



L I V E N G O O D

Livengood Platform™

Instructions for Use & Maintenance

The Livengood Platform consolidates medical devices associated with inpatient medical care. It also functions as an ambulatory-assist device to improve patient independence and mobility. Any device that may be attached to a patient has a position on the Livengood Platform. The Livengood Platform eliminates the need to attach devices to the bed, wall, and IV pole.

Frequent, safe, and early patient ambulation improves outcomes and shortens hospital stays. Increased patient independence and mobility helps reduce nursing workloads and enhance nurses' safety. Together, these benefits can reduce cost and increase patient and nurse safety and satisfaction.

The Livengood Platform is a modular device. Upgrades may be added to meet specific needs and increase the number of ways in which the Livengood Platform may be used at your facility. The Platform's modular design makes service and maintenance quick and easy.

This manual contains basic information to help you understand, maintain, and repair the Livengood Platform.

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***Patent information:***

U.S. and International Patents Pending

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# 1 Safety Precautions

Additional information is available throughout this document.

- Power is provided in the plugs **ONLY** if the green indicator light is illuminated.
- The Platform is **NOT** a standing-assist device. Patients should never pull on the handle to raise or lower themselves from or to a sitting position.
- Ensure that the power cord is out of foot traffic patterns when the Platform is stationary and properly retracted when the Platform is in motion or disconnected from wall power.
- Always travel at a controlled speed.
- Remove all equipment attached to the Platform before attempting any maintenance.
- Secure or remove all equipment on the Platform before moving the Platform.
- The IV Pole should be secured with the locking screw at all times while in use.
- Load heavier devices toward the bottom of the IV pole and add the second pole if several heavy devices are required.
- **ONLY** IV Bags should be placed above the groove marked on each of the IV poles to reduce the risk of tipping.
- Disconnect the Platform from power before cleaning.
- Remove all equipment attached to the Platform before attempting any maintenance or repair.
- If the Platform must be lifted, always lift the Platform with a minimum of two people.
- Do not use the Rings for lifting the Platform.
- Do not direct any liquid streams or sprays at the Platform when it is plugged in to a wall outlet to prevent possible electric shock.

## 2 Symbols

	Warning: Consult the Accompanying Documents
	Type B Applied Part: Protection against electrical shocks
IPX1	Protected against dripping water
	Equipotentiality Plug - encircled by green/yellow washer
	Electrical Shock Hazard. Refer servicing to qualified personnel.
	Classified with respect to electrical shock, fire and mechanical hazards only in accordance with UL60601-1 and CAN/CSA D22.2 No. 601.1. This component is Recognized by Underwriters Laboratories Inc. Representative samples of this component have been evaluated by UL and meet applicable UL requirements.
	Stop or Brake Mode; brakes; center wheel down
	Walk or Patient Mode – no brakes; center wheel down
	Nurse Mode – no brakes; center wheel raised
	Protective Earth Ground
<b>MAX 10A TOTAL ALL OUTLETS</b>	The total current output for the total of all 8 outlets may not exceed 10A.
<b>IV BAGS ONLY</b>	Hang only IV bags above the groove marked on the IV poles to reduce tipping hazard and injury.
<b>SECURE OBJECTS BEFORE MOVING</b>	User is responsible to ensure that all objects are secured while the Platform is in motion.
	The power cord must be connected to a “Hospital Grade” Receptacle identified by a green dot.

### 3 Technical Specifications

#### 3.1 **Standards and IEC Classifications**

Class 1 Equipment – Accessible conductive parts cannot become live in the event of a basic insulation failure because of the way in which they are connected to the protective earth conductor.

Mode of Operation - Continuous

Type B Applied Part

IPX1 - Protected against dripping water

Electromagnetic Interference – The Livengood Platform operates at 60 Hz and functions as a power distributor with an isolation transformer. This should not result in any significant electromagnetic interference with devices mounted on the Platform and located in the room.

Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.

