SOLUTION</td>
</tr>
<tr>
<td>Drying Method</td>
<td>WIPE DRY WITH CLEAN CLOTH</td>
</tr>
<tr>
<td>Special Cleaning</td>
<td>WD-40 CAN BE USED TO REMOVE DIRT OR OILY SPOTS.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th></th>
<th>iHarness &amp; iGroin Pieces</th>
<th>Overhead Straps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>FACILITY INFECTION CONTROL GUIDELINES</td>
<td></td>
</tr>
<tr>
<td>Cleaning Agent</td>
<td>FACILITY INFECTION CONTROL GUIDELINES</td>
<td></td>
</tr>
<tr>
<td>Water Temperature</td>
<td>WASH IN UP TO 176°F (80°C)*</td>
<td></td>
</tr>
<tr>
<td>Drying Method</td>
<td>HARNESSSES SHOULD BE DRIED WITH LOW OR NO HEAT TUMBLE DRY</td>
<td></td>
</tr>
<tr>
<td>Special Cleaning</td>
<td>WIPED WITH DISINFECTION WASH, PER FACILITY INFECTION CONTROL PROCEDURES</td>
<td></td>
</tr>
</tbody>
</table>

* 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 wheelchair 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 Service & Parts Department immediately at Service@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.

<table>
<thead>
<tr>
<th>Check All Components</th>
<th>Check List</th>
<th>Recommended Replacement Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Functionality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cracks or Tears</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exposed or Frayed Wires</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Loose/Rusted Bolts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Discoloration/ Degradation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery</td>
<td></td>
<td>24-30 Months</td>
</tr>
<tr>
<td>Charger</td>
<td></td>
<td>*</td>
</tr>
<tr>
<td>Hand Switch</td>
<td></td>
<td>*</td>
</tr>
<tr>
<td>Harness Wrap</td>
<td></td>
<td>18-24 Months</td>
</tr>
<tr>
<td>Groin Pieces</td>
<td></td>
<td>18-24 Months</td>
</tr>
<tr>
<td>Overhead Straps</td>
<td></td>
<td>*</td>
</tr>
<tr>
<td>Casters</td>
<td></td>
<td>*</td>
</tr>
<tr>
<td>Knobs / Pins</td>
<td></td>
<td>*</td>
</tr>
<tr>
<td>Grips / Covers / Caps</td>
<td></td>
<td>*</td>
</tr>
<tr>
<td>Buckles</td>
<td></td>
<td>*</td>
</tr>
<tr>
<td>Base</td>
<td></td>
<td>*</td>
</tr>
<tr>
<td>Actuator</td>
<td></td>
<td>*</td>
</tr>
</tbody>
</table>

*Replace As Needed Based on Condition

Please Send Copy of Completed Form Every 6 Months to Mobility Research Service & Parts Department

Fax: 480-829-0737
Email: Service@LiteGait.com
Website: http://litegait.com/techsupport.html

Maintenance Contact Information

<table>
<thead>
<tr>
<th>Facility Name</th>
<th>City</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>Last</td>
<td>Title</td>
</tr>
<tr>
<td>Phone</td>
<td>Fax</td>
<td>Email</td>
</tr>
</tbody>
</table>

Model | Serial Number
**Unit Care and Maintenance**

**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.

**FlexAble**
Examine knob for wear. When knob is loosened support should be flexible. When knob is tightened support should be rigid. Tighten nut to secure FlexAble in position.

**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.

**Total Locking 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.

**BiSym Tablet (Optional)**
Load Cell instrumented yoke with BiSym tablet application on Andorid based tablet.

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

**Power System**
Inspect the red on/off switch for functionality. With the button up the device should raise/lower and the battery display should show the charge on the battery. When plugged into an outlet the green ON LED should light. The yellow CHARGE LED will light when the battery is charging.

**Directional Locking 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.

**Wear On Buckle Straps**

**Loose Stitching**

**Broken Connectors**

**Fabric Tears**

**Wear on Covers**

**Damaged Buckles**

Your LiteGait may differ from the image shown above.
## Troubleshooting LiteGait®

### Troubleshooting - Casters

**Symptom: Device Does Not Roll Easily**

<table>
<thead>
<tr>
<th>Possible Cause</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>One or both of the Total Locking Casters are locked</td>
<td>The Total Locking Casters are labeled with a red BRAKE sticker. Unlock the Total Locking Casters.</td>
</tr>
<tr>
<td>One or both Directional Locking Caster are mis-aligned</td>
<td>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 Service &amp; Parts Department for further repair instruction.</td>
</tr>
<tr>
<td>One or more of the casters are loose and are no longer secured to the frame or are damaged</td>
<td>Contact Service &amp; Parts Department for repair information and.</td>
</tr>
</tbody>
</table>

**Symptom: Device Does Not Stay Stationary when Locked**

<table>
<thead>
<tr>
<th>Possible Cause</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>One or more of the casters is not locked.</td>
<td>Make sure all four casters are locked to make the device stationary.</td>
</tr>
</tbody>
</table>

**NOTE:** If all casters are locked appropriately, contact Service & Parts Department for further information.
### Symptom: Patient is complaining of groin or harness discomfort.