#### 3.2 **Dimensions and Weight**

##### **Base Unit (no IV pole, no Rings)**

Width	23 ½ ”
Depth	24 ¼”
Height (to top surface)	34 ⅛”
Height (to handle)	40”
Weight	103 lbs

##### **Maximum Dimensions (IV pole & Rings)**

Width	25 ½”
Height (to top of IV pole)	73 ¾”
Weight	115 lbs

#### 3.3 **Weight Capacity**

Total Weight Capacity (Patient + Equipment): 880lbs (399kg)

IV Pigtailed: 3 Liters distributed on 1 to 3 pigtailed

IV Pole (below marker line, includes accessory hook): 25 lbs (11.34kg)

Patient Capacity: 600lbs (272kg) – the Platform is intended to be used by patients weighing up to 600lbs. However, the Platform is not intended to support the full weight of the patient.

Top Surface: 200lbs (91kg)

Oxygen Rings: 15lbs (6.80kg)

### 3.4 **Environmental Specifications, Transport & Storage**

#### **Temperature**

Operating: +10°C to +48°C (50 to 104°F)

Non-operating: -10°C to +60°C (-14 to 140°F)

#### **Humidity**

Operating: 30 to 75% RH, non-condensing

Non-operating: 30 to 75% RH, non-condensing

#### **Atmospheric Pressure**

Operating: 700 hPa to 1,060 hPa

Non-operating: 700 hPa to 1,060 hPa

#### **Shipping Specifications**



Ship & Store Upright on Wheels



Keep Dry



Do Not Stack



Pallet and Box Recyclable as Corrugated Cardboard  
Packing Material Recyclable as Mixed-Paper

### 3.5 **Electrical**

**Input:** 120V AC 60Hz - 10A

**Output:** 120V AC 60Hz - 10A Maximum from total of all 8 outlets

**Fuses:** 10A ATO Blade-type Fuses on Power and Neutral

**Wire Color Convention:** Brown-Power; Blue-Neutral; Green/Yellow-Ground

**Retractable Cord:** 10 foot, 10A, Hospital Grade

**Isolation Transformer:** 120VAC, 50/60Hz, 10A; Input = Output.

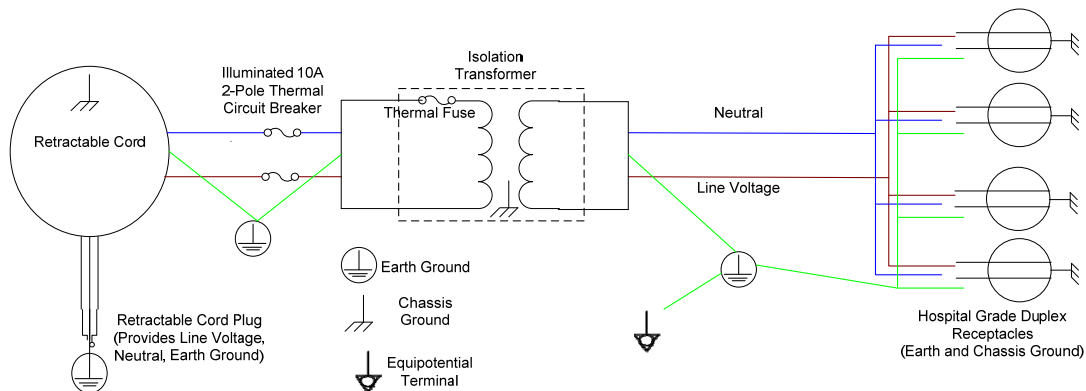
**Grounding:** A common earth ground post is provided inside of the electrical box. An Equipotentiality post is provided externally on the back of the electrical box for attachment of medical devices that may be located on the Platform.