1. **Possible Cause:** The harness wrap and/or the groin piece are not tight enough.
2. **Resolution:** 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

1. **Possible Cause:** Groin piece has slack, harness rides up making groin straps the only source of support
2. **Resolution:** 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.

1. **Possible Cause:** The distance between the overhead straps places load on breasts.
2. **Resolution:** 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:** The overhead straps are too far apart.
2. **Resolution:** 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.

1. **Possible Cause:** Patient is too weak or unsafe to stand
2. **Resolution:** 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:** Battery is Not Connected to BiSym Display
2. **Resolution:** Connect Battery cable to BiSym Display

2. **Possible Cause:** Low Battery Charge
3. **Resolution:** 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:** Battery Needs to be Replaced
4. **Resolution:** Contact Service & Parts Department for replacement battery information.

### Symptom: BiSym Display Is Not Reading Weight

1. **Possible Cause:** Load Cell Cables are Not Connected
2. **Resolution:** 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 the BiSym continues not to read weight, contact Service & Parts Department for further information.

### Symptom: BiSym Display Is Not Reading Zero When No Weight is on LiteGait.

1. **Possible Cause:** Harness is Moving Slightly
2. **Resolution:** 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:** BiSym scale requires Zero Calibration
3. **Resolution:** Refer to Zero Calibration Instructions from BiSym section of manual.

### Symptom: BiSym Does Not Automatically Power Down.

1. **Possible Cause:** Auto Shut OFF is set too long or set to ZERO
2. **Resolution:** Refer to the Change Settings from BiSym section of manual.

2. **Possible Cause:** Issue with BiSym
3. **Resolution:** Contact Service & Parts Department for further troubleshooting instruction.
## Parts List

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
</table>
| Standard Adult iHarness with GP’s | Harness Wrap with 10.5” & 13” Groin Pieces  
10.5” Groin Piece for HA (HAIN-GP10)  
13” Groin Piece for HA (HAIN-GP13) | HAIN-A1013  |
| Harness Extender (OPTIONAL) | 7.5” extension to plug into front of the harness wrap. Includes 17” Groin Piece. | PHAEXGPS    |
| HA / HS Leg Straps (OPTIONAL) | Adjustable piece which connects to the harness and is positioned around the legs for small adult / Adult Harness | HSCS        |
| Small Adult iHarness with GPS’s | Harness Wrap with 9” & 10.5” Groin Pieces  
9” Groin Piece for HS (HSIN-GP9)  
10.5” Groin Piece for HS (HSIN-GP9) | HSIN-A910   |
| XL iHarness with GP’s (500 lb Units ONLY) | Harness Wrap with Short and Long Pairs of Groin Pieces | HXIN-ASL    |
| Junior iHarness Wrap with GP’s | Harness Wrap with 6” & 8” Groin Pieces  
6” Groin Piece for HJ (HJIN-GP6)  
8” Groin Piece for HJ (HJIN-GP8) | HJIN-A68    |
| Diaper Harness       | Diaper Harness with Metal Buckles                                            | HDJ-A       |
| Overhead Strap with Covers | Seatbelt like straps with one male and one female connection. The male end connects into the buckles on the yoke. The female end connects into the buckles on the harness. | HA-BC 4     |
| Q-Straps             |                                                                              |             |