# \*\*\*WARNING\*\*\*

## SPRPT: Special Purpose Relocatable Power Taps (the **Electrical Box with Outlets**)

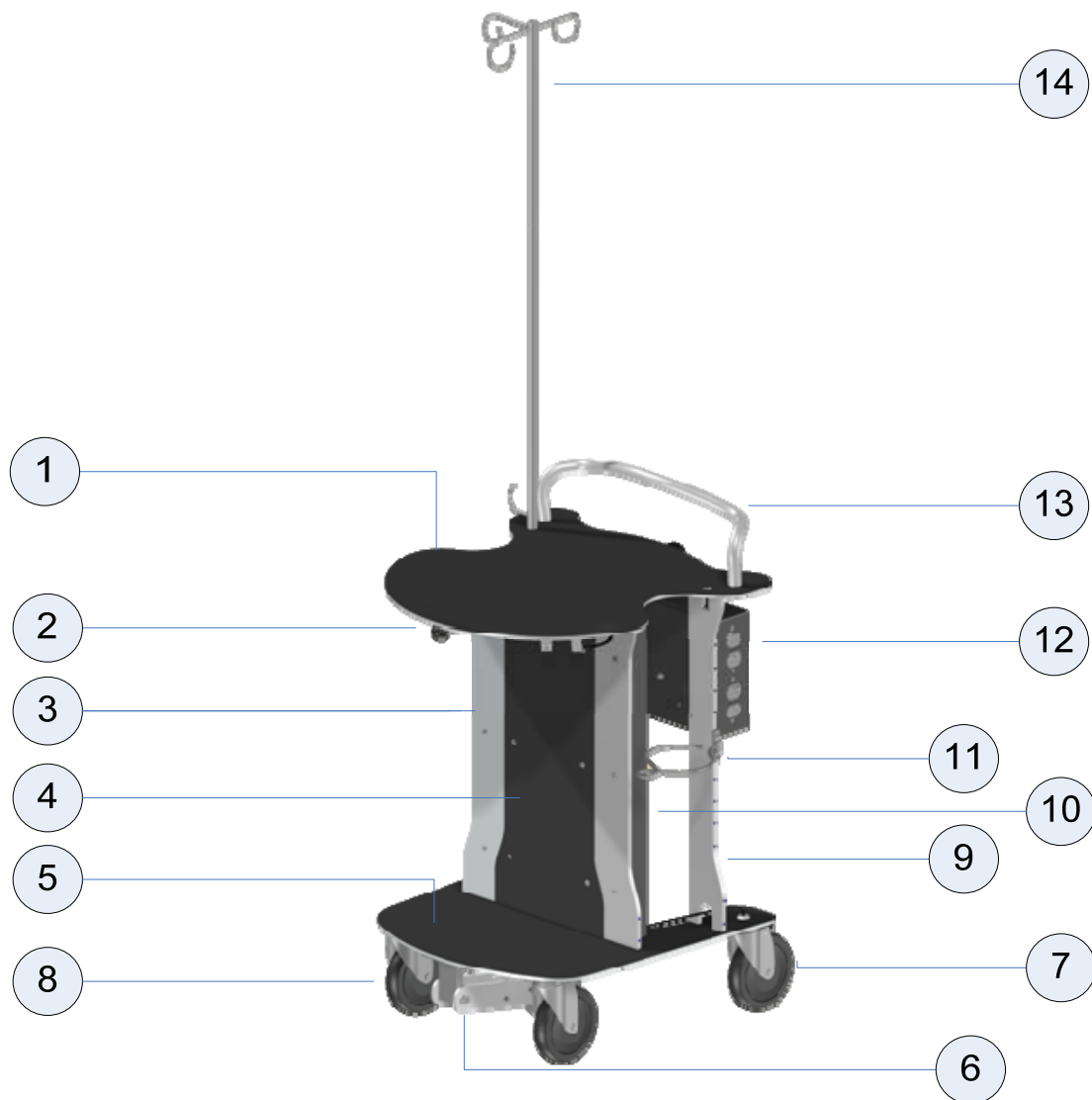
- Only use the SPRPT for supplying power to equipment which is intended to form part of the medical system.
- 14.1b??
- Do not physically contact parts of the SPRPT and the patient simultaneously.
- The use of this SPRPT does not ensure that a medical system compliant with any standard or specifications (such as local codes) will result. Only those qualified to assemble a medical system shall attempt to do so. The Standard for Medical Electrical Equipment – Part 1-1: General Requirements for Safety – Collateral Standard: Safety Requirements for Medical Electrical Systems, IEC 60601-1-1 is used to determine the suitability of a medical electrical system. If the system is not approved by your clinical engineering department and you are not familiar with this standard and/or medical systems do not use this device.
- The SPRPT shall be used within its marked load rating indicated above.

### 3.6 Schematic



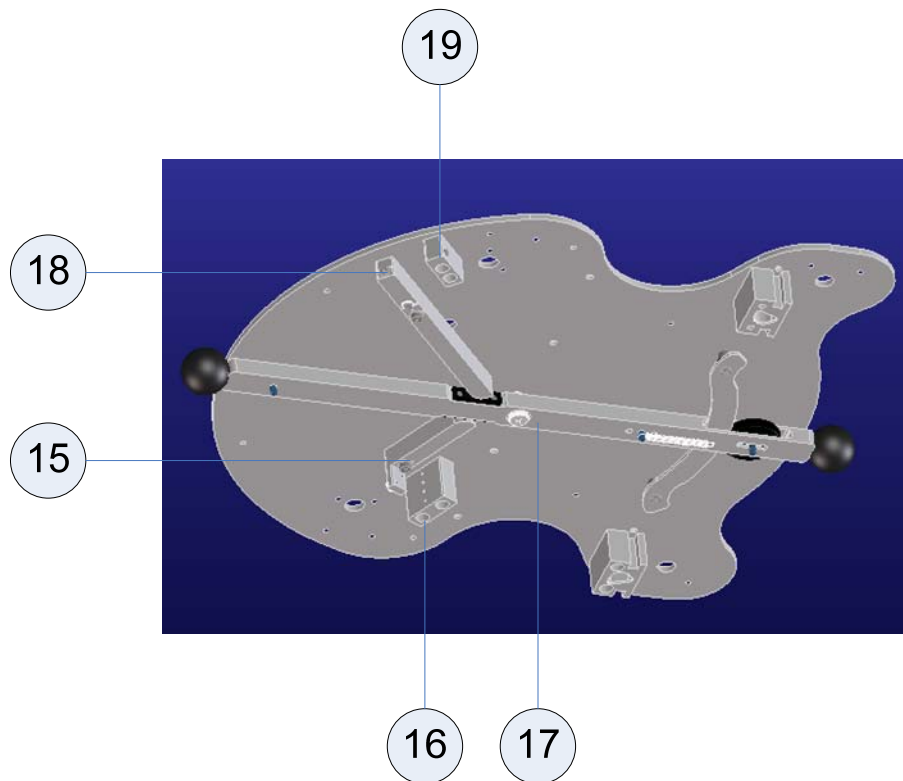
## 4 Parts Diagrams

### 4.1 Main Platform Diagram



- 1 Top Plate Assembly
- 2 Transmission Assembly
- 3 Front Leg(2)
- 4 Front Sheet Metal
- 5 Bottom Plate Assembly
- 6 Center Wheel Assembly
- 7 Braked Caster Wheel Assembly(2)
- 8 Non-braked Caster Wheel(2)
- 9 Rear Leg(2)
- 10 Transformer Cover
- 11 Oxygen/Drain Ring
- 12 Electrical Box
- 13 Handle
- 14 IV Pole

## 4.2 *Transmission*



- 15 Brake Lever
- 16 Brake Manifold
- 17 Crossbow Assembly
- 18 Center Wheel Lever
- 19 Center Wheel Manifold

## 5 Using the Platform

### 5.1 *Overview*

The Livengood Platform consolidates medical devices associated with inpatient medical care. It also functions as an ambulatory-assist device to improve patient independence and mobility. Any device that may be attached to a patient has a position on the Livengood Platform. The Livengood Platform eliminates the need to attach devices to the bed, wall, and IV pole. The incorporation of portable oxygen and suction completes the transformation of the Livengood Platform into a mobile headwall.

Frequent, safe, and early ambulation improves patient outcomes and shortens hospital stays. Increased patient independence and mobility helps reduce nursing workloads and enhance nurse safety. Together, these benefits can reduce cost and increase patient and nurse safety and satisfaction which in turn promote nurse retention.

The Livengood Platform is a modular device. Upgrades may be added to meet specific needs of a particular patient care unit and increase the number of departments that will find value in the Livengood Platform.

## 5.2 **Supported Medical Devices**

Supported medical devices include but are not limited to:

- IV Pumps
- Leg Compression Pumps
- Urine Collection Bags
- Heart Monitors
- Suction Pumps
- Transport Monitors/Defibrillators
- Drain Collection Bags
- Oxygen
- Blood Pressure Monitors
- Chest Tubes
- Syringe Pumps
- Collection Canisters

## 5.3 **Modes of Operation**

The Livengood Platform has three modes of operation: *Stop*, *Walk/Patient* and *Nurse*. You can change settings by moving the transmission bar to match the symbols shown below.