To place a part order, please visit LiteGait.com/service or email Service@LiteGait.com
<table>
<thead>
<tr>
<th>Parts List</th>
<th>LiteGait® I Parts List – Power System 300 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Battery</strong></td>
<td>24V battery pack. P535E-B 1</td>
</tr>
<tr>
<td><strong>Control Box</strong></td>
<td>The electric junction box. P535E-C 1</td>
</tr>
<tr>
<td><strong>Charger Cord</strong></td>
<td>Power cord that plugs into a wall outlet and the control box. P535E-D 1</td>
</tr>
<tr>
<td><strong>Hand Switch</strong></td>
<td>The switch connects to the control box. The buttons allow for the adjustment of the height of the device. P535E-E 1</td>
</tr>
<tr>
<td><strong>Battery Cover</strong></td>
<td>Rectangular metal plate that covers batteries. P535E-G 1</td>
</tr>
<tr>
<td><strong>Control cover</strong></td>
<td>Rectangular metal plate to cover the cables to the control box. P535E-H 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Parts List</th>
<th>LiteGait® I Parts List – Power System 300P / 400 / 500 Series - Power System</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Actuator Cord</strong></td>
<td>A split red and green color coded connection cord that electrically connects the control box to the actuator. P550E-A 1</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>24V battery pack. P55LD-B 1</td>
</tr>
<tr>
<td><strong>Control Box</strong></td>
<td>The electric junction box. P550E-C 1</td>
</tr>
<tr>
<td><strong>Charger Cord</strong></td>
<td>The AC adapter cord that plugs into a wall outlet and the control box. P55LD-CH-A 1</td>
</tr>
<tr>
<td><strong>Charger Station</strong></td>
<td>Wall-mounted charging station P55LD-W-A 1</td>
</tr>
<tr>
<td><strong>Hand Switch</strong></td>
<td>The switch connects to the control box. The buttons allow for the adjustment of the height of the device. P550E-E 1</td>
</tr>
<tr>
<td><strong>Control cover</strong></td>
<td>Rectangular metal plate to cover the cables to the control box. P550E-H 1</td>
</tr>
</tbody>
</table>
### LiteGait® I Parts List – Handle Bars

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASE CAP</td>
<td>The 2 x 2 inch, black covers for the legs of the base.</td>
<td>B50G34-B</td>
<td>2</td>
</tr>
<tr>
<td>Total Locking Casters</td>
<td>5” Wheel with hardware that locks via a tab labeled with a red BRAKE sticker. Includes hardware</td>
<td>B50G34L-C</td>
<td>2</td>
</tr>
<tr>
<td>Directional Locking Caster</td>
<td>5” Wheel with hardware that locks into one direction via a tab labeled with a green STEER sticker. Includes Low Profile Hardware</td>
<td>B50G34L-D</td>
<td>2</td>
</tr>
</tbody>
</table>

### LiteGait® I Parts List – Yoke

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buckle Assembly</td>
<td>Wheel with hardware that locks via a tab labeled with a red BRAKE sticker.</td>
<td>Y40E-A</td>
<td>1</td>
</tr>
<tr>
<td>Socks</td>
<td>Black 6” covers for the adjustable handles.</td>
<td>Y40E-B</td>
<td>2</td>
</tr>
<tr>
<td>Cartridge</td>
<td>Sits between the Yoke and the post attachment and is cylinder shaped. Blank or Flexible</td>
<td>Contact Mobility Research</td>
<td>1</td>
</tr>
</tbody>
</table>
Appendix A. Removable FreeDome

NOTE: FreeDome is located directly above the head of the patient. It is important to ensure that there is clearance above the patient’s head at all times when lowering the LiteGait®.

1. Introduction to FreeDome

FreeDome is an accessory for the LiteGait® that enables users to experience the freedom of 360 degrees rotation while fully supported by LiteGait®.

2. FreeDome Components

1. Yoke Support Plates
2. Pivot Support
3. Rotational Locking Knobs
4. Harness Buckle Assembly
5. Pivot Bar
6. Yoke Support Cap
7. Yoke Alignment Lip
8. Top Latch
9. Back Support

NOTE: Your FreeDome may differ from image above

3. FreeDome Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (H x W)</th>
<th>For LiteGait® Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD 2.0</td>
<td>5-3/8”x 17 1/8”</td>
<td>360/360/400/500</td>
</tr>
</tbody>
</table>

www.LiteGait.com
1-800-332-9255
Prepare the FreeDome for installation by rotating the (5) Pivot Bar and locking the (3) Rotational Locking Knob when the (5) Pivot bar is parallel with the (9) Back Support.

Position the FreeDome on top of the LiteGait® yoke such that the (1) Yoke Support Plates rest on the C of the LiteGait® yoke.

Position the (7) Yoke Alignment Lip between the LiteGait® yoke arms securely under the back of the C of the yoke.

5. Positioning the FreeDome

- Ensure that the (7) Yoke Alignment Lips are seated firmly against the bottom yoke as shown in the figure to the right.

- Make sure that the (1) Yoke Support Plates (Both Left and Right) are seated firmly against the top of the Yoke as shown in the figure to the right.

6. Securing FreeDome

Rotate the (8) Top Latch until positioned parallel to the arms of the LiteGait® yoke, to secure the FreeDome to the LiteGait®.
7. Adjusting the FreeDome
To rotate the (5) Pivot Bar, turn both (3) Rotational Locking Knob counter-clockwise until the pivot bar rotates freely. Rotate the (5) Pivot Bar to the desired position for use. Once the pivot bar is in the preferred position, turn both (3) Rotational Locking Knob clockwise until tightened to secure the (5) Pivot Bar in position.