*Stop*



*Walk/Patient*



*Nurse*

***Stop:*** Braking is engaged on the rear wheels. Use the *Stop* setting to keep the Platform stationary in patient rooms and to allow the patient to rest during ambulation.

***Walk/Patient:*** The center wheel is lowered to help the Platform track in a straight line while in motion. Use this mode to provide additional control to help patients ambulate with confidence.

***Nurse:*** Braking and the walking assist wheel are disengaged and the Platform can roll freely in any direction. Use the *Nurse* setting for very mobile patients or for rapid transport of the Platform by hospital staff.

## 5.4 **Securing Equipment to the Top and Bottom Surfaces**

The user of the Platform is responsible to ensure that all objects placed on the top and bottom surfaces of the Platform are secured and safe for transport while the Platform is in motion. Accessories may be available from LE to help in securing equipment and supplies.

## 5.5 **Attach Oxygen Cylinders or Suction Canisters**

Rings on both sides of the Platform allow convenient and easy transport of oxygen bottles and suction canisters. A range of attachment locations exist to accommodate the needs of a wide

range of brands, styles and sizes of devices. The rings should not require regular adjustment but may be moved to the position you want and attached using the screws provided. A single ring may be used for an oxygen bottle if it can be positioned to prevent the bottle from sliding out the bottom if angled. For an E-Cylinder, the best ring position for a single ring is to locate the top screw at the level of the bottom of the electrical box.



### 5.6 ***Attach a Urine Collection or Other Drainage Bag***

Urine collection and other drainage bags can hang on either side of the Platform from the canister rings.



## 5.7 Attach a Chest Drainage Box

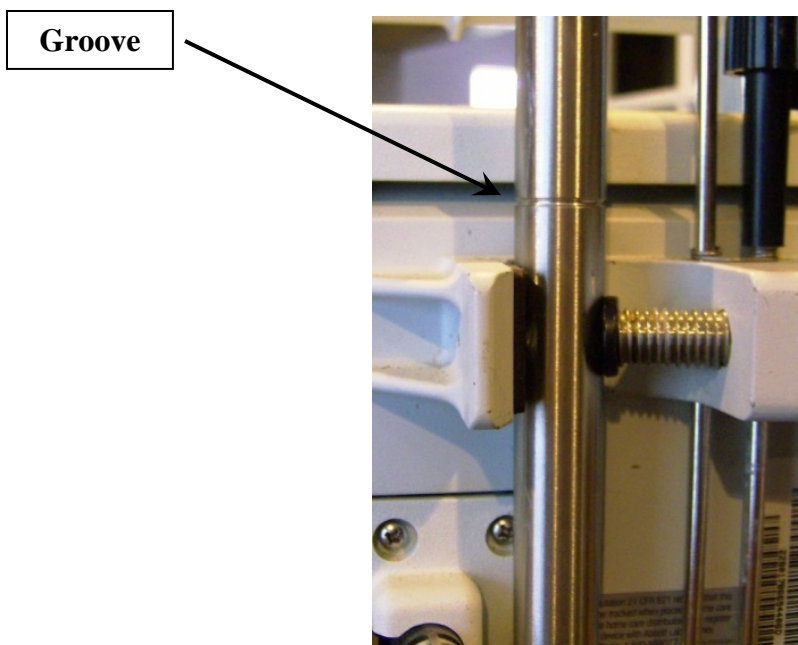
A chest drainage box may also hang from the canister rings. For best results, the canister rings must be mounted high enough so that the chest drainage box does not contact the floor or wheels of the platform.



## 5.8 IV Poles

The Platform is equipped with two IV pole mounting locations near the handle. Use only a Livengood IV pole secured with the threaded screw provided for safety. The pole may be moved from one side to another using a hex wrench to remove the screw and then pulling up on the IV pole.

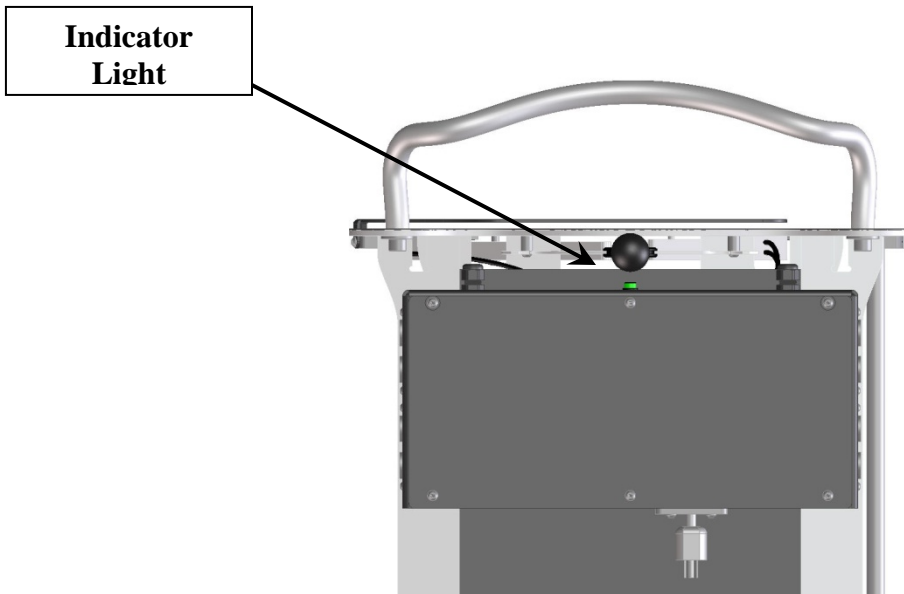
Load heavier devices toward the bottom of the IV pole and add the second pole if several heavy devices are required. **ONLY** IV Bags should be placed above the groove (see picture) marked on each of the IV poles to reduce the risk of tipping.



## 5.9 Use of the Outlets and Retractable Cord

Power outlets on each side of the platform provide power to medical equipment when the retractable cord is plugged into an electrical outlet. The outlets are powered **ONLY** if the **GREEN** indicator light (see below) on top of the electrical box is **ILLUMINATED**. **If the light is not illuminated, the plugs will not be providing power even if the cord is plugged into the wall. The Platform does not come standard with a battery.**

The retractable cord can be extended up to ten feet from the Platform. To retract the cord, pull on it sharply, and then feed it smoothly back into the Platform. If the cord will not hold its position, short movements will help the cord to catch.



5.10 *The Livengood Platform in Action*  
Current Technology



Livengood Platform™



## 6 Helpful Hints

### 6.1 *Assign Platforms to a Room*

Assign each Platform to a room rather than reserving Platforms for specific types of patients. It is important that a Platform is in each room and ready for use upon patient arrival so that devices do not need to be transferred later. **REMOVE** the nightstand, IV Pole, walker and oxygen caddy from the patient room. This creates additional space and reduces room clutter.

### 6.2 *LOAD and LEAVE the Platform Loaded*

Patient mobility is optimized with the chest tubes, urine drainage bag, IV pumps and oxygen cylinders loaded on the Platform at all times.

### 6.3 *Weak Patients*

The accompanying nurse may push the Platform with one hand while assisting the patient who can use the Platform for support. Be sure the Platform is in **WALK** mode for ease in steering.

### 6.4 *Transfer Patients with Wheelchairs*

One staff member may transfer a patient in a wheelchair with a Platform. Similar to an IV pole, the wheelchair can be pushed with one hand while the Platform is pulled by the handle using the other hand. Set the Platform to **WALK** mode to reduce the strain on the staff's arm.

### 6.5 *Transferring Patients in Beds*

When transferring patients in beds and stretchers, the Platform provides a single accompanying structure to hold all of the patient's devices. In smaller elevators, the Platform should be positioned at the head of the bed and turned sideways facing the patient.

### 6.6 *Narrow Doorways*

Rotate the devices located on the IV poles if needed to help fit through narrow doorways. This will only occur in facilities not built to current standards.

### 6.7 *Evaluating a Patient for Independent Ambulation*

Use existing policies to evaluate a patient's ability to safely ambulate independently. For best results, observe the patient ambulating with the Livengood Platform and instruct in proper usage.