FreeDome can be unlocked to turn

8. FreeDome Removal
The FreeDome can be easily removed by reversing the installation directions. As with attaching the FreeDome, validate that the pivot bar is oriented parallel with the arms of the LiteGait® Yoke. Rotate the (8) Top Latch until perpendicular with the yoke arms and pull downward on the (7) Yoke Alignment Lip. Lift the FreeDome off the top of the LiteGait®.
Appendix B. BiSym

STARTING BISYM

Display support weight (lbs or kgs) or % (See Below).

Record - Generate goals, patient feedback and reports

Set Patient Orientation (SEE BELOW)

PATIENT ORIENTATION

Click on the character to change the orientation relative to LiteGait®.

Front Back Side* Side*

*If your LiteGait® includes the optional Integrated FreeDome yoke, the BiSym also allows for measuring in the side stepping position. Side stepping measurements are displayed as total weight only.

DISPLAY UNITS

Display the values of support provided by the LiteGait® in the selected weight units or a percentage of the patients body weight. Toggle weight or percentage by pressing the blue circle icon on the display.

TIME DURATION

To set the max duration of data collection session, press the icon.

Time countdown upon initiation of the monitor session. A lower value conserves tablet battery and charge.
SET USER WEIGHT

Set user's weight. Slide scale up or down to adjust scale. Weight defaults at 150 lbs.

SET GOAL (WEIGHT / PERCENTAGE)

If goal is to:
- Limit patient’s weight bearing, select “Bearing”
- Limit support from LiteGait®, select “Support”

Enter goal value or percent

If a weight goal is set, adjusting the patient weight will cause the percentage goal to adjust. If a percentage goal is set, adjusting patient weight will cause weight goal to adjust.

PATIENT FEEDBACK

Right Support in RED; Left Support in BLUE

Total T (Right + Left) Support. Click Circle to switch value to the difference D (Right - Left)

Bar increase and decreases with the change of the support from patient.

Elapsed session time shown in seconds.

Press Stop to end session.

Set Goal is listed in bottom right corner.

Fuchsia bar indicates set goal is not being met.

Green bar indicates set goal is being met.
PATIENT FEEDBACK - Use with the Integrated FreeDome Yoke

Note when using the SIDE orientation, the measurement is limited to the total measurement. Left and Right readings are disabled.
SAVE / EXPORT SESSION - REPORT

Press to save report and data file.

Right and Left support is displayed over time.

Min, max and average of right & left in selected units.

Total % body weight, min, max and average.

Min, max and average of right & left in selected units.

Enter file name. File name defaults to session date & time.

Print Session using printer connected to tablet, WiFi or WiFi direct.

Files can be emailed by setting up an email account on the tablet and connecting to local WiFi network.

Saving the session will save a copy of the report and data file on the tablet under the BiSym folder.

SECTION INTENTIONALLY LEFT BLANK
CONFIGURATION

Enter calibration screen to:
- Change units from lbs to kg
- Calibrate scale zero values.
- Calibrate gain values.
- Enable/Disable side view
- Enable/Disable sound effects

Press to enter configuration screen.

Configuration is password protected. The password to access the configuration screen is “mobility”. Press OK to access configuration.

ZERO CALIBRATION:
Connect harness to LiteGait® without any additional weight. Press Zero to set zero calibration.

Select BiSym Units

Side View box should be selected for use with the Integrated FreeDome Yoke

Turn On / Off Sound effects

FOR MOBILITY RESEARCH USE ONLY.

Press apply to save and exit.

Gain Calibration only should be completed ONLY if measured values have noticeable error. For assistance contact Mobility Research Service & Parts department at 1-800-332-9255 EXT 7104
LOCK/UNLOCK Mounting Bracket

1. Disconnect the micro USB cable from the micro USB port on the left of the BiSym display.

2. Using display bracket key, unlock the bracket locking mechanism.

3. After unlocking, the BiSym display can be slid on/off of the bracket.

4. Press in the lock mechanism or use the display bracket key to lock the bracket in place.

CHARGING BISYM BATTERY / DISPLAY

1. Disconnect the micro USB instrumentation cable from the micro USB port on the left of the display.

2. Connect charging micro USB cable to micro USB port on display.

3. Connect charging cable to PC or charging or wall USB charger.

4. Reconnect charging micro USB instrumentation cable to display.

NOTE:
BiSym display will require routine charging. Monitor the display battery using the battery indicator in the top right hand corner of the display. Connect charging cable as needed.
Resource Directory

WEBSITE:

www.LiteGait.com
www.LiteGait.org

EMAIL DIRECTORY:

Service & Parts Department  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

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