### 6.8 *The Platform as a Physical Therapy Aid*

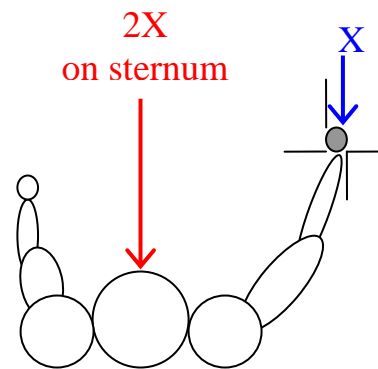
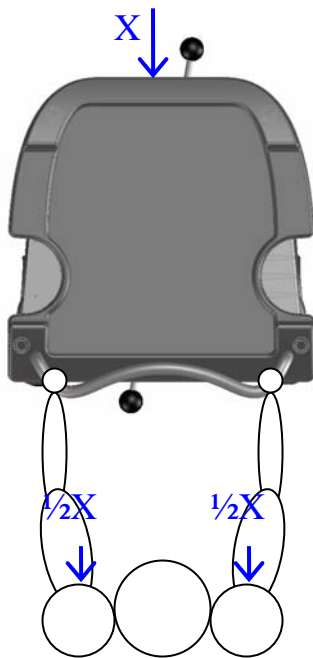
The Platform is an excellent tool for helping patients with standing tolerance, gait training and activities of daily living. Having all of the patient's medical equipment housed on the Platform can decrease the need for aides and improve the quality of time spent with therapists. Patients may perform standing exercises such as hip abduction, extension, toe raises, and balance activities. The **STOP** mode and large surface helps with bathing and grooming at the sink.

## 7 Ergonomic Considerations and Sternal Precautions

The bilateral hand position used for pushing the Platform encourages use of the major muscle groups, such as the quadriceps and pectoralis major resulting in significantly less strain on a patient than maneuvering an IV pole with one hand. Unlike an IV pole, the Platform resists tipping and spinning, and the large wheels make travel over various surfaces smooth and easy. Because of their instability and tendency to get stuck, IV poles and O<sub>2</sub> caddies can put patients at risk for injuries. In addition, they are usually pulled on one side using small muscle groups such as the deltoids and biceps and may require patients to use extra force to push, pull, or lift them over floor irregularities. The Livengood Platform is designed to carry all patient-associated devices with ease.

As recommended by the American Ergonomic Society, the positions of the head, neck, back, and shoulder joints are at mid-range when a patient is pushing the Platform. Forcing these joints to more extreme or end ranges, as IV poles and O<sub>2</sub> caddies can, can cause injury and muscle strain.

Patients with sternal precautions exert less energy and experience less muscle strain pushing the Platform than when using a walker. Pushing down on a walker is contraindicated for surgical cardiac patients because it distributes weight through the arms and chest. Pushing the Platform distributes weight through the scapulae and back and requires less than ten pounds of force when used under normal operating conditions.



### LIVENGOOD PLATFORM

- Symmetric axial loading of arms
- Force transferred to scapulae and back, not sternum
- Quadriceps used for pushing
- Joints at midpoint of ROM
- Platform resists rotation and reduces strain

### IV POLE and O<sub>2</sub> CADDY

- Unilateral pectoralis and small muscle group strain
- Leverage on sternum amplifies force
- Movement requires twisting strain on torso
- Joints extended beyond midpoint of ROM
- May catch on surfaces and cause patient twisting

## 8 Cleaning

**WARNING** – Disconnect the Platform from power before cleaning.

### 8.1 *Technique and Cleaning Solutions*

The Platform may be wiped down with a soft cloth and a mild detergent-disinfectant solution. The wheels may be cleaned with a brush and a mild detergent-disinfectant that will not damage the rubber.

### 8.2 *Finish*

The Platform has an extremely durable powder-coated finish that is bonded to the metal and will not scratch easily or wipe off with cleaners. Most discolorations can be removed with cleaners. However, do NOT use acetone or paint thinners to clean the Platform.

### 8.3 *Labels*

The labels on the Platform are designed to be resistant to wear. Should labels become unreadable over time, contact Livengood for replacement.

### 8.4 *Complete Cleaning – not routine*

The Platform is designed to prevent the ingress of fluids into areas not accessible for wipe down cleaning. However, should such an event be suspected, please contact your Clinical Engineering or Maintenance Services for a complete clean.

Areas that may require disassembly for a complete clean are:

- Top and Bottom Sheet Metal Plates
- Electrical Box
- Front and Back Transformer Covers

## 9 Routine Maintenance and Adjustments

The Platform is designed to function reliably with a minimum of maintenance and adjustment.

### 9.1 ***Maintenance Safety Precautions***

- Remove all equipment attached to the Platform before attempting any maintenance or repair.
- If the Platform must be lifted, always lift the Platform with a minimum of two people.
- Do not use the Rings for lifting the Platform.
- Do not direct any liquid streams or sprays at the Platform when it is plugged in to a wall outlet to prevent possible electric shock.

### 9.2 ***Required Tools***

The only tools required for most repairs and configuration changes are:

- Allen Wrenches – English sizes up to 3/8”
- Socket Wrench
- “4th Hand Tool” - Bicycle Cable Stretcher
- ATO Blade-type Fuse Extractor

### 9.3 ***Move or Add an IV Pole***

For safety, the Livengood Platform is only compatible with Livengood IV poles.

To move an IV pole from one corner of the Platform to another:

- Use a Hex wrench to remove the IV pole locking screw from the side of the Platform.
- Lift the pole straight up.
- Place the pole into another mounting cup, and turn the pole slowly until it seats. Make sure that all poles are seated firmly for maximum stability.

### 9.4 ***Adjust Brakes***

To adjust a brake that is slipping:

- Shift the walking control to the *Stop* position.
- Turn the cable adjuster over the wheel with the slipping brake ¼ turn counterclockwise. This tightens the cable and causes the brake pad to be pulled more tightly against the wheel.
- Check if the wheel is slipping.
- If the wheel is still slipping, repeat steps 2 and 3 until slipping stops.

To adjust all brakes:

- Shift the walking control to the *Stop* position.
- Turn the cable adjuster located over each wheel clockwise as far as it will go. This loosens all cables uniformly and will provide the maximum amount of adjustment over time as the brake pads wear.
- Loosen the brake cable attachment screws.
- Ensure that the brake lever is positioned firmly against the shift lever.
- Pull each brake cable as tight as possible (using a pair of pliers or a bicycle third-hand tool to grip the cable), fully engaging the brake, and then tighten its attachment screw.
- Make fine adjustments using the cable adjusters over each wheel.

### 9.5 ***Adjust the Center Wheel***

If the Center Wheel is not being lifted off the ground when the walking control is in the *Nurse* position:

- Shift the walking control into the *Walk* position.
- Loosen the cable attachment screw for the walking assist wheel.
- Ensure that the walking assist wheel lever is positioned firmly against the shift lever.
- Pull the walking assist wheel cable by hand until it is snug, but do not lift the walking assist wheel off the ground. Do not use the 4<sup>th</sup> Hand for this adjustment as it tends to over-tighten the cable.
- Tighten the cable attachment screw.
- Confirm that the walking assist wheel rolls on the ground when the walking control is set to *Walk* and does not touch the ground when the walking control is set to *Nurse*.

### 9.6 ***Adjust the Retractable Cord***

If the cord does not retract fully, pull the cord out completely and then feed it smoothly back into its housing. If this does not correct cord retraction problems, contact Livengood Engineering for a replacement retractable cord.

## 10 Replace Parts

Please contact Livengood Medical for all replacement parts.

### 10.1 **Replace a Fuse**

- Remove the cover plate from the electrical box.
- Identify the fuse to replace.
- Use a fuse extractor to remove the fuse while firmly grasping the fuse holder.
- Replace the fuse with an identical fuse
- Replace the cover plate.

### 10.2 **Replace Cables**

- Loosen the cable attachment screw on the cable lever.
- Remove the cable; remove both parts if broken.
- Thread a new cable starting at the brake or center wheel assembly through the cable housing. NOTE: If you need to replace the cable housing as well, you will need to remove the transformer cover by removing the 6 outer screws as seen facing the front of the Platform.
- Attach and adjust the cable as described in *Adjust Brakes* and *Adjust Center Wheel*.

### 10.3 **Replace an Outlet**

- Disconnect the Platform from all external power sources.
- Remove the cover plate from the electrical box.
- Remove the outlet from the electrical box. This may require both a hex & socket wrench.
- Remove the wires from the outlet making note of their orientation.
- Attach the wires to the new outlet in the same orientation: brown wire - gold terminals, blue wire – silver terminals, green/yellow wire to ground screw.
- Reattach the outlet to the electrical box.
- Reattach the cover plate.
- Plug in the Platform to external power and confirm that the indicator light illuminates.
- Plug in a powered device into all new outlets to ensure proper function.